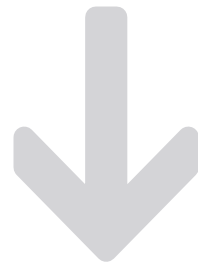


**Scroll
Down**





2017

CATALOGUE

AIR TOOLS

AIR TOOLS ACCESSORIES

HAND TOOLS & FASTENERS

WORKSHOP EQUIPMENT

ENGINEERING EQUIPMENT



AIR TOOLS

PAGE 22



General Purpose Air Tools

Page
22



Air Tools, Nail Guns & Staplers

Page
38



Air Tools

Page
50



Professional Spray Guns

Page
57



Riveting & Nut-Sert Tools

Page
68

AIR TOOLS ACCESSORIES

PAGE 69



Air, Power & Battery Tool Attachments

Page
69



Standard & Special Carbide Burrs

Page
71



Surface Preparation Pads & Accessories

Page
79



General Purpose Air Tool Accessories

Page
82



Air line Coupling

Page
103

HAND TOOLS & FASTENERS

PAGE 106



Hand Tools

Page
106



Riveting & Nut-Sert Tools

Page
115



LED Hand Torches & head Lamps

Page
117



Assorted Automotive & Hardware Kits

Page
126



Industrial Storage Solutions

Page
145



Workshop Stools & Creepers

Page
156



Warehouse & Factory Sweeping Machines

Page
158

ENGINEERING EQUIPMENT

PAGE 159



Precision Measuring Equipment

Page
159



Precision Thread, Radius & Gear Tooth Measuring Tools

Page
178



Drill Chucks & Specialist Attachments

Page
181



Engineering Equipment

Page
189



Engineering Equipment

Page
190

CATALOGUE RESOURCES

PAGE 249

Catalogue Index

Page
249

Part Number Index

Page
252

General Terms & Condition and Warranty

Page
257

Manufacturers of cost-effective and reliable automotive and light industrial air tools.

Manufacturers of cost-effective and reliable air tools for automotive and general purpose machine shops. Geiger air tools provide better value than your average tool. Geiger will get your everyday jobs done at the right price. All Geiger tools have full spare parts back up and come with a 12 month warranty.

1/2" Drive Impact Wrenches

PAGE 22



3/4" Drive Impact Wrenches

PAGE 22



Ratchet Wrenches

PAGE 23



Polishers

PAGE 24



Disc Sanders

PAGE 24



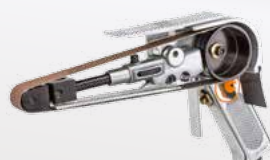
In-line Sanders

PAGE 25



Belt Sanders

PAGE 25



Angle Grinders

PAGE 26



Cut Off Grinders

PAGE 26



Die Grinders

PAGE 27



Cutting & Punching Tools

PAGE 27



Die Grinder Kits

PAGE 28



Screw Drivers

PAGE 28



Drills

PAGE 29



Metal Shears & Nibblers

PAGE 30



Needle Scalers

PAGE 30



Hammering Tools

PAGE 31



Engravers

PAGE 31



Air Rivet Guns

PAGE 32



Fluid Delivery Tools

PAGE 33



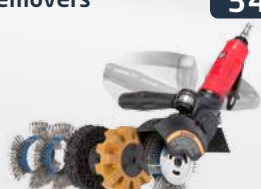
Engine Cleaning Gun

PAGE 33



Rust and Paint Removers

PAGE 34



Sandblasters

PAGE 34



Tyre Inflators
& Gauges

PAGE
35



Digital Tyre Inflator

PAGE
35



Tyre Chucks

PAGE
36



Blow Guns

PAGE
36



BASSO AIR TOOLS

Basso is a one of the world's leading manufacturers of trade quality air fastening and automotive tools.

Established in 1983, Basso is one of Taiwan's largest pneumatic tool manufacturers. As an ISO9001 certified company, Basso air tools are designed and manufactured in house and have rigid quality control and inspection systems. Developed using the world's most advanced research and development technology, these tools are designed to last and perform.

Basso pneumatic tools come with a 1 year warranty. All Basso tools are backed up by a full range of spare parts, held in Australia.



3/8" Drive Impact
Wrenches

PAGE
38



1/2" Drive Impact
Wrenches

PAGE
38



3/4" Drive Impact
Wrenches

PAGE
39



Ratchet Wrenches

PAGE
40



Orbital Sanders

PAGE
41



Geared Sanders

PAGE
42



Disc Grinders

PAGE
42



Die Grinders

PAGE
43



Metal Shears
& Nibblers

PAGE
44



Air Hammers

PAGE
44



C Series Bradders

PAGE
45



C1 Series Bradders

PAGE
45



Angle Nailers

PAGE
46



Countersink & Nail Removers

PAGE
46



Coil Nailers

PAGE
47



T-Nailers

PAGE
47



Staplers

PAGE
48



Nail Gun Oil

PAGE
49



AIR TOOLS

Heavy duty air tools by Kuani Pneumatics are designed for rugged conditions and a long life.

As well as general purpose air tools, KUANI specialize in high powered, robust impact wrenches for use in the most demanding environments. The company was founded in 1980 in Taiwan machining gears and other componentry and later diversified into air tools. By 1989 they had developed their first Twin Hammer impact wrench. For the last 30 years since then, KUANI has been devoted to continually upgrading the quality of its products and now produces over a hundred different types of air tools for various types of working processes.



1/2" Impact Wrenches

PAGE
50



3/4" Impact Wrenches

PAGE
51



1" Impact Wrenches

PAGE
52



1-1/2" Impact Wrenches

PAGE
53



Ratchet Wrenches

PAGE
54



Fluid Delivery Tools

PAGE
54



Grinders

PAGE
55



Sanders

PAGE
55



Hammering Tools

PAGE
55



Rivet & Nut Sert Tools

PAGE
56





Maker of High Quality Professional Spray Painting Equipment for over 20 years.

PROWIN TOOLS have made professional air tools for over 20 years. Their range of professional spray guns are designed to perform in commercial environments, consistently delivering high-quality results and long service life. All Prowin Spray Guns are in Taiwan and backed by a full range of spare parts, accessories and nozzles sets.

Their range of professional spray guns are designed to deliver exceptional atomization performance and spray pattern control. All guns feature chrome, nickel plating or anodised bodies, which offer excellent solvent and corrosion resistance, even with water based paints. Nozzle and Needles are precisely machined from high-grade Stainless Steel for superb performance & durability.

Air Brush

PAGE 57



Mini Gravity Feed Spray Guns

PAGE 57



Suction Feed Spray Guns

PAGE 59



HVLP Gravity Feed Spray Guns

PAGE 60



HVLP Suction Feed Spray Guns

PAGE 61



Pressure Feed Spray Gun Systems

PAGE 62



Pressure Feed Spray Heads

PAGE 64



Pressure Feed Spray Gun System Hoses

PAGE 64



Pressure Feed Spray Tanks

PAGE 65



Suction & Gravity Feed Paint Filters

PAGE 65



Gravity Spray Gun Stands

PAGE 66



Suction & Gravity Feed Pots

PAGE 66



In-line Air Regulators

PAGE 66



K818 Nozzle Sets

PAGE 67



KH818 HVLP Nozzle Sets

PAGE 67



K320M Nozzle Sets

PAGE 67



SUN CITY AIR TOOLS

Precision measuring equipment made in Japan.

A small Japanese company manufacturing cost-effective and reliable hand & pneumatically operated riveting tools.

Sun City's range of hand operated riveting & nutsert tools can be found in the HAND TOOLS section of this catalogue.



Nutsert Tools

PAGE 68



Market Leading Professional Sheet Metal Cutting Attachments

Ezi-shear professional sheet metal cutting attachments enables metal workers to cut common types of sheet metal including corrugated iron with ease and efficiency. The attachment is designed to replace the chuck of most air and electrically powered drills, as well as some battery powered tools. Since its introduction, the Ezi-Shear has been continually refined. In 2013 Ezi-Shear became the smoothest shear in operation yet, utilizing a new patented concentric drive mechanism.

Ezi-shears have undergone years of development and extensive testing in real world professional environments. This has produced a range of metal cutting attachments that has been greatly improved to bring you a tool that is very hard wearing with peerless reliability.

Ezi-Shear Sheet Metal Cutting Attachments

PAGE 69



morrisflex

AIR TOOL ACCESSORIES

An internationally renowned brand of high quality tungsten carbide burs, made in Europe.

For over 50 years Morrisflex has provided optimum solutions for aerospace, automotive, shipbuilding, oil and gas sectors worldwide.

Morrisflex has a burr to suit any material or application. Morrisflex can also offer extended, miniature, micro, coated and special geometry burs for any application.

Morrisflex has been committed to providing our customers with high performance product that maximise productivity and reduce costs.

Morrisflex is accredited to ISO9001: 2008 and is equipped with the latest CNC technology delivering product of unrivaled quality and consistency.

Carbide Burr Sets

PAGE 71



1/4" Shank Double Cut Carbide Burs

PAGE 72



1/4" Shank Stainless Steel Carbide Burs

PAGE 75



1/4" Shank Non-ferrous Carbide Burs

PAGE 76



Extended 1/4" Shank Double Cut Carbide Burs

PAGE 78



flexipads

AIR TOOL ACCESSORIES

Premium Quality Surface Preparation made in Europe since 1974.

Flexipads produce high quality products such as angle grinder pads, orbital sander pads, sander polishing pads and polishing bonnets. They are Europe's largest manufacturer of products for the automotive panel repair, car detailing and fabrication industries.



Internally Threaded Nylon Pads

PAGE 79



Parts & Accessories

PAGE 79



Internally Threaded Pads

PAGE 80



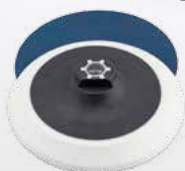
Externally Threaded Pads

PAGE 80



PSA / Stick-on Pads

PAGE 81



Polishing Bonnets

PAGE 81



Manufacturers of cost-effective and reliable automotive and light industrial air tools accessories.

Geiger air tool accessories provide better value than your average tool accessory on the market today. Geiger will get your everyday jobs done at the right price. All Geiger tools have a full spare parts back up and come with a 12 month warranty.

Backing Pads

PAGE 82



Turbo Rubber Backing Pads

PAGE 83



Stripping Wheels

PAGE 83



Mini Backing Pads

PAGE 84



Surface Preparation Kits

PAGE 84



Quick-Lock Abrasive Discs

PAGE 85



Quick-Lock Mini Flap Discs

PAGE 86



Quick-Lock Sanding Discs

PAGE 86



Polishing Discs & Wheels

PAGE 86



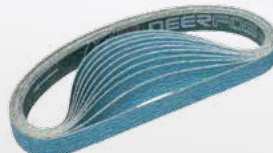
Quick-Lock Stripping Discs

PAGE 87



Sanding Belts

PAGE 87



Abrasive Belts

PAGE 87



Air Hammer Chisels

PAGE 88



Air Hammer Chisel Sets

PAGE 89



Chisel Retainers

PAGE 89



Air Saw Blades & Cut Off Discs

PAGE 89



Deep Impact Sockets

PAGE 90



Budd Wheel & Flip Sockets

PAGE 90



Deep Impact Socket Sets

PAGE 91



Impact Adapter Sets

PAGE 91



Hex Bit Impact Socket Sets

PAGE 92



Impact Extension Bars

PAGE 92



Universal Impact Joints

PAGE 93



Impact Spinner Extension Bars

PAGE 93



Thin Wall Impact
Sockets & Torque
Bar Sets

PAGE
93



Air Filter Regulator
& Lubricators

PAGE
94



Air Filter
Regulators

PAGE
95



Air Regulators

PAGE
96



Air Lubricators

PAGE
96



Air Filters

PAGE
96



Pneumatics
Control Unit Parts
& Accessories

PAGE
97



In-line Water
Separators & Oiler

PAGE
97



Hose Reels

PAGE
98



Recoil Air Hoses

PAGE
98



Fitted Air Hoses

PAGE
98



Manifolds

PAGE
99



In-line Air
Regulators

PAGE
100



Swivel Couplings

PAGE
100



Coupling Sockets
to Hose Fitting

PAGE
100



Coupling Plugs to
Female Thread

PAGE
101



Coupling Plugs
to Male Thread

PAGE
101



Coupling Plug to
Hose Fitting

PAGE
101



One Touch
Coupling Sockets
to Female Thread

PAGE
102



One Touch
Coupling Sockets
to Male Thread

PAGE
102



One Touch
Coupling Socket
to Hose Fitting

PAGE
102



Nitto Kohki produce market leading pneumatic coupling with proven performance and reliability.

Nitto Kohki continue improve their products with their advanced research and development departments in Japan. All products are manufactured to ISO9002 Quality Standards in addition to the adoption of Green Procurement policies to ensure their product's impact on the environment is minimal or nil.

Coupling Sockets to Male Thread

PAGE 103



One Touch Coupling Sockets to Male Thread

PAGE 103



Coupling Plugs to Male Thread

PAGE 103



One Touch Coupling Plugs to Male Thread

PAGE 104



Coupling Sockets to Female Thread

PAGE 104



One Touch Coupling Sockets to Female Thread

PAGE 104



Coupling Sockets to Female Thread

PAGE 104



Coupling Sockets to Hose Fitting

PAGE 105



One Touch Coupling Sockets to Hose Fitting

PAGE 105



Nitto Coupling Plugs to Hose Fitting

PAGE 105



HAND TOOLS

Manufactures cost-effective and reliable tools and accessories for automotive and general propose applications. Geiger tools provide better value than your average hand tool on the market today. Geiger will get your everyday jobs done at the right price. All Geiger tools have a full spare parts back up and come with a 12 month warranty.

Hex Key Wrench Sets

PAGE 106



Punch Sets

PAGE 107



Driver & Pick Sets

PAGE 107



Quick Release Deburring Tools

PAGE 109



High Performance Deburring Sets

PAGE 110



Multi-Component Deburring Tools

PAGE 111



Deburrer Blades

PAGE 113



SUN CITY[®] HAND TOOLS

Precision riveting & nutsert tools made in Japan.

A small Japanese company manufacturing cost-effective and reliable hand & pneumatically operated riveting and nutsert tools.

Sun City's range of air operated riveting & nutsert tools can be found in the AIR TOOLS section of this catalogue.



Hand Operated Riveting Tools

PAGE 115



Hand Operated Nutsert Tools

PAGE 116



Hand Operated Nutsert Mandrels

PAGE 116



suprabeam[®] TORCHES

Danish designed Suprabeam LED torches for performance, quality and elegance.



Suprabeam designs and manufactures innovative LED-torches and LED head torches of the highest quality which are destined for professional craftsmen in industry, automotive and outdoor applications. Their greatest task is to achieve supreme quality and a superb light condition for the entire duration of the product's battery- and lifespan.

Using Suprabeams hyper-focus technology, all beam settings produce high power light output through the aluminium reflector and hyper-focus lens system. Suprabeam works with a Cree chip, the world's premium LED manufacturer. All power LEDs are "heat sink" mounted for maximum output, thermal management, low power consumption and long operational life.

SGS Certification ISO 9001 and UKAS Accreditation Mark are the most internationally recognized standards for quality management systems. These standards assist us to ensure, achieve, benchmark and monitor our consistent high product quality, as well as our comprehensive procedures for quality control, to ensure that every product leaving our factory is in accordance with our high standards.



Compact Hand Torches

PAGE 117



Hand Torches

PAGE 118



Tactical Hand Torches

PAGE 120



Rechargeable Hand Torches

PAGE 121



Head Torches

PAGE 123



Rechargeable Head Torches

PAGE 124



Torch & Headlamp Accessories

PAGE 125



The supplier of fasteners, fuses & seals.

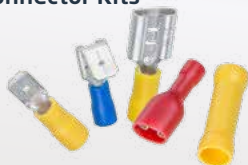
Torres is a supplier of fasteners, fuses & seals specifically for the automotive & fabrication industries as well as general hardware fasteners.

Torres stock a wide variety of automotive fasteners, fuses & seals that meet DIN and Japanese Industrial Standards (JIS).



Automotive Electrical Fuses & Connector Kits

PAGE 126



Automotive Clip & Split Pin Kits

PAGE 128



Automotive Clip & Split Pin Kits

PAGE 129



Automotive Nut, Bolt & Stud Kits

PAGE 129



Automotive Screw Kits

PAGE 131



Automotive Grease Nipple Kits

PAGE 133



Automotive Washer Kits

PAGE 134



Automotive O Ring Kits

PAGE 135



Driver Kits

PAGE 136



Nut & Bolt Kits

PAGE 136



Nut & Bolt Kits

PAGE 137



Nutserts

PAGE 138



Rivet Kits

PAGE 138



Self Tapping Screws

PAGE 139



Washer Kits

PAGE 141



Wood Fasteners

PAGE 142



Wall Fasteners

PAGE 143



Designed for professionals, Geiger's industrial quality storage cabinets provide the ultimate storage solution for your business or home application.

Geiger storage cabinets and parts bins are designed and manufactured to cope with the riggers of most industrial or automotive workshop environments. Using high quality galvanised steel and precisely controlled spot welding, Geiger storage solutions have a heavy load capacities which are suitable for most industrial applications.



Pivot Drawers

PAGE 145



HB Multi-Function Storage Bins

PAGE 146



A-Series Steel Parts Cabinets

PAGE 148



A-Series Drawers & Dividers

PAGE 149



A-Series Steel Parts Cabinets

PAGE 150



Lockable Parts Cabinets

PAGE 150



Lockable Display Cabinets

PAGE 151



HD Series Steel Parts Cabinets & Carts

PAGE 151



A4 Filing Cabinets

PAGE 152



Heavy Duty Parts Trolleys

PAGE 153



Storage Bins

PAGE 153



GTB Series Tool Chests & Roller Cabinets

PAGE 154



WORKSHOP CREEPERS & STOOLS

Mechanic's creepers and stools, built for rugged conditions and user comfort.

The Bone creepers and stools are the best of their kind and made in the USA. Suitable for any garage or workshop floor, these tools move with stability and provide the best comfort for your tail bone.

All products feature strong, custom moulded wheels with oil impregnated metal centre bearings. All Bone mechanic's creepers and seats include a limited lifetime warranty on the wheels and a limited one-year warranty on the body.

Mechanics Stools

PAGE 156



Mechanics Creepers

PAGE 157



SWEEPERS

Specialist In Push Sweeping Machines.

Established in Germany by Hermann Haaga in 1974, Haaga has been a specialist in push sweeping machines to this day. Originally specializing in moulding and processing plastics, the company realised very early that the principle of rotating circular brooms was a milestone in sweeping technology. Haaga patented this technology which began a legacy in sweeping innovation for years to come.

Today, Haaga continues to develop their machines with a research and development laboratory located in Germany. As a result Haaga now offers a range of sweeping machines that are able to fulfil the most unique requirements of their many, varied users.

Workshop & Warehouse Sweepers

PAGE 158



ACCUD MEASURING EQUIPMENT

ACCUD produce a wide range of high quality products that are always manufactured a tested to their own strict quality criteria.

Accud is a dedicated supplier of precision measuring instruments throughout the world. Accud product lines not only cover traditional instruments like calipers, micrometers, dial indicators, height gauges etc, but also cover high technology measuring instruments like digital hardness testers, vision machines, digital force gauges, infrared thermometers etc.

Accud products are produced to strict manufacturing standards and tolerances and many instruments are supplied with a factory issued calibration certificate to guarantee accuracy. All Accud products are covered by a 12 month warranty



**Dual Scale
Digital Calipers**

**PAGE
159**



**Digital Brake
Calipers**

**PAGE
161**



Vernier Calipers

**PAGE
162**



Dial Calipers

**PAGE
163**



**Metric Outside
Micrometers**

**PAGE
164**



**Coolant Proof
Outside
Micrometers**

**PAGE
166**



**Imperial Outside
Micrometers**

**PAGE
166**



**Outside Micrometer
Accessories**

**PAGE
166**



Bore Gauges

**PAGE
167**



Height Gauges

**PAGE
168**



**Depth Micrometers
& Verniers**

**PAGE
169**



Inside Micrometers

**PAGE
169**



**Centering & Lever
Type Indicator**

**PAGE
169**



Indicators

**PAGE
170**



Magnetic Base Kits

**PAGE
170**



**Magnetic Bases
& Accessories**

**PAGE
171**



Electronic Meters

**PAGE
172**



**Protractors
Squares & Levels**

**PAGE
173**



**Protractors
Squares & Levels**

**PAGE
174**



Data Acquisition

**PAGE
174**



Thread Gauges

**PAGE
175**



Radius Gauges

**PAGE
175**



Gauges

**PAGE
176**



Dividers & Calipers

**PAGE
177**



FUJI TOOL MEASURING EQUIPMENT

Precision measuring equipment made in Japan since 1933.

Fuji Tools have over 80 years experience in precision measuring equipment. Taking advantage of the knowledge cultivated over this time, Fuji Tools produce premium quality radius pitch and gear tooth gauges made in Japan.

Thread Gauges

PAGE
178



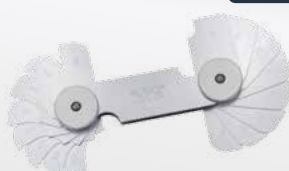
Welding & Depth Gauges

PAGE
178



Radius & Pitch Gauges

PAGE
179



Gear Tooth Gauges

PAGE
180



DRILL CHUCKS

Porta has been an Italian drill chuck manufacturer since 1936.

All Porta drill chucks are manufactured with the same care and attention to detail – from simple keyed chucks to high precision keyless chucks designed for CNC operation. With ISO9001 certification, Porta drill chucks are a reliable and cost-effective option for all your chucking needs.



Reversible Keyless Drill Chucks

PAGE
181



Self-Tightening Keyless Drill Chucks

PAGE
181



Keyed Drill Chucks

PAGE
183



Drill Attachments

PAGE
184



Thread Adapters

PAGE
185



Ejecting Drifts

PAGE
185



Drill Chuck Keys

PAGE
185



Manufactures cost-effective and reliable engineering equipment and accessories for general purpose engineering machine shops.

Manufactures cost-effective and reliable engineering equipment for automotive and general propose applications. Geiger engineering equipment provides better value than brands on the market today. Geiger will get your everyday jobs done at the right price. All Geiger tools have a full spare parts back up and come with a 12 month warranty.

Number & Letter Stamps

PAGE 186



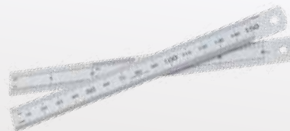
Stamps & Punch

PAGE 187



Rulers

PAGE 187



Magnetic Tools

PAGE 188



Flexible Drill Shafts

PAGE 195



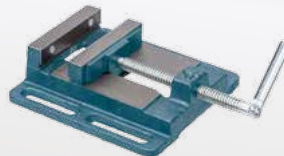
Drill Bits

PAGE 195



Drill Vices

PAGE 196



Welders Vices

PAGE 196



Precision Drill Vices

PAGE 197



Round / Pipe Vices

PAGE 197



Vertex is a trusted brand of engineering tools and accessories, manufactured to high precision standards using quality materials.

Used in workshops and manufacturing plants around the world, Vertex tools and work holding systems keep the wheels of the industry turning. As an ISO9001 certified company, Vertex tools and accessories are built to the highest trade quality.



Work Lamps



PAGE 189

Granite Surface Plates



PAGE 189

Drill Drifts



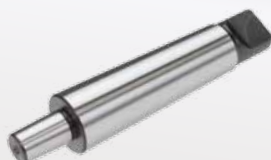
PAGE 190

Drill Chuck Arbors



PAGE 190

Drill Chuck Arbors



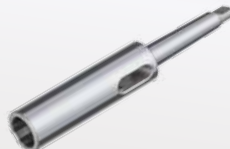
PAGE 191

Drill Sleeves



PAGE 192

MT Extension Sockets



PAGE 192

Keyed Drill Chucks



PAGE 193

Keyless Drill Chucks



PAGE 193

Drill Chuck Keys & Spanners



PAGE 193

Morse Taper Tang Adapters



PAGE 194

Straight Shank Drill Chuck Arbors



PAGE 194

45° Chamfering End Mills



PAGE 194

Rotary Tables



PAGE 198

Rotary Table Dividing Plates



PAGE 198

Dividing Heads



PAGE 199

Tailstocks



PAGE 199

Tilting Rotary Tables



PAGE 200

Super Indexing Spacers



PAGE 200

Milling Table Work Stoppers



PAGE 200

Parallel & Angle Block Sets



PAGE 201

Sine Bars



PAGE 202

Slotted Angle Plates



PAGE 202

Slotted Angle Plates



PAGE 202


V Blocks
**PAGE
203**

V Blocks Clamps
**PAGE
203**

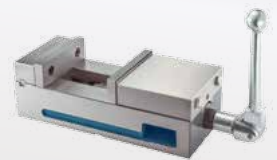
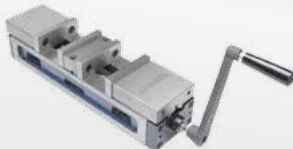
**Adjustable
Angle Plates**
**PAGE
204**

Cross Tables
**PAGE
204**

Screw Jacks
**PAGE
205**

K Type Milling Vices
**PAGE
205**

**Verti-Lock
Milling Vices**
**PAGE
206**

Milling Vices
**PAGE
206**

**Special Purpose
Milling Vices**
**PAGE
207**

**Hydraulic
Milling Vices**
**PAGE
207**

**Hydraulic
Milling Vices**
**PAGE
208**

**Three Way
Angle Vices**
**PAGE
208**

**Super Open
Milling Vices**
**PAGE
209**

**High Jaw
Milling Vice**
**PAGE
209**

Free Vices
**PAGE
209**

Clamp Kits
**PAGE
210**

**Metric Clamping
Studs**
**PAGE
211**

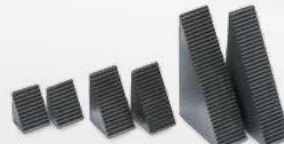
**Imperial Clamping
Studs**
**PAGE
212**

**Slot Table
Channel Clamps**
**PAGE
212**

T Slot Nuts
**PAGE
213**

Metric Flange Nuts
**PAGE
213**

**Metric Coupling
Nuts**
**PAGE
214**

Step Blocks
**PAGE
214**

Step Clamps
**PAGE
215**

**Milling Machine
Accessories**
**PAGE
216**

ER Collet Sets
**PAGE
216**

ER Collets
**PAGE
217**

ER Collet Trays
**PAGE
219**


Collet Chucks

**PAGE
219**



Collet Chucks

**PAGE
220**



ER Tapping Chucks

**PAGE
221**



Chuck & ER
Collet Sets

**PAGE
221**



Chuck & ER
Collet Sets

**PAGE
222**



ER Collet Chuck
Clamping Nuts

**PAGE
223**



ER Collet Chuck
Spanners

**PAGE
223**



ER Collet Chucks

**PAGE
224**



BT Morse Taper
Adapters

**PAGE
224**



BT Side-lock End
Mill Holders

**PAGE
225**



BT Face Mill Arbors

**PAGE
225**



BT Pull Studs

**PAGE
225**



OZ25 Collets

**PAGE
226**



OZ25 Collet
Chuck Spanners
& Clamping Nuts

**PAGE
226**



NT & R8 Milling
Sleeves

**PAGE
227**



Milling Adapters

**PAGE
227**



Face Mill Arbors

**PAGE
228**



45 Degree
Milling Cutters

**PAGE
229**



90 Degree
Milling Cutters

**PAGE
230**



Integrated Keyless
Drill Chucks

**PAGE
230**



Integrated Keyless
Drill Chucks

**PAGE
231**



Reversible Tapping
Attachments
& Collets

**PAGE
231**



VBC Boring Heads

**PAGE
232**



VBC Boring
Head Arbors

**PAGE
232**



VBH Boring Heads

**PAGE
233**



VBH Boring
Head Arbors

**PAGE
233**



VBHU Boring &
Facing Head

**PAGE
234**



VBHU Boring
Head Arbors

**PAGE
234**



Coolant Systems

**PAGE
235**



Soluble Cutting Oil

**PAGE
235**



Stands

**PAGE
235**



Deluxe Tool Stands

**PAGE
236**



Tooling Racks

**PAGE
236**



Spindle Taper Wipers

**PAGE
236**



Tooling Trolleys

**PAGE
237**



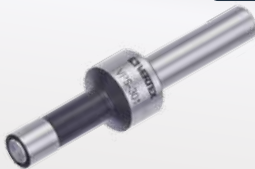
Height Pre-setters

**PAGE
238**



Touch Point Sensors

**PAGE
238**



3 Jaw Chucks

**PAGE
239**



4 Jaw Independent Chucks

**PAGE
239**



Lathe Chuck Keys

**PAGE
239**



Lathe Chuck Jaws

**PAGE
240**



Reducing Sleeves

**PAGE
240**



Reducing Sleeves

**PAGE
241**



Straight Shank to MT Adapters

**PAGE
241**



Quick Change Boring Bar Holder Set

**PAGE
242**



Parting Blocks, Blades & Inserts

**PAGE
242**



J112 Inserts

**PAGE
243**



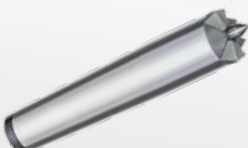
Lathe Tool Kits

**PAGE
244**



Lathe Centres

**PAGE
244**



Lathe Centres

**PAGE
245**



Lathe Centres

**PAGE
246**



Lathe Centres

**PAGE
247**



Lathe Tool Holders

**PAGE
247**



Lathe Boring Bars

**PAGE
248**



1/2" Drive Impact Wrenches

1/2" Impact Wrench

PN: GP260T

- Twin hammer design for smooth power delivery
- Rubber grip absorbs vibration
- Three power positions in both directions on the forward and reverse dial
- Through handle exhaust
- Swivel air connection

Anvil Size: 1/2" Sq
 Max Torque: 500 Ft/lbs
 Free speed: 6700 RPM
 Weight: 1.94 Kg
 Inlet: 1/4" NPT
 Noise level: 94.7 dBa (105.7 dB power)
 Vibration: 4.82 M/S²
 Max. air pressure: 90 PSI



1/2" Impact Wrench Kit

PN: GP504K

- A great entry level Impact wrench kit
- Great for tyre shops and lower power applications
- Kit includes 10 sockets, 9,10,11,13,14,17,19,22,24 & 27 MM
- Single Hammer design - tried and tested
- 260 Ft/lbs max torque
- Forward and reverse pin above trigger
- Rubber nose protector, front exhaust

Anvil Size: 1/2" Sq
 Max Torque: 260 Ft/lbs
 Bolt Capacity: 5/8" (16 MM)
 Free Speed: 7,000 RPM
 Weight: 2.0 Kg
 Inlet: 1/4" NPT
 Avg Air Cons.: 4.5 CFM
 Noise level: 94 dBa
 Vibration: 10.4 M/S²
 Max. air pressure: 90 PSI



3/4" Drive Impact Wrenches

3/4" Impact Wrench

PN: GP3125

- Double hammer design for smooth power delivery
- Light weight but robust polymer handle section, alloy nose piece
- Three position power setting, forward and reverse via through pin
- Muffled exhaust via handle

Anvil Size: 3/4" Sq.
 Max Torque: 1100 Ft/lbs
 Bolt capacity: 3/4" (19 MM)
 Free speed: 6800 RPM
 Weight: 3.48 Kg
 Inlet: 3/8"
 Average air consumption: 6.9 CFM
 Noise level: 102.5 dBa (113.5 dBa power)
 Vibration: 19.7 M/S²
 Max. air pressure: 90 PSI



Ratchet Wrenches

3/8" Ratchet Wrench

PN: GP5203



- Industry Standard Ratchet Wrench
- Front exhaust

Anvil Size: 3/8"
Max Torque: 75 Ft/lbs
Free Speed: 200 RPM
Length: 268 MM
Weight: 1.2 Kg
Inlet: 1/4" NPT
Vibration level: 10.5 M/S²
Average Air Consumption: 4 CFM
Max. air pressure: 90 PSI

1/2" Ratchet Wrench

PN: GP5204



- Industry Standard Ratchet Wrench
- Front exhaust

Anvil Size: 1/2" Sq.
Max Torque: 75 Ft/lbs
Free Speed: 200 RPM
Length: 268 MM
Weight: 1.2 Kg
Inlet: 1/4" NPT
Vibration level: 10.5 M/S²
Average Air Consumption: 4 CFM
Max. air pressure: 90 PSI

Deep Impact Sockets

See more on Page 90



1/2" Metric 13 Piece Socket Set

PN: GX1312SSM

Sizes: 10, 12, 13, 14, 15, 17, 18, 19, 21, 22, 24, 27 & 30 MM

1/2" Imperial 13 Piece Socket Set

PN: GX1312SSI

Sizes 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1-1/16, 1-1/8 & 1-1/4"

Budd Wheel & Flip Sockets

See more on Page 90

This two-in-one extra deep budd socket removes both nut and stud with one socket on dual-wheel applications. To suit Isuzu, Hino, Mitsubishi, Fuso and most European trucks.

3/4" Drive Budd Wheel Sockets

17 MM Square PN: GXBWS3417

3/4" Drive 19 MM Budd Wheel Socket

PN: GXBWS3419

3/4" Drive 21 MM Budd Wheel Socket

PN: GXBWS3421



Impact Extension Bars

See more on Page 92

3/8" Drive Wobble Impact Extension 4 Piece Bar Set

PN: GXWEBS38

Includes: 3", 6", 10" & 18" bars



Polishers

7" Angle Polisher

PN: GP1206P

- Side handle for smooth and stable sanding
- Can be mounted for left or right hand operation
- Front exhaust

Pad Size: 7" (180 MM)

Spindle Size: Male 5/8-11UNC

Free Speed: 2,500 RPM

Weight: 2.1 Kg

Inlet: 1/4" NPT

Average Air Consumption: 12 CFM

Max. air pressure: 90 PSI



Disc Sanders

2-5" Orbital Sander Kit

PN: GP1204R

- Includes 3", 4-1/2" and 5" fibre pads, for 22 MM hole abrasive
- Includes thread adapter for 50 MM pad
- 50 MM pad and 2 abrasives included
- Dial speed regulator built into handle
- Front exhaust, all metal body construction

Spindle Size: 3/8 x 24 UNF

Free Speed: 16,000 RPM

Weight: 1.2 Kg

Inlet: 1/4" NPT

Average air consumption: 6 CFM

Noise Level: 99 dBA

Vibration: 2.1 M/S²

Max. air pressure: 90 PSI



6" Dual Action Sander

PN: GP1205

- Most popular multi purpose 6" sander
- 7 MM orbit diameter for rough sanding
- 6" Velcro Backing pad

Pad Size: 6" (150 MM)

Orbit Diameter: 7 MM

Free Speed: 9,000 RPM

Weight: 2.0 Kg

Inlet: 1/4" NPT

Max. air pressure: 90 PSI



7" Angle Sander

PN: GP1206A

- Side handle for smooth and stable sanding
- Can be mounted for left or right hand operation
- Front exhaust

Pad Size: 7" (180 MM)

Spindle Size: Male 5/8-11UNC

Free Speed: 4,500 RPM

Weight: 2.1 Kg

Inlet: 1/4" NPT

Average Air Consumption: 12 CFM

Max. air pressure: 90 PSI



In-line Sanders

In-line Pad Sander

PN: GP1203

- Takes 70 x 445 mm clip on paper for flat automotive panel work
- Top mounted trigger

Pad Size: 68 x 397 mm

Free Speed: 2,500 SPM

Stroke length: 25 mm

Weight: 2.5 kg

Inlet: 1/4" NPT

Average Air Consumption: 9 CFM

Max. air pressure: 90 PSI



Belt Sanders

10 mm Belt Sander

PN: GP1264A



- 10 mm adjustable sanding arm
- Quick and easy belt change
- Rear exhaust
- All metal body construction

Belt Size: 10 x 330 mm

Free Speed: 16,000 RPM

Weight: 0.88 kg

Tool length: 290 mm

Inlet: 1/4" NPT

Average Air Consumption: 12.6 CFM

Max. air pressure: 90 PSI

20 mm Belt Sander

PN: GP1265A



- 20 mm adjustable sanding arm
- All metal body construction
- Quick and easy belt change
- Rear exhaust

Belt Size: 20 x 520 mm

Free Speed: 16,000 RPM

Weight: 1.15 kg

Tool length: 360 mm

Inlet: 1/4" NPT

Avg Air Consumption: 14 CFM

Sanding Belts

See more on Page 87

330 mm Zirconia Sanding Belts

PN: SIP10MMXP80

Belt Size: 10 x 330 mm

Pack of 10

520 mm Zirconia Sanding Belts

PN: SIP20MMXP80

Belt Size: 10 x 520 mm

Pack of 10



Air Saw Blades & Cut Off Discs

See more on Page 89

3" Cut Off Discs Pack of 5

PN: CO007K

Discs only 0.8 mm thick.

Cuts quicker and cleaner saving you time and money.

Ø75 x 0.8 x Ø9.53 mm

Speed Rated to 25,000 RPM



Angle Grinders

4" Compact Angle Grinder

GP8101

- Compact design for confined working conditions
- Ergonomic, light in weight
- Left hand side handle

Disc Size: 4" (100 MM)
Spindle Size: M10 x 1.5
Free Speed: 11,000 RPM
Weight: 1.4 Kg
Length: 185 MM
Average Air Consumption: 6 CFM
Max. air pressure: 90 PSI



4" Angle Grinder

PN: GP8102

- Industry Standard Angle Grinder
- Safety lever
- Left hand side handle

Disc Size: 4" (100 MM)
Spindle Size: M10 x 1.5
Free Speed: 11,000 RPM
Weight: 1.95 Kg
Length: 230 MM
Inlet: 1/4" NPT
Average Air Consumption :7.5 CFM
Max. air pressure: 90 PSI



5" Angle Grinder

PN: GP31003

- 5" Angle Grinder - front exhaust
- Safety throttle lever
- Left hand side handle

Disc Size: 5" (125 MM)
Spindle Size: M14 x 1.5
Free Speed: 11,000 RPM
Weight: 1.9 Kg
Inlet: 1/4" NPT
Length: 230 MM
Average Air Consumption: 7.5 CFM
Max. air pressure: 90 PSI



Cut Off Grinders

3" Cut Off Grinder

PN: GP3201

- Suitable for cutting off pipe and mufflers
- Safety lever throttle
- Spare discs available see PN: CO007K on page 89
- Rear exhaust
- Built in speed regulator

Disc Size: 3" (75 MM)
Free Speed: 22,000 RPM
Weight: 0.75 Kg
Inlet: 1/4" NPT
Average Air Consumption: 4 CFM
Sound Pressure: 92 dBA
Vibration: 4.1 M/S²
Max. air pressure: 90 PSI



3" In-line Cut Off Grinder

PN: GP3203

- Spindle lock button for easier cut off wheel replacement
- Includes one 3" cut-off disc.
- Ergonomic construction, compact body
- Guard angle can be adjusted
- Spare discs available see PN: CO007K on page 89
- Safety lever
- Rubber grip
- Rear exhaust

Disc Size: 3" (75 MM)
Free Speed: 18,000 RPM
Weight: 0.8 Kg
Inlet: 1/4" NPT
Av. air Cons: 4.2 CFM



Die Grinders

1/4" Die Grinder

PN: GP2202

- Popular standard length die grinder
- Rear exhaust
- Safety lever on trigger
- Built in speed regulator
- 1/8", 3 mm and 6 mm collets available

Collet Size: 1/4"
Free Speed: 22,000 RPM
Weight: 0.675 Kg
Inlet: 1/4" NPT
Noise Level: 92 DBa
Vibration level: 8.1 M/S²
Avg Air Consumption: 4.0 CFM
Max. air pressure: 90 PSI



1/4" Die Grinder

PN: GP2202R

- Polymer body for comfort and durability
- Safety lever on trigger
- Rear side venting exhaust that can be positioned via rotation.
- Metal motor nut for greater durability
- Built in speed regulator
- 1/8", 3 mm and 6 mm collets available

Collet Size: 1/4"
Free Speed: 21,000 RPM
Weight: 0.833 Kg
Inlet: 1/4" NPT
Noise Level: 91 DBa
Vibration level: 8 M/S²
Avg Air Consumption: 4.0 CFM
Max. air pressure: 90 PSI



1/4" Angle Die Grinder

PN: GP2203R

- Polymer body for comfort and durability
- Safety lever on trigger
- All metal angle head for strength.
- Rear side venting exhaust that can be positioned via rotation.
- Metal motor nut for greater durability
- Built in speed regulator
- 1/8", 3 mm and 6 mm collets available

Collet Size: 1/4"
Free Speed: 18,000 RPM
Weight: 0.833 Kg
Inlet: 1/4" NPT
Noise Level: 82 dBa
Vibration level: 8 M/S²
Avg Air Consumption: 4.0 CFM
Max. air pressure: 90 PSI



Cutting & Punching Tools



Air Body Saw

PN: GP9301

- Popular for auto body work
- Comes complete with a guide to accurately keep the tool parallel to the work.
- Safety lever on the trigger
- Spare saw blades available see on Page 89

Cutting Capacity: 1.2 mm mild steel
Stroke length 9.5 mm
Free Speed: 10,000 SPM
Inlet: 1/4" NPT
Max. air pressure: 90 PSI
Avg Air Consumption: 4.0 CFM
Weight: 1.1 Kg



Punch and Flange Tool

PN: GP9201

- For Panel Beating work up to 1.2 mm
- Flange function forms an offset crimped edge for no bump lay welds.
- Punch function is on the adjacent side
- Ergonomic construction, compact body

Capacity: 1.2 mm Mild Steel
Flange Capacity: 14 mm
Punch Hole Diameter: 5 mm
Inlet: 1/4" NPT
Max. air pressure: 90 PSI
Weight: 1.1 Kg

Die Grinder Kits

1/4" Die Grinder Kit

PN: GP2202K

- Popular standard length die grinder kit
- Kit includes a range of 10 grinding stones
- Blow mould carry case
- Rear exhaust
- Safety lever on trigger
- Built in speed regulator
- 1/8", 3 MM and 6 MM collets available

Collet Size: 1/4"
Free Speed: 22,000 RPM
Weight: 0.675 Kg
Inlet: 1/4" NPT
Noise Level: 92 dBa
Vibration level: 8.1 M/S²
Avg Air Cons.: 4.0 CFM
Max. air pressure: 90 PSI



1/4" Compact Die Grinder Kit

PN: GP2201K

- Small Body Size
- Kit includes a range of 10 grinding stones
- Blow mould carry case
- Front exhaust
- 1/8", 3 MM and 6 MM collets available

Collet Size: 1/4"
Free Speed: 22,000 RPM
Weight: 0.35 Kg
Inlet: 1/4" NPT
Noise Level: 92 dBa
Vibration level: 11.8 M/S²
Avg Air Consumption: 4.0 CFM
Max. air pressure: 90 PSI



1/8" Micro Die Grinder Kit

PN: GP2204K

- High speed pencil die grinder kit
- Kit includes a range of 10 grinding stones
- Blow mould carry case
- 1.5 m integrated whip hose with inbuilt muffler shroud

Collet Size: 1/8"
Free Speed: 55,000 RPM
Weight: 0.3 Kg
Inlet: 1/4" NPT
Noise Level: 95 dBa
Vibration level: <2.5 M/S²
Avg Air Consumption: 7.0 CFM
Max. air pressure: 90 PSI



Screw Drivers

6 MM Pistol Grip Screw Driver

PN: GP1279A

- Adjustable clutch screwdriver
- 6 MM Capacity
- Forward and reverse lever beside the trigger
- Exhausts through the base of the handle
- Comes complete with torque adjustment tools

Shank Size: 1/4" (6.35 MM)
Max Torque: 6.9 Ft/lbs
Bolt Capacity: 6 MM
Free Speed: 1,800 RPM
Weight: 1.1 Kg
Inlet: 1/4" NPT
Average Air Consumption: 10 CFM
Max. air pressure: 90 PSI



8 MM Screwdriver 800 RPM

PN: GP5105

- Adjustable clutch screwdriver
- 8 MM Capacity
- Forward and reverse lever beside the trigger
- Exhausts through the base of the handle
- Comes complete with torque adjustment tools

Shank Size: 1/4" (6.35 MM)
Max Torque: 6.9 Ft/lbs
Bolt Capacity: 8 MM
Free Speed: 800 RPM
Weight: 1.3 Kg
Inlet: 1/4" NPT
Average Air Consumption: 10 CFM
Max. air pressure: 90 PSI



Drills



Reversible Drill 3/8"

PN: GP41013

- Pistol grip reversible drill with 3/8" chuck
- Forward and reverse lever beside the trigger
- Exhausts through the base of the handle
- Includes chuck key

Free Speed: 1,800 RPM

Chuck Size: 3/8" (10 MM)

Drilling Capacity: 10 MM (3/8")

Spindle Size: 3/8 x 24 UNF

Weight: 1.36 Kg

Inlet: 1/4" NPT

Length: 165(L) x 155(H) x 38(W) mm

Air consumption: 10 CFM

Max. air pressure: 90 PSI



Reversible Drill 3/8" Keyless

PN: GP41013K

- Pistol grip reversible drill with 3/8" keyless plastic body chuck
- Forward and reverse lever beside the trigger
- Exhausts through the base of the handle

Free Speed: 1,800 RPM

Chuck Size: 3/8" (10 MM) Keyless

Drilling Capacity: 10 MM (3/8")

Spindle Size: 3/8 x 24 UNF

Weight: 1.36 Kg

Length: 172(L) x 155(H) x 38(W) mm

Average Air consumption: 10 CFM

Max. air pressure: 90 PSI



Reversible Drill 1/2" 750 RPM

1/2" Keyed Chuck PN: GP4204

1/2" Keyless Chuck PN: GP4204K

- 1/2" Reversible Drill with geared chuck
- Forward and reverse lever beside the trigger
- Exhausts through the base of the handle
- Detachable side handle and chuck key included

Free Speed: 800 RPM

Chuck Size: 1/2" (12.7 MM)

Drilling Capacity: 13 MM (1/2")

Spindle Size: 3/8 x 24 UNF

Weight: 1.76 Kg

Inlet: 1/4" NPT

Vibration: 0.24 m/s²

Sound pressure: 95 DBa

Average air consumption: 4 CFM

Max. air pressure: 90 PSI

Driver Kits

See more on Page 136

Pozidrive, Square & Magnetic Nut Setters

PN: HAK39

60 piece kit includes an assortment of 10 MM Magnetic Nut Setters, 3/8 Magnetic Nut Setters, No.1x25, No.3x25, No.3x50, No.2x25, No.2x50 Pozi Bits, No.1x50 long Pozi Bits, No.1x25, No.1x50, No.2x25, No.2x50 Square Drive Bits.



3/8" Reversible Angle Drill

PN: GP4209

- Reversible angle drill with 3/8" chuck
- Top mounted throttle lever
- Lockable forward drilling action system or unlocked for quick action between forward (depressed) and reverse (released)
- Rear exhaust

Free Speed: 1500 RPM

Chuck Size: 3/8" (10 MM)

Drilling Capacity: 10 MM (3/8")

Spindle Size: 3/8 x 24 UNF

Weight: 1.02 Kg

Inlet: 1/4" NPT

Avg Air Consumption: 4 CFM

Max. air pressure: 90 PSI

Includes chuck key.



Metal Shears & Nibblers

Pistol Grip Metal Shear

PN: GP8201

- 3 Blade, centre blade cutting action
- Fast reliable easy cutting of flat materials
- Single speed trigger
- Exhausts through handle
- Not suitable for stainless steel or soft metals

Cutting Capacity: 1.6 MM Mild Steel
Width of Cut: 7/32"
Free Speed: 2,500 SPM
Weight: 1.05 Kg
Inlet: 1/4" NPT
Avg Air Consumption: 4.2 CFM
Max. air pressure: 90 PSI



Air Nibbler

PN: GP9101

- Great for cutting curves in sheet metal
- Cuts up to 1.6 MM mild steel
- Top mounted trigger, front exhaust



Cutting Capacity:
1.4 MM steel
1.6 MM aluminium
Free Speed: 2900 SPM
Weight: 0.9 Kg
Length: 193 MM

Inlet: 1/4" NPT
Average Air Consumption: 4 CFM
Noise: 85.5 dBA
Max. air pressure: 90 PSI

Needle Scalers

Straight Needle Scaler

PN: GP201

- Straight grip needle scaler for removing rust or old paint
- Two part construction for fast dismantling and replacement of worn needles
- Designed for light to medium work
- Replacement needle sets: 201N14SET

Stroke Length: 33 MM
Free Speed: 4,000 BPM
Weight: 2.8 Kg
Overall length: 420 MM
Inlet: 1/4" NPT
Average Air Consumption: 10 CFM
19 needles Ø3 x 180 MM
Max. air pressure: 90 PSI



Straight Needle Scaler Kit

PN: GP268K

- Square shank maintains constant chisel orientation
- Supplied in plastic carry case
- Kit includes: Straight Needle Scaler,
- 1 x Moil Point Chisel, 1 x 20 MM Flat Chisel
- 1 x 35 MM Bent Chisel,
- 1 x Needle Scaler Attachment

Blows per minute: 4,000 BPM
Shank Type: B1-C-LT
Overall length: 460 MM
Avg. air Cons: 15 CFM
Piston Stroke: 38 MM
Noise Level: 104.3 dBA
92.3 dBA (Pwr)
Vibration level: 10.2 M/S²
Net weight: 2.1 Kg
Air Inlet: 1/4" NPT
Max. air pressure: 90 PSI



Needle Scaler Attachment

PN: GP60012

- Converts most Standard Air Hammers to needle scalers
- Round Shank 19 Needles.
- Replacement needle sets: 201N14SET

Needle Scaler Attachment - 19 Needles
Needle size: 3 x 180 MM
Max. air pressure: 90 PSI



Hammering Tools

Air Hammer Kit

PN: GP102KD

- Medium Duty Air Hammer
- 5 chisels and spring retainer included in kit
- Inbuilt air flow regulator
- Front exhaust
- Compact design

Shank Size: 10.2 MM (round)
Stroke Length: 66 MM
Free Speed: 3,000 BPM
Weight: 1.55 Kg
Inlet: 1/4" NPT
Noise Level: 99 dBA
Vibration level: 6.0 M/S²
Average Air Consumption: 5.5 CFM
Max. air pressure: 90 PSI



Heavy duty Air Hammer Kit

PN: GP112K

- Heavy Duty Air Hammer
- 5 chisels and spring retainer included in kit
- Front exhaust
- Enlarged cylinder and piston for greater power

Shank Size: 10.2 MM (round)
Stroke Length: 92 MM
Free Speed: 2,200 BPM
Weight: 2.05 Kg
Inlet: 1/4" NPT
Noise Level: 101 dBA
Vibration level: 101 M/S²
Average Air Consumption: 6 CFM
Max. air pressure: 90 PSI



Air Hammer Chisel Sets

See more on Page 89

7" Chisel 5 Piece Set

PN: GPA57

Shank Dia.: 10.2 MM

Set includes Panel Cutter, 20 MM Cold Chisel, Single Blade Cutter, Rivet Cutter and Tapered Punch.



Chisel Retainers

See more on Page 89

Heavy Duty Quick Change Spring Retainer

PN: GPA2311

Fits most standard Air Hammers & chisels

Pull back collar for quick and easy tool change

Designed for Heavy Duty use



Engravers

Air Engraving Stylus

PN: GP110

- Percussion engraver for marking steel or aluminium.
- Comes complete with medium point stylus.
- Fine and wide point engraving stylus also available

Weight: 0.40 Kg

Inlet: 1/4" NPT Male thread

Hose Length: 1.43 m

Avg Air Cons.: 1.0 CFM

Recommended air pressure: 90 PSI

Fine Point Stylus to suit GP110

PN: GP110-16

Medium Point Stylus to suit GP110

PN: GP110-17

Wide Point Stylus to suit GP110

PN: GP110-18



Air Rivet Guns



Air Rivet Gun Kit 3/16"

PN: GP1121D

- Light duty general purpose air riveter
- Includes 4 nozzles, jaw case set and parts in blow mould case.
- Rear cap with back stop and open sides for quick pin removal
- Includes spare springs, o-rings and adjustment spanners
- NOT SUITABLE FOR STAINLESS RIVETS

Rivet Capacity: 3/32, 1/8, 5/32, 3/16"

Traction Power: 1950 lbs

Max. air pressure: 90 PSI

Weight: 1.5 Kg



Air Hydraulic Riveter 3/16"

PN: GP6302

- Medium Duty Air Hydraulic Riveter
- Interchangeable nose-pieces
- Safety cap collects spent rivets
- Swivel inlet for easier positioning
- NOT SUITABLE FOR STAINLESS RIVETS

Rivet Capacity: 3/32, 1/8, 5/32 and 3/16"

Traction Power: 1980 Ft/lbs

Max. air pressure: 90 PSI

Weight: 1.45 Kg

Avg Air Consumption: 0.04 CFM



Air Hydraulic Riveter 9/32"

PN: GP6304

- Heavy Duty Air Hydraulic Riveter
- Interchangeable nose-pieces
- Safety cap collects spent rivets
- Swivel inlet for easier positioning
- NOT SUITABLE FOR STAINLESS RIVETS

Rivet Capacity: 3/16, 1/4, 5/32 and 9/32"

Traction Power: 3120 Ft/lbs

Max. air pressure: 90 PSI

Weight: 3.4 Kg

Avg Air Consumption: 0.11 CFM

Rivet Kits

See more on Page 138

Aluminum Countersunk & Large Flange Pop Rivets

PN: HAK16

200 piece kit includes an assortment of 32-10, 48-12, 48-15, 48-18 Countersunk Rivets and 40-12, 40-15, 48-10, 48-15 Large Flange Rivets.



Fluid Delivery Tools

Air Caulking Gun

PN: GP203

- Aluminium body with two part construction
- Cartridge is encapsulated within tool



Size cartridge: 310 cc
Pressure Range: 45-90 PSI
Weight: 1.3 Kg

Air Caulking Gun

PN: GPA1352A-3

- Polymer body, metal trigger and cartridge clamps.
- Different cartridge lengths usable with 3 position clamp adjustment
- Ergonomic handle shape



Inlet: 1/4"
Size cartridge: 300 cc
Rec air pressure 15-40 PSI
Weight 0.53 kg

Air & Manual Grease Gun

PN: GP1081D

- Designed for dual use as both an air and manual grease gun.
- Comes complete with lever action manual head, 9" flexible high pressure hose fitting.
- Hexagon spout
- Bleeder valve to release pressure for cartridge change

Size cartridge: 450cc
Weight: 2.1 Kg
Inlet: 1/4"
Operating pressure: 40-90 PSI



Engine Cleaning Gun

Engine Cleaner Gun

PN: GPA1565

- 1.2 m hose with built in filter
- Ideal for cleaning cars, trucks, bikes and marine engines
- Degreaser flow controller
- Alloy & steel construction
- Siphon type, designed to connect to an external supply of degreaser

Length: 405 mm
Max. air pressure: 90 PSI



Engine Cleaner with Bowl

PN: GPA034

- Ideal for cleaning cars, trucks, bikes & boats
- Quick release bowl rotation
- Steel and alloy construction

Bowl capacity: 700 ml
Max. air pressure: 75 PSI
Dimensions: 410L x 200H x 100W mm



Rust and Paint Removers

Rotary Rust & Paint Remover Kit (Non- vacuum)

PN: GP2001A

- Air tool for Rust and Paint removal
- Versatile handle can be set at any position within it's 180° range
- Comes with 5 x 105 mm stripping wheels
- Complete in carry case
- Non vacuum design



Max. air pressure: 90 PSI
Weight: 1.55 Kg
Inlet: 1/4" NPT

Abrasives included:
0.5 mm Straight Wire Wheel (P/N: GPA2001A-1)
0.5 mm Hooked Wire Wheel (PN: GPA2001A-2)
0.7 mm Hooked Wire Wheel (P/N: GPA2001A-3)
Rubber Wheel (PN: GPA2001A-4)
Stripping Wheel (P/N: GPA2001A-5)

Stripping Wheels

See more on Page 83

GP2001A Straight Wire Wheel

PN: GPA2001A-1



GP2001A Hooked Wire Wheel

PN: GPA2001A-2



GP2001A H-Duty Hooked Wire Wheel

PN: GPA2001A-3



GP2001A 4" Rubber Wheel

PN: GPA2001A-4



GP2001A 4" Stripping Wheel

PN: GPA2001A-5



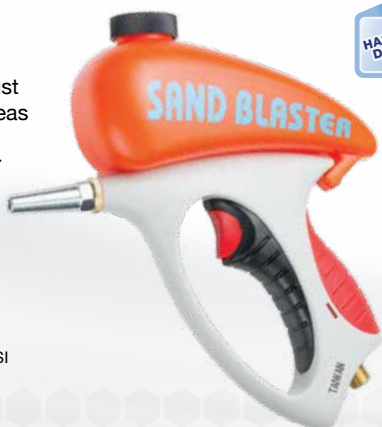
Sandblasters

Sandblaster

PN: GPASB100

- Ideal for spot and Rust Removal on small areas
- All in one design
- Top mounted hopper is perfect for abrasive feed

Capacity: 266 cc
Inlet: 1/4"
Weight: 0.4 Kg
Max. air pressure: 90 PSI



Sand Blasting Kit complete with Hose

PN: GP909

- Siphon feed
- Includes 3 extra nozzles,
hose and tube.
Inlet: 1/4" NPT
Weight: 0.9 Kg
Max. air pressure: 90 PSI



Tyre Inflators & Gauges

Compact Tyre Gauge

PN: GPATPG



- All metal Construction
- Range: 0-160 PSI.
- Metering: Analogue
- Units: PSI, KPA
- Output: Schrader valve

Analogue Pistol Grip Tyre Inflator

PN: GPA016

- Large easy to read gauge
- Integrated purge valve
- Tyre inflation valve locking lever
- Large trigger for easy operation
- Impact resistant Gauge protector
- Flexible hose for hard to get at places.

Range: 0-220 PSI
Metering: Analogue
Units: PSI, Bar, KPA
Inlet: Male 1/4" NPT
Output: Standard tyre fitting



Deluxe Analogue Tyre Inflator

PN: GPA6200

- Easy to read Analogue display
- Flexible inflation wand

Range: 0-160 PSI
Metering: Analogue
Units: PSI, KPA
Inlet: Female 1/4" NPT
Output: Standard tyre fitting



Digital Tyre Inflator

Digital Tyre Inflator

PN: GP1558-4

- Easy to read digital display
- Flexible inflating wand.
- Fast air delivery
- Rubber shroud around meter for protection
- Integrated purge valve

Range: 5-200 PSI
Air delivery: 1.28 CFM
Metering: Digital
Units: PSI, Bar, kg/CM², KPA
Inlet: Female 1/4" NPT
Voltage: 9V battery
Output: Standard tyre fitting



Tyre Chucks

Flexible Tyre Chuck

PN: GPATC2

- Tyre Chuck with Flexible Hose

Inlet: JIS standard male fitting
Output: Standard tyre fitting
Max. air pressure: 90 PSI max



Dual Tyre Chuck

PN: GPA051

Inlet: 1/4" NPT Female
Output: Standard tyre fitting
Max. air pressure: 90 PSI



Straight Dual Access Tyre Chuck

PN: GPA1570

- Features internal serrations to grip valve thread

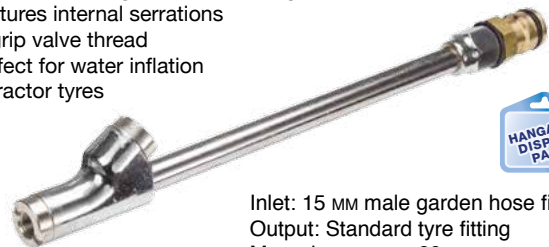
Inlet: 1/4" NPT Female
Output: Standard tyre fitting
Max. air pressure: 90 PSI



Dual Straight Tyre Water Chuck

PN: GPA1570W

- Standard 15 mm garden hose fitting
- Features internal serrations to grip valve thread
- Perfect for water inflation of tractor tyres



Inlet: 15 mm male garden hose fitting
Output: Standard tyre fitting
Max. air pressure: 90 PSI

Blow Guns

High Flow Blow Gun Kit

PN: GHF60AS

- This air gun comes with three nozzles for different applications.
- All nozzles come with side venting safety holes.
- Nozzles include a high flow, adjustable high flow and ultra-high flow.
- Comes complete with air fitting

Inlet: JIS standard male fitting
Construction: Cast aluminium body, polymer trigger and aluminium & steel nozzles



Blow Gun Kit

PN: GPA1571

- Multi function inflater kit, good for ball, air mattress and other inflation applications.
- Comes with 4 nozzles
- Inlet: 1/4" NPT Female
- Cast alloy and steel construction



Integrated Air Gun

PN: GPB90K

- A great combination for mounting on a work bench
- The short length integrated air hose is ideally suited for mounting above your bench

Polymer Blow Gun
2 m fitted hose
Polymer body duster, steel nozzle
1/4" steel insert air inlet



Blow Guns

Pocket Blow Gun

PN: PBG-N

This air duster is light weight and handy, easily fitting in your pocket. It consists of an integrated JIS standard fitting with the air flow being controlled by rotating the nozzle and integrated pocket clip.

Length: 115 MM
Inlet: Integrated JIS Fitting
Material: Aluminium



4" Rubber Tipped Blow Gun

PN: GP1562

- Rubber tip to protect metal components from scratching
- Metal inlet thread for increased strength
- Moulded in hook to hang the tool

Length: 110 MM
Inlet: 1/4" metal insert
Material: POM/Steel

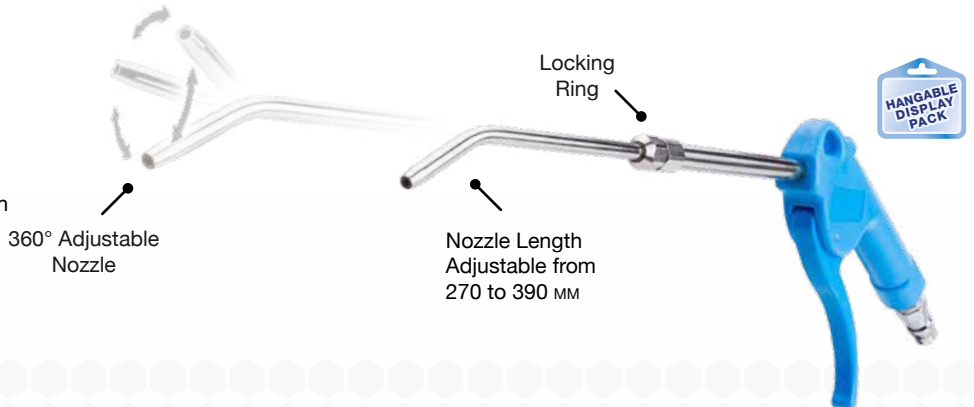


Extendable Blow Gun

PN: GP1562E

- Adjustable length and nozzle angle. The extension section can be rotated 360° and then locked into position with the locking ring.
- Metal inlet thread for increased strength
- Moulded in hook to hang the tool

Length: 270 to 390 MM
Inlet: 1/4"
Material: POM/Steel



Wonder Gun

PN: GPA0201

- An air gun with both blow and suck functions.
- A Venturi in the core of the duster creates enormous through gun air flow.
- The Venturi can be manually reversed to convert from blow to suck function.
- Light weight metal body

Wonder Gun
Inlet: 1/4" NPT
Cast alloy body with steel trigger
Max. air pressure: 90 PSI



Wonder Gun Kit with Hose & Bag in Blow-mould Case

PN: GPA0206KB

- The kit includes flat and small bore tubes, brush attachments, dust bag and a 12" flexible extension hose. Vacuums and Blows sawdust, sand, iron chips
- A Venturi in the core of the duster creates enormous through gun air flow. The Venturi can be manually reversed to convert from blow to suck function.
- Zipper along the end of the dust bag for easy emptying.
- Kit comes in Blow-mould Case.

Inlet: 1/4" NPT Female
Max. air pressure: 90 PSI



3/8" Drive Impact Wrenches

3/8" Butterfly Impact

PN: BIK107A1

- Forward and reverse lever top mounted for single handed operation
- Swivel inlet for better hose control
- Integrated regulator
- Rear exhaust away from work



Anvil: 3/8" Sq
Weight: 0.81 Kg
Dimensions: 150 x 89 x 47 MM
Max Torque: 70 Ft-lbs (102 Nm)
Free speed: 11,000 RPM

Avg. air cons: 2.2 CFM
Max. air pressure: 6.3 bar (90 PSI)
Noise level: 97.5 dBA (108.5 dB power)
Vibration: 4.61 M/S²

3/8" Impact Wrench

PN: BIP114A1

- Great power to weight ratio
- Moulded rubber grip for vibration and fatigue reduction
- Three air regulator stops in forward, full power in reverse
- Compact pistol grip 3/8" Impact wrench
- Exhaust air vents through bottom of handle away from the work
- Swivel inlet for better control of airline hose



Anvil: 3/8" Sq
Weight: 1.4 Kg
Dimensions: 155 x 187 x 52 MM
Max Torque: 190 Ft-lbs (250 Nm)
Free Speed: 10,000 RPM
Avg Air Consumption: 2.5 CFM
Noise level: 101.5 dBA (112.5 dB power)
Vibration: 2.15 M/S²

1/2" Drive Impact Wrenches

1/2" Impact Wrench

PN: BIT242

- Reliable, powerful, comfortable
- Moulded rubber grip for vibration and fatigue reduction
- Three air regulator stops in forward, full power in reverse
- Exhaust through bottom of handle away from the work



Anvil: 1/2" Sq
Weight: 2.5 Kg
Dimensions: 197 x 73 x 194 MM
Free Speed: 7,500 RPM
Max Torque: 500 Ft/lbs (670 Nm)
Avg Air Cons.: 4.5 CFM
Max. air pressure: 6.3 bar (90 PSI)
Noise level: 94.1 dBA (105.1 dB power)
Vibration: 8.29 M/S²

1/2" Impact Wrench with 2" Extended Anvil

PN: BIT242-2

- Reliable, powerful, comfortable
- Moulded rubber grip for vibration and fatigue reduction
- Three air regulator stops in forward, full power in reverse
- Exhaust through bottom of handle away from the work



Anvil: 1/2" Sq 2" long
Weight: 2.68 Kg
Dimensions: 249 x 7206 x 194 MM
Max Torque: 500 Ft/lbs
Free Speed: 7,500 RPM
Avg Air Cons.: 4.5 CFM
Max. air pressure: 6.3 bar (90 PSI)
Noise level: 94.1 dBA (105.1 dB power)
Vibration: 8.29 M/S²

1/2" Drive Impact Wrench

1/2" Twin Hammer Impact Wrench

PN: BIT260M1

- A high power impact wrench for heavy automotive and truck applications.
- Good for applications where extra power is needed, such as shock, spring and tyre changing work.
- Forward and reverse buttons
- 4 speed air regulator
- Exhausts through the handle away from the work

Anvil: 1/2" Sq

Weight: 1.98 Kg

Dimensions: 185 x 69 x 186 MM

Free Speed: 8,000 RPM

Max Torque: 685 Ft/lbs (928 Nm)

Avg Air Cons.: 4.9 CFM

Max. air pressure: 6.3 bar (90 PSI)

Noise level: 98 dBa (109 dB power)

Vibration: 9.8 M/S²



3/4" Drive Impact Wrenches

3/4" Twin Hammer Impact Wrench

PN: BIT3110

- Extreme power to weight ratio
- High power for demanding applications
- Great for truck shops and heavy automotive applications
- Twin hammer for smooth power delivery
- Exhausts through handle away from work.

Anvil: 3/4" Sq

Weight: 5.7 Kg

Dimensions: 228 x 97 x 240 MM

Free Speed: 5,500 RPM

Max Torque: 1100 Ft/lbs (1490 Nm)

Avg Air Cons.: 7.2 CFM

Max. air pressure: 6.3 bar (90 PSI)

Noise level: 97.9 dBa (108.9 dB power)

Vibration: 12.22 M/S²



3/4" Twin Hammer Impact Wrench with 6" Extended Anvil

PN: BIT3110-6

- Extreme power to weight ratio
- High power for demanding applications
- 6" Extended anvil
- Great for truck shops and heavy automotive applications
- Twin hammer for smooth power delivery
- Exhausts through handle away from work.

Anvil: 3/4" Sq

Weight: 6.57 Kg

Dimensions: 385 x 97 x 240 MM

Free Speed: 5,500 RPM

Max Torque: 1100 Ft/lbs (1490 Nm)

Avg Air Cons.: 7.2 CFM

Max. air pressure: 6.3 bar (90 PSI)

Noise level: 97.9 dBa (108.9 dB power)

Vibration: 12.22 M/S²



Ratchet Wrenches

3/8" Mini Ratchet Wrench

PN: BRP103B1

- Ideal for installation and repair of exhaust systems, radiators, water pumps, fuel pumps, transmissions, under-dashboard work, small engine repair, all small fasteners, etc.
- Advanced & durable head design provides considerably longer life.
- An optimized gear ratio and airflow for extra performance.
- Compact and light weight, ideal for confined working conditions.
- Fast run-down to speed-up tightening operation.
- Easy speed control throughout range.

Anvil: 3/8" Sq
Max Torque: 30 Ft/lbs
Free speed: 280 RPM
Dimensions: 186 x 50 x 30 MM
Weight: 0.74 Kg

Av. air Cons.: 2.4 CFM
Max. air pressure: 6.3 bar (90 PSI)
Noise level: 85.1 dBA (96.1 dB power)
Vibration: 4.31 M/S²



3/8" Extended Ratchet Wrench

PN: BRP103LC1

- The unique extended reach of this tool is ideal for hard to reach small fasteners found in modern engine bays.
- An optimized gear ratio and airflow for extra performance.
- Fast run-down to speed-up tightening operation.
- Easy speed control throughout range.
- Ideal for installation and repair of hard to reach, water pumps, fuel pumps, transmissions, all small fasteners
- Advanced & durable head design provides considerably longer life.

Anvil: 3/8" Sq
Max Torque: 30 Ft/lbs
Free speed: 220 RPM
Dimensions: 389 x 35 x 53 MM
Weight: 1.0 Kg

Av. air Cons: 3.19 CFM
Max. air pressure: 6.3 bar (90 PSI)
Noise level: 85.4 dBA (96.4 dB power)
Vibration: 1.06 M/S²



Ratchet Wrenches

3/8" Sq Anvil PN: BRP107B1

1/2" Sq Anvil PN: BRP207B1

- An optimized gear ratio and airflow for extra performance.
- Advanced & durable dovetail head design provides considerably longer life.
- Fast run-down to speed-up tightening operation.
- Soft grip provides superior comfort and non-slip feel for operator.
- Easy speed control throughout range.

Max Torque: 70 Ft/lbs
Free speed: 160 RPM
Dimensions: 308 x 45 x 40 MM
Weight: 1.3 Kg
Av. air Cons: 2.52 CFM
Max. air pressure: 6.3 bar (90 PSI)
Noise level: 91.6 dBA (102.6 dB power)
Vibration: 4.31 M/S²



Orbital Sanders

6" Random Orbital Dust Free Sander - 2.5 MM Orbit

PN: BOS136SA1

- Self generated dust extraction sander
- Durable composite design
- Built-in power regulator for optimized power control
- Well balanced for smooth single hand control
- Suitable for body shops, bumper work, wooden furniture and final finish sanding
- An extremely well designed durable tool
- 6 whole velcro pad

Disc Size: 6"
Orbit Diameter: 2.5 MM
Free Speed: 12,000 RPM
Spindle Size: 5/16 x 24 UNF
Weight: 0.934 Kg
Avg Air Cons.: 2.43 CFM
Dimensions: 216 x 122 x 108 MM
Max. air pressure: 6.3 bar (90 PSI)
Noise level: 88.8 dBA (99.8 dB power)
Vibration: 2.16 M/S²



6" Random Orbital Dust Free Sander - 5 MM Orbit

PN: BOS156SA1

- Self generated dust extraction sander
- Durable composite design
- Built-in power regulator for optimized power control
- Well balanced for smooth single hand control
- Suitable for body shops, bumper work, wooden furniture and final finish sanding
- An extremely well designed durable tool

Disc Size: 6"
Orbit Diameter: 5 MM
Free Speed: 12,000 RPM
Spindle Size: 5/16 x 24 UNF
Weight: 0.9 Kg
Avg Air Cons.: 2.0 CFM
Dimensions: 230 x 148 x 106 MM
Max. air pressure: 6.3 bar (90 PSI)
Noise level: 86.7 dBA (97.7 dB power)
Vibration: 3.57 M/S²



6" Random Orbital Sander

PN: BOS156A1

- Durable composite design
- Built-in power regulator for optimized power control
- Well balanced for smooth single hand control
- Suitable for body shops, bumper work, wooden furniture and final finish sanding
- An extremely well designed durable tool



Disc Size: 6"
Orbit Diameter: 5 MM
Free Speed: 12,000 RPM
Spindle Size: 5/16 x 24 UNF
Weight: 0.9 Kg
Avg Air Cons.: 2.0 CFM

Dimensions: 230 x 148 x 106 MM
Max. air pressure: 6.3 bar (90 PSI)
Noise level: 86.7 dBA (97.7 dB power)
Vibration: 3.57 M/S²

Backing Pads

See more on Page 82

6" Velcro Externally Threaded Pad

PN: F6505

Disc Dia.: 127 MM
Pad Thickness: 10 MM
Max Speed: 12,000 RPM



Geared Sanders

8" Geared Central Vac Sander (non self generating)

PN: BOS258GRCD1

- Gear driven sander
- Unique epicyclical sanding action for the aggressive removal of material
- Excellent comfort and control with a long handle for two hand control
- Inbuilt safety on trigger
- Built in power regulator for optimal power control
- Rear handle exhaust directs exhaust air away from work
- Central vacuum connection
- Replacement Pad PN: 122402200081

Disc Size: 8"
Orbit Diameter: 4.76 MM
Free Speed - 900 RPM
Pad mount: 5 hole bolt on
Weight: 2.05 Kg
Avg Air Cons: 3.3 CFM
Dimensions: 317 x 220 x 140 MM
Max. air pressure:
6.3 bar (90 PSI)
Noise level: 85 dBA (96 dB power)
Vibration: 6.3 M/S²



8" Geared Sander

PN: BOS258GRD1

- Gear driven sander
- Unique epicyclical sanding action for the aggressive removal of material
- Excellent comfort and control with a long handle for two hand control
- Inbuilt safety on trigger
- Built in power regulator for optimal power control
- Rear handle exhaust directs exhaust air away from work
- Replacement Pad PN: 1224702200071

Disc Size: 8"
Orbit Diameter: 4.76 MM
Free Speed - 900 RPM
Pad mount: 5 hole bolt on
Weight: 1.88 Kg
Avg Air Cons: 3.3 CFM
Dimensions: 317 x 198 x 140 MM
Max. air pressure:
6.3 bar (90 PSI)
Noise level: 85 dBA (96 dB power)
Vibration: 6.3 M/S²



Disc Grinders

3" Cut Off Tool

PN: BCTA1

- Compact abrasive cutting tool.
- Perfect for cutting thin wall metal in confined spaces
- Great for exhaust pipe removal
- Spare discs available see PN: CO007K on page 89

Disc Size: 3"
Free Speed: 21,000 RPM
Dimensions: 188 x 50 x 105 MM
Weight: 0.8 kg
Max. air pressure: 6.3 bar (90 PSI)
Avg Air Consumption CFM (l/min): 3 (85)
Max. air pressure: 90 PSI
Noise level: 85.2 dBA (96.2 dB power)
Vibration: 2.88 M/S²



Grinding Disc Not Included.

2" Angle Grinder

PN: BG222RA1

- Ideal for high speed grinding in confined spaces.
- Streamlined ergonomically designed composite housing provides reduced vibration and added control.
- Ductile iron cylinder for high strength and long life.
- Safety throttle lever to prevent accidental start ups.
- Rear exhaust directs air away from the workpieces.

Disc Size: 2"
Free Speed: 15,000 RPM
Dimension: 178 x 65 x 70 MM
Output: 0.45 hp
Weight: 0.8 Kg
Max. air pressure: 6.3 bar (90 PSI)
Avg. air consumption: CFM (l/min): 3 (85)
Noise Level 83.8 dBA (94.8 dB power)
Vibration: 2.72 M/S²



Die Grinders

1/4" Medium Die Grinder

PN: BG210R

- Ideal for general high speed polishing and grinding.
- Streamlined ergonomically designed composite housing provides reduced vibration and added control.
- Ductile iron cylinder for high strength and long life.
- Safety throttle lever to prevent accidental start ups.
- Rear exhaust directs air away from the workpieces.
- 1/8", 3 MM & 6 MM collets available



Collet Size: 1/4"
Free Speed: 20,000 RPM
Dimension: 165 x 42 x 56 MM
Output: 0.44hp
Weight: 0.55 Kg
Max. air pressure: 6.3 bar (90 PSI)
Avg. air consumption cfm(l/min): 4(113)
Noise level: 86.3 dBA (97.3 dB power)
Vibration: 3.15 M/S²

1/4" Extended Die Grinder

PN: BG215RA1

- Ideal for general high speed polishing and grinding.
- Streamlined ergonomically designed composite housing provides reduced vibration and added control.
- Ductile iron cylinder for high strength and long life.
- Safety throttle lever to prevent accidental start ups.
- Rear exhaust directs air away from the workpieces.
- 1/8", 3 MM & 6 MM collets available
- 5" extended shaft



Collet Size: 1/4"
Free Speed: 20,000 RPM
Dimension: 165 x 42 x 56 MM
Output: 0.45hp
Weight: 0.8 Kg
Max. air pressure: 6.3 bar (90 PSI)
Avg. air consumption cfm(l/min): 3(85)
Noise level: 84.4 dBA (95.4 dB power)
Vibration: 2.17 M/S²

1/4" Right Angle Die Grinder

PN: BG220RA1

- Ideal for general high speed polishing and grinding.
- Streamlined ergonomically designed composite housing provides reduced vibration and added control.
- Ductile iron cylinder for high strength and long life.
- Safety throttle lever to prevent accidental start ups.
- Rear exhaust directs air away from the workpieces.
- 1/8", 3 MM & 6 MM collets available



Collet Size: 1/4"
Free Speed: 18,000 RPM
Dimension: 183 x 78 x 44 MM
Output: 0.45 hp
Weight: 0.8 Kg
Max. air pressure: 6.3 bar (90 PSI)
Avg. air consumption cfm(l/min): 3(85)
Noise level: 84.1 dBA (95.1 dB power)
Vibration: 2.62 M/S²

1/4" 115° Angle Die Grinder

PN: BG230RA1

- Ideal for general high speed polishing and grinding.
- Streamlined ergonomically designed composite housing provides reduced vibration and added control.
- Ductile iron cylinder for high strength and long life.
- Safety throttle lever to prevent accidental start ups.
- Rear exhaust directs air away from the workpieces.
- 1/8", 3 MM & 6 MM collets available



Collet Size: 1/4"
Free Speed: 18,000 RPM
Dimension: 202 x 78 x 56 MM
Output: 0.45 hp
Weight: 0.75 Kg
Max. air pressure: 6.3 bar (90 PSI)
Avg. air consumption cfm(l/min): 3(85)
Noise level: 83.4 dBA (94.4 dB power)
Vibration: 2.94 M/S²

Metal Shears & Nibblers

Air Metal Shear

PN: BMSA1

- Straight style cutting shear
- Pivoting central cutting blade
- Safety lever on trigger
- Swivel air hose inlet / rear exhaust
- Dimpled soft non-slip body grip for better tool control
- Double bearing spindle for minimal vibration and superb concentricity
- Speed regulator for precise power control

Cutting Capacity: 1.2 MM Mild Steel

Dimensions: 240 x 50 x 70 MM

Avg air consumption: 3 CFM

Weight: 1.05 Kg

Max free speed: 2600 RPM

Max. air pressure: 6.3 bar (90 PSI)

Noise level: 88.1 dBA (99.1 dB power)

Vibration: 1.85 M/S²



Air Nibbler

PN: BNBA1

- Fine nose but robust air nibbler for accurate work
- Safety lever on trigger
- Swivel air hose inlet / rear exhaust
- Dimpled soft non-slip body grip for better tool control
- Double bearing spindle for minimal vibration and superb concentricity
- Speed regulator for precise power control

Cutting Capacity: 1.2 MM Mild Steel

Dimensions: 240 x 50 x 70 MM

Avg air consumption: 3 CFM

Weight: 1.05 Kg

Max free speed: 2600 RPM

Max. air pressure: 6.3 bar (90 PSI)

Noise level: 88.1 dBA (99.1 dB power)

Vibration: 1.85 M/S²



Air Hammers

Air Hammer Kit in Blow-Mould Case

PN: BHA67A1

- Air Hammer Kit includes: 5 chisels and quick change spring retainer
- Integrated piston cushion design for lower vibration and less fatigue
- T handle design for better tool balance
- One piece moulded grip for vibration reduction and better grip
- Handle exhaust and swivel inlet

Chisel shank: 10.2 MM

Weight: 1.73 Kg

Blows per minute: 2900 BPM

Max. air pressure: 6.2 bar (90 PSI)

Air consumption: 2.73 CFM

Noise level: 96.3 dBA (107.3 dB power)

Vibration: 4.84 M/S²

Impact Rate: 2,900 bpm



C Series Bradders

Heavy Duty C Brad Nailer

PN: B1650B1

- Designed for maximum punch
- Suited for the hardest of old hardwoods, melamine and materials with hard surfaces
- Single fire - bump fire trigger switch
- Fastener sight gauge
- Quick release magazine catch
- Quick release nose cover
- Rubber tip on safety

Nail Shank: 1.4 x 1.6 MM (16 Gauge)
 Fastener Length: 19-50 MM
 Fastener Capacity: 100 brads
 Dimensions: 280 x 78 x 278 MM
 Weight: 1.9 Kg
 Max. air pressure: 5-8 bar (70-120 PSI)
 Air consumption per drive: 0.935 L/Sec at 7 bar
 Noise level: 89.8 dBA (102.8 dB power)
 Vibration: 2.53 M/S²



Medium Duty C Brad Nailer

PN: B1650LA1

- A compact design
- Suited for all medium density timbers and some hardwoods
- Depth adjustment
- Swivel exhaust
- Fastener sight gauge
- Quick release magazine catch
- Quick release nose cover
- Rubber tip on safety

Nail Shank: 1.4 x 1.6 MM (16 gauge)
 Fastener Length: 19-50 MM
 Fastener Capacity: 100 brads
 Dimensions: 300 x 60 x 256 MM
 Weight: 1.54 Kg
 Max. air pressure: 5-8 bar (70-120 PSI)
 Air consumption per drive: 0.6 L/Sec at 7 bar
 Noise level: 86 dBA (99 dB power)
 Vibration: 2.5 M/S²



C1 Series Bradders

C1 Series 32 MM Bradder

PN: B1832PA2

- Compact yet powerful C1 series bradder
- Suited to medium density timbers and some hardwoods
- Swivel exhaust
- Fastener sight gauge entire length of magazine
- Quick release magazine catch
- Quick release nose cover

Nail Shank: 1 x 1.25 MM (18 Gauge)
 Fastener Length: 10-32 MM
 Fastener Capacity: 100 brads
 Dimensions: 235 x 49 x 189 MM
 Weight: 0.68 Kg
 Max. air pressure: 4-7 bar (60-100 PSI)
 Air consumption per drive: 0.55 L/Sec at 7 bar
 Noise level: 86 dBA (99 dB power)
 Vibration: 2.8 M/S²



C1 Series 50 MM Bradder

PN: B1850A1

- High powered C1 series bradder
- Suited for application where more punch is needed
- Swivel exhaust
- Fastener sight gauge
- Quick release magazine catch
- Quick release nose cover
- Rubber tip on safety

Nail Shank: 1 x 1.25 MM (18 Gauge)
 Fastener Length: 15-50 MM
 Fastener Capacity: 100 brads
 Dimensions: 263 x 60 x 256 MM
 Weight: 1.25 Kg
 Max. air pressure: 5-8 bar (70-120 PSI)
 Air consumption per drive: 0.6 L/Sec at 7 bar
 Noise level: 86 dBA (99 dB power)
 Vibration: 2.5 M/S²



Angle Nailers

90° Angle Framing Gun

PN: BA3490F1

- Framing gun for heavy duty applications
- Framing, sub floors, roofing, sheathing, pallets, boxes and crates
- Easy to use Depth Adjuster
- Adjustable Joist Hanger
- Protective cover on safety
- Streamlined Trigger Design with switchable single and bump fire
- Swivel exhaust

Nail Shank: 2.9 - 3.3 MM
Fastener Length: 50-90 MM
Angle: 34°
Fastener Capacity: 90 nails
Dimensions: 480 x 121 x 340 MM
Weight: 3.50 Kg
Max. air pressure: 5-8 bar (70-120 PSI)
Air consumption per drive: 3.87 Ltr
Noise level: 90.3 dBA (103.3 dB power)
Vibration: 4.28 M/S²



34° DA Nailer

PN: BA3464A1

- Finish angle nailer for light framing, cornice work, sub floors and general fastener work.
- Swivel exhaust
- Depth adjustment with safety
- Contact actuation with rubber nose
- Quick release magazine catch
- Quick release nose cover
- Angled air hose inlet for easier use

Nail Shank: 1.8 MM (15 gauge)
Fastener Length: 25-64 MM
Angle: 34°
Fastener Capacity: 100
Dimensions: 349 x 85 x 314 MM
Weight: 1.95 Kg
Max. air pressure: 5-8 bar (70-120 PSI)
Air consumption per drive: 2.76 CFM per operation @ 7 bar
Noise level: 81.7 dBA (94.7 dB power)
Vibration: 2.63 M/S²



Countersink & Nail Removers

Countersink & nail remover

PN: BPULLER

- Ideal for flooring and the removal of countersunk nails.
- Insert the exposed sharp end of the fastener into the nose, bend the nail to an appropriate position and fire.

Pin Dia.: 4.8 MM
Nail Dia.: 2-4 MM
Dimensions: 242 x 56 x 235 MM
Weight: 0.80 Kg
Max. air pressure: 5-8 bar (70-120 PSI)
Air consumption per drive: 0.52 Ltr @ 7 bar
Noise level: 86.6 dBA (99.6 dB power)
Vibration: 1.62 M/S²



Nail Gun Oil

See more on Page 49

250 ml Basso Nail Gun Oil

250 ml PN: BO250

Basso Premium Nail Gun Oil is formulated to prolong the performance of your Basso nail gun in both warm and cold climates. Adding only a couple of drops daily to the air inlet will greatly reduce internal wear and maintain the integrity of the gaskets and seals of Basso nail guns.



Coil Nailers

Heavy Duty 15° Coil Nailer

PN: BC2865D1

- Takes both wire and plastic collation
- Ideal for framing, shearing, decking, sub flooring, exterior decks, pallets, crates and wall framing
- Adjustable trigger for single and bump fire
- Swivel exhaust
- Depth adjustment with rubber nose on safety
- Coil cradle adjustment for different fastener lengths
- Clear protective cover around nose
- Quick release catch on fastener door cover
- Inbuilt hanger

Nail Shank: 2.1 - 2.8 MM
Fastener Length: 32-65 MM
Angle: 15 Degrees
Capacity: 200 - 400 nails
Dimensions: 268 x 128 x 30 MM
Weight: 2.05 Kg
Max. air pressure: 5-8 bar (70-120 PSI)
Air consumption per drive: 1.87 Ltr @ 7 bar
Noise level: 81.3 dBA (94.3 dB power)
Vibration: 2.52 M/S²



Heavy Duty 0° Coil Nailer

PN: BC2865F1

- Takes both wire and plastic collation
- Ideal for framing, shearing, decking, sub flooring, exterior decks, pallets, crates and wall framing
- Adjustable trigger for single and bump fire
- Swivel exhaust
- Depth adjustment with rubber nose on safety
- Quick release catch on fastener door cover
- Inbuilt hanger

Nail Shank: 2.03-2.8 MM
Fastener Length: 32-65 MM
Angle: Flat 0 Degrees
Capacity: 200-400 nails
Size: 300 x 146 x 320 MM
Weight: 2.3 Kg
Max. air pressure: 5-8 bar (70-120 PSI)
Air consumption per drive: 1.76 Ltr @ 7 bar
Noise level: 85.3 dBA (98.3 dB power)
Vibration: 2.99 M/S²



T-Nailers

2.5 MM T-Nailer

PN: BT2564A1

- High powered T nailer with a rugged alloy body
- Ideal for Door/Window casings, furniture frames, wooden cabinets and light construction
- Quick release magazine catch
- Single/bump fire trigger switch
- Swivel exhaust

Nail Shank: 2.5 MM
Fastener Length: 18-64 MM
Fastener Capacity: 80 nails
Dimensions: 318 x 91.5 x 293 MM
Weight: 2.55 Kg
Max. air pressure: 5-8 bar (70-120 PSI)
Air consumption per drive: 2.73ltr/operation @ 7 bar
Noise level: 87.5 dBA (100.5 dB power)
Vibration: 4.84 M/S²



2.2 MM T-Nailer

PN: BT2264A1

- High powered T nailer with a rugged alloy body
- Ideal for Door/Window casings, furniture frames, wooden cabinets and light construction
- Quick release magazine catch
- Single/bump fire trigger switch
- Swivel exhaust

Nail Shank: 2.2 MM
Fastener Length: 18-64 MM
Fastener Capacity: 80 nails
Dimensions: 318 x 91.5 x 293 MM
Weight: 2.55 Kg
Max. air pressure: 5-8 Bar (70-120 PSI)
Air consumption per drive: 2.73 Ltr/operation @ 7 bar
Noise level: 87.5 dBA (100.5 dB power)
Vibration: 4.84 M/S²



Staplers

80 Series Stapler

PN: BN8016E

- Our best selling staple gun
- Ideal for upholstery work, fabric and general attachment,
- Rugged alloy body for reliability
- Quick release magazine catch
- Trigger "no fire" safety latch
- Defused front exhaust

Staple Crown: 12.8 MM (80 Series)
 Staple Length: 6-16 MM
 Fastener Capacity: 100 staples
 Dimensions: 220 x 42 x 146 MM
 Weight: 0.905 m/kg
 Max. air pressure: 4-7 bar (60-100 PSI)
 Air consumption per drive: 0.34L/Sec at 7 bar
 Noise level: 86.2 dBa (99.2 dB power)
 Vibration: 1.07 m/s²



80 Series Stapler -long nose

PN: BS8016B1

- Long nose 80 series stapler
- Ideal for recessed fastener upholstery applications
- Suitable for fine woodworking
- Rugged alloy body for reliability
- Quick release magazine catch
- Trigger "no fire" safety latch
- Rear exhaust

Staple Crown: 12.8 MM (80 Series)
 Staple Length: 6-16 MM
 Fastener Capacity: 100 staples
 Dimensions: 223 x 43 x 156 MM
 Weight: 0.708 m/kg
 Max. air pressure: 4-7 bar (60-100 PSI)
 Air consumption per drive: 0.34L/Sec at 7 bar
 Noise level: 77 dBa (90 dB power)
 Vibration: 2.1 m/s²



6000/L Series Stapler Compact

PN: BS9025PA2

- Compact staple gun
- Light weight polymer body
- Ideal for space restricted applications and light duty furniture/box manufacturing, upholstery and other woodworking applications
- Single/sequential fire with safety activation
- Swivel exhaust
- Quick release magazine catch

Staple Crown: 5.8 MM (6,000/L Series)
 Staple Length: 13-25 MM
 Fastener Capacity: 100 staples
 Dimensions: 244 x 49.7 x 194 MM
 Weight: 0.66 m/kg
 Max. air pressure: 4-7 bar (60-100 PSI)
 Air consumption per drive: 0.61L/Sec at 7 bar
 Noise level: 87.15 dBa (100.15 dB power)
 Vibration: 2.26 m/s²



97 Series Stapler

PN: BS9725B1

- A staple gun for when fine fasteners are needed
- Upholstery and other wood work applications
- Rugged alloy body for reliability
- Quick release magazine catch
- Constant actuation trigger with safety on nose
- Rear exhaust with swivel outlet

Staple Crown: 4.5 MM (97 Series)
 Staple Length: 10-25 MM
 Fastener Capacity: 142 staples
 Dimensions: 248 x 55 x 178 MM
 Weight: 1.2 m/kg
 Max. air pressure: 5-8 bar (70-120 PSI)
 Air consumption per drive: 0.485L/Sec at 7 bar
 Noise level: 86.3 dBa (99.3 dB power)
 Vibration: 1.34 m/s²



Staplers

6000/L Series Stapler Medium Duty

PN: BS9040LA1

- A good all round stapler.
- Light framing, furniture upholstery, packaging and trim.
- Depth adjustment with safety
- Quick action nose cover release
- Single fire trigger with contact actuation
- Swivel front exhaust
- Rubberised safety tip

Staple Crown: 5.8 MM (6,000/L Series)
 Staple Length: 13-40 MM
 Fastener Capacity: 100 staples
 Dimensions: 266 x 60 x 253 MM
 Weight: 1.18 m/kg
 Max. air pressure: 5-8 bar (70-120 PSI)
 Air consumption per drive: 0.6L/Sec at 7 bar
 Noise level: 78.9 dBa (91.9 dB power)
 Vibration: 2.28 M/S²



6000/L Series Stapler Heavy Duty

PN: B9040A1

- Our most powerful staple gun
- Ideal for moulding, cabinet making, doors/windows, oak timber
- Alloy body for rugged durability
- Swivel exhaust
- Single / bump fire trigger switch
- Quick release magazine catch
- Quick release nose cover
- Rubber tip on safety

Staple Crown: 5.8 MM (6,000/L Series)
 Staple Length: 13-40 MM
 Fastener Capacity: 160 staples
 Dimensions: 310 x 78 x 274 MM
 Weight: 1.7 m/kg
 Max. air pressure: 5-8 bar (70-120 PSI)
 Air consumption per drive: 0.925 L/Sec at 7 bar
 Noise level: 89.9 dBa (102.2 dB power)
 Vibration: 2.53 M/S²



15.5 Gauge Floor Stapler

PN: BFS15550-A3

- Depth adjustable non-marring base for 1/2" & 3/4" wood.
- Ergonomic long reach handle for easier and more comfortable operation.
- Safety trigger to prevent accidental operation.
- Specially treated driver for a longer life.
- High capacity, easy to load magazine.
- Includes Mallet

Staple Crown: 1/2" (15.5 Gauge)
 Staple Length: 25-50 MM
 Capacity: 102 Staples
 Height: 545 MM
 Weight: 4.6 Kg
 Max. air pressure: 5-8 bar (70-120 PSI)



Nail Gun Oil

Basso Premium Nail gun Oil is formulated to prolong the performance of your Basso nail gun in both warm and cold climates. Adding only a couple of drops daily to the air inlet will greatly reduce internal wear and maintain the integrity of the gaskets and seals.

250 ml Basso Nail Gun Oil

250 ml PN: BO250



1 Litre Basso Nail Gun Oil

1 Litre PN: BO1000



1/2" Impact Wrenches

Compact 1/2" Impact Wrench

PN: KP1469

- 3 power settings in forward
- Full power in reverse up to 500 Ft/lbs with a 10,000 RPM free speed.
- Reduced head length of 120 mm provides easy access in limited working spaces.
- Rubber hand grip
- Through handle exhaust
- Hanging ring on the top of the tool



Anvil: 1/2" Sq
Free Speed: 10,000 RPM
Max. Torque: 500 Ft/lbs
Length: 120 mm
Air Inlet: 1/4" NPT
Air Hose: 3/8"
Avg. air Cons.: 4.7 CFM
Sound level:
98 dBa (109 dB power)
Vibration: 8.37 m/s²
Weight: 1.55 Kg

1/2" Super Duty Impact Wrench

PN: KP1488

- Rear exhaust direction with muffler Excellent power to weight ratio
- Three position power setting forward and reverse
- Handle Exhaust with Muffler.
- Hole through anvil for socket attachment

Anvil: 1/2" Sq
Free Speed: 9,500 RPM
Max Torque: 1,000 Ft/lbs
Length 190 mm
Air Inlet: 1/4" NPT
Air Hose: 3/8"
Avg. air Cons.: 7.3 CFM
Weight 2.30 Kg



**IMPRESSIVE
1000 Ft/lbs
OF TORQUE**

1/2" Super Duty Angle Impact Wrench

PN: KP1475

- 2 power settings in forward
- Full power in reverse torque
- 180 Ft/lbs with 7,000 RPM free speed.
- Head height of under 2" and reaction-less torque allow safer use in confined spaces.
- Fast rundown for added productivity
- Comfortable TPR grip.
- Rotary forward and reverse sleeve in the centre of the tool

Anvil: 1/2" Sq
Free Speed: 7,000 RPM
Max. Torque: 180 Ft/lbs
Length: 341 mm
Air Inlet: 1/4" NPT
Air Hose: 3/8"
Avg. air Cons.: 5.0 CFM
Sound Level: 97 dBa (108 dB power)
Weight: 1.80 Kg



3/4" Impact Wrenches

3/4" Heavy Duty Impact Wrench

PN: KP1023

- The work horse 3/4" Impact wrench
- Rotary switch with 3 forward power settings and full power in reverse
- Rubber grip and exhaust through handle
- Strong and reliable with great power to weight ratio

Anvil: 3/4" Sq
Free Speed: 6,500 RPM
Max. Torque: 800 Ft/lbs
Length: 234 MM
Air Inlet: 1/4" NPT
Air Hose: 3/8"
Average air Consumption: 7 CFM
Sound Level: 97 dBA (108 dB power)
Vibration: 11/5 M/S²
Weight: 4.48 Kg



3/4" Heavy Duty Impact Wrench 6" Extended anvil

PN: KP1023-6

- The work horse 3/4" Impact wrench
- Rotary switch with 3 forward power settings and full power in reverse
- Rubber grip and exhaust through handle
- Strong and reliable with great power to weight ratio
- 6" Extension anvil for deep socket applications

Anvil: 3/4" Sq (6" Extension)
Free Speed: 6,500 RPM
Max. Torque: 750 Ft/lbs
Length: 346 MM
Air Inlet: 1/4" NPT
Air Hose: 3/8"
Average air Consumption: 7 CFM
Sound Level: 97 dBA (108 dB power)
Vibration: 11/5 M/S²
Weight: 4.9 Kg



3/4" Super Duty Impact Wrench

PN: KP1030

- Our most powerful Kuani 3/4" Impact
- Tried and tested for great life expectancy and reliability
- 6 position power setting
- Rubber hand grip
- Through handle exhaust

Anvil: 3/4" Sq
Free Speed: 5,500 RPM
Max. Torque: 1,100 Ft/lbs
Length: 220 MM
Air Inlet: 3/8" NPT
Air hose: 1/2"
Average air consumption: 9.5 CFM
Sound level: 98.35 dBA (109.35 dB power)
Vibration: 9.13 M/S²
Weight: 6.1 Kg

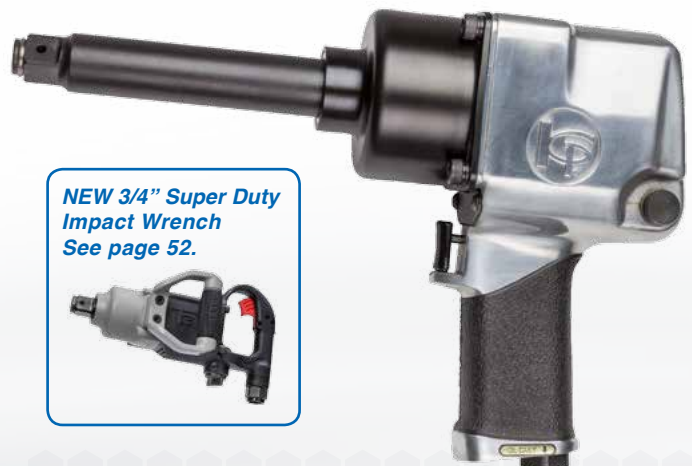


3/4" Super Duty Impact Wrench 6" Extended Anvil

PN: KP1030-6

- Our most powerful Kuani Extended 3/4" Impact
- Tried and tested for great life expectancy and reliability
- 6 position power setting
- Rubber hand grip
- Through handle exhaust
- 6" Extension for deep socket applications

Anvil: 3/4" Sq (6" Extension)
Free Speed: 5,500 RPM
Max. Torque: 1,050 Ft/lbs
Length: 348 MM
Air Inlet: 3/8" NPT
Air hose: 1/2"
Average air consumption: 9.5 CFM
Sound level: 98.35 dBA (109.35 dB power)
Vibration: 9.13 M/S²
Weight: 6.85 Kg



**NEW 3/4" Super Duty
Impact Wrench**
See page 52.



1" Impact Wrenches

1" Super Duty Impact Wrench

PN: KP1838A-P

- Excellent power to weight ratio
- Good choice for spring work, tractor pads, bus maintenance, OTR vehicle
- Pistol grip with rubber grip side handle
- Three position power setting forward and reverse
- Handle Exhaust With Muffler.
- Hole through anvil for socket attachment



Anvil: 1" Sq
Free Speed: 5,000 RPM
Max. Torque: 1,800 Ft/lbs
Length: 275 MM
Air Inlet: 1/2" NPT
Air Hose: 3/4"
Avg. air Cons.: 9.0 CFM
Sound level: 103 dBA (114 dB power)
Vibration: 16.4 M/S²
Weight: 7.10 Kg

Super Duty Impact Wrench

3/4" Anvil PN: KP1635

1" Anvil PN: KP1835

- Ultra lightweight Impact wrench
- Delivers 1600 Ft/lbs of Max torque in reverse
- Best power-to-weight ratio in the range
- Single dial for forward and reverse, with integrated 3 position power stops
- Left mounted side handle with integrated rubber grip
- D Handle with internal trigger
- Hole through anvil for socket attachment



Anvil: 3/4 or 1" Sq
Free Speed: 5,500 RPM
Max. Torque: 1,600 Ft/lbs
Length: 323 MM
Air Inlet: 1/2" NPT
Air Hose: 3/4"
Avg. air Cons.: 8.5 CFM
Sound level: 106 dBA (117 dB power)
Vibration: 13.7 M/S²
Weight: 5.8 Kg

1" Super Duty Impact Wrench

PN: KP1045

- Very high powered 1" Impact wrench
- D Handle with internal trigger
- Angled air inlet
- 4 power settings with separate forward and reverse lever
- Side handle and rubber body protection ring included
- Hole through anvil for socket attachment

Anvil: 1" Sq
Free Speed: 3,500 RPM
Max. Torque: 2,500 Ft/lbs
Length: 436 MM
Air Inlet: 1/2" NPT
Air Hose: 1"
Average air consumption: 14.5 CFM
Sound Level: 103 dBA (114 dB power)
Vibration: 13.97 M/S²
Weight: 15.55 Kg



1" Impact Wrenches

1" Super Duty Impact Wrench 8" Extension Anvil

PN: KP1045-8



- Very high powered 1" Impact wrench
- D Handle with internal trigger
- Angled air inlet
- 4 power settings with separate forward and reverse lever
- Side handle and rubber body protection ring included
- Hole through anvil for socket attachment
- 8" Extension anvil for deep socket applications

Anvil: 1" Sq (8" Extension)
Free Speed: 3,500 RPM
Max. Torque: 2,400 Ft/lbs
Length: 634 MM
Air Inlet: 1/2" NPT
Air Hose: 1"
Average air consumption: 14.5 CFM
Sound Level: 103 dBa (114 dB power)
Vibration: 13.97 M/S²
Weight: 17.4 Kg

1-1/2" Impact Wrenches

1-1/2" Super Duty Impact Wrench

PN: KP1050

- Very high powered 1-1/2" Impact wrench
- D Handle with internal trigger
- Angled air inlet
- 4 power settings with separate forward and reverse lever
- Side handle and rubber body protection ring included
- Hole through anvil for socket attachment

Anvil: 1-1/2"
Free Speed: 3,000 RPM
Max. Torque: 2,500 Ft/lbs
Length: 452 MM
Air Inlet: 1/2"
Air Hose: 1"
Average air consumption: 14.5 CFM
Sound Level: 103 dBa (114 dB power)
Vibration: 13.97 M/S²
Weight: 15.8 G



Ratchet Wrenches

3/8" Super Duty Mini Ratchet Wrench

PN: KP2306



- Designed for long working duration and limited space applications
- Head-sealed and full caged design prolongs tool service life.
- Forward and reverse lever in ratchet head
- Compact and lightweight

Anvil: 3/8"
Free Speed: 300 RPM
Max. Torque: 40 Ft/lbs
Length: 135 MM
Air Inlet: 1/4"
Air Hose: 3/8"

Avg. air Cons.: 3.7 CFM
Sound level: 92dBA (103dB power)
Vibration: 3.9m/s²
Weight: 0.50 Kg

3/8" Mini Ratchet

PN: KP2410



- Long neck design for greater accessibility
- Light weight for less user fatigue
- Forward and reverse lever in ratchet head
- Rear exhaust

Anvil: 3/8"
Free Speed: 250 RPM
Max. Torque: 40 Ft/lbs
Length: 175 MM
Air Inlet: 1/4"
Air Hose: 3/8"

Avg. air Cons.: 2.5 CFM
Sound level: 89dBA (100dB power)
Vibration: 6.1m/s²
Weight: 0.55 Kg

Through Ratchet with 10 Sockets 1/4" & 3/8" Anvil

PN: KP2219

- Through ratchet includes 10 Metric & Imperial sockets, 1/4" & 3/8" square drive anvil.
- Contoured handle for comfort

Socket sizes include: 8, 10, 12, 13, & 14 MM
5/16, 3/8, 7/16, 1/2" & 9/16"
Anvil sizes include: 1/4" & 3/8"

Free Speed: 450 RPM
Max. Torque: 30 Ft/lbs
Length: 210 MM
Air Inlet: 1/4
Air Hose: 3/8
Avg. air Cons.: 4.5cfm
Weight: 0.60 Kg



Fluid Delivery Tools

Heavy Duty Air Caulking Gun

PN: KP4613



- Takes 50 MM diameter sausages in 400, 500 & 600 ml sizes.
- Max. Tube Size: 470 MM x 50 MM Dia.
Max. air pressure: 45-90 PSI
Length: 550 MM
Weight: 0.9 Kg

Manual Grease Gun 80 cc

PN: KPAC050



- Re-grease any air tool transmission case fitted with a micro grease nipple.

Capacity: 80 cc
Working Pressure: 100 PSI
Net Weight: 0.28 Kg

Grinders

Mini Die Grinder 1/4" Collet

PN: KP6226

- 1/8", 3 MM & 6 MM collets available
- Rear Exhaust

Collet Size: 1/4"
Free Speed:
30,000 RPM
Length: 120 MM
Avg. air Cons.: 3.6
Net Weight: 0.36 Kg



2 1/2" Straight Grinder

PN: KP6970SL

- Side Exhaust.
- Free Speed: 14,000 RPM
Wheel Size: 64 MM

Spindle Thread: 3/8-24 UNC
Length: 255 MM
Weight: 1.28 Kg
Avg. air Cons.: 4.5 CFM



Sanders

Orbital 3" Pistol Grip Sander

PN: KP6628

- 3" velcro pad
- 2 speed



Free Speed: 15,000 RPM
Pad Size: 75 MM
Spindle: 5/16-24 UNC
Orbital Diameter: 1.5 MM
Length: 124 MM
Weight: 0.58 Kg
Avg. air Cons.: 2.1

Rotary Pistol Grip Sander

PN: KP6712

- Includes 2" & 3" quick-lock backing pad
- 2 speed



Free Speed: 15,000 RPM
Pad Size: 50 MM & 75 MM
Spindle: 1/4-20 UNC
Length: 123 MM
Avg. air Cons.: 2.1 CFM
Net Weight: 0.52 Kg

Dual Pistol Grip Sander

PN: KP6635

- Switchable between Rotary & Orbital sanding actions
- 2 speed



Free Speed: 6,000 RPM
Pad Size: 75 MM
Spindle: 5/16-24
Orbital Diameter: 1.5
Length: 175 MM
Avg. air Cons.: 2.1 CFM
Weight: 0.74 Kg

Hammering Tools

Pistol Grip Needle Scaler

PN: KP4722P



- Front Exhaust.
- Impact Rate: 3700 bpm Length: 330 MM
Piston Stroke: 33 MM Avg. air Cons. 10 CFM
Needle Dia.: 3 MM Weight: 2.70 Kg
Needles: 19

Pistol Grip Pittsburgh Hammer

PN: KP4711PH



- Handle Exhaust
 - 360° Adjustable Anvil Guide
- Impact Rate: 4,200 RPM
Stroke: 50 MM
Length: 260 MM
Avg. air Cons.: 6.2 CFM
Weight: 2.20 Kg

Hammering Tools

Heavy Duty Air Scaling Hammer

PN: KP4733

- Soft rubberised handles absorb vibration
- Optional left side mountable handle



Impact Rate: 2400 bpm
Piston Stroke: 26 MM
Length: 550 MM
Avg. air Cons. 11.5 CFM
Weight: 4.0 Kg

Heavy Duty Air Chipper Hammer

PN: KP4735S3H

- Side Exhaust.
- 14.7 MM hex shank



Impact Rate: 1,900 BPM
Piston Stroke: 119 MM
Driver: 14.7 MM Hex
Length: 419 MM
Avg. air Cons. 5.6 CFM
Weight: 8.50 Kg

Moil Point Chisel

PN: KPAC10022AH

Length: 260 MM



25 MM Flat Chisel

PN: KPAC10021AH

Length: 260 MM



Rivet & Nut Sert Tools

Air Nut Sert Gun Kit

PN: KP4253-MK

- Sets up to M12 stainless nut serts.
- 2 axis swivel air inlet for flexible tool positioning
- Forward and reverse actions built into trigger for swaging and reverse functions
- Rubber grip and standing ring
- Integrated spring balancer mount
- Side exhaust

Capacity: M3, M4, M5, M6, M8, M10, M12
Stroke: 7 MM
Traction Power: 6,000 Ft/lbs
Length: 278 MM
Air Inlet: 1/4"
Air Hose: 3/8"
Air consumption: 2.1L per cycle @ 85 PSI
Nett Weight: 2.3 Kg



Super Duty Stainless 5/16" Air Riveter

PN: KP4210VK

- Sets up to 5/16" stainless steel rivets and also 3/16", 7/32", 1/4" rivets.
- Swivel air inlet for flexible tool positioning
- Spent mandrel cartridge

- Constant vacuum to hold rivet to mandrel nose at any angle
- Rubber grip and standing ring.
- Integrated spring balancer mount
- Side exhaust

Capacity: 5/16", 1/4", 3/16" & 7/32"
Stroke: 22.3 MM
Traction Power: 3800 Ft/lbs
Length: 305 MM
Air Inlet: 1/4" NPT
Air hose: 3/8"
Air consumption: 4 CFM
Nett Weight: 1.88 Kg



Air Brush

SG420A Gravity Feed Air Brush

PN: SG420A

- SG420A air brush is suitable for fine touch-up and custom detailing applications. All metal parts with high quality stainless steel nozzle and needle for easy cleaning. Achieve high levels of control with this fully adjustable gravity feed air brush.
- Side mount adjustable fluid pot.
- Chrome-plated metal body for easy cleaning.
- Suitable for both oil and water-based painting.

Applications:
Acrylics, Enamels, Stains.

Nozzle: 0.3 MM
Working Pressure: 14-50 PSI
Air inlet: 1/8"
Fluid Output: 7 cc
Fluid Capacity: 7 cc
Fluid Feed: Gravity
Weight: 280 G



Mini Gravity Feed Spray Guns

K320 Gravity Feed 0.8 MM Spray Gun

PN: K320M08

K320M is an ideal spray gun for touch-up, custom detailing or small paint applications.

Features:

- Chrome & Nickel-plated aluminum body for easy cleaning.
- High grade stainless steel nozzle & needle for easy cleaning & long service life.
- Teflon seals & packing.
- Suitable for both oil and water-based painting.

Applications:

2-Pack, Acrylics, Enamels, Stains.

Nozzle: 0.8 MM S-Steel
Working Pressure: 30-45 PSI
Pattern Width: 140 MM
Air Cons.: 3.2 CFM
Fluid Output: 80 ml
Fluid Capacity: 125 cc
Fluid Feed: Gravity
Fluid Inlet: M15
Weight: 280 G

K320 Gravity Feed 1.2 MM Spray Gun

PN: K320M12

K320M is an ideal spray gun for touch-up, custom detailing or small paint applications.

Features:

- Chrome & Nickel-plated aluminum body for easy cleaning.
- High grade stainless steel nozzle & needle for easy cleaning & long service life.
- Teflon seals & packing.
- Suitable for both oil and water-based painting.

Applications:

2-Pack, Acrylics, Enamels, Stains.

Nozzle: 1.2 MM S-Steel
Working Pressure: 30-45 PSI
Pattern Width: 140 MM
Air Cons.: 3.2 CFM
Fluid Output: 100 ml
Fluid Capacity: 125 cc
Fluid Feed: Gravity
Fluid Inlet: M17
Weight: 280 G



K320M Nozzle Sets

See more on Page 67

1.2 MM K320M Nozzle Set

PN: PS32012



1.2 MM Nozzle, Needle, Cap Set suits K320 Series Mini Gravity Feed Spray Guns

Gravity Spray Gun Stands

See more on Page 66

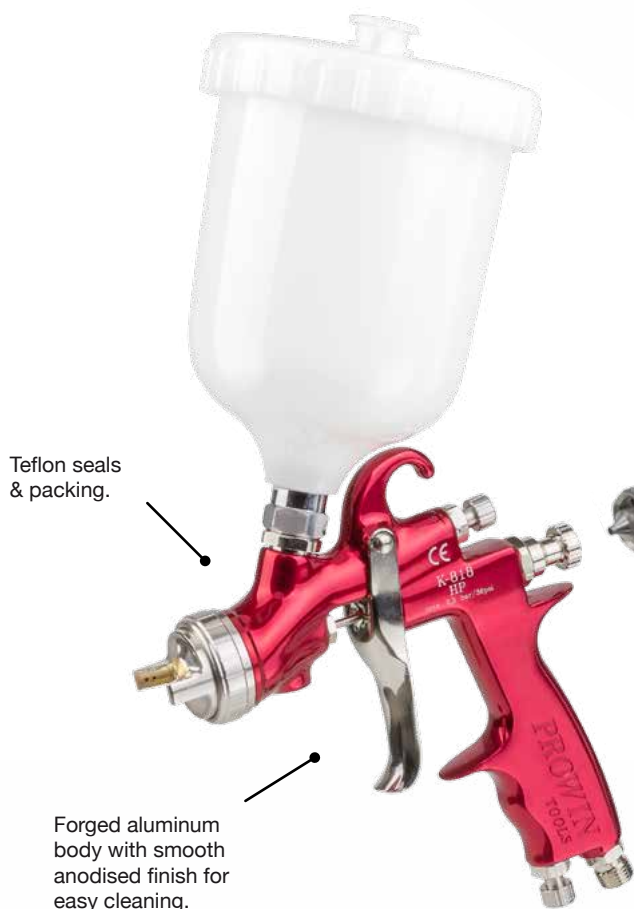
K818M Gravity Feed Spray Gun Stand

PN: SG039

Add a retractable stand to Prowin gravity feed spray guns for easy paint filling and storage. When not in use the stand retracts to fit neatly around the spray gun pot.



Gravity Feed Spray Guns



Short fluid passages offer quicker cleaning and maintenance. Gravity feed requires less air pressure to drive fluid feed, resulting in a higher quality finish across a wide fluid viscosity range. Easy no mess fluid refilling with Quick-release lid. Centre of gravity is closer to the centre of the gun.

High grade stainless steel nozzle & needle for easy cleaning & long service life.



Features:

- Forged aluminum body with smooth anodised finish for corrosion resistance & easy cleaning.
- Teflon seals & packing.
- 8 hole cap as standard.
- Suitable for both oil and water-based painting.
- High grade stainless steel nozzle & needle for easy cleaning & long service life.
- Complies to CE standards
- Professional quality.

K818 Gravity Feed 1.3 mm Spray Gun

PN: K818M13

Applications:

2-Pack, Metallics, Enamel, Stain

Nozzle: 1.3 mm S-Steel
Working Pressure: 30-45 PSI
Pattern Width: 305 MM
Air Cons.: 7.5 CFM
Weight: 514 G

Fluid Output: 210 ml
Fluid Capacity: 600 cc
Fluid Feed: Gravity
Fluid Inlet: M16 x 1.5P

K818 Gravity Feed 1.4 mm Spray Gun

PN: K818M14

Applications:

2-Pack, Metallics, Enamel, Stain

Nozzle: 1.4 mm S-Steel
Working Pressure: 30-45 PSI
Pattern Width: 310 MM
Air Cons.: 7.5 CFM
Weight: 514 G

Fluid Output: 220 ml
Fluid Capacity: 600 cc
Fluid Feed: Gravity
Fluid Inlet: M16 x 1.5P

K818 Gravity Feed 1.8 mm Spray Gun

PN: K818M18

Applications:

2-Pack, Metallics, Acrylic, Enamels, Primer, Stains.

Nozzle: 1.8 mm S-Steel
Working Pressure: 30-45 PSI
Pattern Width: 330 MM
Air Cons.: 7.8 CFM
Weight: 514 G

Fluid Output: 300 ml
Fluid Capacity: 600 cc
Fluid Feed: Gravity
Fluid Inlet: M16 x 1.5P

K818 Gravity Feed 2.5 mm Spray Gun

PN: K818M25

Applications:

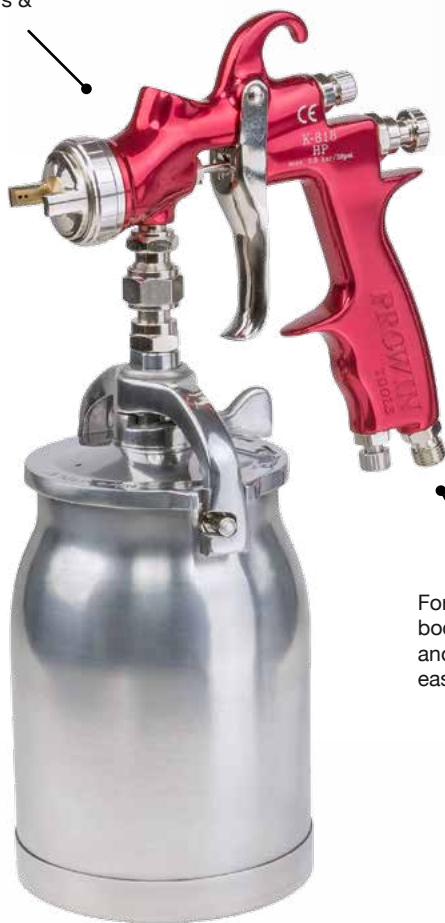
Heavy viscosity fluids, Glue, Spray Putty.

Nozzle: 2.5 mm S-Steel
Working Pressure: 30-45 PSI
Pattern Width: 350 MM
Air Cons.: 7.8 CFM
Weight: 514 G

Fluid Output: 380 ml
Fluid Capacity: 600 cc
Fluid Feed: Gravity
Fluid Inlet: M16 x 1.5P

Suction Feed Spray Guns

Teflon seals & packing.



High grade stainless steel nozzle & needle for easy cleaning & long service life.

Forged aluminum body with smooth anodised finish for easy cleaning.

Benefits of Suction Feed Spray Guns:

- Suction provides a mild agitating action to the fluid as the gun is being used.
- Suction Feed Spray Guns can carry larger amounts of paint while retaining gun stability.
- The configuration of the fluid pot offers access to tighter working spaces.
- Achieves quality finishes with light viscosity paints or stains.
- Suitable for adhesive coatings, specialised coatings or textured finishes.

Features:

- Forged aluminum body with smooth anodised finish for easy cleaning.
- Suitable for low viscosity oil and water-based painting.
- 8 hole cap as standard.
- High grade stainless steel nozzle & needle for easy cleaning & long service life.
- Complies to CE standards
- Teflon seals & packing.
- Professional quality.

K818 Suction Feed 1.3 MM Spray Gun

PN: K818S13

Applications:

2-Pack, Metallics, Enamels, Polyurethanes.

Nozzle: 1.3 MM S-Steel
Working Pressure: 30-45 PSI
Pattern Width: 305 MM
Air Cons.: 7.5 CFM
Weight: 514 G

Fluid Output: 200 ml
Fluid Capacity: 1,000 cc
Fluid Feed: Suction
Fluid Inlet: 3/8"

K818 Suction Feed 1.8 MM Spray Gun

PN: K818S18

Applications:

Heavy viscosity fluids, Acrylics, Enamels, Primer, Glue, Stains.

Nozzle: 1.8 MM S-Steel
Working Pressure: 30-45 PSI
Pattern Width: 330 MM
Air Cons.: 7.8 CFM
Weight: 514 G

Fluid Output: 300 ml
Fluid Capacity: 1,000 cc
Fluid Feed: Suction
Fluid Inlet: 3/8"

K818 Suction Feed 2.0 MM Spray Gun

PN: K818S20

Applications:

Heavy viscosity fluids, Acrylics, Enamels, Primer, Glue, Stains.

Nozzle: 2.0 MM S-Steel
Working Pressure: 30-45 PSI
Pattern Width: 340 MM
Air Cons.: 7.8 CFM
Weight: 514 G

Fluid Output: 340 ml
Fluid Capacity: 1,000 cc
Fluid Feed: Suction
Fluid Inlet: 3/8"

K818 Suction Feed 2.5 MM Spray Gun

PN: K818S25

Applications:

Heavy viscosity fluids, Glue, Spray Putty.

Nozzle: 2.5 MM S-Steel
Working Pressure: 30-45 PSI
Pattern Width: 350 MM
Air Cons.: 7.8 CFM
Weight: 514 G

Fluid Output: 380 ml
Fluid Capacity: 1,000 cc
Fluid Feed: Suction
Fluid Inlet: 3/8"

HVLP Gravity Feed Spray Guns

Benefits of HVLP Gravity Feed Spray Guns:

The combination of HVLP technology and gravity feed spray guns offers many benefits. High Volume Low Pressure (H.V.L.P.) technology achieves finer atomisation while using less air pressure (as low as 10 PSI). The benefit of this technology is a more efficient transfer of paint, while consuming less air pressure. The configuration of gravity feed spray guns provides a constant supply of fluid pressure to the spray cap, offering the ability to work with both light and heavy viscosity fluids. Gravity feed spray guns have short fluid passages making these guns quicker and easier to clean.



High grade stainless steel nozzle & needle for easy cleaning & long service life.

Features:

- Exceptional fluid atomization through 12 hole cap.
- Forged aluminum body with smooth anodised finish for corrosion resistance & easy cleaning.
- Teflon seals & packing.
- Includes mini air regulator
- Suitable for both oil and water-based painting.
- High grade stainless steel nozzle & needle for easy cleaning & long service life.
- Complies to CE standards
- Professional quality

Mini air regulator for precise air pressure control at the gun.

KH818 Gravity Feed 1.3 MM Spray Gun

PN: KH818M13

Applications:

2 Pack, stains, enamels, polyurethanes

Nozzle: 1.3 MM S-Steel
Working Pressure: 10~28 PSI
Pattern Width: 300 MM
Air Cons.: 9.6 CFM
Weight: 514 G

Fluid Output: 140 ml
Fluid Capacity: 600 cc
Fluid Feed: Gravity
Fluid Inlet: M16 x 1.5P

KH818 Gravity Feed 1.4 MM Spray Gun

PN: KH818M14

Applications:

2 Pack, stains, enamels, polyurethanes

Nozzle: 1.4 MM S-Steel
Working Pressure: 10~28 PSI
Pattern Width: 310 MM
Air Cons.: 9.6 CFM
Weight: 514 G

Fluid Output: 150 ml
Fluid Capacity: 600 cc
Fluid Feed: Gravity
Fluid Inlet: M16 x 1.5P

KH818 Gravity Feed 1.8 MM Spray Gun

PN: KH818M18

Applications:

Acrylics, enamels, Metallics, Lacquers

Nozzle: 1.8 MM S-Steel
Working Pressure: 10~28 PSI
Pattern Width: 320 MM
Air Cons.: 9.9 CFM
Weight: 514 G

Fluid Output: 200 ml
Fluid Capacity: 600 cc
Fluid Feed: Gravity
Fluid Inlet: M16 x 1.5P

KH818 HVLP Nozzle Sets

See more on Page 67

HVLP 2.0 MM Nozzle Set

PN: SH81820



All Prowin nozzles and needles are precision machined from high grade stainless steel for easy cleaning & long service life.

HVLP Suction Feed Spray Guns

Teflon seals & packing.



High grade stainless steel nozzle & needle for easy cleaning & long service life.

Forged aluminum body with smooth anodised finish for easy cleaning.

Mini air regulator for precise air pressure control at the gun.

Benefits of HVLP Suction Feed Spray Guns:

- High Volume Low Pressure (H.V.L.P.) achieves finer atomization while using less air pressure (as low as 10 PSI).
- Provides a mild agitating action to paint as the gun is being used.
- Suction Feed Spray Guns can carry larger amounts of paint while retaining gun stability.
- The configuration of the fluid pot offers access to tighter working spaces.
- Achieves quality finishes with light viscosity paints or stains.
- Suitable for adhesive coatings, specialised coatings or textured finishes.

Features:

- Exceptional fluid atomization through 12 whole cap
- Forged aluminum body with smooth anodised finish for easy cleaning.
- Includes mini air regulator
- Suitable for low viscosity oil and water-based painting.
- High grade stainless steel nozzle & needle for easy cleaning & long service life.
- Complies to CE standards
- Teflon seals & packing.

KH818 Suction Feed 1.8 mm Spray Gun

PN: KH818S18

Applications:

Acrylics, enamels, polyurethanes, Metallics, Lacquers.

Nozzle: 1.8 mm S-Steel

Working Pressure: 10-28 PSI

Pattern Width: 310 mm

Air Cons.: 7.8 CFM

Weight: 514 g

Fluid Output: 180 ml

Fluid Capacity: 1,000 cc

Fluid Feed: Suction

Fluid Inlet: 3/8"

Pressure Feed Spray Gun Systems

2 Litre Pressure Feed Spray Gun System

1.2 MM Nozzle PN: PW2LTRK12

2.0 MM Nozzle PN: PW2LTRK20

1.5 MM Nozzle PN: PW2LTRK15

2.5 MM Nozzle PN: PW2LTRK25

1.8 MM Nozzle PN: PW2LTRK18

Spray large quantities of fluid without the need to refill a smaller gun-mounted pot. Another benefit of pressure feed systems is a lighter and easier to handle spray gun. Pressure Feed Spray Gun Systems includes a Prowin K818 Spray Gun (see specifications for above nozzle sizes on Page 67), fluid tank and 3 metre supply hose.

Features:

- Tank Pressure Regulator
- Air release valve
- Safety release valve
- Tank handle/hanger
- Complies to CE standards

Applications:

2-Pack, Metallics, Enamels, Polyurethanes.

K818 Pressure Feed Spray Gun

Working Pressure: 30-45 PSI

Air Cons.: 7.4 CFM

Fluid Feed: Pressure

Fluid Inlet: 3/8" Male

Weight: 450 g

2 Litre Pressure Feed Tank

Hose: 8 MM ID x 3 m (PU+Nylon)

Tank dimensions:

130L mm x 130W mm x 445H mm

Capacity: 2 Litre

Tank: Aluminium

Max. working pressure: 60 PSI

Weight total: 2.15 Kg



10 Litre Pressure Feed Spray Gun System

1.2 MM Nozzle PN: PW10LTRK12

2.0 MM Nozzle PN: PW10LTRK20

1.5 MM Nozzle PN: PW10LTRK15

2.5 MM Nozzle PN: PW10LTRK25

1.8 MM Nozzle PN: PW10LTRK18

Spray large quantities of fluid without the need to refill a smaller gun-mounted pot. Another benefit of pressure feed systems is a lighter and easier to handle spray gun. Pressure Feed Spray Gun Systems includes a Prowin K818 Spray Gun (see specifications for above nozzle sizes on Page 67), fluid tank and 3 meter supply hose.

Features:

- 3 meter hose
- Tank Pressure Regulator
- Air release valve
- Safety release valve
- Tank handle/hanger
- Complies to CE standards

Applications:

2-Pack, Metallics, Enamels, Polyurethanes.

K818 Pressure Feed Spray Gun

Working Pressure: 30-45 PSI

Air Cons.: 7.4 CFM

Fluid Feed: Pressure

Fluid Inlet: 3/8" Male

Weight: 450 g

10 Litre Pressure Feed Tank

Hose: 8 MM ID x 3 m (PU+Nylon)

Tank dimensions:

315L mm x 315W mm x 485H mm

Capacity: 10 Litre

Tank: Aluminium

Max. working pressure: 60 PSI

Weight total: 10.1 Kg



Pressure Feed Spray Gun Systems

20 Litre Pressure Feed Spray Gun System

1.2 MM Nozzle PN: PW20LTRK12 2.0 MM Nozzle PN: PW20LTRK20

1.5 MM Nozzle PN: PW20LTRK15 2.5 MM Nozzle PN: PW20LTRK25

1.8 MM Nozzle PN: PW20LTRK18

Spray large quantities of fluid without the need to refill a smaller gun-mounted pot. Another benefit of pressure feed systems is a lighter and easier to handle spray gun. Pressure Feed Spray Gun Systems includes a Prowin K818 Spray Gun (see specifications for above nozzle sizes on Page 67), fluid tank and 10 metre supply hose.

Features:

- 10 meter hose
- Tank Pressure Regulator
- Air release valve
- Safety release valve
- Tank handle/hanger
- Complies to CE standards
- Manual Agitation

Applications:

2-Pack, Metallics, Enamels, Polyurethanes.

K818 Pressure Feed Spray Gun

Working Pressure: 30-45 PSI

Air Cons.: 7.8 CFM

Fluid Feed: Pressure

Fluid Inlet: M14 x 1.0P

Weight: 450 g

20 Litre Pressure Feed Tank

Hose: 8 MM ID x 10 m (PU+Nylon)

Tank dimensions:

Dimensions:

315L mm x 315W mm x 570H mm

Capacity: 20 Litre

Tank: Aluminium

Max. working pressure: 60 PSI

Weight total: 26.0 Kg



Pressure Feed Spray Heads



- Features:
- Forged aluminum body with smooth anodised finish for corrosion resistance & easy cleaning.
- Teflon seals & packing.
- Suitable for both oil and water-based painting.
- High grade stainless steel nozzle & needle for easy cleaning & long service life.
- Complies to CE standards.

K818 Pressure Feed 1.2 mm Spray Gun

PN: K818P12

Applications: 2-Pack, Metallics, Enamels, Polyurethanes.

Suits: PW10LTRK, PW20LTRK & PW2LTRK
Nozzle: 1.2 mm S-Steel
Working Pressure: 30-45 PSI
Pattern Width: 300 mm
Air Cons.: 7.5 CFM
Fluid Output: 170 ml
Fluid Feed: Pressure
Fluid Inlet: 3/8"
Weight: 450 g

K818 Pressure Feed 1.5 mm Spray Gun

PN: K818P15

Applications: 2-Pack, Metallics, Enamels, Polyurethanes.

Suits: PW10LTRK, PW20LTRK & PW2LTRK
Nozzle: 1.5 mm S-Steel
Working Pressure: 30-45 PSI
Pattern Width: 315 mm
Air Cons.: 7.5 CFM
Fluid Output: 240 ml
Fluid Feed: Pressure
Fluid Inlet: 3/8"
Weight: 450 g

K818 Pressure Feed 1.8 mm Spray Gun

PN: K818P18

Applications: 2-Pack, Metallics, Acrylic, Enamels, Primer, Stains.

Suits: PW10LTRK, PW20LTRK & PW2LTRK
Nozzle: 1.8 mm S-Steel
Working Pressure: 30-45 PSI
Pattern Width: 330 mm
Air Cons.: 7.8 CFM
Fluid Output: 300 ml
Fluid Feed: Pressure
Fluid Inlet: 3/8"
Weight: 450 g

K818 Pressure Feed 2.0 mm Spray Gun

PN: K818P20

Applications: Heavy viscosity fluids, Acrylics, Enamels, Primer, Glue, Stains.

Suits: PW10LTRK, PW20LTRK & PW2LTRK
Nozzle: 2.0 mm S-Steel
Working Pressure: 30-45 PSI
Pattern Width: 340 mm
Air Cons.: 7.8 CFM
Fluid Output: 340 ml
Fluid Feed: Pressure
Fluid Inlet: 3/8"
Weight: 450 g

K818 Pressure Feed 2.5 mm Spray Gun

PN: K818P25

Applications: Heavy viscosity fluids, Glue, Spray Putty.

Suits: PW10LTRK, PW20LTRK & PW2LTRK
Nozzle: 2.5 mm S-Steel
Working Pressure: 30-45 PSI
Pattern Width: 350 mm
Air Cons.: 7.8 CFM
Fluid Output: 380 ml
Fluid Feed: Pressure
Fluid Inlet: 3/8"
Weight: 450 g

Pressure Feed Spray Gun System Hoses

Hose is available by the metre and fittings are available separately.

3 Metre Pressure Feed Hose

PN: AP00103

- 3 metre PU+Nylon hose with twin air/fluid supply lines.
- Twin 1/4" (air) & 3/8" (fluid) connectors.
- Suits PW2LTRK, PW10LTRK & PW20LTRK pressure feed spray guns.

Fluid Hose size: 8 mm ID
Air Hose size: 6 mm ID.
Max. working pressure: 60 PSI



5 Metre Pressure Feed Hose

PN: AP00105

- 5 metre PU+Nylon hose with twin air/fluid supply lines.
- Twin 1/4" (air) & 3/8" (fluid) connectors.
- Suits PW2LTRK, PW10LTRK & PW20LTRK pressure feed spray guns.

Fluid Hose size: 8 mm ID
Air Hose size: 6 mm ID.
Max. working pressure: 60 PSI



10 Metre Pressure Feed Hose

PN: AP00110

- 10 metre PU+Nylon hose with twin air/fluid supply lines.
- Twin 1/4" (air) & 3/8" (fluid) connectors.
- Suits PW2LTRK, PW10LTRK & PW20LTRK pressure feed spray guns.

Fluid Hose size: 8 mm ID
Air Hose size: 6 mm ID.
Max. working pressure: 60 PSI



Pressure Feed Spray Tanks

2 Litre Pressure Feed Tank

PN: PT02

- Tank Pressure Regulator
- Air release valve
- Safety release valve
- Tank Handle/hanger
- Complies to CE standards

Dimensions:

130L mm x 130W mm x 445H mm

Capacity: 2 Litre

Tank: Aluminium

Max. working pressure: 60 PSI

Weight: 2.15 Kg



10 Litre Pressure Feed Tank

PN: PT10

- Tank Pressure Regulator
- Air release valve
- Safety release valve
- Tank handle/hanger
- Complies to CE standards

Dimensions:

315L mm x 315W mm x 485H mm

Capacity: 10 Litre

Tank: Aluminium

Max. working pressure: 60 PSI

Weight: 10.1 Kg



20 Litre Pressure Feed Tank

PN: PT20

- Tank Pressure Regulator
- Air release valve
- Safety release valve
- Agitator Crank Guard
- Complies to CE standards

Dimensions:

315L mm x 315W mm x 570H mm

Capacity: 20 Litre

Tank: Aluminium

Max. working pressure: 60 PSI

Weight total: 26.0 Kg



Suction & Gravity Feed Paint Filters

K818S & KH818S Series Suction Feed Paint Filter

PN: SG004

Suits K818S & KH818S series suction feed spray guns

Accepts 12 mm gravity feed pickups.

Diameter: 22 mm

Length: 38 mm

Material: Nylon



K818M & KH818M Series Gravity Feed Paint Filter

PN: SG002

Suits K818M & KH818M series gravity feed spray guns

Diameter: 12 mm

Length: 40 mm

Material: Nylon



Gravity Spray Gun Stands

K320M Mini Gravity Spray Gun Stand

PN: SG029

K818M Gravity Feed Spray Gun Stand

PN: SG039

Add a retractable stand to Prowin gravity feed spray guns for easy paint filling and storage. When not in use the stand retracts to fit neatly around the spray gun pot.



SG029



SG039

Suction & Gravity Feed Pots

125 cc Gravity Feed Cup & Lid Set

PN: PSK320M10

- Includes pot and lid.

Suits PSK320 series gravity feed spray guns

Capacity: 125 cc

Width: 65 mm

Height: 110 mm

Weight: 46 g

Thread: M14x1.0P Female

Material: Polyoxymethylene



600 cc Gravity Feed Cup & Lid Set

PN: PSK81823A

- Includes pot and lid.

Suits K818M & KH818M series

Capacity: 600 cc

Width: 99 mm

Height: 167 mm

Weight: 224 g

Thread: M16x1.5P - Female

Material: Polyoxymethylene



1 Litre Suction Feed Pot & Lid Set

PN: PSK81826A

- Includes pot and lid.

Suits K818S & KH818S series suction feed spray guns

Capacity: 1,000 cc

Width: 108 mm

Height: 218 mm

Weight: 424 g

Thread: 3/8"

Material: Aluminum



In-line Air Regulators

In-line Pressure Regulator

PN: SG017A

- Quickly and easily make air pressure adjustments independently of air supply
- Suits K818 & KH818 series spray guns.

Flow Rate: 35.31 CFM

Pressure Range: 6-98 PSI

Weight: 124 g

Thread: M14x1.0P Female



In-line Air Regulators

See more on Page 100

Air Regulator Male plug to 1/4" male

PN: GPA1011

Air Regulator Male plug to 1/4" male thread
Regulates Air Flow.



K818 Nozzle Sets



- Nozzle Sets include nozzle, needle & cap
 - All Prowin nozzles and needles are precision machined from high grade stainless steel for easy cleaning & long service life.
- Nozzle, Needle & Cap Set suits K818M gravity feed series, K818S suction feed and PW series pressure feed spray guns.

Nozzle, Needle & Cap Sets

1.2 MM Nozzle PN: PS81812

1.8 MM Nozzle PN: PS81818

1.3 MM Nozzle PN: PS81813

2.0 MM Nozzle PN: PS81820

1.4 MM Nozzle PN: PS81814

2.5 MM Nozzle PN: PS81825



K818S



K818M



PW Series

KH818 HVLP Nozzle Sets



- Nozzle Sets include nozzle, needle & cap
 - All Prowin nozzles and needles are precision machined from high grade stainless steel for easy cleaning & long service life.
- Nozzle, Needle & Cap Set suits KH818M series HVLP gravity and KH818S suction HVLP feed spray guns

HVLP Nozzle, Needle & Cap Set

1.3 MM HVLP Nozzle PN: PSH81813

1.4 MM HVLP Nozzle PN: PSH81814

1.8 MM HVLP Nozzle PN: PSH81818

2.0 MM HVLP Nozzle PN: PSH81820



KH818S



KH818M

K320M Nozzle Sets



- Nozzle Sets include nozzle, needle & cap
 - All Prowin nozzles and needles are precision machined from high grade stainless steel for easy cleaning & long service life.
- Nozzle, Needle & Cap Set suit K320 Series Mini Gravity Feed Spray Guns.

K320M Nozzle, Needle & Cap Sets

0.8 MM K320M Nozzle PN: PS32008

1.2 MM K320M Nozzle PN: PS32012



K320M Series

Nutsert Tools

Heavy Duty Air/Hydraulic Nutsert Tool

PN: SNAN800

- This heavy duty tool is suitable for setting aluminium, steel and stainless steel nutserts from 4 mm to 10 mm.
- Manual nutsert release spindle with knurled nut
- Stroke adjustment for accurate rivet compression
- Made in Japan

Nutsert tool includes:

M4, M5, M6, M8, M10 mandrels.

Dimensions: 278 x 188 x 82 mm

Weight: 1.6 kg



Nutserts

See more on Page 138

Steel Nutserts

M4 Steel PN: NM4PNS

M5 Steel PN: NM5PNS

M6 Steel PN: NM6PNS

M8 Steel PN: NM8PNS

M10 Steel PN: NM10PNS

Max. sheet thickness: 4 mm

Pack of 50



Aluminium Nutserts

M4 Aluminium PN: NM4RNA

M5 Aluminium PN: NM5RNA

M6 Aluminium PN: NM6RNA

M8 Aluminium PN: NM8RNA

M10 Aluminium PN: NM10RNA

Max. sheet thickness: 4 mm

Pack of 50



Ezi-Shear Sheet Metal Cutting Attachments

Ezi-Shear sheet metal cutting attachments are designed to replace the chuck of most electric drills, enabling the user to cut common types of sheet metal including corrugated iron with ease.

Ezi-shears have undergone years of development and extensive testing in real world professional environments. This has produced a range of metal cutting attachments that has been greatly improved to bring you a tool that is very hard wearing with peerless reliability.

Both top and bottom cutting blades are manufactured from hardened 86/40 Carbon Steel, a very resilient alloy that is well suited to the rigors of metal cutting.

Professional Results

Every Ezi-shear cutting attachment incorporates a rigid metal body, precision ground cutting blades and a ball bearing mounted pivoting mechanism. Utilizing these high quality components ensures a consistent professional finish every time.

Built To Last

The Ezi-shear range delivers an outstanding service life and economical operation through the utilization of replaceable blades and standard bolts and bearings. When servicing is required, worn parts can be replaced instead of replacing the entire shear head.



Cam-Drive Ezi-shear

M18 BMS Ezi-Shear

PN: EZISMIL

The Ezi-Shear EZISMIL attachment will fit:

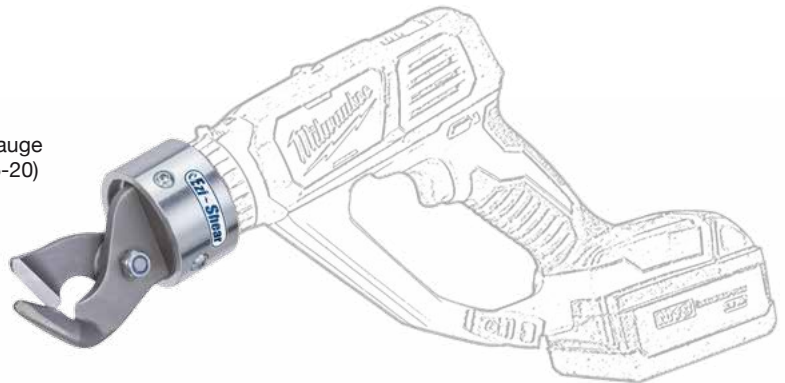
Milwaukee M18™ 14 Gauge Double Cut Shear (2636-20)

Milwaukee M18™ 18 Gauge Double Cut Shear (2635-20)

Milwaukee M18™ 18 Gauge Single Cut Shear Kit (2637-20)

Input drive: Cam Shaft
Max. Speed: 2400 RPM
Cutting Capacity:
Stainless Steel: 1.2 MM
Mild Steel: 1.6 MM

Aluminium: 2.2 MM
Suitable for
Corrugated Iron &
Colorbond Panels



Hex-Drive Ezi-shear

DRC/PDC Ezi-Shear

PN: DRC184TECE

The Ezi-Shear EZIS014H attachment will fit:

FESTOOL DRC 18 Cordless Drill 5.2Ah (201557)

FESTOOL DRC 18 Cordless Drill 18V (500752)

FESTOOL PDC 18 Cordless Hammer Drill (500781)

FESTOOL DR 18 QuaDrill Electric Drill 705W (768936)

FESTOOL DRC 18 Cordless Drill (500782)

Metabo Cordless (Hammer) Drill (SB18LTX BL)

Input drive: 1/4" Hex female
Max. Speed: 2400 RPM
Cutting Capacity:
Stainless Steel: 1.2 MM
Mild Steel: 1.6 MM

Aluminium: 2.2 MM
Suitable for Corrugated Iron &
Colorbond Panels



Shaft-Drive Ezi-shear

Ezi-Shear Drill Head

3/8"x20 TPI Male PN: EZIS038

1/2"x20 TPI Male PN: EZIS012

Fits drills with Metal gearbox incorporating a 43 mm diameter (European standard) neck with at least 15 mm length and 3/8" x 24 TPI or 1/2" x 20 TPI threaded drive shaft

Max. Speed: 2400 RPM
Cutting Capacity:
Stainless Steel: 1.2 mm
Mild Steel: 1.6 mm
Aluminium: 2.2 mm
Suitable for Corrugated Iron & Colorbond Panels



- 1 Top Clamp
- 2 Bottom Clamp
- 3 Ezi-shear Body
- 4A 1/2" x 20 TPI Adapter
- 4B 4 mm Spacer

Fitment Notes:
3/8"x24 TPI Drill shank requires part 4A
1/2"x20 TPI Drill shank requires part 4B

3/8" Crank Bearing Assembly

PN: EZI01

Replacement crank bearing assembly to enable the Ezi-Shear drill head to run on drills with suit a 3/8" drive shaft.

Input Drive: 3/8" x 24 TPI



1/2" Crank Bearing Assembly

PN: EZI02

Replacement crank bearing assembly to enable the Ezi-Shear drill head to run on drills with suit a 1/2" drive shaft.

Input Drive: 1/2" x 20 TPI



Thread Adapters on page 185

1/2 x 20 TPI Male to 3/8 x 24 TPI Female Thread Adapter

PN: PORRAC3812FB

Thread Adapter 1/2 x 20 TPI male to 3/8 x 24 TPI female



Carbide Burr Sets

1/8" Head Carbide Burr 10 Piece Set

PN: CBSET10

- One piece precision CNC machined burr.

Shank size: 1/8"

10 Piece Set includes:

Countersink Burr
Ball Shaped Burr
Ball Nosed Cone Shaped Burr
Cone Shaped Burr
Ball Nosed Cylinder Shaped Burr
Radius Ended Cylinder Shaped Burr
Cylinder Shaped Burr
Oval Shaped Burr
Ball Nosed Tree Shaped Burr
Tree Pointed Shaped Burr



1/4" & 3/8" Head Carbide Burr 8 Piece Set

PN: CBSET8

- Precision brazed CNC machined & one piece burrs

Shank size: 1/4"

8 Piece Set includes:

Radius Ended Cylinder Shaped Burr Size 1
Radius Ended Cylinder Shaped Burr Size 3
Ball Nosed Tree Shaped Burr Size 1
Ball Nosed Tree Shaped Burr Size 3
Cylinder Shaped Burr Size 1
Cylinder Shaped Burr Size 3
Ball Shaped Burr Size 1
Ball Shaped Burr Size 3



3/8" Head Carbide Burr 3 Piece Set

PN: CBSET3

- Precision brazed CNC machined burr.

Shank size: 1/4"

3 Piece Set includes:

Radius Ended Cylinder Shaped Burr Size 3
Cylinder Shaped Burr Size 3
Ball Nosed Tree Shaped Burr Size 3



AIR TOOL Acc.

3/8" Head Non-ferrous Carbide Burr 3 Piece Set

PN: CBSET3NF

- Precision brazed CNC machined burrs.

Shank size: 1/4"

3 Piece Set includes:

Non-ferrous Radius Ended
Cylinder Burr Size 3
Non-ferrous Cylinder
Burr Size 3
Non-ferrous Ball Nosed
Tree Burr Size 3



1/2" Head Carbide Burr Piece 5 Piece Set

PN: CBSET5

- Precision brazed CNC machined burrs.

Shank size: 1/4"

5 Piece Set includes:

Ball Shaped Burr Size 5
Radius Ended Cylinder Shaped Burr Size 5
Cylinder Shaped Burr Size 5
Ball Nosed Tree Shaped Burr Size 5
Pointed Tree Shaped Burr Size 5



1/2" Head Stainless Steel Carbide Burr 3 Piece Set

PN: CBSET3INOX

- Precision brazed CNC machined burr.

Shank size: 1/4"

3 Piece Set includes:

Stainless Steel Ball Nosed
Tree Shaped Burr Size 5
Stainless Steel Ball Nosed
Cylinder Shaped Burr Size 5
Stainless Steel Cylinder
Shaped Burr Size 5



1/4" Shank Double Cut Carbide Burrs

Cylinder Shaped Burr Burr Size 1

PN: CBSA1

- One piece precision CNC machined burr
- Head Dia: 1/4"
Head Length: 11/16"
Overall Length: 2"



Cylinder Shaped Burr Burr Size 3

PN: CBSA3

- Precision brazed CNC machined burr.
- Head Dia: 3/8"
Head Length: 3/4"
Overall Length: 2 1/2"



Cylinder Shaped Burr Burr Size 5

PN: CBSA5

- Precision brazed CNC machined burr.
- Head Dia: 1/2"
Head Length: 1"
Overall Length: 2 3/4"



Cylinder Shaped Burr with End Cut Size 1

PN: CBSB1

- One piece precision CNC machined burr
- Head Dia: 1/4"
Head Length: 11/16"
Overall Length: 2"



Cylinder Shaped Burr with End Cut Size 3

PN: CBSB3

- Precision brazed CNC machined burr.
- Head Dia: 3/8"
Head Length: 3/4"
Overall Length: 2 1/2"



Cylinder Shaped Burr with End Cut Size 5

PN: CBSB5

- Precision brazed CNC machined burr.
- Head Dia: 1/2"
Head Length: 1"
Overall Length: 2 3/4"



Cylinder Shaped Burr with Radius End Size 1

PN: CBSC1

- One piece precision CNC machined burr
- Head Dia: 1/4"
Head Length: 11/16"
Overall Length: 2"



Cylinder Shaped Burr with Radius End Size 3

PN: CBSC3

- Precision brazed CNC machined burr.
- Head Dia: 3/8"
Head Length: 3/4"
Overall Length: 2 1/2"



Cylinder Shaped Burr with Radius End Size 5

PN: CBSC5

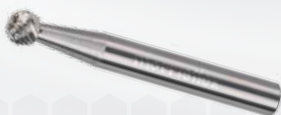
- Precision brazed CNC machined burr.
- Head Dia: 1/2"
Head Length: 1"
Overall Length: 2 3/4"



Ball Shaped Burr Size 1

PN: CBSD1

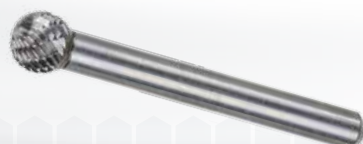
- One piece precision CNC machined burr
- Head Dia: 1/4"
Head Length: 3/16"
Overall Length: 2"



Ball Shaped Burr Size 3

PN: CBSD3

- Precision brazed CNC machined burr.
- Head Dia: 3/8"
Head Length: 5/16"
Overall Length: 2 1/8"



Ball Shaped Burr Size 5

PN: CBSD5

- Precision brazed CNC machined burr.
- Head Dia: 1/2"
Head Length: 7/16"
Overall Length: 2 1/4"



1/4" Shank Double Cut Carbide Burrs

Oval Shaped Burr Size 1

PN: CBSE1

- One piece precision CNC machined burr

Head Dia: 1/4"
Head Length: 3/8"
Overall Length: 2"



Oval Shaped Burr Size 3

PN: CBSE3

- Precision brazed CNC machined burr.

Head Dia: 3/8"
Head Length: 5/8"
Overall Length: 2 3/8"



Oval Shaped Burr Size 5

PN: CBSE5

- Precision brazed CNC machined burr.

Head Dia: 1/2"
Head Length: 7/8"
Overall Length: 2 5/8"



Ball Nosed Tree Shaped Burr Size 1

PN: CBSF1

- One piece precision CNC machined burr

Head Dia: 1/4"
Head Length: 11/16"
Overall Length: 2"



Ball Nosed Tree Shaped Burr Size 3

PN: CBSF3

- Precision brazed CNC machined burr.

Head Dia: 3/8"
Head Length: 3/4"
Overall Length: 2 1/2"



Ball Nosed Tree Shaped Burr Size 5

PN: CBSF5

- Precision brazed CNC machined burr.

Head Dia: 1/2"
Head Length: 1"
Overall Length: 2 3/4"



Pointed Tree Shaped Burr Size 1

PN: CBSG1

- One piece precision CNC machined burr

Head Dia: 1/4"
Head Length: 11/16"
Overall Length: 2"



Pointed Tree Shaped Burr Size 3

PN: CBSG3

- Precision brazed CNC machined burr.

Head Dia: 3/8"
Head Length: 3/4"
Overall Length: 2 1/2"



Pointed Tree Shaped Burr Size 5

PN: CBSG5

- Precision brazed CNC machined burr.

Head Dia: 1/2"
Head Length: 1"
Overall Length: 2 3/4"



Flame Shaped Burr Size 1

PN: CBSH1

- One piece precision CNC machined burr

Head Dia: 1/4"
Head Length: 9/16"
Overall Length: 2 3/4"



Flame Shaped Burr Size 3

PN: CBSH3

- Precision brazed CNC machined burr.

Head Dia: 3/8"
Head Length: 3/4"
Overall Length: 2 1/2"



Flame Shaped Burr Size 5

PN: CBSH5

- Precision brazed CNC machined burr.

Head Dia: 1/2"
Head Length: 1 1/4"
Overall Length: 3"



1/4" Shank Double Cut Carbide Burrs

60° Countersink Shaped Burr Size 1

PN: CBSJ1

- One piece precision CNC machined burr
- Head Dia: 1/4"
Head Length: 3/16"
Overall Length: 2"



60° Countersink Shaped Burr Size 3

PN: CBSJ3

- Precision brazed CNC machined burr.
- Head Dia: 3/8"
Head Length: 5/16"
Overall Length: 2 1/4"



60° Countersink Shaped Burr Size 5

PN: CBSJ5

- Precision brazed CNC machined burr.
- Head Dia: 1/2"
Head Length: 7/16"
Overall Length: 2 3/8"



90° Countersink Shaped Burr Size 1

PN: CBSK1

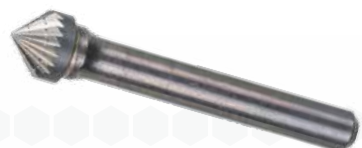
- One piece precision CNC machined burr
- Head Dia: 1/4"
Head Length: 1/8"
Overall Length: 2"



90° Countersink Shaped Burr Size 3

PN: CBSK3

- Precision brazed CNC machined burr.
- Head Dia: 3/8"
Head Length: 3/16"
Overall Length: 2 1/8"



90° Countersink Shaped Burr Size 5

PN: CBSK5

- Precision brazed CNC machined burr.
- Head Dia: 1/2"
Head Length: 1/4"
Overall Length: 2 1/8"



Ball Nosed Cone Shaped Burr Size 1

PN: CBSL1

- One piece precision CNC machined burr
- Head Dia: 1/4"
Head Length: 11/16"
Overall Length: 2"



Ball Nosed Cone Shaped Burr Size 3

PN: CBSL3

- Precision brazed CNC machined burr.
- Head Dia: 3/8"
Head Length: 1 3/16"
Overall Length: 3"



Ball Nosed Cone Shaped Burr Size 5

PN: CBSL4

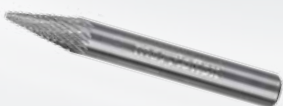
- Precision brazed CNC machined burr.
- Head Dia: 1/2"
Head Length: 1 1/4"
Overall Length: 3"



Cone Shaped Burr Size 1

PN: CBSM1

- One piece precision CNC machined burr
- Head Dia: 1/4"
Head Length: 1/2"
Overall Length: 1 7/8"



Cone Shaped Burr Size 3

PN: CBSM4

- Precision brazed CNC machined burr.
- Head Dia: 3/8"
Head Length: 5/8"
Overall Length: 2 1/2"



Cone Shaped Burr Size 5

PN: CBSM5

- Precision brazed CNC machined burr.
- Head Dia: 1/2"
Head Length: 7/8"
Overall Length: 2 3/4"



1/4" Shank Double Cut Carbide Burrs

Inverted Cone Shaped Burr Size 1

PN: CBSN1

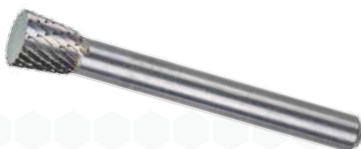
- One piece precision CNC machined burr
- Head Dia: 1/4"
Head Length: 5/16"
Overall Length: 2"



Inverted Cone Shaped Burr Size 3

PN: CBSN3

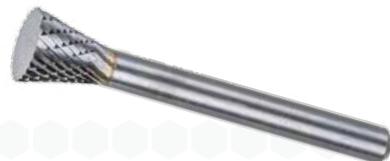
- Precision brazed CNC machined burr.
- Head Dia: 3/8"
Head Length: 3/8"
Overall Length: 2 1/8"



Inverted Cone Shaped Burr Size 5

PN: CBSN5

- Precision brazed CNC machined burr.
- Head Dia: 1/2"
Head Length: 1/2"
Overall Length: 2 1/4"



1/4" Shank Stainless Steel Carbide Burrs

Stainless Steel Cylinder Shaped Burr Size 3

PN: CBSA3INOX

- Precision brazed CNC machined burr.
- Head Dia: 3/8"
Head Length: 3/4"
Overall Length: 2 1/2"



Stainless Steel Ball Nosed Cylinder Shaped Burr Size 3

PN: CBSC3INOX

- Precision brazed CNC machined burr.
- Head Dia: 3/8"
Head Length: 3/4"
Overall Length: 2 1/2"



Stainless Steel Ball Shaped Burr Size 3

PN: CBSD3INOX

- Precision brazed CNC machined burr.
- Head Dia: 3/8"
Head Length: 5/16"
Overall Length: 2"



Stainless Steel Oval Shaped Burr Size 3

PN: CBSE3INOX

- Precision brazed CNC machined burr.
- Head Dia: 3/8"
Head Length: 5/8"
Overall Length: 2 3/8"



Stainless Steel Ball Nosed Tree Shaped Burr Size 3

PN: CBSF3INOX

- Precision brazed CNC machined burr.
- Head Dia: 3/8"
Head Length: 3/4"
Overall Length: 2 1/2"



Stainless Steel Pointed Tree Shaped Burr Size 3

PN: CBSG3INOX

- Precision brazed CNC machined burr.
- Head Dia: 3/8"
Head Length: 3/4"
Overall Length: 2 1/2"



Stainless Steel Flame Shaped Burr Size 3

PN: CBSH3INOX

- Precision brazed CNC machined burr.
- Head Dia: 3/8"
Head Length: 3/4"
Overall Length: 2 1/2"



Stainless Steel Ball Nosed Cone Shaped Burr Size 3

PN: CBSL3INOX

- Precision brazed CNC machined burr.
- Head Dia: 3/8"
Head Length: 3/4"
Overall Length: 2 1/2"



Stainless Steel burrs are designed with a unique cutting geometry for high stock removal and tool life while working on stainless steel work pieces.

1/4" Shank Non-ferrous Carbide Burrs

Non-ferrous Cylinder Shaped Burr Size 1

PN: CBSA1NF

- One piece precision CNC machined burr

Head Dia: 1/4"
Head Length: 11/16"
Overall Length: 2"



Non-ferrous Cylinder Shaped Burr Size 3

PN: CBSA3NF

- Precision brazed CNC machined burr.

Head Dia: 3/8"
Head Length: 3/4"
Overall Length: 2 1/2"



Non-ferrous Cylinder Shaped Burr Size 5

PN: CBSA5NF

- Precision brazed CNC machined burr.

Head Dia: 1/2"
Head Length: 1"
Overall Length: 2 3/4"



Non-ferrous Radius Ended Cylinder Shaped Burr Size 1

PN: CBSC1NF

- One piece precision CNC machined burr

Head Dia: 1/4"
Head Length: 11/16"
Overall Length: 2"



Non-ferrous Radius Ended Cylinder Shaped Burr Size 3

PN: CBSC3NF

- Precision brazed CNC machined burr.

Head Dia: 3/8"
Head Length: 3/4"
Overall Length: 2 1/2"



Non-ferrous Radius Ended Cylinder Shaped Burr Size 5

PN: CBSC5NF

- Precision brazed CNC machined burr.

Head Dia: 1/2"
Head Length: 1"
Overall Length: 2 3/4"



Non-ferrous Ball Shaped Burr Size 1

PN: CBSD1NF

- One piece precision CNC machined burr

Head Dia: 1/4"
Head Length: 3/16"
Overall Length: 2"



Non-ferrous Ball Shaped Burr Size 3

PN: CBSD3NF

- Precision brazed CNC machined burr.

Head Dia: 3/8"
Head Length: 5/16"
Overall Length: 2 1/8"



Non-ferrous Ball Shaped Burr Size 5

PN: CBSD5NF

- Precision brazed CNC machined burr.

Head Dia: 1/2"
Head Length: 7/16"
Overall Length: 2 1/4"



Non-ferrous Oval Shaped Burr Size 1

PN: CBSE1NF

- One piece precision CNC machined burr

Head Dia: 1/4"
Head Length: 3/8"
Overall Length: 2"

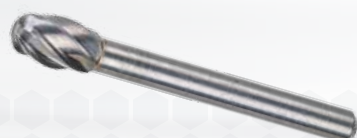


Non-ferrous Oval Shaped Burr Size 3

PN: CBSE3NF

- Precision brazed CNC machined burr.

Head Dia: 3/8"
Head Length: 5/8"
Overall Length: 2 3/8"



Non-ferrous Oval Shaped Burr Size 5

PN: CBSE5NF

- Precision brazed CNC machined burr.

Head Dia: 1/2"
Head Length: 7/8"
Overall Length: 2 5/8"



1/4" Shank Non-ferrous Carbide Burrs

Non-ferrous Ball Nosed Tree Shaped Burr Size 1

PN: CBSF1NF

- One piece precision CNC machined burr

Head Dia: 1/4"
Head Length: 11/16"
Overall Length: 2"



Non-ferrous Ball Nosed Tree Shaped Burr Size 3

PN: CBSF3NF

- Precision brazed CNC machined burr.

Head Dia: 3/8"
Head Length: 3/4"
Overall Length: 2 1/2"



Non-ferrous Ball Nosed Tree Shaped Burr Size 5

PN: CBSF5NF

- Precision brazed CNC machined burr.

Head Dia: 1/2"
Head Length: 1"
Overall Length: 2 3/4"



Non-ferrous Pointed Tree Shaped Burr Size 1

PN: CBSG1NF

- One piece precision CNC machined burr

Head Dia: 1/4"
Head Length: 11/16"
Overall Length: 2"



Non-ferrous Pointed Tree Shaped Burr Size 3

PN: CBSG3NF

- Precision brazed CNC machined burr.

Head Dia: 3/8"
Head Length: 3/4"
Overall Length: 2 1/2"



Non-ferrous Pointed Tree Shaped Burr Size 5

PN: CBSG5NF

- Precision brazed CNC machined burr.

Head Dia: 1/2"
Head Length: 1"
Overall Length: 2 3/4"



Non-ferrous Ball Nosed Cone Shaped Burr Size 1

PN: CBSL1NF

- One piece precision CNC machined burr

Head Dia: 1/4"
Head Length: 11/16"
Overall Length: 2"



Non-ferrous Ball Nosed Cone Shaped Burr Size 3

PN: CBSL3NF

- Precision brazed CNC machined burr.

Head Dia: 3/8"
Head Length: 1 3/16"
Overall Length: 3"



Non-ferrous Ball Nosed Cone Shaped Burr Size 5

PN: CBSL4NF

- Precision brazed CNC machined burr.

Head Dia: 1/2"
Head Length: 1 1/4"
Overall Length: 3"



Non-ferrous Cone Shaped Burr Size 3

PN: CBSM4NF

- Precision brazed CNC machined burr.

Head Dia: 3/8"
Head Length: 5/8"
Overall Length: 2 1/2"



The Non-ferrous or "Fast Mill" burr features a special cutting geometry & helix which clears burr flutes of sticky materials and is designed for rapid stock removal on softer non-ferrous materials & plastics.

Extended 1/4" Shank Double Cut Carbide Burrs

Extended Cylinder Shaped Burr Size 3

PN: CBSA3L6

- Precision brazed CNC machined burr.

Head Dia: 3/8"

Head Length: 3/4"

Overall Length: 6-3/4"



Extended Cylinder with End Cut Shaped Burr Size 3

PN: CBSB3L6

- Precision brazed CNC machined burr.

Head Dia: 3/8"

Head Length: 3/4"

Overall Length: 6-3/4"



Extended Radius Ended Cylinder Shaped Burr Size 3

PN: CBSC3L6

- Precision brazed CNC machined burr.

Head Dia: 3/8"

Head Length: 3/4"

Overall Length: 6-3/4"



Extended Ball Shaped Burr Size 3

PN: CBSD3L6

- Precision brazed CNC machined burr.

Head Dia: 3/8"

Head Length: 5/16"

Overall Length: 5-5/16"



Extended Oval Shaped Burr Size 3

PN: CBSE3L6

- Precision brazed CNC machined burr.

Head Dia: 3/8"

Head Length: 5/8"

Overall Length: 6-5/8"



Extended Ball Nosed Tree Shaped Burr Size 3

PN: CBSF3L6

- Precision brazed CNC machined burr.

Head Dia: 3/8"

Head Length: 3/4"

Overall Length: 6-3/4"



Extended Pointed Tree Shaped Burr Size 3

PN: CBSE3L6

- Precision brazed CNC machined burr.

Head Dia: 3/8"

Head Length: 3/4"

Overall Length: 6-3/4"



Extended Ball Nosed Cone Shaped Burr Size 3

PN: CBSE3L6

- Precision brazed CNC machined burr.

Head Dia: 3/8"

Head Length: 1-3/16"

Overall Length: 7-3/16"



Internally Threaded Nylon Pads

4" Nylon Internally Threaded M10 x 1.25 Pad

PN: FP20015

Disc Dia.: 100 MM
Pad Thickness: 15 MM
Pad Interface: Locknut
Thread Size: M10 x 1.25



4" Nylon Internally Threaded M10 x 1.5 Pad

PN: FP20020

Disc Dia.: 100 MM
Pad Thickness: 15 MM
Pad Interface: Locknut
Thread Size: M10 x 1.5



4-1/2" Nylon Internally Threaded M14 Pad

PN: FP20115

Disc Dia.: 115 MM
Pad Thickness: 15 MM
Pad Interface: Locknut
Thread Size: M14 x 2



5" Nylon Internally Threaded M14 Pad

PN: FP20210

Disc Dia.: 125 MM
Pad Thickness: 15 MM
Pad Interface: Locknut
Thread Size: M14 x 2



7" Nylon Internally Threaded Pad

M14 Internal Thread PN: FP20310

5/8" UNC Internal Thread PN: FP20305

Disc Dia.: 178 MM
Pad Thickness: 20 MM
Pad Interface: Locknut



7" Nylon Internally Threaded High Offset Pad

M14 Internal Thread PN: FP20410

5/8" UNC Internal Thread PN: FP20405

Disc Dia.: 178 MM
Pad Thickness: 27 MM
Pad Interface: Locknut



AIR TOOL Acc.

Parts & Accessories

5/8" UNC Locknut

PN: FP21412

• Suit FP20405
Thread Size: 5/8" UNC External



M10 x 1.5 Locknut D2

PN: FP21940

• Suit FP20020
Thread Size: M10 Internal



Internally Threaded Pads

125 MM Velcro Internally Threaded Pad

M14 Internal Thread PN: FP36305

- Moulded PUR completely protecting work surface from the backplate edge.

Disc Dia.: 125 MM
Pad Density: Soft
Pad Thickness: 12 MM
Pad Interface: Velcro
Max Speed: 12,250 RPM
Thread Size: M14



150 MM Velcro Internally Threaded Pad

M14 Internal Thread PN: FP36155

5/8" UNC Internal Thread PN: FP36160

- Moulded PUR completely protecting work surface from the backplate edge.

Disc Dia.: 150 MM
Pad Density: Medium
Pad Thickness: 12 MM
Pad Interface: Velcro
Max Speed: 10,200 RPM



180 MM Velcro Internally Threaded Pad

M14 Internal Thread PN: FP36170

5/8" UNC Internal Thread PN: FP36175

- Moulded PUR completely protecting work surface from the backplate edge.

Disc Dia.: 180 MM
Pad Density: Medium
Pad Thickness: 12 MM
Pad Interface: Velcro
Max Speed: 8,500 RPM



200 MM Velcro Internally Threaded Pad

M14 Internal Thread PN: FP36185

5/8" UNC Internal Thread PN: FP36190

- Moulded PUR completely protecting work surface from the backplate edge.

Disc Dia.: 200 MM
Pad Density: Medium
Pad Thickness: 12 MM
Pad Interface: Velcro
Max Speed: 6,500 RPM



Externally Threaded Pads

6" Velcro 5/16" Externally Threaded Pad

PN: FP32315

- Pads with a unique 16mm thick medium density foam layer.

Disc Dia.: 150 MM
Pad Density: Medium
Pad Thickness: 16 MM
Pad Interface: Velcro
Max Speed: 10,000 RPM
Thread Size: 5/16" Male UNF



6" Velcro Dust Free 5/16" Externally Threaded Pad

PN: FP32320

- Pads with a unique 16 mm thick medium density foam layer. Unique straight edged lip works well in tight corners and provides a longer lasting edge.

Disc Dia.: 150 MM
Pad Density: Medium
Pad Thickness: 16 MM
Pad Interface: 6 hole Velcro
Max Speed: 10,000 RPM
Thread Size: 5/16" Male UNF



6" Velcro Multi Fit E80/65/120 Dust Free Pad

PN: FP17099

- Side extraction vents offer additional dust extraction from the work surface, allowing you to work longer and easier without dust build up.
- Kit includes Festo & Makita fitting kit.

Disc Dia.: 150 MM
Pad Thickness: 14 MM
Pad Interface: Velcro
Max Speed: 12,000 RPM
Thread Size: M8 & 5/16" UNF



Interface Cushion Pads

150 MM Interface Cushion Pads

PN: FP32705

- Placed between pad & abrasive disc to achieve a more consistent surface finish.

Disc Dia.: 150 MM
Thickness: 12 MM
Max. speed: 13,000 RPM



150 MM Dust Free Interface Cushion Pads

PN: FP32710

- Placed between pad & abrasive disc to achieve a more consistent surface finish.

Disc Dia.: 150 MM
Thickness: 12 MM
Max. speed: 13,000 RPM



PSA / Stick-on Pads

150 MM PSA / Stick-on M14 Internal Pad

M14 Internal Thread PN: FP36055

5/8" UNC Internal Thread PN: FP36060

- For use with PSA adhesive pads
Moulded PUR completely protecting work surface from the backplate edge.

Disc Dia.: 150 MM
Pad Thickness: 12 MM
Pad Interface: PSA adhesive
Max Speed: 10,200 RPM
Thread Size: M14 or 5/8 UNC Internal



150 MM PSA / Stick-on 5/16" Externally Threaded Pad

PN: FP32015

- For use with PSA adhesive pads
Pads with a unique 16mm thick medium density foam layer.
- Unique straight edged lip works well in tight corners and provides a longer lasting edge.

Disc Dia.: 150 MM
Pad Thickness: 16 MM
Pad Interface: PSA adhesive
Max Speed: 10,000 RPM
Thread Size: 5/16" UNC External



150 MM PSA / Stick-on Dust Free 5/16" Externally Threaded Pad

PN: FP32020

- For use with PSA adhesive pads
Pads with a unique 16mm thick medium density foam layer.
- Unique straight edged lip works well in tight corners and provides a longer lasting edge.

Disc Dia.: 150 MM
Pad Thickness: 16 MM
Pad Interface: 6 hole Velcro
Max Speed: 10,000 RPM
Thread Size: 5/16" UNC External



Polishing Bonnets

125 MM Merino Wool Sheep Skin Polishing Bonnet

PN: FP40005

- 100% Merino sheep skin wool pile with tie cord.
- 32 MM Wool pile tie cord.

Disc Dia.: 125 MM
Thickness: 32 MM
Max. speed: 2,500 RPM



180 MM Merino Wool Sheep Skin Polishing Bonnet.

PN: FP40015

- 100% Merino sheep skin wool pile with tie cord.
- 32 MM Wool pile tie cord.

Disc Dia.: 180 MM
Thickness: 32 MM
Max. speed: 2,500 RPM



Backing Pads

5" Velcro Externally Threaded Pad

PN: F5505

Disc Dia.: 127 MM
Pad Thickness: 10 MM
Max Speed: 12,000 RPM
Thread Size:
5/16" UNC External



5" Dust Free Velcro Externally Threaded Pad

PN: F5565

Disc Dia.: 127 MM
Pad Thickness: 10 MM
Max Speed: 12,000 RPM
Thread Size:
5/16" UNC External



6" Velcro Externally Threaded Pad

PN: F6505

Disc Dia.: 150 MM
Pad Thickness: 10 MM
Max Speed: 12,000 RPM
Thread Size:
5/16" UNC External



6" Velcro Dust Free Externally Threaded Pad

PN: F6565

Disc Dia.: 150 MM
Pad Thickness: 10 MM
Max Speed: 12,000 RPM
Thread Size:
5/16" UNC External



6" PSA / Stick-on Externally Threaded Pad

PN: F6501

Disc Dia.: 150 MM
Pad Thickness: 10 MM
Max Speed: 12,000 RPM
Thread Size:
5/16" UNC External



6" PSA / Stick-on Dust Free Externally Threaded Pad

PN: F6561

Disc Dia.: 150 MM
Pad Thickness: 10 MM
Max Speed: 12,000 RPM
Thread Size:
5/16" UNC External



Turbo Rubber Backing Pads

5" Turbo Rubber Backing Pad

M14 Internal Thread PN: GTP162214

5/8" UNC Internal Thread PN: GTP162258

- Specially designed air veins provide cooling air to sanding surface. Lock Nut included.

Disc Dia.: 127 MM
Pad Thickness: 18 MM
Max Speed: 10,000 RPM



7" Turbo Rubber Backing Pad

M14 Internal Thread PN: GTP1737

5/8" UNC Internal Thread PN: GTP1736

- Specially designed air veins provide cooling air to sanding surface. Lock Nut included.

Disc Dia.: 179 MM
Pad Thickness: 18 MM
Max Speed: 8,500 RPM



Stripping Wheels

GP2001A Straight Wire Wheel

PN: GPA2001A-1

Wire Wheel to suit Rotary Rust & Paint Remover (PN: GP2001A)

Wire gauge: 0.5mm



GP2001A Hooked Wire Wheel

PN: GPA2001A-2

Hooked Wire Wheel to suit Rotary Rust & Paint Remover (PN: GP2001A)

Wire gauge: 0.55mm



GP2001A H-Duty Hooked Wire Wheel

PN: GPA2001A-3

H-Duty Hooked Wire Wheel to suit Rotary Rust & Paint Remover (PN: GP2001A)

Wire gauge: 0.7mm



GP2001A 4" Rubber Wheel

PN: GPA2001A-4

Rubber Wheel to suit Rotary Rust & Paint Remover (PN: GP2001A)

- Ideal for removing sign-writing vinyl, automotive pin stripes, stickers etc.



GP2001A 4" Stripping Wheel

PN: GPA2001A-5

Stripping Wheel to suit Rotary Rust & Paint Remover (PN: GP2001A)

- Woven construction



Mini Backing Pads

50 MM Quick-Lock Backing Pad

PN: GPA1523K

- Includes 50mm Backing Pad and 1/4" Shank Adaptor
- Speed Rating: 30,000 RPM



75 MM Quick-Lock Backing Pad

PN: GPA1524K

- Includes 75 MM Backing Pad and 1/4" Shank Adaptor
- Speed Rating: 20,000 RPM



50 MM Velcro Backing Pad

PN: GPA50

- Backing Pad: 50 MM
- Shank Dia.: 1/4"



50 MM Velcro Backing Pad

PN: GPA1518

- Thread Size: 1/4" Female UNF
- Pad Density: Medium
- Max Speed: 20,000 RPM



75 MM Velcro Backing Pad

PN: GPA1519

- Thread Size: 1/4" Female UNF
- Pad Density: Medium
- Max Speed: 10,000 RPM



75 MM Velcro Backing Pad

PN: GPA75

- Backing Pad: 75 MM
- Shank Dia.: 1/4"



Surface Preparation Kits

2" Preparation Kit

PN: GPK2

- Abrasive sanding pads made in the USA.
- 7 Piece kit includes: 1/4" shank, 2" backing pad, 24 grit 2" disc, 36 grit 2" disc, 50 grit 2" disc, Brown (Coarse) surface prep 2" disc & Maroon (Medium) surface prep 2" disc.



Quick-Lock 3" Preparation Kit

PN: GPK3

- Abrasive sanding pads made in the USA.
- 7 Piece kit includes: 1/4" shank, 3" backing pad, 24 grit 3" disc, 36 grit 3" disc, 50 grit 3" disc, Brown (Coarse) surface prep 3" disc & Maroon (Medium) surface prep 3" disc.



Mini Flap Wheel 8 Piece Kit

PN: GFWK

- Mini Flap Wheel kit includes: 25 MM x 12 MM, 120 Grit, x 1
- 25 MM x 25 MM, 40 Grit, x 1
- 25 MM x 25 MM, 80 Grit, x 1
- 40 MM x 25 MM, 60 Grit, x 1
- 40 MM x 25 MM, 80 Grit, x 1
- 50 MM x 25 MM, 80 Grit, x 1
- 50 MM x 25 MM, 60 Grit, x 2



Quick-Lock Abrasive Discs

50 MM Fine Blue Quick-Lock Abrasive Discs (Pack of 10)

PN: GPA1527X10

- Abrasive Discs are best used for surface conditioning on small areas. The Quick-Lock Abrasive Discs condition the surface without removing stock material, ideal for automotive applications.

Grit: Fine
Spindle: Quick-Lock
Disc size: 50mm



75 MM Fine Blue Quick-Lock Abrasive Discs (Pack of 10)

PN: GPA1530X10

- Abrasive Discs are best used for surface conditioning on small areas. The Quick-Lock Abrasive Discs condition the surface without removing stock material, ideal for automotive applications.

Grit: Fine
Spindle: Quick-Lock
Disc size: 75mm



50 MM Medium Maroon Quick-Lock Abrasive Discs (Pack of 10)

PN: GPA1528X10

- Abrasive Discs are best used for surface conditioning on small areas. The Quick-Lock Abrasive Discs condition the surface without removing stock material, ideal for automotive applications.

Grit: Medium
Spindle: Quick-Lock
Disc size: 50mm



75 MM Medium Maroon Quick-Lock Abrasive Discs (Pack of 10)

PN: GPA1531X10

- Abrasive Discs are best used for surface conditioning on small areas. The Quick-Lock Abrasive Discs condition the surface without removing stock material, ideal for automotive applications.

Grit: Medium
Spindle: Quick-Lock
Disc size: 75mm



50 MM Coarse Brown Quick-Lock Abrasive Discs Pack 10

PN: GPA1526X10

- Abrasive Discs are best used for surface conditioning on small areas. The Quick-Lock Abrasive Discs condition the surface without removing stock material, ideal for automotive applications.

Grit: Coarse
Spindle: Quick-Lock
Disc size: 50mm



75 MM Coarse Brown Quick-Lock Abrasive Discs (Pack 10)

PN: GPA1529X10

- Abrasive Discs are best used for surface conditioning on small areas. The Quick-Lock Abrasive Discs condition the surface without removing stock material, ideal for automotive applications.

Grit: Coarse
Spindle: Quick-Lock
Disc size: 75mm



Quick-Lock Mini Flap Discs

50 MM Zirconia Quick-Lock Mini Flap Discs (Pack of 5)

40 Grit PN: AB22012F40

80 Grit PN: AB22012F80

60 Grit PN: AB22012F60

120 Grit PN: AB22012F120

Pack of 5
Spindle: Quick-Lock
Disc size: 50 MM



75 MM Zirconia Quick-Lock Mini Flap Discs (Pack of 5)

40 Grit PN: AB22013F40

80 Grit PN: AB22013F80

60 Grit PN: AB22013F60

120 Grit PN: AB22013F120

Pack of 5
Spindle: Quick-Lock
Disc size: 75 MM



Quick-Lock Sanding Discs

50 MM Quick-Lock Sanding Discs (Pack of 5)

36 Grit PN: AB22012S36

80 Grit PN: AB22012S80

60 Grit PN: AB22012S60

120 Grit PN: AB22012S120

Pack of 5
Spindle: Quick-Lock
Disc size: 50 MM



75 MM Quick-Lock Sanding Discs (Pack of 5)

36 Grit PN: AB22013S36

80 Grit PN: AB22013S80

60 Grit PN: AB22013S60

120 Grit PN: AB22013S120

Pack of 5
Spindle: Quick-Lock
Disc size: 75 MM



Polishing Discs & Wheels

1/4" Shank Tapered Spindle

PN: TS12

Tapered Spindle with round shank. For use with Calico Polishing Mops.

Diameter: 16 MM
Shank Dia.: 1/4



50 MM Calico Polish Mop

PN: PMC50

Calico Polishing Mop for use with Taper 1/4" Spindle.

Diameter: 50 MM
Width: 20 MM
Mount: Tapered Spindle



50 MM Quick-Lock Felt Polishing Pad

PN: GPA1525

• Hard felt for extended pad life

Disc Dia: 50 MM
Mount: Quick-Lock



75 MM Quick-Lock Felt Polishing Pad

PN: GPA1575

• Hard felt for extended pad life

Disc Dia: 75 MM
Mount: Quick-Lock Pad



Quick-Lock Stripping Discs

50 mm Quick-Lock Stripping Discs

Size: 10 x 50 mm
Pack of 2

PN: ABCH902



75 mm Quick-Lock Stripping Discs

Size: 10 x 75 mm
Pack of 2

PN: ABCH903

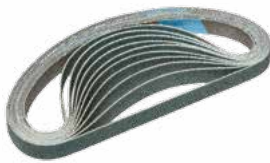


Sanding Belts

330 mm Zirconia Sanding Belts

Belt Size: 10 x 330 mm
Pack of 10

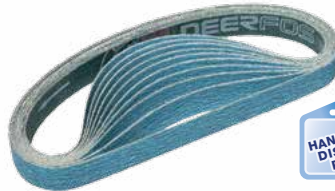
Grit	PN:
40	SIP10MMXP40
60	SIP10MMXP60
80	SIP10MMXP80
100	SIP10MMXP100
120	SIP10MMXP120



520 mm Zirconia Sanding Belts

Belt Size: 20 x 520 mm
Pack of 10

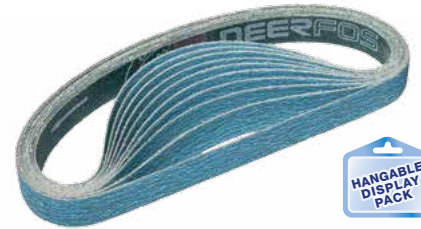
Grit	PN:
40	SIP20MMXP40
60	SIP20MMXP60
80	SIP20MMXP80
100	SIP20MMXP100
120	SIP20MMXP120



540 mm Zirconia Sanding Belts

Belt Size: 30 x 540 mm
Pack of 10

Grit	PN:
40	SIP30MMXP40
60	SIP30MMXP60
80	SIP30MMXP80



Abrasive Belts

330 mm Blue Abrasive Belts

Fine Grit: PN: SBB10BLUE

Coarse Grit: PN: SBB10BROWN

The Abrasive Belts condition the surface without removing stock material, ideal for automotive applications.

Belt Size: 10 x 330 mm
Pack of 5



460 mm Blue Abrasive Belts

Fine Grit: PN: SBB10X460BLUE

Coarse Grit: PN: SBB10X460BROWN

The Abrasive Belts condition the surface without removing stock material, ideal for automotive applications.

Belt Size: 10 x 460 mm
Pack of 5



520 mm Blue Abrasive Belts

Fine Grit: PN: SBB20BLUE

Coarse Grit: PN: SBB20BROWN

The Abrasive Belts condition the surface without removing stock material, ideal for automotive applications.

Belt Size: 20 x 520 mm
Pack of 5



Air Hammer Chisels

30 MM Scraper Long Chisel

PN: HAC-102



Scraper Chisel 30 MM
Length: 180 MM
Shank Dia.: 10.2 MM

30 MM Scraper Chisel

PN: HAC-109



Wide Chisel & Scraper 30 MM
Length: 180 MM
Shank Dia.: 10.2 MM

50 MM Scraper Chisel

PN: HAC-103



Scraper Chisel 50 MM
Length: 180 MM
Shank Dia.: 10.2 MM

Special Panel Cutter

PN: HAC-112



Special Panel Cutter
Length: 180 MM
Shank Dia.: 10.2 MM

Tail Pipe Cut-Off Chisel

PN: HAC-107



Tail Pipe Cut-Off Chisel
Length: 180 MM
Shank Dia.: 10.2 MM

Sheet Metal Cutter

PN: HAC-126



Sheet Metal Cutter
Length: 180 MM
Shank Dia.: 10.2 MM

Cold Chisel

PN: HAC-130



Cold Chisel 20 MM
Length: 180 MM
Shank Dia.: 10.2 MM

Tall Tapered Punch

PN: HAC-136



Long Tapered Punch
Length: 180 MM
Shank Dia.: 10.2 MM

Single Blade Cutter

PN: HAC-133



Single Blade Cutter
Length: 120 MM
Shank Dia.: 10.2 MM

Air Hammer Chisel Sets

7" Chisel 5 Piece Set

PN: GPA57

Set includes Panel Cutter, 20mm Cold Chisel, Single Blade Cutter, Rivet Cutter and Tapered Punch.
Shank Dia.: 10.2 MM
Length: 180 MM



5" Chisel 4 Piece Set

PN: PT2301

Cold Chisel, Single Blade Cutter, Tapered Punch, Rivet Cutter
4 Piece Chisel Set
Length: 120 MM



AIR TOOL Acc.

Chisel Retainers

Heavy Duty Quick Change Spring Retainer

PN: GPA2311

Fits most standard Air Hammers & chisels
Pull back collar for quick and easy tool change
Designed for Heavy Duty use



Spring Retainer

PN: GPA70

Air Hammer Spring Retainer
Suitable for 10.2 MM round chisels



Spring Retainer 2 piece

PN: GPA70X2

2 x Air Hammer Spring Retainer pack
Suitable for 10.2 MM round chisels



Air Saw Blades & Cut Off Discs

Air Saw Blades

18 TPI PN: PT301A18

24 TPI PN: PT301A24

32 TPI PN: PT301A32

• Bi-metal

Shank Width: 12.7 MM
Length: 92 MM
Pack of 5.



3" Cut Off Discs Pack of 5

PN: CO007K

• Discs only 0.8 MM thick.
Cuts quicker and cleaner
saving you time and money.

Ø75 x 0.8 x Ø9.53 MM
Speed Rated to
25,000 RPM



Deep Impact Sockets



Drive Deep Impact Sockets

- Made from Chrome Molybdenum Steel CR-MO.
- Meets or exceeds DIN & ANSI standards Suitable for use with Impact wrenches
- Socket size stamped on shank
- 6 point drive



3/8" Drive Deep Impact Socket

Size	PN:
8 MM	GXLS3808
10 MM	GXLS3810
12 MM	GXLS3812
13 MM	GXLS3813
14 MM	GXLS3814
15 MM	GXLS3815
16 MM	GXLS3816
17 MM	GXLS3817
18 MM	GXLS3818
19 MM	GXLS3819
20 MM	GXLS3820
21 MM	GXLS3821
22 MM	GXLS3822
24 MM	GXLS3824

1/2" Drive Deep Impact Socket

Size	PN:
10 MM	GXLS1210
12 MM	GXLS1212
13 MM	GXLS1213
14 MM	GXLS1214
15 MM	GXLS1215
16 MM	GXLS1216
17 MM	GXLS1217
18 MM	GXLS1218
19 MM	GXLS1219
21 MM	GXLS1221
22 MM	GXLS1222
24 MM	GXLS1224
27 MM	GXLS1227
30 MM	GXLS1230
32 MM	GXLS1232

3/4" Drive Deep Impact Socket

Size	PN:
17 MM	GXLS3417
18 MM	GXLS3418
19 MM	GXLS3419
21 MM	GXLS3421
22 MM	GXLS3422
24 MM	GXLS3424
27 MM	GXLS3427
30 MM	GXLS3430
32 MM	GXLS3432
33 MM	GXLS3433
34 MM	GXLS3434
36 MM	GXLS3436
38 MM	GXLS3438

Budd Wheel & Flip Sockets

3/4" Drive Budd Wheel Sockets

- 17 MM Square PN: GXBWS3417
- 19 MM Square PN: GXBWS3419
- 21 MM Square PN: GXBWS3421

This two-in-one extra deep budd socket removes both nut and stud with one socket on dual-wheel applications. To suit Isuzu, Hino, Mitsubishi, Fuso and most European trucks.



1/2" Drive 17 / 19 MM Flip Socket

PN: GXFS121719

Perfect for metric wheel lug nuts. Simply flip the socket for alternative size. For use with extended anvil impact wrenches or extension bars.

Arbor Size: 1/2" x 1-1/2"
Size: 17 / 19 MM
Min. Arbor Length: 1-1/2"



Deep Impact Socket Sets

- Made from Chrome Molybdenum Steel CR-MO.
- Socket size stamped on shank

- Meets or exceeds DIN & ANSI standards
- Suitable for use with Impact wrenches
- 6 point drive

- Supplied in Blow Moulded Carry Case

3/8" Metric 8 Piece Socket Set

PN: GX838SSM

Sizes: 8, 10, 11, 12,
13, 15, 17 & 19 MM



3/8" Imperial 8 Piece Socket Set

PN: GX838SSI

Sizes: 5/16", 3/8", 7/16", 1/2",
9/16", 5/8", 11/16" & 3/4"

1/2" Metric 13 Piece Socket Set

PN: GX1312SSM

Sizes: 10, 12, 13, 14, 15, 17, 18,
19, 21, 22, 24, 27 & 30 MM



1/2" Imperial 13 Piece Socket Set

PN: GX1312SSI

Sizes 7/16, 1/2, 9/16, 5/8, 11/16,
3/4, 13/16, 7/8, 15/16, 1, 1-1/16,
1-1/8 & 1-1/4"

3/4" Metric 8 Piece Socket Set

PN: GX834SSM

Sizes: 26, 27, 29, 30, 32,
35, 36 and 38 MM



3/4" Imperial 8 Piece Socket Set

PN: GX834SSI

Sizes: 1, 1-1/16, 1-1/8, 1-1/4,
1-5/16, 1-3/8, 1-7/16 & 1-1/2"

1" Metric Socket 9 Piece Drive Set

PN: GX91SSM

Sizes: 24, 27, 30, 32, 33,
36, 38, 41 & 46 MM



1" Imperial Drive 9 Piece Socket Set

PN: GX91SSI

Sizes 1, 1-1/8, 1-1/4, 1-3/8, 1-1/2,
1-5/8, 1-3/4, 1-7/8 & 2"

Impact Adapter Sets

5 Piece Impact Adapter Set

PN: GX1A5

- Made from Chrome Molybdenum Steel CR-MO.
- Meets or exceeds DIN & ANSI standards.
- Suitable for use with Impact wrenches.
- Supplied on socket rail

Set includes:

1/4" Female to 3/8" Male
1/2" Female to 3/8" Male
3/8" Female to 1/4" Male
1/2" Female to 3/4" Male
3/8" Female to 1/2" Male



5 Piece Std Adapter Set

PN: GX5AS

- Chrome Vanadium Steel
- Supplied on socket rail

Set includes:

1/4" Female to 3/8" Male
1/2" Female to 3/8" Male
3/8" Female to 1/4" Male
1/2" Female to 3/4" Male
3/8" Female to 1/2" Male



Hex Bit Impact Socket Sets

1/2" Drive 8 Piece Metric Hex Bit Set

PN: GX12HBSM

- Made from SNCM 8660 Steel which allows 20% more torque than CR-MO.

Socket Length: 60 MM

Sizes: H5, H6, H8, H10, H12, H14, H17 & H19 MM



1/2" Drive 8 Piece Imperial Hex Bit Set

PN: GX12HBSI

- Made from SNCM 8660 Steel which allows 20% more torque than CR-MO.

Socket Length: 78 MM

Sizes: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8" & 3/4"



Impact Extension Bars

- Features a domed square drive anvils to allow sight angle change between socket and extension bar

- Ideal for accessing hard to reach, off centre fasteners
- Made from Chrome Molybdenum Steel CR-MO.

- Meets or exceeds DIN & ANSI standards.
- Suitable for use with Impact wrenches.

1/4" Drive Wobble Impact Extension 4 Piece Bar Set

PN: GXWEBS14

Set includes: 3", 6", 10" & 12" bars



3/8" Drive Wobble Impact Extension 4 Piece Bar Set

PN: GXWEBS38

Set includes: 3", 6", 10" & 18" bars



1/2" Drive Wobble Impact Extension 4 Piece Bar Set

PN: GXWEBS12

Set includes: 3", 5", 10" & 18" bars



Universal Impact Joints

3/8" Drive Universal Joint

PN: GX38U

- Suitable for use with Impact wrenches
- Made from Chrome Molybdenum Steel CR-MO.

Overall Length 50 mm



1/2" Drive Universal Joint

PN: GX12U

- Suitable for use with Impact wrenches
- Made from Chrome Molybdenum Steel CR-MO.

Overall Length 63 mm



3/4" Drive Universal Joint

PN: GX34U

- Suitable for use with Impact wrenches
- Made from Chrome Molybdenum Steel CR-MO.

Overall Length 90 mm



AIR TOOL Acc.

Impact Spinner Extension Bars

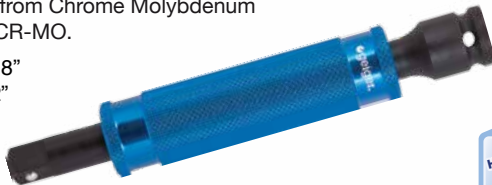
The ergonomic roller-bearing grab handle protects your hand from friction burns, burrs and "glove grab". Its use also helps to balance heavy Impact tools. The aluminum alloy handle is permanently mounted on the CrMo extension.

1/2" Drive 8" Spin Extension Bar

PN: GX12SE

- Made from Chrome Molybdenum Steel CR-MO.

Length: 8"
Size 1/2"



3/4" Drive 10" Spin Extension Bar

PN: GX34SE

- Made from Chrome Molybdenum Steel CR-MO.

Length: 10"
Size 3/4"



Thin Wall Impact Sockets & Torque Bar Sets

1/2" Drive Thin Wall Deep Impact Sockets Set

PN: GPA1594

- Teflon sleeved sockets are ideal for protecting alloy wheels surfaces from scuffing.
- Cast with Chrome molybdenum steel.

Sizes: 17, 19 & 21 MM



1/2" Drive Socket & Torque Extension bar Set

PN: GPA1596

- Torque bars prevent over-tightening
- Each torque bar is set to a specific torque rating
- Teflon sleeved sockets are ideal for protecting alloy wheels surfaces from scuffing.
- Chrome molybdenum steel.

8 Piece set includes:
Thin Wall Impact Sockets sizes:
17, 19, 21 MM & 13/16"
Torque Bars ratings:
65, 80, 100 & 120 Ft/lbs



Air Filter Regulator & Lubricators

1/4" Mini Filter Regulator & Lubricator

PN: THBC202

- Compact design.
- Convenient automatic water drain release
- Extend air tool service life with an integrated automatic lubricator and water vapor removal filter.

Port Size: 1/4" NPT
 Max Input Press.: 150 PSI
 Output Press.: 7-142 PSI
 Measuring Units: PSI, kg/cm²
 Max Flow: 38.85 CFM
 Operating Temp. Range: 5-60 °C
 Drain Capacity: 15 mL
 Filter Element: 5 µm
 Oil Capacity: 30 mL



1/4" Mini Filter Regulator

PN: THBFR212

Port Size: 1/4" NPT
 Max Input Press.: 280 PSI
 Output Press.: 7-142 PSI
 Measuring Units: PSI, kg/cm²
 Max Flow: 38.85 CFM
 Operating Temp. Range: 5-60 °C
 Drain Capacity: 15 mL
 Filter Element: 5 µm



1/4" Filter Regulator & Lubricator

PN: THBFLR802

- Convenient drain release
- Extend air tool service life with an integrated automatic lubricator and water vapor removal filter.
- Steel bowl guards offers impact protection

Port Size: 1/4" NPT
 Max Input Press.: 215 PSI
 Output Press.: 7-150 PSI
 Measuring Units: PSI, kg/cm²
 Max Flow: 61.8 CFM
 Operating Temp. Range: 5-60 °C
 Drain Capacity: 80 mL
 Filter Element: 5 µm
 Oil Capacity: 125 mL



3/8" Filter Regulator & Lubricator

PN: THBFRL803

- Convenient drain release
- Extend air tool service life with an integrated automatic lubricator and water vapor removal filter.
- Steel bowl guards offers impact protection

Port Size: 3/8" NPT
 Max Input Press.: 215 PSI
 Output Press.: 7-150 PSI
 Measuring Units: PSI, kg/cm²
 Max Flow: 88.29 CFM
 Operating Temp. Range: 5-60 °C
 Drain Capacity: 80 mL
 Filter Element: 5 µm
 Oil Capacity: 125 mL



1/2" Filter Regulator & Lubricator

PN: THBFLR804

- Convenient drain release
- Extend air tool service life with an integrated automatic lubricator and water vapor removal filter.
- Steel bowl guards offers impact protection

Port Size: 1/2" NPT
 Max Input Press.: 215 PSI
 Output Press.: 7-150 PSI
 Measuring Units: PSI, kg/cm²
 Max Flow: 105.94 CFM
 Operating Temp. Range: 5-60 °C
 Drain Capacity: 80 mL
 Filter Element: 5 µm
 Oil Capacity: 125 mL



Air Filter Regulators

1/4" Filter Regulator

PN: THBFR802

Port Size: 1/4" NPT
 Max Input Press.: 215 PSI
 Output Press.: 7-150 PSI
 Measuring Units: PSI, kg/cm²
 Max Flow: 61.8 CFM
 Operating Temp. Range: 5-60 °C
 Drain Capacity: 80 mL
 Filter Element: 5 µm



3/8" Filter Regulator

PN: THBFR803

Port Size: 3/8" NPT
 Max Input Press.: 215 PSI
 Output Press.: 7-150 PSI
 Measuring Units: PSI, kg/cm²
 Max Flow: 88.29 CFM
 Operating Temp. Range: 5-60 °C
 Drain Capacity: 80 mL
 Filter Element: 5 µm



1/2" Filter Regulator

PN: THBFR804

Port Size: 1/2" NPT
 Max Input Press.: 215 PSI
 Output Press.: 7-150 PSI
 Measuring Units: PSI, kg/cm²
 Max Flow: 105.94 CFM
 Operating Temp. Range: 5-60 °C
 Drain Capacity: 80 mL
 Filter Element: 5 µm



3/4" Hi-Flow Filter Regulator

PN: THBFR926A

- Auto-drain

Port Size: 3/4" NPT
 Max Input Press.: 250 PSI
 Output Press.: 7-142 PSI
 Measuring Units: PSI, kg/cm²
 Max Flow: 162.45 CFM
 Operating Temp. Range: 5-60°C
 Drain Capacity: 300 mL
 Filter Element: 5 µm



1" Hi-Flow Filter Regulator

PN: THBFR928A

- Auto-drain

Port Size: 1" NPT
 Max Input Press.: 250 PSI
 Output Press.: 7-142 PSI
 Measuring Units: PSI, kg/cm²
 Max Flow: 183.64 CFM
 Operating Temp. Range: 5-60°C
 Drain Capacity: 300 mL
 Filter Element: 5 µm



Air Regulators

1/4" Regulator

PN: THBR202

Port Size: 1/4" NPT
Max Input Press.: 150 PSI
Output Press.: 7-142 PSI
Measuring Units: PSI, kg/cm²
Max Flow: 38.85 CFM
Operating Temp. Range: 5-60 °C
Filter Element: 5 µm



In-line Pressure Regulator on page 66

In-line Pressure Regulator

PN: SG017A

Quickly and easily make
air pressure adjustments
independently of air supply.
Suits Prowin Spray Guns.



Air Lubricators

1/4" Air Lubricator

PN: THBL802

Port Size: 1/4" NPT
Max Input Press.: 215 PSI
Max Flow: 61.8 CFM
Operating Temp. Range: 5-60 °C
Oil Capacity: 125 mL



3/8" Air Lubricator

PN: THBL803

Port Size: 3/8" NPT
Max Input Press.: 215 PSI
Max Flow: 88.29 CFM
Operating Temp. Range: 5-60 °C
Oil Capacity: 125 mL



1/2" Air Lubricator

PN: THBL804

Port Size: 1/2" NPT
Max Input Press.: 215 PSI
Max Flow: 105.94 CFM
Operating Temp. Range: 5-60 °C
Oil Capacity: 125 mL



Air Filters

1/2" Auto Drain Filter

PN: THBD704A

- Convenient automatic drain
with manual backup.

Port Size: 1/2" NPT
Max Input Press.: 225 PSI
Operating Temp. Range: 5-60 °C
Drain Capacity: 27 mL
Filter Element: 40 µm



1/2" Filter

PN: THBF804

- Steel bowl offers
impact protection

Port Size: 1/2" NPT
Max Input Press.: 215 PSI
Max Flow: 105.94 CFM
Operating Temp. Range: 5-60 °C
Drain Capacity: 80 mL
Filter Element: 5 µm



Pneumatics Control Unit Parts & Accessories

Filter Regulator Bowl Assembly

PN: THBBOWL

Bowl Assembly to suit:

- Filter Regulator & Lubricators (THBFLR800 Series)
- Filter Regulators (THBFR800 Series)
- 1/2" Filter (THBF804)



800 Series Filter regulator Press. Gauge

PN: THBPG15BIP

Suits 800 Series Filter regulators

Range: 0-150 PSI

Gauge Size: 1.5"

Measuring Units: PSI, kg/cm²



Premium Compressor Oil

PN: COMPOIL1

Geiger Premium Compressor Oil is blended from highly refined thermally stable base oils and specially formulated additives which gives superior protection against oxidation, wear and corrosion. These additives also provide excellent water and air separation, to ensure reliable operation with minimal foaming and emulsification.



Nail Gun Oil

See more on Page 49

250 ml Basso Nail Gun Oil

250 ml PN: BO250

Basso Premium Nail Gun Oil is formulated to prolong the performance of your Basso nail gun in both warm and cold climates. Adding only a couple of drops daily to the air inlet will greatly reduce internal wear and maintain the integrity of the gaskets and seals of Basso nail guns.



In-line Water Separators & Oiler

In-line Water Separator

PN: GPA1512

- In-line Water Separator is an ideal solution for maintaining quality control when painting 2-Pack or oil based paints.

Working Press.: 90 PSI

1/4" NPT Female to

1/4" NPT Male



Mini In-line Oiler

PN: GPA1025

- An in-line pneumatic oiler will ensure your air tool will operate with the correct level of lubrication.

1/4" NPT Female to

1/4" NPT Male

Capacity: 15 mL



Hose Reels

12 Metre Wall Mountable Hose Reel

PN: GPHR1012

- Sheet metal housing
- Wall Mountable
- 12 metre hose range
- Polyurethane braided hose
- 360° swivel inlet
- 180° swivel wall mount
- Stopper on hose
- Brass swivel points

Max Press.: 213 PSI

Hose Length: 12 Metres

Hose Dia.: 10 MM



20 Metre Manual Hose Reel

PN: GPHR1220

- High quality Polyurethane braided hose
- Space Saving Foldable Handle
- 360 degree swivel base

Includes wall hanging bracket.

Hose Size: 20 Metre x 11 MM ID



Recoil Air Hoses



- Made from kink resistant polyurethane

10 MM Recoil Hoses

2 Metre Length PN: GPH1003LBHL

5 Metre Length PN: GPH1006LBHL

6 Metre Length PN: GPH1008LBHL

8 Metre Length PN: GPH1010LBHL

6.5 MM ID x 10 MM OD

Light Blue Hose

Fittings: Japanese compatible

One Touch couplings

12 MM Recoil Hoses

5 Metre Length PN: GPH1206LBHL

6 Metre Length PN: GPH1208LBHL

8 Metre Length PN: GPH1210LBHL

10 Metre Length PN: GPH1212LBHL

8 MM ID x 12 MM OD

Light Blue Hose

Fittings: Japanese compatible

One Touch couplings

Fitted Air Hoses



Hose lengths are available without fittings.

- 10 MM Air Hose (bare) rolls up to 300 meters
- 12 MM Air Hose (bare) rolls up to 100 meters

10 MM Fitted Air Hose

10 Metre Length PN: AH1010F

20 Metre Length PN: AH1020F

30 Metre Length PN: AH1030F

Air Hose 10 MM ID

Length: 20 m

Fittings: Japanese compatible

One Touch couplings

12 MM Fitted Air Hose

20 Metre Length PN: AH1220F

30 Metre Length PN: AH1230F

Air Hose 12 MM ID

Length: 20 m

Fittings: Japanese compatible

One Touch couplings

One Touch Coupling Fitting Kits

10 MM Fitting Kit PN: AHPACK

12 MM Fitting Kit PN: AHPACK12

Kit includes Japanese compatible Plug & Socket, two Hose Clamps



Manifolds

2 Way Cluster Bare Manifold

1/4" inlet PN: GPAYA2

1/2" inlet PN: GPAYA122

Bare 2 way Cluster Manifold
Inlet: 1/4" or 1/2" NPT
Outlets: 1/4" NPT



3 Way Cluster Bare Manifold

1/4" inlet PN: GPAYA3

1/2" inlet PN: GPAYA123

Bare 3 way Cluster Manifold
Inlet: 1/4" or 1/2" NPT
Outlets: 1/4" NPT



2 Way Quick Coupler Cluster Manifold

PN: GPA1513

Inlet: 1/4" NPT
Outlets: 2, Japanese Type Coupling Sockets



3 Way Quick Coupler Cluster Manifold

PN: GPA1514

Inlet: 1/4" NPT
Outlets: 3, Japanese Type Coupling Sockets



2- way In-line Manifold - Bare

PN: GPATA2

- Durable blue anodized finish

Bare 2-way In-line Manifold
4 x 1/4" NPT inlet/outlets
Includes 2, 1/4" NPT plugs.



3- way In-line Manifold - Bare

PN: GPATA3

- Durable blue anodized finish

Bare 3-way In-line Manifold
5 x 1/4" NPT inlet/outlets
Includes 2, 1/4" NPT plugs.

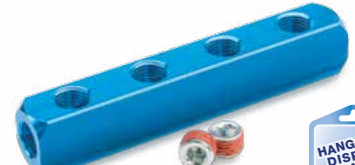


4- way In-line Manifold - Bare

PN: GPATA4

- Durable blue anodized finish

Bare 4-way In-line Manifold
6 x 1/4" NPT inlet/outlets
Includes 2, 1/4" NPT plugs.



2 Way Quick Coupler In Line Manifold

PN: GPA1515

- Durable blue anodized manifold
- Includes 1 x 1/4" NPT plug

Inlet: 1/4" NPT
Outlets: 2 Japanese Type Coupling Sockets



3 Way Quick Coupler In Line Manifold

PN: GPA1516

- Durable blue anodized manifold
- Includes 1 x 1/4" NPT plug

Inlet: 1/4" NPT
Outlets: 3 Japanese Type Coupling Sockets



4 Way Quick Coupler In Line Manifold

PN: GPA1517

- Durable blue anodized manifold
- Includes 1 x 1/4" NPT plug

Inlet: 1/4" NPT
Outlets: 4 Japanese Type Coupling Sockets



In-line Air Regulators

Air Regulator Male plug to 1/4" male

PN: GPA1011

Air Regulator Male plug to 1/4" male
Regulates Air Flow.



Air Regulator 1/4"

PN: GPA1010

Air Regulator 1/4" - In-line Type
1/4" Male to 1/4" Female
Regulates Air Flow.



Air Regulator Male plug to 1/4" female

PN: GPA1012

Air Regulator Male plug to 1/4" female
Regulates Air Flow.



Swivel Couplings

1/4" Swivel Coupling

PN: GPA9100A

1/4" NPT Female to 1/4" NPT Male thread
Range: 360°



1/4" Ball Joint Coupling Plug

PN: B05

1/4" NPT Male thread to Japanese Style Plug
Range: 22°



3/8" Ball Joint Coupling Plug

PN: B07

3/8" NPT Male thread to Japanese Style Plug
Range: 22°



Coupling Sockets to Hose Fitting

6.5 mm ID x 10 mm OD Hose Fitting to Japanese Style One Touch Socket

PN: THB30SPT

- Slim design with locking nut which eliminates the need for a hose clamp. Ideal for Polyethylene hose.

6.5 mm ID x 10 mm OD Hose Fitting with locking nut to Japanese Style Socket



8 mm ID x 12 mm OD Hose Fitting to Japanese Style One Touch Socket

PN: THB40SPT

- Slim design with locking nut which eliminates the need for a hose clamp. Ideal for Polyethylene hose.

8 mm ID x 12 mm OD Hose Fitting with locking nut to Japanese Style Socket



6.5 mm ID x 10 mm OD Hose Fitting to Japanese Style Plug

PN: THB30PPA

- Slim design with locking nut which eliminates the need for a hose clamp. Ideal for Polyethylene hose.

6.5 mm ID x 10mm OD Hose Fitting with locking nut to Japanese Style Plug



8 mm ID x 12 mm OD hose fitting to Japanese Style Plug

PN: THB40PPA

- Slim design with locking nut which eliminates the need for a hose clamp. Ideal for Polyethylene hose.

8 mm ID x 12 mm OD Hose Fitting with locking nut to Japanese Style Plug



Coupling Plugs to Female Thread

1/4" Female to Japanese Style Plug

PN: THB20PFA

1/4" Female thread to Japanese Style Plug



3/8" Female to Japanese Style Plug

PN: THB30PFA

3/8" Female thread to Japanese Style Plug



1/2" Female to Japanese Style Plug

PN: THB40PFA

1/2" Female thread to Japanese Style Plug



Coupling Plugs to Male Thread

1/4" Male to Japanese Style Plug

PN: THB20PMA

1/4" Male Threaded Fitting to Japanese Style Plug



3/8" Male to Japanese Style Plug

PN: THB30PMA

3/8" Male Threaded Fitting to Japanese Style Plug



1/2" Male to Japanese Style Plug

PN: THB40PMA

1/2" Hose Threaded Fitting to Japanese Style Plug



Coupling Plug to Hose Fitting

5/16" Hose Fitting to Japanese Style Plug

PN: THB20PHA

5/16" ID Hose Fitting to Japanese Style Plug



3/8" Hose Fitting to Japanese Style Plug

PN: THB30PHA

3/8" ID Hose Fitting to Japanese Style Plug



1/2" Hose Fitting to Japanese Style Plug

PN: THB40PHA

1/2" ID Hose Fitting to Japanese Style Plug



One Touch Coupling Sockets to Female Thread

1/4" Female to Japanese Style One Touch Socket

PN: THB20SFT

1/4" Female thread to Japanese Style One Touch Socket



3/8" Female to Japanese Style One Touch Socket

PN: THB30SFT

3/8" Female thread to Japanese Style One Touch Socket



1/2" Female to Japanese Style One Touch Socket

PN: THB40SFT

1/2" Female thread to Japanese Style One Touch Socket



One Touch Coupling Sockets to Male Thread

1/4" Male to Japanese Style One Touch Socket

PN: THB20SMT

1/4" Male Threaded Fitting to Japanese Style One Touch Socket



3/8" Male to Japanese Style One Touch Socket

PN: THB30SMT

3/8" Male Threaded Fitting to Japanese Style One Touch Socket



1/2" Male to Japanese Style One Touch Socket

PN: THB40SMT

1/2" Male Threaded Fitting to Japanese Style One Touch Socket

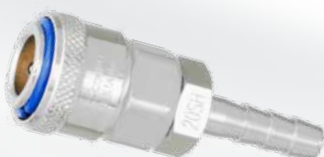


One Touch Coupling Socket to Hose Fitting

5/16" Hose Fitting to Japanese Style One Touch Socket

PN: THB20SHT

5/16" ID Hose Fitting to Japanese Style One Touch Socket



3/8" Hose Fitting to Japanese Style One Touch Socket

PN: THB30SHT

3/8" ID Hose Fitting to Japanese Style One Touch Socket



1/2" Hose Fitting to Japanese Style One Touch Socket

PN: THB40SHT

1/2" ID Hose Fitting to Japanese Style One Touch Socket



Coupling Sockets to Male Thread

1/4" Male Thread to Nitto Coupling Socket

PN: NIT20SM

Coupling: Nitto Coupling Socket
 Fitting: 1/4" Male Thread
 Working pressure: 213 PSI
 Pressure resistance: 284 PSI
 Weight: 101 g



3/8" Male Thread to Nitto Coupling Socket

PN: NIT30SM

Coupling: Nitto Coupling Socket
 Fitting: 3/8" Male Thread
 Working pressure: 213 PSI
 Pressure resistance: 284 PSI
 Weight: 108 g



1/2" Male Thread to Nitto Coupling Socket

PN: NIT40SM

Coupling: Nitto Coupling Socket
 Fitting: 1/2" Male Thread
 Working pressure: 213 PSI
 Pressure resistance: 284 PSI
 Weight: 131 g



One Touch Coupling Sockets to Male Thread

1/4" Male Thread to One Touch Coupling Socket

PN: NC20020SM

Coupling: One Touch Coupling Socket
 Fitting: 1/4" Male Thread
 Working pressure: 213 PSI
 Pressure resistance: 284 PSI
 Weight: 89 g



3/8" Male Thread to One Touch Coupling Socket

PN: NC20030SM

Coupling: One Touch Coupling Socket
 Fitting: 3/8" Male Thread
 Working pressure: 213 PSI
 Pressure resistance: 284 PSI
 Weight: 91 g



1/2" Male Thread to One Touch Coupling Socket

PN: NC20040SM

Coupling: One Touch Coupling Socket
 Fitting: 1/2" Male Thread
 Working pressure: 213 PSI
 Pressure resistance: 284 PSI
 Weight: 102 g



Coupling Plugs to Male Thread

1/4" Male Thread to Nitto Coupling Plug

PN: NIT20PM

Coupling: Nitto Coupling Plug
 Fitting: 1/4" Male Thread
 Working pressure: 213 PSI
 Pressure resistance: 284 PSI
 Weight: 25 g



3/8" Male Thread to Nitto Coupling Plug

PN: NIT30PM

Coupling: Nitto Coupling Plug
 Fitting: 3/8" Male Thread
 Working pressure: 213 PSI
 Pressure resistance: 284 PSI
 Weight: 43 g



1/2" Male Thread to Nitto Coupling Plug

PN: NIT40PM

Coupling: Nitto Coupling Plug
 Fitting: 1/2" Male Thread
 Working pressure: 213 PSI
 Pressure resistance: 284 PSI
 Weight: 59 g



1/8" Male Thread to Nitto Coupling Plug

PN: NIT10PM

Coupling: Nitto Coupling Plug
 Fitting: 1/8" Male Thread
 Working pressure: 213 PSI
 Pressure resistance: 284 PSI
 Weight: 22 g



One Touch Coupling Plugs to Male Thread

1/4" Male Thread to Nitto Rotary Plug

PN: NITRL20PM

Coupling: Nitto Rotary Plug
Fitting: 1/4" Male Thread
Working pressure: 213 PSI
Pressure resistance: 284 PSI



3/8" Male Thread to Nitto Rotary Plug

PN: NITRL30PM

Coupling: Nitto Rotary Plug
Fitting: 3/8" Male Thread
Working pressure: 213 PSI
Pressure resistance: 284 PSI



Coupling Sockets to Female Thread

1/4" Female Thread to Nitto Coupling Socket

PN: NIT20SF

Coupling: Nitto Coupling Socket
Fitting: 1/4" Female Thread
Working pressure: 213 PSI
Pressure resistance: 284 PSI
Weight: 95 G



3/8" Female Thread to Nitto Coupling Socket

PN: NIT30SF

Coupling: Nitto Coupling Socket
Fitting: 3/8" Female Thread
Working pressure: 213 PSI
Pressure resistance: 284 PSI
Weight: 103 G



1/2" Female Thread to Nitto Coupling Socket

PN: NIT40SF

Coupling: Nitto Coupling Socket
Fitting: 1/2" Female Thread
Working pressure: 213 PSI
Pressure resistance: 284 PSI
Weight: 139 G



One Touch Coupling Sockets to Female Thread

1/4" Female Thread to One Touch Coupling Socket

PN: NC20020SF

Coupling: One Touch Coupling Socket
Fitting: 1/4" Female Thread
Working pressure: 213 PSI
Pressure resistance: 284 PSI
Weight: 94 G



3/8" Female Thread to One Touch Coupling Socket

PN: NC20030SF

Coupling: One Touch Coupling Socket
Fitting: 3/8" Female Thread
Working pressure: 213 PSI
Pressure resistance: 284 PSI
Weight: 103 G



1/2" Female Thread to One Touch Coupling Socket

PN: NC20040SF

Coupling: One Touch Coupling Socket
Fitting: 1/2" Female Thread
Working pressure: 213 PSI
Pressure resistance: 284 PSI
Weight: 138 G



Coupling Sockets to Female Thread

1/4" Female Thread to Nitto Coupling Plug

PN: NIT20PF

Coupling: Nitto Coupling Plug
Fitting: 1/4" Female Thread
Working pressure: 213 PSI
Pressure resistance: 284 PSI
Weight: 28 G



3/8" Female Thread to Nitto Coupling Plug

PN: NIT30PF

Coupling: Nitto Coupling Plug
Fitting: 3/8" Female Thread
Working pressure: 213 PSI
Pressure resistance: 284 PSI
Weight: 39 G



1/2" Female Thread to Nitto Coupling Plug

PN: NIT40PF

Coupling: Nitto Coupling Plug
Fitting: 1/2" Female Thread
Working pressure: 213 PSI
Pressure resistance: 284 PSI
Weight: 70 G



Coupling Sockets to Hose Fitting

1/4" Hose Fitting to Nitto Coupling Socket

PN: NIT20SH

Coupling: Nitto Coupling Socket
 Fitting: 1/4" Hose Fitting
 Hose Fitting Length: 30 MM
 Hose Fitting Dia.: 9 MM
 Working pressure: 213 PSI
 Pressure resistance: 284 PSI
 Weight: 103 G



3/8" Hose Fitting to Nitto Coupling Socket

PN: NIT30SH

Coupling: Nitto Coupling Socket
 Fitting: 3/8" Hose Fitting
 Hose Fitting Length: 34 MM
 Hose Fitting Dia.: 11.3 MM
 Working pressure: 213 PSI
 Pressure resistance: 284 PSI
 Weight: 106 G



1/2" Hose Fitting to Nitto Coupling Socket

PN: NIT40SH

Coupling: Nitto Coupling Socket
 Fitting: 1/2" Hose Fitting
 Hose Fitting Length: 36 MM
 Hose Fitting Dia.: 15 MM
 Working pressure: 213 PSI
 Pressure resistance: 284 PSI
 Weight: 118 G



One Touch Coupling Sockets to Hose Fitting

1/4" Hose Fitting to One Touch Coupling Socket

PN: NC20020SH

Coupling: One Touch Coupling Socket
 Fitting: 1/4" Hose Fitting
 Hose Fitting Length: 27.5 MM
 Hose Fitting Dia.: 9 MM
 Working pressure: 213 PSI
 Pressure resistance: 284 PSI
 Weight: 90 G



3/8" Hose Fitting to One Touch Coupling Socket

PN: NC20030SH

Coupling: One Touch Coupling Socket
 Fitting: 3/8" Hose Fitting
 Hose Fitting Length: 32 MM
 Hose Fitting Dia.: 11.3 MM
 Working pressure: 213 PSI
 Pressure resistance: 284 PSI
 Weight: 92 G



1/2" Hose Fitting to One Touch Coupling Socket

PN: NC20040SH

Coupling: One Touch Coupling Socket
 Fitting: 1/2" Hose Fitting
 Hose Fitting Length: 32 MM
 Hose Fitting Dia.: 15 MM
 Working pressure: 213 PSI
 Pressure resistance: 284 PSI
 Weight: 104 G



Nitto Coupling Plugs to Hose Fitting

1/4" Hose Fitting to Nitto Coupling Plug

PN: NIT20PH

Coupling: Nitto Coupling Plug
 Fitting: 1/4" Hose Fitting
 Hose Fitting Length: 30 MM
 Hose Fitting Dia.: 9 MM
 Working pressure: 213 PSI
 Pressure resistance: 284 PSI
 Weight: 28 G



3/8" Hose Fitting to Nitto Coupling Plug

PN: NIT30PH

Coupling: Nitto Coupling Plug
 Fitting: 3/8" Hose Fitting
 Hose Fitting Length: 34 MM
 Hose Fitting Dia.: 11.3 MM
 Working pressure: 213 PSI
 Pressure resistance: 284 PSI
 Weight: 31 G



1/2" Hose Fitting to Nitto Coupling Plug

PN: NIT40PH

Coupling: Nitto Coupling Plug
 Fitting: 1/2" Hose Fitting
 Hose Fitting Length: 36 MM
 Hose Fitting Dia.: 15 MM
 Working pressure: 213 PSI
 Pressure resistance: 284 PSI
 Weight: 53 G



Hex Key Wrench Sets

Imperial (SAE) 13 Piece Ball Point Hex Key Wrench Set

PN: GXHK13I

- Durable non-slip finish
- Made in Taiwan

Sizes: 0.05", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", & 3/8"



Tamperproof 13 Piece Star Key Wrench Set

PN: GXTP13

- Durable non-slip finish
- Made in Taiwan

Sizes: T6H, T7H, T8H, T9H, T10H, T15H, T20H, T25H, T27H, T30H, T40H, T45H, T50H



Metric 9 Piece Ball Point Hex Key Wrench Set

PN: GXHK9M

- Durable non-slip finish
- Made in Taiwan

Sizes: 1.5, 2, 2.5, 3, 4, 5, 6, 8 & 10 MM

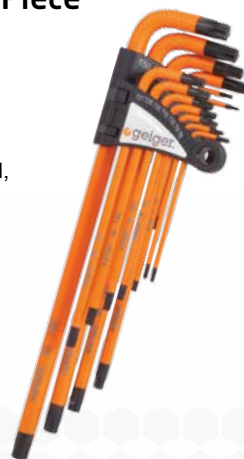


Non Tamperproof 13 Piece Star Key Wrench Set

PN: GXTX13

- Durable non-slip finish
- Made in Taiwan

Sizes: T6H, T7H, T8H, T9H, T10H, T15H, T20H, T25H, T27H, T30H, T40H, T45H, T50H



Jumbo Metric 13 Piece Ball Point Hex Key Set

PN: GXHK19M

- Magnetic ball ends
- Chrome finish
- Made in Taiwan

Set includes: 2, 2.5, 3, 4, 5, 6, 7, 8, 10, 12, 14, 17, 19 MM Keys



Jumbo Imperial 13 Piece Ball Point Hex Key Set

PN: GXHK34I

- Magnetic ball ends
- Chrome finish
- Made in Taiwan

Set includes: 1/16, 5/64, 3/32, 1/8, 5/32, 3/16, 1/4, 5/16, 3/8, 1/2, 9/16, 5/8, 3/4" Keys



Punch Sets

6 Piece Hollow Punch Set

PN: YC516

- Supplied in roll-up pouch
- Made in Taiwan

Set includes: 5 MM, 6 MM, 8 MM, 9 MM, 11 MM, & 13 MM



14 Piece Gasket Punch Set

PN: GGPS

- Driver has spring loaded centre pin
- Supplied in blow moulded case
- Made in Taiwan

Sizes 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 7/8, 1, 1 1/8, 1 1/4, 1 3/8, 1 1/2"



Driver & Pick Sets

1/4" 43 Piece Chrome Vanadium Socket Set

PN: GP1599-5

- Offset ratchet handle to keep knuckles away from job
- Made from Chrome Vanadium Steel
- Supplied in blow moulded case
- Made in Taiwan

1/4" Ratchet Handle 72 Gears

1/4" Extension Bars 2" & 6"

1/4" Spinner Handle

1/4" Universal Joint

3 Way Adapter

1/4" Flexible Extension Bar

1/4" Drive Sockets: 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13 & 14 MM

1/4" Drive Torx Drivers: T8, T9, T10, T15, T20, T25, T27, T30, T40

1/4" Drive Phillips Drivers: 1, 2, 3

1/4" Drive Slot Drivers: 4, 5.5, 6.5

1/4" Drive Pozi Drivers: 1, 2, 3

1/4" Drive Hex Drivers: H3, H4, H5, H6, H8



Driver & Pick Sets

4 Piece Hook & Pick Set

PN: GXHP4

- Supplied in foam insert
- Includes: Straight, 90° Angle, Offset & Hook tools



21 Piece Magnetic Drive Guide Set

PN: GBS21

Outer guard on driver slides forward over screw to help retain & guide screw into position

- Includes:
- Phillips head (2 x #0, 1, 2)
 - Hex Head (2 x #3, 4, 5)
 - Flat head (1 x #5, 2)
 - Star head (2 x #0, 1, 2)



10 Bit Angle Driver Set

PN: GPA1600

- The Hex Drive Handle, Angle head attachment and 60 mm Extension can be used in multiple combinations to access fasteners in hard to reach spaces.

Set includes:

1/4" Hex Drive Handle,
1/4" Angle head attachment,
1/4" 60 mm Extension,

Phillips Driver Sizes 1 & 2,
Pozidrive Driver Sizes 1, 2 & 3,
Slot Driver Sizes: 4 & 7,
Torx Driver Sizes: 10, 15 & 20.



49 Piece Bit Set

PN: GBS49

Set includes: Flat Head, Hex Head, Phillips Head, Star Head, Small Socket Set 5 mm to 11 mm, Magnetic Drive Unit and 5 x combination bits.



42 Piece Precision Screwdriver Set

PN: GSDS

- Great for mobile phone repair or hobby equipment

Set Includes:

Compact (20 tooth) Ratchet Handle,
Flexible 200 mm Extension,
Phillips Driver Sizes:
000, 00, 0, 1,
Slot Driver Sizes:
1, 1.5, 2, 2.5, 3 & 4.
Pozidrive Driver Sizes: 0 & 1,
Torx Driver Sizes:
4, 5, 6, 7, 8, 9, 10, 15 & 20
Allen Driver Sizes:
0.7, 0.9, 1.3, 1.5, 2, 2.5, 3 & 4 mm
Hex Driver Sizes:
2.5, 3, 3.5, 4, 4.5, 5, 3/32,
1/8, 9/64, 5/32 & 3/16.



3 Piece T-Handle Set

PN: GXTH3

- Supplied in foam insert
- Knurled centre handle has 3 positions and features bearings not bushes for fast, smooth operation
- Made from Chrome Vanadium Steel

T-Handle sizes:
1/4", 3/8" & 1/2" Drive



Quick Release Deburring Tools



Micro & Standard Blade Adapter Collets for 6 mm HD Quick Release Handle

Micro (2.6 mm) Adapter PN: GDSSDP

Standard (3.2 mm) Adapter PN: GDSSDC

- Suits 6 mm Heavy Duty Quick Release Handle
- Micro Blade Adapter collet for all Micro (2.6 mm) & Standard (3.2 mm) Blades.



3.2 mm Standard Quick Release Handle

PN: GDSDSDMK

Holds all 3.2 mm Ø Deburring Blades.



Deburring Tool with 3 MC 3.2 mm blades

PN: GD38333

3.2 mm Standard Quick Release Handle (GDSDSDMK) with Multi-cutting Edge Deburring blades: GDSMC10, GDSMC20, GDSMC101



Ergonomic Deburring Tool & Blade Set

PN: GD88040

- Set Includes: 3.2 mm Standard Quick Release Handle (GDSDSDMK) Standard 3.2 mm Deburring blades: 2 x GDSC10, 2 x GDSC101, 2 x GDSC15, 2 x GDSC20, 1 x GDSC30, 1 x GDSC35
- Promotional Quick Release Handle Set with 10 assorted 3.2 mm blades.



6 mm Heavy Duty Quick Release Handle

PN: GDSRSDMK

- Optional Adapter Collet for 2.6 mm or 3.2 mm blades (see above)
 - Black powder coated aluminium handle inlay for extra durability
 - Ergonomic Acetal body handle with Comfort grip zone
 - Removable cap for blade storage
 - Aluminium Quick Release Ring
- Holds all 6 mm Ø Deburring Blades.



6 mm Heavy Duty Quick Release Deburrer

PN: GDSRSDMKK

- Optional Adapter Collet for 2.6 mm or 3.2 mm blades (see above)
 - Black powder coated aluminium handle inlay for extra durability
 - Ergonomic Acetal body handle with Comfort grip zone.
 - Removable cap for blade storage
 - Aluminium Quick Release Ring
- 6 mm Heavy Duty Quick Release Handle (GDSRSDMK) with 6 mm General Purpose Blade (GDSR10S).



High Performance Deburring Sets

24 Piece Deburring Set

PN: GD88030

- Set includes:
3 Multi-Component Handles (GDSTSDMK)
Heavy Duty 6 mm Quick Release Handle (GDSRSDMK),
- **Micro Deburring blades:**
GDSP1, GDSP2, GDSP3
- **Standard Deburring blades:**
GDSC10, GDSC101, GDSC15 GDSC20, GDSC30, GDSC35
- **Heavy Duty Deburring blades:**
GDSR10S, GDSR15S
- **Telescopic Blade Holders:**
GDSDTP, GDSDTC, GDSVT, GDSCSLONG, GDSKW Deburring Blades & Scrapers
GDSV4, GDSKW9, GDSKW16 GDSCSLONG, GDSSCR6, GDSV2, GDSC1 2 blade holders
2 mm Hex Key

Set of Multi-Component and Quick Release Handles including a comprehensive range of accessories.



2.6 mm Mini Quick Release Handle

PN: GDMC1

- Soft Rubber grip
- Holds all 2.6 mm Ø Deburring Blades.

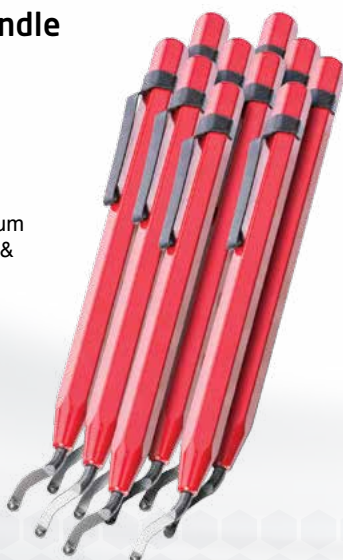


Pack of 10 Hex Handle Pocket Deburrers

PN: GD86110

- Throw away style
- Sold in packs of 10

Set of 10 Hex Handle Pocket Deburrers. 8 mm Hex Aluminium body handle with Pocket clip & C-10 blade. Blade cannot be replaced.



Double Deburrer

PN: GDDB

- Deburrs both sides of workpiece at same time
- Double Deburrer features underneath safety guard
- Perfect for sheet metal finishing
- See replacement blades on page 114

Max. Thickness: 10mm



Pack of 5 Hex handle Deburring Tools

PN: GD86060

- Quick release nose with nylon cap to prevent delicate work pieces from being damaged
- Sold in packs of 5

Set of 5 3/8" A/F Hex Handle Deburring Tools. Aluminium body handle with replaceable GDSC10 blades.



Multi-Component Deburring Tools



Multi-Component Handle

PN: GDSTSDMK

- Acetal body handle with Comfort grip zone
- Collet accepts all telescopic arms, double edged deburrers and scrapers
- Black powder coated aluminium handle inlay for extra durability
- Loosen and push the Locking Knob to quickly release or adjust tool holder. Tighten Locking Knob to firmly lock tool arm into place.

Multi-Component Handle only.



Telescopic Multifunction Deburring Tool

PN: GD38325

- Collet accepts all telescopic shafts, double edged deburrers and scrapers
- Acetal body handle with Comfort grip zone
- Steel telescopic shaft

- Steel quick-release ring (not plastic)
- Black powder coated aluminium handle inlay for extra durability

Includes Multi-Component Handle (GDSTSDMK) & blade holder
Standard Deburring blades: GDSC10, GDSC15, GDSC20, GDSC30, GDSC35



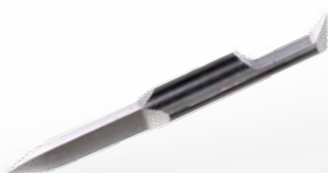
Multi-Component Double Ended Scraper

PN: GDSSCR6

- 6 mm double ended scraper
- Triangular scraper on one side & internal scraper on another
- Blade Material: M2 Grade HSS

Blade to suit GDSTSDMK

Blade Material: M2 Grade HSS



Multi-Component Double Ended Deburrer

PN: GDSV2

- 6 mm double ended deburring blade for single or double deburring of both sheets or ribs. Deburs both edges of sheet or rib of up to 4 mm in thickness.

Blade to suit GDSTSDMK

Blade Material: M2 Grade HSS



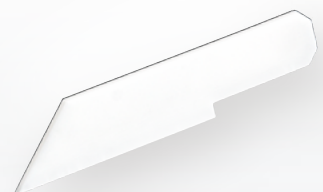
Multi-Component Ceramic Blade

PN: GDSC1

- Extremely durable ceramic blades are suitable for deflashing and scraping plastic and non-ferrous components.

Blade to suit GDSTSDMK

Blade Material: Ceramic



Multi-Component Deburring Tools

Multi-Component Double Ended Telescopic Key-Way Blade Holder

PN: GDSKW

- Holds both large and small Slot Deburring Blades on either end. Features telescopic function and angled heads. Holder includes hex key retaining bolt.

Blade Holder to suit GDSTSDMK



Multi-Component Key-Way Deburring Blade

9 MM Blade: PN: GDSKW9

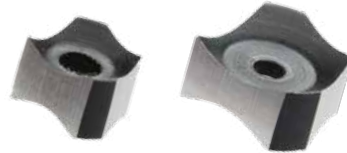
16 MM Blade: PN: GDSKW16

- Deburrs both sides of a keyway at once.

Blades to suit GDSKW

Blade Material: M2 Grade HSS.

Blade Pitch: 90°/120°



Multi-Component Telescopic 2.6 MM Micro Blade Holder

PN: GDSDTP

- Extendable telescopic holder can hold all 2.6 MM Micro Deburring Blades.

2.6 MM Micro Blade Holder to suit GDSTSDMK



Multi-Component Telescopic 3.2 MM Standard Blade Holder

PN: GDSDTC

- Extendable telescopic holder can hold all 3.2 MM Standard Deburring Blades
- Steel quick-release ring (not plastic)
- Steel shaft

2.6 MM Micro Blade Holder to suit GDSTSDMK



Multi-Component Telescopic V4 Sheet Deburring Holder

PN: GDSVT

- V Shaped Sheet & Rib Deburring blade for simultaneous deburring of both edges of a sheet. Holder includes hex key retaining bolt.

Multi-Component Telescopic V4 Sheet Deburring Holder only
V4 blade to suit GDSV4



Multi-Component V4 Sheet Deburring Blade

PN: GDSV4

- V Shaped Sheet & Rib Deburring blade for simultaneous deburring of both edges of a sheet
- Holder includes hex key retaining bolt.

V4 blade to suit GDSVT



Standard & Multi-cutting Edge Deburring Blades

NEW Multi-Cutting Edge Blades

Multi-cutting edge deburring blades last up to 3 times longer than conventional blades due to their unique design. Raised guides add extra cutting zones which extend blade life.



Conventional
Deburring Blades



Multi-Cutting
Deburring
Blades

Standard Double Edge Heavy Duty Blade

PN: GDSC30

- 3.2 mm blade for heavy duty application for both sides deburring of sheet metal holes up to 10 mm thickness.

Blade Material: M2 Grade HSS.

Blade Pitch: 45°

Pack of 10.



Standard General Purpose Blade

PN: GDSC35

- 3.2 mm blade for straight edges on most materials.

Blade Pitch: 90°

Blade Material: M2 Grade HSS.

Pack of 10.



Standard Spiral Chip Blades

PN: GDSC10

Multi-cutting Edge PN: GDSMC10

- 3.2 mm blade for deburring materials forming spiral chips such as steel, aluminium, copper, zinc, etc.
- Multi-cutting edge deburring blades last up to 3 times longer than conventional blades due to their unique design
- Raised guides add extra cutting zones which extend blade life.

Blade Pitch: 45°

Blade Material: M2 Grade HSS.

Multi-cutting edge

Pack of 10.



Standard Brittle Chip Blades

PN: GDSC20

Multi-cutting Edge PN: GDSMC20

- 3.2 mm Blade for Heavy duty deburring application on materials having brittle burrs such as cast iron, brass, etc.
- Multi-cutting edge deburring blades last up to 3 times longer than conventional blades due to their unique design
- Raised guides add extra cutting zones which extend blade life.

Blade Pitch: 60°

Blade Material: M2 Grade HSS.

Pack of 10



Standard Small Edge Blades

PN: GDSC101

Multi-cutting Edge PN: GDSMC101

- 3.2 mm Blade for deburring of small holes from 1.5 mm Ø in steel & aluminium
- Multi-cutting edge deburring blades last up to 3 times longer than conventional blades due to their unique design
- Raised guides add extra cutting zones which extend blade life.

Blade Pitch: 90°

Blade Material: M2 Grade HSS.

Pack of 10.



Standard Heavy Duty Blades

PN: GDSC15

Multi-cutting Edge PN: GDSMC15

- 3.2 mm Blade for Heavy duty deburring application on stainless steel & hard plastics
- Multi-cutting edge deburring blades last up to 3 times longer than conventional blades due to their unique design
- Raised guides add extra cutting zones which extend blade life.

Blade Pitch: 90°

Blade Material: M2 Grade HSS.

Pack of 10.



Micro & Double Deburrer Blades

Micro Spiral Chip Blade

PN: GDSP1

- 2.6 mm blade for light duty applications. Suitable for material forming continuous chips such as steel, aluminium, copper, zinc and plastics.

Blade Pitch: 45°

Blade Material: M2 Grade HSS.

Pack of 10.



Micro Brittle Chip Blade

PN: GDSP2

- 2.6 mm blade for light duty applications. Suitable for material forming powdery chips such as cast iron & brass etc.

Blade Pitch: 90°

Blade Material: M2 Grade HSS.

Pack of 10.



Micro Double Edge Blade

PN: GDSP3

- 2.6 mm double sided blade suitable for deburring both sides of sheet metal holds up to 6 mm in thickness.

Blade Pitch: 45°

Blade Material: M2 Grade HSS.

Pack of 10.



Double Deburrer Blade Set

PN: GN80

Set of blades to suit GDDB

Blade Material: M2 Grade HSS



Heavy Duty 6 mm Deburring Blades

Heavy Duty General Purpose Blade

PN: GDSR10S

- 6 mm Ø Heavy duty deburring blade suitable for materials that produce spiral chips, such as steel, aluminium, copper, Zinc etc.

Blade Pitch: 45°

Blade Material: M2 Grade HSS.

Pack of 5.



Heavy Duty Extra Heavy Duty Blade

PN: GDSR15S

- 6 mm Ø Extra Heavy Duty Blade suitable for stainless steel, cast iron, brass etc.

Blade Pitch: 90°

Blade Material: M35 Grade HSS.

Pack of 5.



Hand Operated Riveting Tools

Heavy Duty Hand Riveter

PN: SNPRO3000

- Die-cast aluminium body
- High carbon steel Handle
- Nonslip comfortable grip.

Riveting sizes: 2.4, 3.2, 4.0, 4.8 mm



Rivet Kits

See more on Page 138

Aluminum Countersunk & Large Flange Pop Rivets

PN: HAK16

200 piece kit includes an assortment of 3.2-10, 4.8-12, 4.8-15, 4.8-18 Countersunk Rivets and 4.0-12, 4.0-15, 4.8-10, 4.8-15 Large Flange Rivets.



Lazy Tongs Heavy Duty Hand Riveter

PN: SNSC50

- Push to set rivet

Riveting tool includes:
3.2, 4.0, 4.8 mm mandrels.
Extended Length: 860 mm
Contracted Length: 310 mm



Hand Operated Nutsert Tools

Long Handled Nutsert Tool

PN: SNHN096

- Sets nutserts into Aluminium, Steel & Stainless Steel
- Replacement mandrels available

Includes: Long Handled Nutsert Tool,
M4, M5, M6, M8, M10 Mandrels
Length: 560 MM
Spread handle width: 600 MM
Weight: 1.5 Kg



Hand Operated Nutsert Set

PN: SNSC456

- Handle made from Chrome Molybdenum Steel CR-MO
- Extra nutserts available in packs of 50

Set includes Hand Operated Nutsert Tool, M4, M5, M6 Mandrels,
Aluminium M4, M5, M6 &
Steel M6 nutserts and instructions.



Nutserts

See more on Page 138

Steel Nutserts

M4 Steel PN: NM4PNS
M5 Steel PN: NM5PNS
M6 Steel PN: NM6PNS
M8 Steel PN: NM8PNS
M10 Steel PN: NM10PNS
Max. sheet thickness: 4 mm
Pack of 50



Aluminium Nutserts

M4 Aluminium PN: NM4RNA
M5 Aluminium PN: NM5RNA
M6 Aluminium PN: NM6RNA
M8 Aluminium PN: NM8RNA
M10 Aluminium PN: NM10RNA
Max. sheet thickness: 4 mm
Pack of 50



Hand Operated Nutsert Mandrels

M4 SNSC456 Nutsert Mandrel

PN: SNMANM4

Mandrel M4 to
suit SNSC456



M5 SNSC456 Nutsert Mandrel

PN: SNMANM5

Mandrel M5 to
suit SNSC456



M6 SNSC456 Nutsert Mandrel

PN: SNMANM6

Mandrel M6 to
suit SNSC456



Compact Hand Torches

Q1prime Compact Hand Torch

PN: SBQ1prime

Ultra mini torch is up to 9 times more powerful than a regular Smart-phone.

67 mm length and light weight makes it highly suitable for the keyring and easy to operate.

Beam: 1 CREE Power Chip
Switch: Swivel Switch Head
Power Source: 1 x AAA Alkaline

90
LUMENS



Brightness Modes:
On/Off

Performance:
ON 90-9 Lms / 30 Mins.
90-1 Lms / 50 Mins.
Body: Dark Grey Anodized, High Strength Aluminium
Dimensions: L: 75.8mm, ø: 14.6mm
Weight (incl. battery): 30g
Protection Rating: Splash Waterproof IPx4
Compatible with NiMh batteries.

Included accessories:
Manual, Keyring

Q1mini Compact Hand Torch

PN: SBQ1mini

The Q1mini is equipped with our versatile Hyperfocus™ system and the latest LED Power-Chip technology, producing up to 5 hours of light while using just 1xAAA battery and only weighs 38 grams.

Perfect for use as a keyring, providing security and convenience or for the technician's pocket.

Beam: Rotating Hyperfocus™ Lens
Switch: All metal Touch Function button
Power Source: 1 x AAA Alkaline

80
LUMENS



Brightness Modes:
High & Low

Performance:
ON 80-8 Lms / 1 Hr.
20-2 Lms / 5 Hrs.

Body: Dark Grey Anodized, High Strength Aluminium
Dimensions: L: 98mm, ø: 15mm
Weight (incl. battery): 38g
Protection Rating: Splash Waterproof IPx4
Compatible with NiMh batteries.

Included accessories:
Manual, Pocket Clip, Keyring

Q1 Compact Hand Torch

PN: SBQ1

• With the familiar size of a pen, the Q1 fits perfectly in the hand enabling precision and control, while being a convenient size for your pocket.

• The Q1 is remarkably powerful, using only two AAA batteries, providing up to 8 hours of light.

Beam: Rotating Hyperfocus™
Switch: All metal Touch Function button
Power Source: 2 x AAA Alkaline

100
LUMENS



Brightness Modes:
High & Low

Performance:
High 100-10 Lms / 3 Hrs.
Low 20-2 Lms / 10 Hrs.

Body: Dark Grey Anodized, High Strength Aluminium
Dimensions: L: 141.5mm, ø: 15mm
Weight (incl. battery): 56g
Protection Rating: Splash Waterproof IPx4
Compatible with NiMh batteries.

Included accessories:
Manual, Pocket clip

Hand Torches

Q2 Hand Torch

PN: SBQ2

- The Q2 is small and remarkably powerful with 170 lumens. Using the larger Hyperfocus™ system from the Q3, it remains smaller, more light weight and yet powerful even though it is only powered by 1 x AA battery.

170
LUMENS



Beam: Sliding Hyperfocus™
Switch: All metal Touch Function button
Power Source: 1 x AA Alkaline
Compatible NiMh batteries

Brightness Modes:

High & Low

Performance:

High 170-17 Lms / 2 Hrs.
Low 30-3 Lms / 5 Hrs.

Body: Dark Grey Anodized,
High Strength Aluminium
Dimensions: L: 116mm, ø: 26mm
Weight (incl. battery): 80g
Protection Rating: Splash Waterproof IPx4

Included accessories: Manual,
Belt Mountable Pouch, Strap

Q3 Hand Torch

PN: SBQ3

- The compact and powerful Q3 delivers an impressive 320 lumens with only 3 x AAA batteries, and will last up to 60 hours on low light setting. Perfect for the professional user or enthusiast, who needs a torch with a powerful output with just one click.
- Sliding Hyperfocus™ makes the Q3 ideal for both long range and inspection viewing.
- 2 stage Touch Function switch allows the user to quickly step through and select the desired brightness mode.

320
LUMENS



Beam: Sliding Hyperfocus™
Switch: Essential On/Off Button
Power Source: 3 x AAA Alkaline

Brightness Modes:

Boost, High, Medium, Low & Strobe

Performance:

BOOST	320-32 Lms / 1 Hr 30 Mins.
High	200-20 Lms / 2 Hr 45 Mins.
Medium	50-5 Lms / 12 Hrs.
Low	15-1.5 Lms / 60 Hrs.
Strobe	10 Hz

Body: Dark Grey Anodized,
High Strength Aluminium
Dimensions: L: 115.3mm, ø: 26.5mm
Weight (incl. battery): 99g
Protection Rating: Splash Waterproof IPx4

Included accessories:
Manual, Belt Mountable Pouch, Strap

Q3classic Hand Torch

PN: SBQ3classic

- The compact, rugged and powerful Q3 classic is waterproof up to 1m (IPx8), making it ideal for both long range and inspection viewing in all weather conditions.

280
LUMENS



Beam: Fixed 5° Beam
Switch: Essential On/Off Button
Power Source: 3 x AAA Alkaline
Compatible NiMh batteries

Brightness Modes:

On/Off

Performance:

280-28 Lms / 1 Hr.
280-1 Lms / 20 Hrs.

Body: Dark Grey Anodized, High Strength
Aluminium
Dimensions: L: 115.3mm, ø: 26.5mm
Weight (incl. battery): 96g
Protection Rating: Waterproof (up to 1 m) IPx8

Included accessories: Manual,
Belt Mountable Pouch, Strap

Hand Torches

Q7compact Hand Torch

PN: SBQ7compact

- Focus Lock-Function prevents bumps and knocks from causing unwanted beam adjustments.
- 2 stage Touch Function switch allows the user to quickly step through and select the desired brightness mode.
- Specially designed thermal management system disperse heat throughout the core structure of the torch.

350
LUMENS



Beam: Sliding Hyperfocus™ Lens
Switch: Touch Function switch with Silicone
Power Source: 4 x AAA Alkaline

Brightness Modes:

Boost, High, Medium, Low & Strobe

Performance:

BOOST 350-35 Lms / 1 Hr
High 200-20 Lms / 1 Hr 30 Mins.
Medium 50-5 Lms / 11 Hrs.
Low 15-1.5 Lms / 75 Hrs.
Strobe 10 Hz

Body: Dark Grey Anodized,
Dimensions: L: 134mm, ø: 39mm
Weight (incl. battery): 196g
Protection Rating: Splash Waterproof IPx4
Compatible with NiMh batteries.

Included accessories: Manual, Belt Mountable Pouch, Strap

*See next page for
Rechargeable & Tactical Torches*

Tactical Hand Torches

SBQ3defend Tactical Hand Torch

PN: SBQ3defend

- Extremely compact and powerful
- Waterproof up to 10 meters (IP68).
Unique highly durable, soft touch urethane coating
- Retractable rear mounted Clip Hanger provides mount point to wrist or body.
- The smooth cerated ridges on the torch body provides stability on uneven surfaces.
Lens Ring shaped for self-defense & breaking light surfaces.
Removable Lens Ring accepts yellow, blue, green and red coloured filters (sold separately).

Beam: Fixed Focus & Lens
Switch: Essential On/Off Button
Power Source: 3 x AAA Alkaline

Brightness Modes:
On/Off

Performance:

High	280-28 Lms / 1 Hr.
Low	280-1 Lms / 20 Hrs

Body: Black Anodized and urethane coating,
High Strength Aluminium
Dimensions: L: 124 MM x 27 MM Dia.
Weight (incl. battery): 99 g
Protection Rating: Waterproof to 10 m IP68

Included accessories:

Manual, Belt Mountable Pouch, Strap



SBQ7defend Tactical Hand Torch

PN: SBQ7defend

- Focus Lock-Function prevent bumps and knocks from causing unwanted beam adjustments.
Unique highly durable, soft touch urethane coating
Professional Quality Pouch with strap
4 stage Touch Function switch allows the user to quickly step through and select the desired brightness mode.
- Retractable rear mounted Clip Hanger provides mount point to wrist or body.
The unique scalloped design of the Q7defend Focus Ring resists unwanted rolling when placed on flat surfaces.
Removable Lens Ring accepts yellow, blue, green and red coloured filters (sold separately).

Beam: Sliding Hyperfocus™ Lens
Switch: Touch Function Silicone Button
Power Source: 4 x AAA Alkaline

Brightness Modes:

Boost, High, Medium, Low & Strobe

Performance:

BOOST	350-35 Lms / 1 Hr
High	200-20 Lms / 1 Hr 30 Mins
Medium	50-5 Lms / 11 Hr
Low	15-1.5 Lms / 75 Hrs
Strobe	10 Hz

Body: Black Anodized and urethane coating,
High Strength Aluminium
Dimensions: Length: 139.3 MM x 39 MM Dia.
Weight (incl. battery): 212 g
Protection Rating: Splash Waterproof IPx4

Included accessories:

Manual, Belt Mountable Pouch & Strap



Rechargeable Hand Torches

R & XR Series High Performance Rechargeable Torches

The Advantage of a Removable, Rechargeable Battery

Each Suprabeam R & XR Series torch incorporates a removable high capacity Li-ion battery with a spare battery and charger. This configuration enables the user to charge the spare battery while using the torch with the other battery. The benefit of this system is that it offers a constant source light, even at full power.



The combination of a High Capacity Li-ion Battery & an ILC Microprocessor

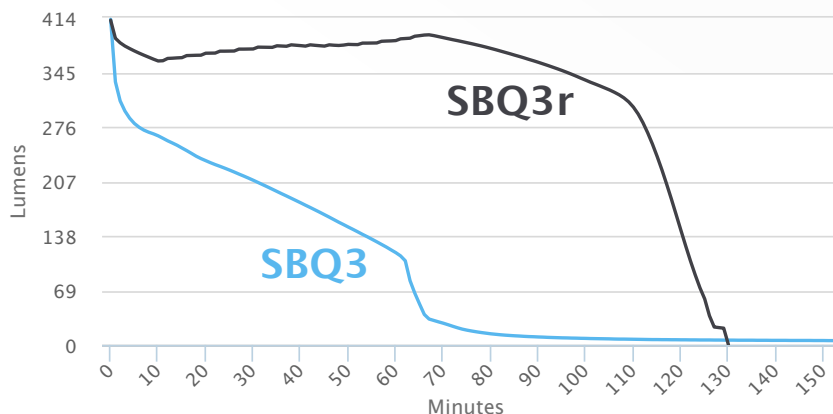
A single Li-ion battery can pack more power into a smaller space when compared to a cluster of conventional batteries. Li-ion batteries also enable high performance torches to run with a constant high output for long periods of time. Because of these properties, Suprabeam QR series torches with Li-ion batteries behave differently to their Q series counterparts, as the Boost and Low comparison charts show (right).

If a torch is being used for:

- More than 30 minutes at a time
- More than 3 times a week or for long durations

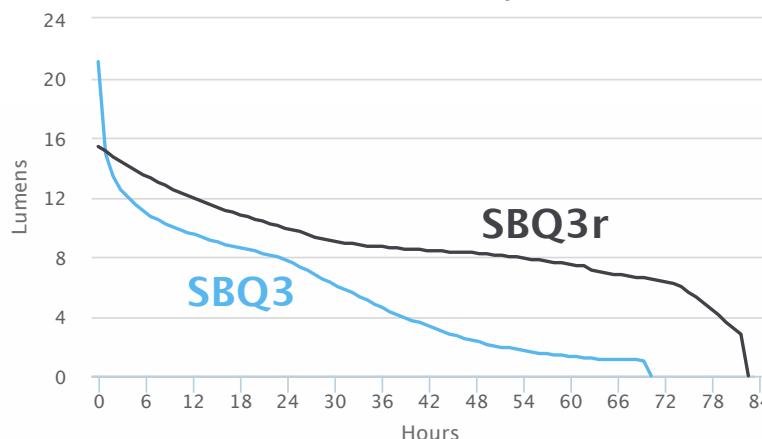
Then a Suprabeam rechargeable torch is the right choice.

SBQ3 & SBQ3r - Boost Mode Comparison



With both torches in "Boost" mode, the SBQ3r is able to provide much higher light levels over the same period of time, than its SBQ3 counterpart.

SBQ3 & SBQ3r - Low Mode Comparison



With both torches in "Low" mode, the SBQ3r can provide higher and more constant levels of light over a longer period of time.

Applicable to products produced after 06/2014. Suprabeam.com

Q3r Rechargeable Hand Torch

PN: SBQ3r

The combination of a Li-ion 18650 battery and ILC technology enables the SBQ3R to outperform all other Q1, Q2 & Q3 series torches in both long lasting and brighter light.

2 stage Touch Function switch allows the user to quickly step through and select the desired brightness mode. Includes spare Li-ion 18650 battery.

400 LUMENS



Beam: Sliding Hyperfocus™
Switch: All metal Touch Function button
Power Source: Li-ion 18650 (8.14 Wh)
Spare battery included.

Brightness Modes:
Boost, High, Medium, Low & Strobe

Performance:
BOOST 400-40 Lms / 1 Hr 45 Mins.
High 250-25 Lms / 3 Hrs.
Medium 50-5 Lms / 15 Hrs.
Low 15-1.5 Lms / 89 Hrs.
Strobe 10 Hz

Body: Dark Grey Anodized, High Strength Aluminium
Dimensions: L: 127.7mm, ø: 26.5mm
Weight (incl. battery): 139g
Protection Rating: Splash Waterproof IPx4

Included accessories: Manual, Pouch, Strap, 240 Volt USB Transformer, USB cable, Battery Charger, Auxiliary Battery

Rechargeable Hand Torches

Q4xr Rechargeable Hand Torch

PN: SBQ4xr

- Designed for the user demanding extreme power in a compact size and light weight. The SBQ4xr is capable of producing over 300 Lumens for over 2 hours. The combination of a Li-ion 18650 battery and ILC technology provide both long lasting and super bright light.
- 2 stage Touch Function switch allows the user to quickly step through and select the desired brightness mode. Includes spare Li-ion 18650 battery.

Beam: Sliding Hyperfocus™
Switch: All metal Touch Function button
Power Source: Li-ion 18650 (18.5 Wh) Spare battery included.

Brightness Modes:

Boost, High, Medium, Low & Strobe

Performance:

BOOST 800-68 Lms / 2 Hrs
High 350-35 Lms / 2 Hr 15 Mins.
Medium 200-20 Lms / 3 Hr 30 Mins.
Low 50-5 Lms / 24 Hrs.
Strobe 10 Hz

Body: Dark Grey Anodized, High Strength Aluminium

Weight (incl. battery): 132g

Dimensions: L: 134 MM, ø: 32 MM

Protection Rating: Splash Waterproof IPx4

Included accessories:

Manual, Belt Mountable Pouch, Strap, 240 Volt USB Transformer, USB cable, Battery Charger, In-car Charger & Auxiliary Battery

800
LUMENS



Q7xr Rechargeable Hand Torch

PN: SBQ7xr

- The SBQ7xr is capable of producing over 480 Lumens for over 2 and half hours. The combination of a Li-ion 26650 battery and ILC technology provide both long lasting and super bright light. Designed for the user demanding extreme power in a compact size and light weight.
- Focus Lock-Function prevent bumps and knocks from causing unwanted beam adjustments. 2 stage Touch Function switch allows the user to quickly step through and select the desired brightness mode. Includes spare Li-ion 26650 battery.

Beam: Sliding Hyperfocus™
Switch: Touch Function Silicone Button
Power Source: Li-ion 26650 (18.5 Wh) Spare battery included.

Brightness Modes:

Boost, High, Medium, Low & Strobe

Performance:

BOOST 1000-90 Lms / 2 Hr 35 min
High 500-50 Lms / 3 Hrs.
Medium 200-20 Lms / 8 Hrs.
Low 50-5 Lms / 37 Hrs.
Strobe 10 Hz

Body: Dark Grey Anodized, High Strength Aluminium

Dimensions: L: 150 MM, ø: 46 MM

Weight (incl. battery): 307 G

Protection Rating: Splash Waterproof IPx4

Included accessories:

Manual, Belt Mountable Pouch, Strap, 240 Volt USB Transformer, USB cable, Battery Charger, In-car Charger & Auxiliary Battery

1000
LUMENS



Head Torches

Modular Head Lamp Design

All Suprabeam headlamps are designed in modular sections. This makes it possible for the user to repair their head lamp if accidental breakage occurs. The lamp and battery back both feature detachable straps and electrical plugs. This design also offers the possibility of adding accessories like a 1.5 m extension cable and hip mounted battery pack.



Versatile Headlamp Design

The versatile Hyperfocus™ lens technology that is incorporated into our head lamps feature an adjustable beam angle. It is easy to operate with one hand and gives the user the ability to adjust the beam from a broad flood light to a narrow spotlight.



V3air Head Torch

PN: SBV3air

- An essential companion on the pursuit of adventure that offers best power to cost ratio. Designed with freedom and weightlessness in mind, to ensure maximum comfort and easy operation. The headlamp is equipped with a minimized battery pack containing 3 x AAA batteries, but keeping a fully electronic control system, durable switch and proven efficiency on the light curve.



Beam: Sliding Hyperfocus™
Switch: Memory Touch Function Button
Power Source: 3 x AAA

Brightness Modes:
Boost, Dimmer, Memory & SOS

Performance:
BOOST 250-25 Lms / 1 Hr 30 Mins.
High 150-15 Lms / 2 Hr 45 Mins.
Low 5-1 Lms / 100 Hrs.

Body: Dark Grey Hi-Tech Compound / Aluminium
Headband: Fits to 50-70 centimeters
Weight (incl. battery): 140g
Protection Rating: Splash Waterproof IPx4

Included accessories:
Manual, Cross-band

V3pro Head Torch

PN: SBV3pro

- The powerful LED headlamp V3pro, is designed with a meticulous attention to detail combining all of our experience in premium headlamps. The SBQ3 is equipped with an array of our advanced technologies, including a unique plug system for maximum versatility and fully electronic control system with dimmer and memory features.



Beam: Sliding Hyperfocus™
Switch: Memory Touch Function Button
Power Source: 4 x AAA

Brightness Modes:
Boost, Dimmer, Memory & SOS

Performance:
BOOST 320-32 Lms / 1 Hr 15 Mins.
High 200-20 Lms / 2 Hr 30 Mins.
Low 6-1 Lms / 100 Hrs.

Body: Dark Grey Hi-Tech Compound / Aluminium
Headband: Fits to 50-70 centimeters
Weight (incl. battery): 170 g
Protection Rating: Splash Waterproof IPx4

Included accessories:
Manual, Belt Mountable Pouch, Cross-band

Rechargeable Head Torches

V3airR Rechargeable Head Torch

PN: SBV3airR

- Achieve remarkable efficiency without ever compromising performance. Introducing the ultimate power-to-cost rechargeable lightweight headlamp. Featuring a minimized battery pack but keeping fully electronic control system. Delivers an impressive 320 lumens from a lightweight 1400 mAh Li-ion battery.



Beam: Sliding Hyperfocus™
Switch: Memory Touch Function Button
Power Source: 1 x Li-ion Polymer (5.18W)

Brightness Modes:

Boost, Dimmer, Memory & SOS

Performance:

BOOST 320-32 Lms / 1 Hr 30 Mins.
High 250-25 Lms / 1 Hr 30 Mins.
Low 5-1 Lms / 100 Hrs.
Body: Dark Grey Hi-Tech Compound / Aluminium
Headband: Fits to 50-70 centimeters
Weight (incl. battery): 148 g
Protection Rating: Splash Waterproof IPx4

Included accessories:

Manual, Belt Mountable Pouch, 240 Volt USB Transformer, USB cable, Cross-band

V3proR Rechargeable Head Torch

PN: SBV3proR

- The V3pro rechargeable brings together astonishing performance and brilliant design in a light weight solution. Fitted as a standard with Hyperfocus™, Adjustable angle, Interchangeable cable and carefully developed electronic software, which will perform with a Constant Current Light output till the batteries are completely drained.



Beam: Sliding Hyperfocus™
Switch: Memory Touch Function Button
Power Source: Li-ion Polymer (10.4 Wh / 3.7 V)

Brightness Modes:

Boost, Dimmer, Memory & SOS

Performance:

BOOST 400-40 Lms / 2 Hrs.
High 280-28 Lms / 2 Hrs.
Low 6-1 Lms / 100 Hrs.

Body: Dark Grey Hi-Tech Compound / Aluminium
Headband: Fits to 50-70 centimeters
Protection Rating: Splash Waterproof IPx4
Weight (incl. battery): 184g

Included accessories:

Manual, Belt Mountable Pouch, USB cable, Cross-band & In-car Charger

V4proR Rechargeable Head Torch

PN: SBV4proR

- The V4pro rechargeable is the most technologically advanced headlamp in Suprabeam history. It has been developed based upon feedback and requests from active sport enthusiasts and professionals.
- Based on their feedback we have created the ultimate headlamp, for active people craving the utmost when it comes to portable lighting.



Beam: Fixed
Switch: Memory Touch Function Button
Power Source: Li-ion Polymer (10.4 Wh / 3.7 V)

Brightness Modes:

Boost, Dimmer, Memory & SOS

Performance:

BOOST 800-80 Lms / 1 Hr 45 Mins.
High 400-40 Lms / 2 Hrs.
Low 12-1 Lms / 100 Hrs.

Body: Dark Grey Hi-Tech Compound / Aluminium
Headband: Fits to 50-70 centimeters
Weight (incl. battery): 195g
Protection Rating: Splash Waterproof IPx4

Included accessories: Manual, Belt Mountable Pouch, USB cable, 240 Volt USB Transformer, Cross-band & In-car Charger

suprabeam® TORCHES & HEAD LAMPS

Torch & Headlamp Accessories

In-Car charger for All rechargeable torches

PN: SBCC

Wall charger for SBQ3R and SBQ7XR



Q3R Lithium battery

PN: SBQ3RBAT

Q3R & Q4xr Lithium battery



Q7XR Lithium battery

PN: SBQ7BAT

Q7XR Lithium battery



USB Charging Cable

PN: SBQ9950026

USB Charging Cable for SBQWC



Traffic Wand

Q3 Torches PN: SBQ3W

Q4 Torches PN: SBQ950.043

Q7 Torches PN: SBQ950.044

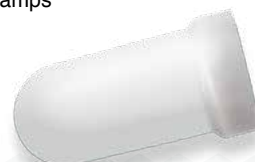
Traffic Wand Accessory for those unexpected emergencies.



Q3/V3 Camping Bulb

PN: SBCAMPINGBULB

Convert your torch or head lamp into a compact flood light for workshop, car or camping. Suits Q3, Q3classic, Q3air, Q3R torches and V3, V3airR, V3air & V3airR head lamps



Wall charger for All rechargeable torches

PN: SBQWC

Wall charger for SBQ3R and SBQ7XR



Q3 / V3 Colour Filters

PN: SB3CF

Blue, Red, Green & Yellow colour filters to suit Q2, Q3 Q3r, Q3classic torches & V3 V3air, V3airR, V3pro & V3proR head lamps



Q7xr Colour Filters

PN: SBQ950.030

Blue, Red, Green & Yellow colour filters to suit Q7xr torch.



V-Pro Series Headlamp Cable

PN: SBQ9950044

3 Pin Cable for V3pro, V3proR & V4proR Headlamp



Torch Helmet Mount

PN: SBQ950.070

Torch Helmet Mount for the Q3, Q3r, Q3classic, Q3defend, Q7defend, Q4xr, Q7compact, Q7xr torches



Q3 Bike Holder

PN: SBBIKEHOLDER

• Mount rotates 360°

Fits Q3, Q3r, Q3classic, Q3defend, Q7defend, Q4xr, Q7compact, Q7xr torches
Clamp Range: 25.5 - 29.5 mm



Automotive Electrical Fuses & Connector Kits

Spade, Flag, Butt & Bullet Connectors

PN: AAK21

110 piece kit includes an assortment of 19 types of spade, flag, butt & bullet connectors, in a variety of Blue Red & Yellow.

110 piece kit includes an assortment of 19 types of spade, flag, butt & bullet connectors:

Butt Connector Blue Terminals PN: 35179 × 5
Butt Connector Red Terminals PN: 34528 × 5
Butt Connector Yellow Terminals PN: 34530 × 5
Female Bullet Blue Terminals PN: 35005 × 5
Female Bullet Red Terminals PN: 35004 × 5
Female Bullet Yellow Terminals PN: 35078 × 5
Female Flat Plug Red Terminals PN: 35180 × 5
Female Spade Blue Terminals PN: 35032 × 5
Female Spade Blue Terminals PN: 35312 × 5
10Female Spade Red Terminals PN: 34528 × 5

Female Spade Red Terminals PN: 35040 × 5
Female Spade Red Terminals PN: 35414 × 10
Female Spade Yellow Terminals PN: 35047 × 5
Female Spade Yellow Terminals PN: 35266 × 5
Flat Plug Blade Blue Terminals PN: 35285 × 5
Flat Plug Blade Red Terminals PN: 35135 × 10
Flat Plug Blade Yellow Terminals PN: 35285 × 5
Flat Plug Sleeve Blue Terminals PN: 34529 × 5
Piggy Back Blue Terminals PN: 35262 × 5



Pre-Insulated Electrical Terminals

PN: AAK22

125 piece kit includes an assortment of 20 types of pre-insulated Round and Male Bullet electrical terminals, in a variety of Blue Red & Yellow.

125 piece kit includes an assortment of 20 types of pre-insulated electrical terminals:

3 mm Round Red Terminals PN: 39901 × 10
3.5 mm Round Blue Terminals PN: 39961 × 5
3.7 mm Round Red Terminals PN: 39902 × 10
4 mm Round Red Terminals PN: 39903 × 10
5 mm Round Red Terminals PN: 39904 × 10
5 mm Round Yellow Terminals PN: 39911 × 5
5 mm Round Blue Terminals PN: 39907 × 5
5.5 mm Round Yellow Terminals PN: 39910 × 5
6 mm Round Blue Terminals PN: 39908 × 5
6 mm Round Yellow Terminals PN: 39912 × 5

8 mm Round Blue Terminals PN: 39009 × 5
8 mm Round Yellow Terminals PN: 39913 × 5
10 mm Round Yellow Terminals PN: 39914 × 5
10 mm Round Red Terminals PN: 39974 × 5
12 mm Round Yellow Terminals PN: 39915 × 5
Male Bullet Blue Terminals PN: 35042 × 5
Male Bullet Blue Terminals PN: 35133 × 5
Male Bullet Red Terminals PN: 35038 × 5
Male Bullet Yellow Terminals PN: 35084 × 5
Male Crimped Blue Terminals PN: 35051 × 10



Open End & Pin Electrical Terminals

PN: AAK23

105 piece kit includes an assortment of 19 types of open end & pin electrical terminals, in a variety of Blue Red & Yellow.

105 piece kit includes an assortment of 19 types of open end & pin electrical terminals:

3 mm Open End Blue Terminals PN: 39973 × 5
3 mm Open End Red Terminals PN: 39962 × 10
3.5 mm Open End Red Terminals PN: 39963 × 5
4 mm Open End Blue Terminals PN: 39959 × 5
4 mm Open End Red Terminals PN: 39964 × 5
4 mm Open End Yellow Terminals PN: 39960 × 5
4 mm Open End Yellow Terminals PN: 39960 × 5
5 mm Open End Blue Terminals PN: 39965 × 5
5 mm Open End Red Terminals PN: 39976 × 5
5 mm Open End Red Terminals PN: 39976 × 5

5 mm Open End Yellow Terminals PN: 39966 × 5
6 mm Open End Blue Terminals PN: 39980 × 5
6 mm Open End Red Terminals PN: 39977 × 5
6 mm Open End Yellow Terminals PN: 39967 × 5
8 mm Open End Yellow Terminals PN: 39983 × 5
8 mm Open End Blue Terminals PN: 39979 × 5
Pin Blue Terminals PN: 39901 × 10
Pin Red Terminals PN: 39013 × 5
Pin Yellow Terminals PN: 39023 × 5



Automotive Electrical Fuses & Connector Kits

Maxi Plug-in Blade Fuses

PN: AAK24

50 piece kit includes an assortment of 10 types of Maxi Plug Blade Fuses, ranging from 7.5 AMP, 10 AMP, 15 AMP, 20 AMP, 25 AMP, 35 AMP, 40 AMP Fuses.

50 piece kit includes an assortment of 10 types of maxi plug blade fuses:

- Maxi Plug-In Blade Blue 15 AMP Fuses x 5
- Maxi Plug-In Blade Blue 15 AMP Fuses x 5
- Maxi Plug-In Blade Brown 7.5 AMP Fuses x 5
- Maxi Plug-In Blade Dark Orange 40 AMP Fuses x 5
- Maxi Plug-In Blade Light Orange 15 AMP Fuses x 5
- Maxi Plug-In Blade Purple 35 AMP Fuses x 5
- Maxi Plug-In Blade Red 10 AMP Fuses x 5
- Maxi Plug-In Blade Red 15 AMP Fuses x 5
- Maxi Plug-In Blade White: Clear 25 AMP Fuses x 5
- Maxi Plug-In Blade Yellow 20 AMP Fuses x 5



Mini Plug-in Blade & Ceramic Fuses

PN: AAK27

70 piece kit includes an assortment of 11 types of 5 AMP, 7.5 AMP, 8 AMP, 10 AMP, 15 AMP, 16 AMP, 20 AMP, 25 AMP & 30 AMP Ceramic and Mini Plug-In Blade Fuses.

70 piece kit includes an assortment of 11 types of mini blade & ceramic fuses:

- Ceramic (Blue) 25 AMP Fuses x 10
- Ceramic (Red) 16 AMP Fuses x 10
- Ceramic (White) 8 AMP Fuses x 10
- Ceramic (Yellow) 5 AMP Fuses x 5
- Mini Plug-In Blade (Blue) 15 AMP Fuses x 5
- Mini Plug-In Blade (Brown) 7.5 AMP Fuses x 5
- Mini Plug-In Blade (Green) 30 AMP Fuses x 5
- Mini Plug-In Blade (Orange) 5 AMP Fuses x 5
- Mini Plug-In Blade (Red) 10 AMP Fuses x 5
- Mini Plug-In Blade (White) 25 AMP Fuses x 5
- Mini Plug-In Blade (Yellow) 20 AMP Fuses x 5



Automotive Glass Tube & Maxi-Blade Fuses

PN: AAK28

70 piece kit includes an assortment of 14 types of automotive glass tube & maxi-blade fuses.

70 piece kit includes an assortment of 14 types of automotive glass tube & maxi-blade fuses:

- Automotive Glass Tube 10 AMP Fuses x 5
- Automotive Glass Tube 15 AMP Fuses x 5
- Automotive Glass Tube 20 AMP Fuses x 5
- Automotive Glass Tube 25 AMP Fuses x 5
- Automotive Glass Tube 30 AMP Fuses x 5
- Automotive Glass Tube 5 AMP Fuses x 5
- Maxi Plug-In Blade Blue 15 AMP Fuses x 5
- Maxi Plug-In Blade Dark Orange 40 AMP Fuses x 5
- Maxi Plug-In Blade Purple 35 AMP Fuses x 5
- Maxi Plug-In Blade White: Clear 25 AMP Fuses x 5
- Maxi Plug-In Blade Yellow 20 AMP Fuses x 5
- Maxi Plug-In Brown 7.5 AMP Fuses x 5
- Maxi Plug-In Light Orange 5 AMP Fuses x 5
- Maxi Plug-In Red 10 AMP Fuses x 5



Automotive Clip & Split Pin Kits

Speed Clips & Nuts

PN: AAK05

90 piece kit includes an assortment of 7 types of speed clips & nuts, ranging from (No. 10) 4.8 mm to (No.14) 6.3 mm Speed Clips and 5 & 6 mm Speed Nuts.

90 piece kit includes an assortment of 7 types of speed clips & nuts:

- (No. 10) 4.8 mm Speed Clips × 10
- (No.8) 4.2 mm Speed Clips × 15
- (No.6) 3.5 mm Speed Clips × 15
- (No.12) 5.5 mm Speed Clips × 10
- (No.14) 6.3 mm Speed Clips × 20
- 5 mm Speed Nuts × 10
- 6 mm Speed Nuts × 10



DIN 6799 Black Oxide E Clips

PN: AAK20

300 piece kit includes an assortment of 8 types of DIN 6799 black oxide e clips, ranging from M3, M4, M5, M6, M7, M8, M10 & M12.

300 piece kit includes an assortment of 8 types of DIN 6799 black oxide e clips:

- M3 E Clips × 45
- M4 E Clips × 40
- M5 E Clips × 40
- M6 E Clips × 40
- M7 E Clips × 40
- M8 E Clips × 40
- M10 E Clips × 30
- M12 E Clips × 25



Internal Circlips

PN: AAK29

120 piece kit includes an assortment of 16 types of internal circlips, ranging from M5 to M24.

120 piece kit includes an assortment of 16 types of internal circlips:

- | | |
|----------------------------|---------------------------|
| M5 Internal Circlips × 10 | M16 Internal Circlips × 5 |
| M6 Internal Circlips × 10 | M17 Internal Circlips × 5 |
| M7 Internal Circlips × 10 | M18 Internal Circlips × 5 |
| M8 Internal Circlips × 10 | M19 Internal Circlips × 5 |
| M10 Internal Circlips × 10 | M21 Internal Circlips × 5 |
| M12 Internal Circlips × 10 | M22 Internal Circlips × 5 |
| M14 Internal Circlips × 10 | M23 Internal Circlips × 5 |
| M15 Internal Circlips × 10 | M24 Internal Circlips × 5 |



External Circlips

PN: AAK30

120 piece kit includes an assortment of 16 types of external circlips, ranging from M5 to M24.

120 piece kit includes an assortment of 16 types of external circlips:

- | | |
|----------------------------|---------------------------|
| M5 External Circlips × 10 | M17 External Circlips × 5 |
| M6 External Circlips × 10 | M18 External Circlips × 5 |
| M7 External Circlips × 10 | M19 External Circlips × 5 |
| M8 External Circlips × 10 | M21 External Circlips × 5 |
| M10 External Circlips × 10 | M22 External Circlips × 5 |
| M12 External Circlips × 10 | M23 External Circlips × 5 |
| M14 External Circlips × 10 | M24 External Circlips × 5 |
| M15 External Circlips × 10 | |
| M16 External Circlips × 5 | |



Automotive Clip & Split Pin Kits

DIN 94 Small Split Pins

PN: AAK08

300 piece kit includes an assortment of 9 types of DIN 94 split pins, ranging from 2 mm dia. x 25 mm to 5 mm dia. x 63 mm Split Pins.

300 piece kit includes an assortment of 9 types of DIN 94 small split pins:

2 mm dia. x 25 mm Split Pins x 45
2 mm dia. x 30 mm Split Pins x 35
2.5 mm dia. x 40 mm Split Pins x 40
3 mm dia. x 56 mm Split Pins x 50
3.2 mm dia. x 40 mm Split Pins x 40
4 mm dia. x 63 mm Split Pins x 15
4 mm dia. x 40 mm Split Pins x 35
4 mm dia. x 45 mm Split Pins x 15
5 mm dia. x 63 mm Split Pins x 25

DIN 94 Large Split Pins

PN: AAK09

500 piece kit includes an assortment of 10 types of DIN 94 split pins, ranging from 1.6 mm dia. x 32 mm to 5 mm dia. x 50 mm Split Pins.

500 piece kit includes an assortment of 10 types of DIN 94 large split pins:

1.6 mm dia. x 32 mm Split Pins x 50
2.5 mm dia. x 16 mm Split Pins x 50
2.5 mm dia. x 25 mm Split Pins x 50
3.2 mm dia. x 20 mm Split Pins x 50
3.2 mm dia. x 40 mm Split Pins x 50
3.2 mm dia. x 50 mm Split Pins x 50
4 mm dia. x 25 mm Split Pins x 50
4 mm dia. x 40 mm Split Pins x 50
4 mm dia. x 71 mm Split Pins x 50
5 mm dia. x 50 mm Split Pins x 50



Automotive Nut, Bolt & Stud Kits

Japanese Automotive Nuts

PN: AAK06

140 piece kit includes an assortment of 10 types of fine & coarse Japanese automotive nuts, ranging from M6x1.25 to M12x1.5.

140 piece kit includes an assortment of 10 types of Japanese automotive nuts:

M6x1.25 Japanese Coarse Thread Nuts x 30
M7x1 Japanese Coarse Thread Nuts x 20
M8x1 Japanese Fine Thread Nuts x 20
M8x1.25 Japanese Coarse Thread Nuts x 10
M8x1.25 Japanese Coarse Thread Nuts x 10

M10x1.25 Japanese Fine Thread Nuts x 10
M10x1.25 Japanese Fine Thread Nuts x 15
M10x1.5 Japanese Coarse Thread Nuts x 15
M12x1.25 Japanese Extra Fine Thread Nuts x 5
M12x1.5 Japanese Fine Thread Nuts x 5



Self Locking Nuts

PN: AAK10

100 piece kit includes an assortment of 9 types of Nyloc & All Metal Self Locking, in Extra Fine, Fine & Coarse, ranging from M6 to M12.

100 piece kit includes an assortment of 9 types of self locking nuts:

M6 Metric Coarse Nyloc Nuts x 25
M8 Metric Coarse Nyloc Nuts x 10
M8 Metric Fine All Metal Self Locking Nuts x 10
M10x1 Metric Extra Fine All Metal Self Locking Nuts x 10
M10x1.25 Metric Fine All Metal Self Locking Nuts x 10
M10x1.25 Metric Fine Nyloc Nuts x 15
M12x1.25 Metric Extra Fine Nyloc Nuts x 5
M12x1.5 Metric Fine Nyloc Nuts x 10
M12x1.75 Metric Coarse All Metal Self Locking Nuts x 5



Automotive Nut, Bolt & Stud Kits

Exhaust Manifold Studs & Nuts

PN: AAK11

80 piece kit includes an assortment of 8 types of exhaust manifold studs & nuts ranging from M8x1.25 to M10x1.5 Copper Nuts and M8x1.25x40 to M10x1.5x50 Studs.

80 piece kit includes an assortment of 8 types of exhaust manifold studs & nuts:

- M8x1.25 Copper Nuts × 10
- M8x1.25x40 Studs × 10
- M8x1.25x50 Studs × 10
- M10x1.25 Copper Nuts × 10
- M10x1.25x45 Studs × 10
- M10x1.25x50 Studs × 10
- M10x1.5 Copper Nuts × 10
- M10x1.5x50 Studs × 10



Prop-shaft (Grade 10.9) Bolts

PN: AAK25

40 piece kit includes an assortment of 10 types of (Grade 10.9) prop-shaft bolts, ranging from M8x1x30 to M12 × 1.5 × 40 mm.

40 piece kit includes an assortment of 10 types of prop-shaft bolts:

- M8 × 1.0 × 30 mm (Grade 10.9) Prop-shaft Bolts × 4
- M8 × 1.0 × 35 mm (Grade 10.9) Prop-shaft Bolts × 4
- M10 × 1.25 × 25 mm (Grade 10.9) Prop-shaft Bolts × 6
- M10 × 1.25 × 30 mm (Grade 10.9) Prop-shaft Bolts × 4
- M10 × 1.25 × 40 mm (Grade 10.9) Prop-shaft Bolts × 4
- M10 × 1.0 × 30 mm (Grade 10.9) Prop-shaft Bolts × 4
- M12 × 1.25 × 40 mm (Grade 10.9) Prop-shaft Bolts × 4
- M12 × 1.25 × 45 mm (Grade 10.9) Prop-shaft Bolts × 3
- M12 × 1.5 × 35 mm (Grade 10.9) Prop-shaft Bolts × 4
- M12 × 1.5 × 40 mm (Grade 10.9) Prop-shaft Bolts × 3



Durlock Flange Bolts & Flange Nuts

PN: AAK26

100 piece kit includes an assortment of 12 types of (Std Coarse Thread) DIN 6921 durlock flange Bolts & DIN 6923 flange nuts and bolts, ranging from M6 × 12 to M10 × 25.

100 piece kit includes an assortment of 12 types of durlock flange sets & flange nuts:

- DIN 6921 M6 × 12 mm (Std Coarse Thread) Flange Bolt (Zinc Yellow) × 10
- DIN 6921 M6 × 16 mm (Std Coarse Thread) Flange Bolt (Zinc Yellow) × 10
- DIN 6921 M8 × 16 mm (Std Coarse Thread) Flange Bolt (Zinc Yellow) × 5
- DIN 6921 M8 × 20 mm (Std Coarse Thread) Flange Bolt (Zinc Yellow) × 5
- DIN 6921 M10 × 25 mm (Std Coarse Thread) Flange Sets × 5
- M6 × 25 mm (Std Coarse Thread) Flange Bolt (Zinc Yellow) × 10
- M6 × 30 mm (Std Coarse Thread) Flange Bolt (Zinc Yellow) × 10
- M8 × 35 mm Flange Bolt (Zinc Yellow) × 5
- M8 × 40 mm (Std Coarse Thread) Flange Bolt (Zinc Yellow) × 5
- DIN 6923 M6 mm (Std Coarse Thread) Cerated Flange Nuts × 15
- DIN 6923 M8 mm (Std Coarse Thread) Cerated Flange Nuts × 15
- DIN 6923 M10 mm (Std Coarse Thread) Cerated Flange Nuts × 5



Automotive Screw Kits

Japanese Sems Fine Hex Bolts

PN: AAK01

140 piece kit includes an assortment of 10 types of Japanese automotive fine hex Sems screws:

- M5 × 16 MM (8 MM Hex) Japanese Fine Hex Sems Screws × 20
- M5 × 20 MM (8 MM Hex) Japanese Fine Hex Sems Screws × 20
- M5 × 25 MM (8 MM Hex) Japanese Fine Hex Sems Screws × 20
- M6 × 16 MM (10 MM Hex) Japanese Fine Hex Sems Screws × 20
- M6 × 20 MM (10 MM Hex) Japanese Fine Hex Sems Screws × 10
- M6 × 25 MM (10 MM Hex) Japanese Fine Hex Sems Screws × 10
- M8 × 16 MM (12 MM Hex) Japanese Fine Hex Sems Screws × 10
- M8 × 20 MM (12 MM Hex) Japanese Fine Hex Sems Screws × 10
- M8 × 25 MM (12 MM Hex) Japanese Fine Hex Sems Screws × 10
- M8 × 30 MM (12 MM Hex) Japanese Fine Hex Sems Screws × 10



Japanese Sems Hex Bolts

PN: AAK02

50 piece kit includes an assortment of 8 types of

Japanese automotive hex Sems screws:

- M8x1.25 × 35 MM Japanese Automotive Coarse Hex Sems Screws × 10
- M8x1.25 × 40 MM Japanese Automotive Coarse Hex Sems Screws × 5
- M8x1.25 × 25 MM Japanese Automotive Coarse Hex Sems Screws × 5
- M10x1.25 × 16 MM Japanese Automotive Fine Hex Sems Screws × 5
- M10x1.25 × 20 MM Japanese Automotive Fine Hex Sems Screws × 5
- M10x1.25 × 25 MM Japanese Automotive Fine Hex Sems Screws × 10
- M10x1.25 × 30 MM Japanese Automotive Fine Hex Sems Screws × 5
- M10x1.25 × 40 MM Japanese Automotive Fine Hex Sems Screws × 5



Japanese Sems Hex Fender Screws

PN: AAK03

130 piece kit includes an assortment of 8 types of hex (Sems) fender screws (JIS spec):

- No.8 (4.2 MM × 16 MM) Hew Fender Screws × 20
- No.8 (4.2 MM × 19 MM) Hew Fender Screws × 20
- No.8 (4.2 MM × 25 MM) Hew Fender Screws × 10
- No.10 (4.8 MM × 19 MM) Hew Fender Screws × 10
- No.10 (4.8 MM × 25 MM) Hew Fender Screws × 20
- No.12 (5.5 MM × 19 MM) Hew Fender Screws × 20
- No.14 (6.3 MM × 16 MM) Hew Fender Screws × 15
- No.14 (6.3 MM × 19 MM) Hew Fender Screws × 15



Automotive Screw Kits

Mushroom Pozidrive Self Tapping Screws

PN: AAK04

200 piece kit includes an assortment of 8 types of Pozidrive self tapping screws:

- M8 (4.2 MM × 19 MM) Pozidrive Self Tapping Screws × 20
- M10 (4.8 MM × 13 MM) Pozidrive Self Tapping Screws × 20
- No 8 (4.2 MM × 25 MM) Pozidrive Self Tapping Screws × 30
- No.8 (4.2 MM × 13 MM) Pozidrive Self Tapping Screws × 25
- No.8 (4.2 MM × 16 MM) Pozidrive Self Tapping Screws × 20
- No.10 (4.8 MM × 16 MM) Pozidrive Self Tapping Screws × 30
- No.10 (4.8 MM × 19 MM) Pozidrive Self Tapping Screws × 30
- No.10 (4.8 MM × 30 MM) Pozidrive Self Tapping Screws × 25



Pan Compi (Sems) Machine Screws

PN: AAK07

180 piece kit includes an assortment of 8 types of pan compi machine screws:

- M3 × 25 MM Pan Compi Machine Screws × 40
- M5 × 12 MM Pan Compi Machine Screws × 20
- M5 × 16 MM Pan Compi Machine Screws × 15
- M5 × 20 MM Pan Compi Machine Screws × 15
- M5 × 25 MM Pan Compi Machine Screws × 30
- M6 × 16 MM Pan Compi Machine Screws × 20
- M6 × 20 MM Pan Compi Machine Screws × 20
- M6 × 25 MM Pan Compi Machine Screws × 20



DIN 912 Socket Head Cap Screws

PN: AAK17

120 piece kit includes an assortment of 10 types of DIN 912 (Grade 12.9) hex socket cap screws:

- M5 × 16 MM Hex Socket (Grade 12.9) Cap Screws × 20
- M5 × 20 MM Hex Socket (Grade 12.9) Cap Screws × 20
- M6 × 16 MM Hex Socket (Grade 12.9) Cap Screws × 10
- M6 × 20 MM Hex Socket (Grade 12.9) Cap Screws × 10
- M6 × 25 MM Hex Socket (Grade 12.9) Cap Screws × 10
- M8 × 16 MM Hex Socket (Grade 12.9) Cap Screws × 10
- M8 × 16 MM Hex Socket (Grade 12.9) Cap Screws × 10
- M8 × 25 MM Hex Socket (Grade 12.9) Cap Screws × 10
- M10 × 20 MM Hex Socket (Grade 12.9) Cap Screws × 10
- M10 × 30 MM Hex Socket (Grade 12.9) Cap Screws × 10



Automotive Screw Kits

DIN 916 Socket Head Grub Screws

PN: AAK18

300 piece kit includes an assortment of 8 types of DIN 916 (grade 10.9) hex head grub screws:

- M4 × 10 MM Hex Head Grub Screws × 35
- M4 × 12 MM Hex Head Grub Screws × 35
- M5 × 10 MM Hex Head Grub Screws × 35
- M5 × 12 MM Hex Head Grub Screws × 45
- M5 × 8 MM Hex Head Grub Screws × 35
- M6 × 10 MM Hex Head Grub Screws × 45
- M6 × 12 MM Hex Head Grub Screws × 35
- M6 × 16 MM Hex Head Grub Screws × 35



DIN 7991 Countersunk Socket Head Screws

PN: AAK19

160 piece kit includes an assortment of 10 types of DIN 7991 (Grade 10.9) hex socket countersunk screws:

- M4 × 12 MM Countersunk (Grade 10.9) Hex Socket Screws × 30
- M4 × 16 MM Countersunk (Grade 10.9) Hex Socket Screws × 20
- M5 × 16 MM Countersunk (Grade 10.9) Hex Socket Screws × 20
- M5 × 20 MM Countersunk (Grade 10.9) Hex Socket Screws × 20
- M6 × 16 MM Countersunk (Grade 10.9) Hex Socket Screws × 15
- M6 × 25 MM Countersunk (Grade 10.9) Hex Socket Screws × 15
- M6 × 30 MM Countersunk (Grade 10.9) Hex Socket Screws × 10
- M8 × 25 MM Countersunk (Grade 10.9) Hex Socket Screws × 10
- M8 × 30 MM Countersunk (Grade 10.9) Hex Socket Screws × 10
- M10 × 30 MM Countersunk (Grade 10.9) Hex Socket Screws × 10



HAND TOOLS & FASTENERS

Automotive Grease Nipple Kits

Grease Nipples - Small Kit

PN: AAK15

50 piece kit includes an assortment of 8 types of grease nipples - small kit:

- GN10A 1/8" NPT × 180° BSP Grease Nipples × 10
- GN112 1/8" NPT × 90° Grease Nipples × 5
- GN12A 1/8" NPT × 90° BSP Grease Nipples × 5
- GN13 1/4 SAE/UNF Grease Nipples × 5
- GN26 M8x1.25x0° Grease Nipples × 5
- GN28 M8x1.25x90° Grease Nipples × 5
- GN30 M6x1x45° Grease Nipples × 10
- GN36 M8x1x45° Grease Nipples × 5

Grease Nipples - Large Kit

PN: AAK16

100 piece kit includes an assortment of 8 types of grease nipples - large kit:

- GN10A 1/8" NPT × 0° BSP Grease Nipples × 10
- GN112 1/8" NPT × 90° Grease Nipples × 10
- GN12A 1/8" NPT × 90° BSP Grease Nipples × 10
- GN13 1/4 SAE/UNF Grease Nipples × 10
- GN26 M8x1.25 × 0° Grease Nipples × 15
- GN28 M8x1.25 × 90° Grease Nipples × 15
- GN30 M6x1 × 45° Grease Nipples × 15
- GN36 M8x1 × 45° Grease Nipples × 15



Automotive Washer Kits

DIN 7604A Small Soft Annealed Copper Washers

PN: AAK12

130 piece kit includes an assortment of 8 types of DIN 7604a small soft annealed copper washers:

M6 Copper Washers x 20
M8 Copper Washers x 20
M10 Copper Washers x 20
M12 Copper Washers x 20
M14 Copper Washers x 20
M16 Copper Washers x 10
M17 Copper Washers x 10
M18 Copper Washers x 10



Fibre Washers

PN: AAK13

250 piece kit includes an assortment of 8 types of fibre washers:

M4 (4.3 x 9 x 0.8 mm) Fibre Washers x 50
M5 (5.2 x 11 x 0.8 mm) Fibre Washers x 40
M6 (6.4 x 12.7 x 0.8 mm) Fibre Washers x 40
M8 (8.4 x 16 x 0.8 mm) Fibre Washers x 40
M10 (10.2 x 16 x 0.8 mm) Fibre Washers x 30
M12 (12.7 x 2.0 x 0.8 mm) Fibre Washers x 20
M14 (14.9 x 22 x 0.8 mm) Fibre Washers x 15
M16 (16.1 x 22 x 0.8 mm) Fibre Washers x 15



DIN 6798 Internal & External Star Washers

PN: AAK14

300 piece kit includes an assortment of 10 types of DIN 6798 internal & external star washers:

M5 External Star Washers x 35
M5 Internal Star Washers x 35
M6 External Star Washers x 35
M6 Internal Star Washers x 35
M8 External Star Washers x 20
M8 Internal Star Washers x 20
M10 External Star Washers x 20
M10 Internal Star Washers x 20
M12 External Star Washers x 40
M12 Internal Star Washers x 40



Automotive O Ring Kits

Nitrile 70 Duro Shore A Imperial O-rings

PN: AAK31

225 piece kit includes an assortment of 18 types of nitrile 70 duro shore a Imperial O-rings:

3/32" ID x 1/16" CS (2.57 mm ID x 1.78 mm CS) Nitrile 70 O-rings x 10
 1/8" ID x 1/16" CS (2.9 mm ID x 1.78 mm CS) Nitrile 70 O-rings x 20
 5/32" ID x 1/16" CS (3.68 mm ID x 1.78 mm CS) Nitrile 70 O-rings x 20
 3/16" ID x 1/16" CS (4.47 mm ID x 1.78 mm CS) Nitrile 70 O-rings x 20
 7/32" ID x 1/16" CS (5.28 mm ID x 1.78 mm CS) Nitrile 70 O-rings x 15
 1/4" ID x 1/16" CS (6.07 mm ID x 1.78 mm CS) Nitrile 70 O-rings x 15
 5/16" ID x 1/16" CS (7.59 mm ID x 1.78 mm CS) Nitrile 70 O-rings x 15
 3/8" ID x 3/32" CS (9.19 mm ID x 2.62 mm CS) Nitrile 70 O-rings x 10
 3/8" ID x 1/16" CS (9.25 mm ID x 1.78 mm CS) Nitrile 70 O-rings x 10
 7/16" ID x 3/32" CS (10.77 mm ID x 2.62 mm CS) Nitrile 70 O-rings x 10
 1/2" ID x 3/32" CS (12.37 mm ID x 2.62 mm CS) Nitrile 70 O-rings x 10
 9/16" ID x 3/32" CS (13.94 mm ID x 2.62 mm CS) Nitrile 70 O-rings x 10
 5/8" ID x 3/32" CS (15.54 mm ID x 2.62 mm CS) Nitrile 70 O-rings x 10
 5/8" ID x 1/16" CS (15.6 mm ID x 1.78 mm CS) Nitrile 70 O-rings x 10
 11/16" ID x 3/32" CS (17.12 mm ID x 2.62 mm CS) Nitrile 70 O-rings x 10
 3/4" ID x 5/32" CS (18.72 mm ID x 3.63 mm CS) Nitrile 70 O-rings x 10
 3/4" ID x 3/32" CS (18.72 mm ID x 2.62 mm CS) Nitrile 70 O-rings x 10
 13/16" ID x 5/32" CS (20.35 mm ID x 3.63 mm CS) Nitrile 70 O-rings x 10



NBR-70 Standard Metric O-rings

PN: AAK32

386 piece kit includes an assortment of 30 types of NBR-70 standard metric o-rings:

3.0 mm ID x 2.0 mm CS (R-01) Nitrile 70 O-rings x 16
 4.0 mm ID x 2.0 mm CS (R-02) Nitrile 70 O-rings x 16
 5.0 mm ID x 2.0 mm CS (R-03) Nitrile 70 O-rings x 16
 6.0 mm ID x 2.0 mm CS (R-04) Nitrile 70 O-rings x 16
 7.0 mm ID x 2.0 mm CS (R-05) Nitrile 70 O-rings x 16
 8.0 mm ID x 2.0 mm CS (R-06) Nitrile 70 O-rings x 16
 10 mm ID x 2.0 mm CS (R-07) Nitrile 70 O-rings x 16
 10 mm ID x 2.5 mm CS (R-08) Nitrile 70 O-rings x 13
 11 mm ID x 2.5 mm CS (R-09) Nitrile 70 O-rings x 13
 12 mm ID x 2.5 mm CS (R-10) Nitrile 70 O-rings x 13
 14 mm ID x 2.5 mm CS (R-11) Nitrile 70 O-rings x 13
 16 mm ID x 2.5 mm CS (R-12) Nitrile 70 O-rings x 13
 17 mm ID x 2.5 mm CS (R-13) Nitrile 70 O-rings x 13
 19 mm ID x 2.5 mm CS (R-14) Nitrile 70 O-rings x 13
 19 mm ID x 3.0 mm CS (R-15) Nitrile 70 O-rings x 12
 20 mm ID x 3.0 mm CS (R-16) Nitrile 70 O-rings x 12
 22 mm ID x 3.0 mm CS (R-17) Nitrile 70 O-rings x 12
 24 mm ID x 3.0 mm CS (R-18) Nitrile 70 O-rings x 12
 25 mm ID x 3.0 mm CS (R-19) Nitrile 70 O-rings x 12
 27 mm ID x 3.0 mm CS (R-20) Nitrile 70 O-rings x 12
 28 mm ID x 3.0 mm CS (R-21) Nitrile 70 O-rings x 12
 30 mm ID x 3.0 mm CS (R-22) Nitrile 70 O-rings x 12
 32 mm ID x 3.0 mm CS (R-23) Nitrile 70 O-rings x 12
 33 mm ID x 3.0 mm CS (R-24) Nitrile 70 O-rings x 12
 35 mm ID x 3.0 mm CS (R-25) Nitrile 70 O-rings x 12
 36 mm ID x 3.0 mm CS (R-26) Nitrile 70 O-rings x 12
 38 mm ID x 3.0 mm CS (R-27) Nitrile 70 O-rings x 12
 38 mm ID x 4.0 mm CS (R-28) Nitrile 70 O-rings x 9
 41 mm ID x 4.0 mm CS (R-29) Nitrile 70 O-rings x 9
 44 mm ID x 4.0 mm CS (R-30) Nitrile 70 O-rings x 9



Driver Kits

Pozidrive, Square & Magnetic Nut Setters

PN: HAK39

60 piece kit includes an assortment of 12 types of pozidrive, square & magnetic nut setters:

10 MM Magnetic Nut Setters × 2	Pozi No.1 × 25 MM Bits × 6
3/8" Magnetic Nut Setters × 2	Pozi No.1 × 50 MM Bits × 6
Square Drive No.1 × 25 MM Bits × 5	Pozi No.2 × 25 MM Bits × 6
Square Drive No.1 × 50 MM Bits × 5	Pozi No.2 × 50 MM Bits × 5
Square Drive No.2 × 25 MM Bits × 5	Pozi No.3 × 25 MM Bits × 6
Square Drive No.2 × 50 MM Bits × 6	Pozi No.3 × 50 MM Bits × 6



Nut & Bolt Kits

Cheese Head Machine Nuts & Bolts

PN: HAK08

500 piece kit includes an assortment of 16 types of Cheese Head machine bolts ranging from M3x10 to M6x40 & M20 nuts.

500 piece kit includes:

M3x10 Cheese Head Machine Screws × 35	M5x25 Cheese Head Machine Screws × 15
M3x16 Cheese Head Machine Screws × 35	M5x25 Cheese Head Machine Screws × 15
M4x12 Cheese Head Machine Screws × 25	M6x12 Cheese Head Machine Screws × 10
M4x12 Cheese Head Machine Screws × 25	M6x16 Cheese Head Machine Screws × 10
M4x25 Cheese Head Machine Screws × 15	M6x16 Cheese Head Machine Screws × 10
M4x25 Cheese Head Machine Screws × 15	M6x35 Cheese Head Machine Screws × 5
M5x16 Cheese Head Machine Screws × 15	M6x40 Cheese Head Machine Screws × 5
M5x16 Cheese Head Machine Screws × 15	M6 Machine Screw Nuts × 250



Dome & Wing Nuts

PN: HAK10

150 piece kit includes an assortment M5, M6, M8 & M10 Dome Nuts and M4, M6, M8 and M10 Wing Nuts.

150 piece kit includes:

M5 Dome Nuts × 30
M6 Dome Nuts × 40
M8 Dome Nuts × 20
M10 Dome Nuts × 10
M4 Wing Nuts × 20
M6 Wing Nuts × 15
M8 Wing Nuts × 10
M10 Wing Nuts × 5



DIN 934 Zinc Plated Hex Nuts

PN: HAK12

200 piece kit includes an assortment of 8 types of DIN 934 Zinc Plated Hex Nuts, ranging from M4, M5, M6, M8, M10, M12, M14 & M16.

200 piece kit includes:

M4 Hex Nuts × 50
M5 Hex Nuts × 40
M6 Hex Nuts × 30
M8 Hex Nuts × 30
M10 Hex Nuts × 20
M12 Hex Nuts × 15
M14 Hex Nuts × 5
M16 Hex Nuts × 10



Nut & Bolt Kits

Zinc Plated Hex Nuts & Bolts

PN: HAK09

300 piece kit includes an assortment of 9 types of zinc plated M4 & M5 hex bolts and nuts.

300 piece kit includes:

M4 Zinc Plated Hex Nuts × 50	M5x16 Machine Screws × 30
M4x16 Machine Screws × 30	M5x20 Machine Screws × 20
M4x20 Machine Screws × 30	M5x25 Machine Screws × 35
M4x25 Machine Screws × 20	M5x40 Machine Screws × 20
M5 Zinc Plated Hex Nuts × 45	M5x60 Machine Screws × 20



Mild Steel Zinc Plated Nuts & Bolts

PN: HAK11

150 piece kit includes an assortment of 8 types of Mild Steel Zinc Plated M6 & M8 nuts & bolts, ranging from, M6x25, M6x16, M8x20, M8x25, M8x30 & M8x40.

150 piece kit includes:

M6 Mild Steel Hex Nuts × 30	M8x20 Mild Steel Hex Bolts × 15
M6x25 Mild Steel Hex Bolts × 20	M8x25 Mild Steel Hex Bolts × 15
M6x16 Mild Steel Hex Bolts × 20	M8x30 Mild Steel Hex Bolts × 15
M8 Mild Steel Hex Nuts × 20	M8x40 Mild Steel Hex Bolts × 15



Gutter Bolts & Square Pressed Nuts

PN: HAK17

300 piece kit includes an assortment of M6x12 to M6X40 Gutter Bolts and M6 Nut Square Pressed Nuts

300 piece kit includes:

M6 Nut Square Pressed Nuts × 150	M6 × 30 Bolt Gutter Bolts × 15
M6 × 12 Bolt Gutter Bolts × 25	M6 × 50 Bolt Gutter Bolts × 20
M6 × 16 Bolt Gutter Bolts × 25	M6 × 60 Bolt Gutter Bolts × 15
M6 × 20 Bolt Gutter Bolts × 25	M6X40 Bolt Gutter Bolts × 25



Nylon Self Locking Nuts

PN: HAK37

100 piece kit includes an assortment of 8 types of Nylon Self Locking Nuts, ranging from M4, M5, M6, M8, M10, M12 & M16.

100 piece kit includes:

M4 Nylon Self Locking Nuts × 12	M8 Nylon Self Locking Nuts × 15
M5 Nylon Self Locking Nuts × 15	M10 Nylon Self Locking Nuts × 10
M6 Nylon Self Locking Nuts × 20	M12 Nylon Self Locking Nuts × 8
M8 Nylon Self Locking Nuts × 15	M16 Nylon Self Locking Nuts × 5



Nutserts

Aluminium Nutserts

M4 Aluminium PN: NM4RNA

M5 Aluminium PN: NM5RNA

M6 Aluminium PN: NM6RNA

M8 Aluminium PN: NM8RNA

M10 Aluminium PN: NM10RNA

Max. sheet thickness: 4 mm
Pack of 50



Steel Nutserts

M4 Steel PN: NM4PNS

M5 Steel PN: NM5PNS

M6 Steel PN: NM6PNS

M8 Steel PN: NM8PNS

M10 Steel PN: NM10PNS

Max. sheet thickness: 4 mm
Pack of 50



Rivet Kits

Aluminum Pop Rivets

PN: HAK15

300 piece kit includes an assortment of AS 4.0 x 10 mm, AS 4.0 x 12 mm, AS 4.8 x 10 mm, AS 4.8 x 12 mm, AS 4.8 x 15 mm, AS 4.8 x 18 mm Aluminum Pop Rivets and AS 4.8 x 10 mm & AS 4.8 x 12 mm Aluminum White Pop Rivets.

300 piece kit includes an assortment of 8 types of aluminum pop rivets:

- AS 4.0 x 10 mm Aluminum Pop Rivets x 35
- AS 4.0 x 12 mm Aluminum Pop Rivets x 30
- AS 4.8 x 10 mm Aluminum Pop Rivets x 55
- AS 4.8 x 10 mm Aluminum White Pop Rivets x 25
- AS 4.8 x 12 mm Aluminum Pop Rivets x 50
- AS 4.8 x 12 mm Aluminum White Pop Rivets x 25
- AS 4.8 x 15 mm Aluminum Pop Rivets x 40
- AS 4.8 x 18 mm Aluminum Pop Rivets x 40



Aluminum Countersunk & Large Flange Pop Rivets

PN: HAK16

200 piece kit includes an assortment of 3.2 x 10 mm, 4.8 x 1.2, 4.8 x 15 mm, 4.8-18 Countersunk Rivets & 4.0 x 12 mm, 4.0 x 15 mm, 4.8 x 10 mm, 4.8 x 15 mm Large Flange Rivets.

200 piece kit includes an assortment of 8 types of countersunk & large flange pop rivets:

- 3.2 x 10 mm Countersunk Rivets x 35
- 4.0 x 12 mm Large Flange Rivets x 30
- 4.0 x 15 mm Large Flange Rivets x 30
- 4.8 x 10 mm Large Flange Rivets x 20
- 4.8 x 12 mm Countersunk Rivets x 25
- 4.8 x 15 mm Countersunk Rivets x 25
- 4.8 x 15 mm Large Flange Rivets x 20
- 4.8 x 18 mm Countersunk Rivets x 15



Self Tapping Screws

Zinc Plated Pan Pozi Self Tapping Screws

PN: HAK01

500 piece kit includes an assortment of 14 sizes of zinc plated pan pozi self tapping screws:

- No. 4 (2.9 mm x 16) Zinc Plated Pan Pozi Self Tapping Screws x 40
- No. 4 (2.9 mm x 19) Zinc Plated Pan Pozi Self Tapping Screws x 50
- No. 4 (2.9 mm x 25) Zinc Plated Pan Pozi Self Tapping Screws x 40
- No. 6 (3.5 mm x 10) Zinc Plated Pan Pozi Self Tapping Screws x 10
- No. 6 (3.5 mm x 16) Zinc Plated Pan Pozi Self Tapping Screws x 80
- No. 6 (3.5 mm x 30) Zinc Plated Pan Pozi Self Tapping Screws x 20
- No. 8 (4.2 mm x 16) Zinc Plated Pan Pozi Self Tapping Screws x 60
- No. 8 (4.2 mm x 9.5) Zinc Plated Pan Pozi Self Tapping Screws x 20
- No. 10 (4.8 mm x 16) Zinc Plated Pan Pozi Self Tapping Screws x 10
- No. 10 (4.8 mm x 25) Zinc Plated Pan Pozi Self Tapping Screws x 65
- No. 10 (4.8 mm x 30) Zinc Plated Pan Pozi Self Tapping Screws x 10
- No. 10 (4.8 mm x 38) Zinc Plated Pan Pozi Self Tapping Screws x 10
- No. 12 (5.5 mm x 19) Zinc Plated Pan Pozi Self Tapping Screws x 75
- No. 12 (5.5 mm x 25) Zinc Plated Pan Pozi Self Tapping Screws x 10



Pan Slotted Self Tapping Screws

PN: HAK02

500 piece kit includes an assortment of 14 sizes of pan slotted self tapping screws:

- No. 4 (2.9 mm x 16) Pan Slotted Self Tapping Screws x 40
- No. 4 (2.9 mm x 19) Pan Slotted Self Tapping Screws x 75
- No. 4 (2.9 mm x 25) Pan Slotted Self Tapping Screws x 45
- No. 6 (3.5 mm x 16) Pan Slotted Self Tapping Screws x 100
- No. 6 (3.5 mm x 25) Pan Slotted Self Tapping Screws x 10
- No. 6 (3.5 mm x 30) Pan Slotted Self Tapping Screws x 20
- No. 8 (4.2 mm x 16) Pan Slotted Self Tapping Screws x 75
- No. 8 (4.2 mm x 9.5) Pan Slotted Self Tapping Screws x 20
- No. 10 (4.8 mm x 16) Pan Slotted Self Tapping Screws x 10
- No. 10 (4.8 mm x 25) Pan Slotted Self Tapping Screws x 65
- No. 10 (4.8 mm x 30) Pan Slotted Self Tapping Screws x 10
- No. 10 (4.8 mm x 38) Pan Slotted Self Tapping Screws x 10
- No. 12 (5.5 mm x 19) Pan Slotted Self Tapping Screws x 10
- No. 12 (5.5 mm x 25) Pan Slotted Self Tapping Screws x 10



Pan Combi Self Tapping Screws

PN: HAK03

500 piece kit includes an assortment of 14 sizes of pan combi self tapping screws:

- No. 4 (2.9 mm x 16) Pan Combi Self Tapping Screws x 40
- No. 4 (2.9 mm x 19) Pan Combi Self Tapping Screws x 75
- No. 4 (2.9 mm x 25) Pan Combi Self Tapping Screws x 45
- No. 6 (3.5 mm x 16) Pan Combi Self Tapping Screws x 100
- No. 6 (3.5 mm x 25) Pan Combi Self Tapping Screws x 10
- No. 6 (3.5 mm x 30) Pan Combi Self Tapping Screws x 20
- No. 8 (4.2 mm x 16) Pan Combi Self Tapping Screws x 75
- No. 8 (4.2 mm x 9.5) Pan Combi Self Tapping Screws x 25
- No. 10 (4.8 mm x 16) Pan Combi Self Tapping Screws x 10
- No. 10 (4.8 mm x 25) Pan Combi Self Tapping Screws x 60
- No. 10 (4.8 mm x 30) Pan Combi Self Tapping Screws x 10
- No. 10 (4.8 mm x 38) Pan Combi Self Tapping Screws x 10
- No. 12 (5.5 mm x 19) Pan Combi Self Tapping Screws x 10
- No. 12 (5.5 mm x 25) Pan Combi Self Tapping Screws x 10



Self Tapping Screws

Pozi Self Tapping Screws

PN: HAK04

500 piece kit includes an assortment of 14 sizes of pozi self tapping screws:

- No. 4 (2.9 MM × 16) Pozi Self Tapping Screws × 40
- No. 4 (2.9 MM × 19) Pozi Self Tapping Screws × 60
- No. 4 (2.9 MM × 25) Pozi Self Tapping Screws × 50
- No. 6 (3.5 MM × 16) Pozi Self Tapping Screws × 80
- No. 6 (3.5 MM × 25) Pozi Self Tapping Screws × 10
- No. 6 (3.5 MM × 30) Pozi Self Tapping Screws × 20
- No. 8 (4.2 MM × 16) Pozi Self Tapping Screws × 60
- No. 8 (4.2 MM × 9.5) Pozi Self Tapping Screws × 20
- No. 10 (4.8 MM × 16) Pozi Self Tapping Screws × 10
- No. 10 (4.8 MM × 25) Pozi Self Tapping Screws × 60
- No. 10 (4.8 MM × 30) Pozi Self Tapping Screws × 10
- No. 10 (4.8 MM × 38) Pozi Self Tapping Screws × 10
- No. 12 (5.5 MM × 19) Pozi Self Tapping Screws × 60
- No. 12 (5.5 MM × 25) Pozi Self Tapping Screws × 10



Plasterboard Screws

PN: HAK20

300 piece kit includes an assortment of Phillips plasterboard screws ranging from 16, 25, 32 & 41 MM No.6 3.5 MM Screws and 32, 50 & 75 No.8 4.2 MM Screws.

300 piece kit includes an assortment of 8 sizes of plasterboard screws:

- No.6 (3.5 MM × 16) Drywall Screws × 50
- No.6 (3.5 MM × 25) Drywall Screws × 50
- No.6 (3.5 MM × 32) Drywall Screws × 40
- No.6 (3.5 MM × 41) Drywall Screws × 40
- No.8 (4.2 MM × 25) Drywall Screws × 40
- No.8 (4.2 MM × 32) Drywall Screws × 30
- No.8 (4.2 MM × 50) Drywall Screws × 30
- No.8 (4.2 MM × 75) Drywall Screws × 20



Slotted Self Tapping Screws

PN: HAK05

500 piece kit includes an assortment of 14 sizes of slotted self tapping screws:

- No. 4 (2.9 MM × 16) Slotted Self Tapping Screws × 40
- No. 4 (2.9 MM × 19) Slotted Self Tapping Screws × 75
- No. 4 (2.9 MM × 25) Slotted Self Tapping Screws × 45
- No. 6 (3.5 MM × 16) Slotted Self Tapping Screws × 100
- No. 6 (3.5 MM × 25) Slotted Self Tapping Screws × 10
- No. 6 (3.5 MM × 30) Slotted Self Tapping Screws × 20
- No. 8 (4.2 MM × 16) Slotted Self Tapping Screws × 75
- No. 8 (4.2 MM × 19) Slotted Self Tapping Screws × 20
- No. 8 (4.2 MM × 9.5) Slotted Self Tapping Screws × 20
- No. 10 (4.8 MM × 25) Slotted Self Tapping Screws × 55
- No. 10 (4.8 MM × 30) Slotted Self Tapping Screws × 10
- No. 10 (4.8 MM × 38) Slotted Self Tapping Screws × 10
- No. 10 (4.8 MM × 16) Slotted Self Tapping Screws × 10
- No. 12 (5.5 MM × 19) Slotted Self Tapping Screws × 10



Washer Kits

Zinc plated Spring Washers

PN: HAK06

500 piece kit includes an assortment of 8 types of spring washers:

- M3 Black Spring Washers × 30
- M4 Black Spring Washers × 50
- M5 Black Spring Washers × 100
- M6 Black Spring Washers × 100
- M8 Black Spring Washers × 100
- M10 Black Spring Washers × 50
- M12 Black Spring Washers × 50
- M16 Black Spring Washers × 20



Heavy Duty Zinc Plated Flat Washers

PN: HAK07

500 piece kit includes an assortment of 8 types of heavy duty zinc plated flat washers:

- M3 Heavy Duty Flat Washers × 60
- M4 Heavy Duty Flat Washers × 70
- M5 Heavy Duty Flat Washers × 100
- M6 Heavy Duty Flat Washers × 70
- M8 Heavy Duty Flat Washers × 70
- M10 Heavy Duty Flat Washers × 70
- M12 Heavy Duty Flat Washers × 50
- M16 Heavy Duty Flat Washers × 10



Small Fender (Penny) Washers

PN: HAK13

300 piece kit includes an assortment of 8 types of small fender (penny) washers:

- M3 × 12.5 MM Fender (Penny) Washers × 40
- M4 × 16 MM Fender (Penny) Washers × 20
- M4 × 12.5 MM Fender (Penny) Washers × 40
- M5 × 16 MM Fender (Penny) Washers × 50
- M5 × 25 MM Fender (Penny) Washers × 25
- M6 × 19 MM Fender (Penny) Washers × 50
- M6 × 22 MM Fender (Penny) Washers × 50
- M6 × 32 MM Fender (Penny) Washers × 25



Large Fender (Penny) Washers

PN: HAK14

150 piece kit includes an assortment of 8 types of large fender (penny) washers:

- M6x25 Fender (Penny) Washers × 20
- M8x 19 Fender (Penny) Washers × 30
- M8x25 Fender (Penny) Washers × 20
- M8x32 Fender (Penny) Washers × 10
- M10x25 Fender (Penny) Washers × 25
- M10x30 Fender (Penny) Washers × 20
- M12x30 Fender (Penny) Washers × 20
- M12x40 Fender (Penny) Washers × 5



Wood Fasteners

Countersunk Pozi Drive Chipboard Screws

PN: HAK22

400 piece kit includes an assortment of 8 sizes of countersunk pozi drive chipboard screws:

- No. 6 (3.5 mm × 16) Countersunk Pozi Drive Chipboard Screws × 100
- No. 6 (3.5 mm × 25) Countersunk Pozi Drive Chipboard Screws × 50
- No. 6 (3.5 mm × 30) Countersunk Pozi Drive Chipboard Screws × 40
- No. 8 (4.2 mm × 20) Countersunk Pozi Drive Chipboard Screws × 50
- No. 8 (4.2 mm × 30) Countersunk Pozi Drive Chipboard Screws × 50
- No. 8 (4.2 mm × 40) Countersunk Pozi Drive Chipboard Screws × 50
- No. 10 (4.8 mm × 30) Countersunk Pozi Drive Chipboard Screws × 40
- No. 10 (4.8 mm × 40) Countersunk Pozi Drive Chipboard Screws × 20



Brass Plated Countersunk Wood Screws

PN: HAK31

300 piece kit includes an assortment of 8 sizes of brass plated countersunk & round head wood screws:

- No. 4 (3 mm × 16) Brass Plated Countersunk Wood Screws × 60
- No. 6 (3.5 mm × 20) Brass Plated Countersunk Wood Screws × 60
- No. 8 (4.2 mm × 19) Brass Plated Countersunk Wood Screws × 40
- No. 8 (4.2 mm × 40) Brass Plated Countersunk Wood Screws × 20
- No. 9 (4.5 mm × 40) Brass Plated Countersunk Wood Screws × 25
- No. 8 (4.2 mm × 25) Brass Plated Round Head Wood Screws × 50
- No. 12 (5.5 mm × 38) Brass Plated Round Head Wood Screws × 25
- No. 12 (5.5 mm × 50) Brass Plated Round Head Wood Screws × 20



Countersunk Pozi Chipboard (Type 17) Screws

PN: HAK23

300 piece kit includes an assortment of 8 sizes of Csk. Pozi chipboard (type 17) screws:

- No. 4 (3 mm × 30) Countersunk Pozi (Type 17) Chipboard Screws × 30
- No. 4 (3 mm × 40) Countersunk Pozi (Type 17) Chipboard Screws × 30
- No. 4 (3 mm × 50) Countersunk Pozi (Type 17) Chipboard Screws × 30
- No. 6 (3 mm × 25) Countersunk Pozi (Type 17) Chipboard Screws × 50
- No. 6 (3.5 mm × 40) Countersunk Pozi (Type 17) Chipboard Screws × 50
- No. 8 (4.2 mm × 25) Countersunk Pozi (Type 17) Chipboard Screws × 50
- No. 10 (4.8 mm × 30) Countersunk Pozi (Type 17) Chipboard Screws × 30
- No. 10 (4.8 mm × 40) Countersunk Pozi (Type 17) Chipboard Screws × 30



Countersunk Wood Screws

PN: HAK40

200 piece kit includes an assortment of 10 sizes of Csk. wood screws:

- No 4 (2.9x16 mm) Countersunk Wood Screws × 20
- No 6 (3.5x19 mm) Countersunk Wood Screws × 25
- No 6 (3.5x30 mm) Countersunk Wood Screws × 20
- No 8 (4.2x19 mm) Countersunk Wood Screws × 25
- No 8 (4.2x25 mm) Countersunk Wood Screws × 20
- No 8 (4.2x30 mm) Countersunk Wood Screws × 30
- No 8 (4.2x40 mm) Countersunk Wood Screws × 25
- No 8 (4.2x50 mm) Countersunk Wood Screws × 10
- No 10 (4.8x25 mm) Countersunk Wood Screws × 15
- No 10 (4.8x30 mm) Countersunk Wood Screws × 10



Wall Fasteners

Expansion Fixing Wall Plugs

PN: HAK19

200 piece kit includes an assortment of 8 sizes of expansion fixing wall plugs:

- 4 mm Expansion Fixing Wall Plugs × 50
- 5 mm Expansion Fixing Wall Plugs × 30
- 5.5 mm Expansion Fixing Wall Plugs × 50
- 6 mm Expansion Fixing Wall Plugs × 20
- 7 mm Expansion Fixing Wall Plugs × 10
- 8 mm Expansion Fixing Wall Plugs × 20
- 10 mm Expansion Fixing Wall Plugs × 10
- 11 mm Expansion Fixing Wall Plugs × 10



DIN 571 Coach Screws & Wall Plugs

PN: HAK36

100 piece kit includes an assortment of 10 sizes of DIN 571 coach screws & wall plugs:

- 10 mm Grey Wall Plugs × 10
- 11 mm Green Wall Plugs × 15
- DIN 571 M6x30 Coach Screws × 10
- DIN 571 M6x75 Coach Screws × 10
- DIN 571 M6x40 Coach Screws × 10
- DIN 571 M6x50 Coach Screws × 10
- DIN 571 M8x50 Coach Screws × 5
- DIN 571 M8x60 Coach Screws × 10
- DIN 571 M8x40 Coach Screws × 10
- DIN 571 M10x75 Coach Screws × 10



Cheese Head Spring Toggles

PN: HAK38

60 piece kit includes an assortment of 12 sizes of Cheese head spring toggles:

- M4 × 50 Cheese Head Machine Screws × 5
- M4 × 75 Cheese Head Machine Screws × 5
- M4 × 40 Cheese Head Machine Screws × 5
- M5 × 50 Cheese Head Machine Screws × 5
- M5 × 70 Cheese Head Machine Screws × 5
- M6 × 50 Cheese Head Machine Screws × 5
- M6 × 60 Cheese Head Machine Screws × 5
- M6 × 70 Cheese Head Machine Screws × 5
- M4 Spring Toggles × 5
- M5 Spring Toggles × 5
- M6 Spring Toggles × 10



Anchored Hammer Drive Expansion Nails

PN: HAK18

100 piece kit includes an assortment of 8 types of expansion hammer drive nail:

- M6x60 Expansion Hammer Drive Nails × 10
- M6x50 Expansion Hammer Drive Nails × 15
- M6x80 Expansion Hammer Drive Nails × 15
- M8x60 Expansion Hammer Drive Nails × 10
- M5x50 Expansion Hammer Drive Nails × 10
- M6x40 Expansion Hammer Drive Nails × 15
- M5x25 Expansion Hammer Drive Nails × 10
- M5x35 Expansion Hammer Drive Nails × 15



Wall Fasteners

Cup Hooks

PN: HAK34

60 piece kit includes an assortment of 9 sizes of round hooks:

- 16mm Brass Plated Round Hooks × 15
- 19mm Brass Plated Round Hooks × 13
- 25mm Brass Plated Round Hooks × 5
- 32mm Brass Plated Round Hooks × 5
- 38mm Brass Plated Round Hooks × 5
- 50mm Brass Plated Round Hooks × 5
- 32mm PVC Coated Round Hooks × 5
- 38mm PVC Coated Round Hooks × 5
- 50mm PVC Coated Round Hooks × 2



L Type Hooks

PN: HAK35

70 piece kit includes an assortment of 8 sizes of square hooks:

- 13mm Brass Plated Square Hooks × 15
- 16mm Brass Plated Square Hooks × 10
- 19mm Brass Plated Square Hooks × 5
- 23mm Brass Plated Square Hooks × 10
- 25mm Brass Plated Square Hooks × 5
- 32mm Brass Plated Square Hooks × 10
- 38mm Brass Plated Square Hooks × 10
- 50mm Brass Plated Square Hooks × 5



Cable Clips

PN: HAK33

250 piece kit includes an assortment of 12 sizes of cable clips:

- | | |
|-----------------------------|--------------------------------|
| 3 mm Round Cable Clips × 25 | 11 mm Round Cable Clips × 10 |
| 4 mm Round Cable Clips × 20 | 14 mm Round Cable Clips × 5 |
| 5 mm Round Cable Clips × 20 | 1.5mm Square Cable Clips × 20 |
| 7 mm Round Cable Clips × 20 | 2.5 mm Square Cable Clips × 20 |
| 8 mm Round Cable Clips × 20 | 4 mm Square Cable Clips × 20 |
| 9 mm Round Cable Clips × 20 | 5 mm Square Cable Clips × 50 |



Pivot Drawers

Pivot Drawers

Keep all your spare parts in the right place and in plain sight with transparent windows. Pivot drawers are acid and oil resistant and slot together vertically or horizontally to adapt to your storage needs. When Pivot drawers loaded with parts they will conveniently self-close. Using the rear mounting holes these units can also be safely wall mounted.



6 Compartment Pivot Drawer Set

PN: FO306

Dimensions: 300W x 86D MM x 250H MM
Volumetric Capacity: 0.5 Ltr.
Max Weight: 1.0 Kg



8 Compartment Pivot Drawer Set

PN: FO308

Dimensions: 300W x 67D MM x 200H MM
Volumetric Capacity: 0.2 Ltr.
Max Weight: 0.4 Kg



5 Compartment Pivot Drawer Set

PN: FO605

Dimensions: 600W MM x 103D MM x 150H MM
Volumetric Capacity: 0.8 Ltr.
Max Weight: 0.8 Kg



4 Compartment Pivot Drawer Set

PN: FO604

Dimensions: 600W MM x 140D MM x 200H MM
Volumetric Capacity: 1.85 Ltr.
Max Weight: 4.5 Kg



Mobile Pivot Draw Single-Sided Storage Cart

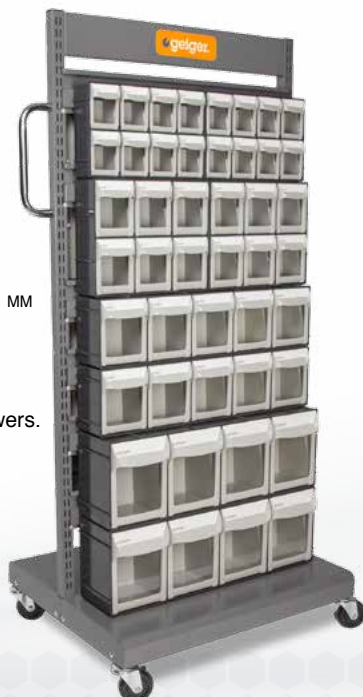
PN: MSFO4568

Includes 2 x FO308,
2 x FO306, 2 x FO605 &
2 x FO604 Pivot Drawers

Trolley size:
690W MM x 560D MM x 1460H MM

Max capacity: 150 Kg

Refer above for max. weight capacities for individual drawers.



Mobile Pivot Draw Double-sided Storage Cart

PN: MSFO4568X2

Includes 4 x FO308,
4 x FO306, 4 x FO605 &
4 x FO604 Pivot Drawers

Trolley size:
690W MM x 560D MM x 1460H MM

Max capacity: 150 Kg

Refer above for max. weight capacities for individual drawers.



HB Multi-Function Storage Bins

Heavy Duty HB Multi-Function Storage Bins

New HB Series Heavy Duty Storage Bins are a versatile solution that adapt to your changing storage requirements. HB bins can be used as free standing bench storage, wall mounted storage units or on a mobile storage cart. The new design can take very high loads when stacked (100 plus kilograms).

Free Standing Bench Storage

Included with all HB bins are four interlocking legs. Create free-standing versatile bench storage.



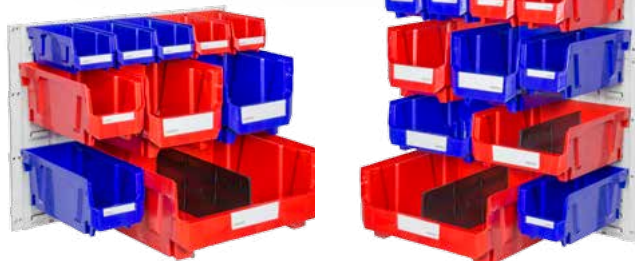
Space-saving Storage

Easily store bins away and save space if not in use.



Wall Mountable

All HB series bins can be wall mounted when combined with HP Hanging Panels (see HP1 & HP1KIT on page 147). HB Hanging Panel Kits can be tiled together and mounted horizontally or vertically.



Clap Boards

Segregate similar types of products that relate to each other (e.g. nuts & bolts) with Clap Boards. Take one HB bin to the job while keeping things organized. Clap Boards are included with all HB duplex bins.



Small Short HB Storage Bins

PN: HB210B PN: HB210R

Bin size: 105W MM x 136D MM x 76H MM



Small HB Storage Bins

PN: HB220B PN: HB220R

Bin size: 105W MM x 187D MM x 76H MM



Medium HB Storage Bins

PN: HB230B PN: HB230R

Bin size: 140W MM x 276D MM x 127H MM



Medium HB Duplex Bins

PN: HB235B PN: HB235R

Clap Board PN: HB235CL

Includes removable Clap Board
Bin size: 279W MM x 276D MM x 127H MM



Large Short HB Storage Bins

PN: HB239B PN: HB239R

Bin size: 210W MM x 273D MM x 178H MM



Large HB Duplex Bins

PN: HB250B PN: HB250R

Clap Board PN: HB250CL

Includes removable Clap Board
Bin size: 420W MM x 375D MM x 178H MM



HB Multi-Function Storage Bins

Make your HB bins mobile with this hanging display unit with caster wheels (2 with brakes). This is an excellent time and space saver for any workshop. HB Bins are easily detached from the storage cart, making it easy to take only what you need to the work area, while keeping items organized. Heavy duty galvanized steel construction



HB Double-sided Display Stand 104 Bin Kit

PN: MS20020K

Galvanized steel construction
Stand Size:
740W MM x 560D MM x 1460H MM

Includes bins in your choice of red or blue:
72 x HB220B or HB220R bins
32 x HB230B or HB230R bins



HB Hanging Panel 40 Bin Kit

● PN: HP1KITR ● PN: HP1KITB

Wall mountable kit includes 2 HB Series panels, 40 HB210B Red bins, screws & wall plugs. Acid and oil resistant.

Panel size: 605W MM x 455H MM x 8D MM
Bin size: 105W MM x 137D MM x 76H MM



HB Heavy Duty Display Stand

PN: MS20020

- Galvanized steel construction
- Accepts all HB series bins

Stand Size: 740W MM x 560D MM x 1460H MM



HB Hanging Panel (Set of 2)

PN: HP1

Acid and oil resistant.

Includes 2 HB panels, screws & wall plugs
Panel size: 605W MM x 455H MM x 8D MM



A-Series Steel Parts Cabinets

A-Series Heavy Duty Parts Cabinets

A great range of professional parts cabinets for the workshop.

The all metal frame is constructed from 0.7 mm galvanized steel.

The moulded drawers are acid and oil resistant. All drawers come with 1 removable divider.



HD Series Cabinets

The HD drawers are available individually. This is perfect for upgrading your current storage system. The lip at the back ensures that the drawer do not fall out when in a fully opened position.



24 Drawer A5 Parts Cabinet

PN: A5324

Holds 24 A5 Drawers

Drawer size: 163W mm x 289D mm x 69H mm

Acid and oil resistant.

Cabinet size: 586W mm x 290D mm x 640H mm



12 Drawer A6 Parts Cabinet

PN: A6212H

Holds 12 A6 Drawers

Drawer size: 143W mm x 245D mm x 83H mm

Acid and oil resistant.

Cabinet size: 362W mm x 265D mm x 571H mm



24 Drawer A7 Parts Cabinet

PN: A7324

Holds 24 A7 Drawers

Drawer size: 120W mm x 218D mm x 69H mm

Acid and oil resistant.

Cabinet size: 444W mm x 222D mm x 642H mm



36 Drawer A5 Parts Cabinet

PN: A5336

Holds 36 A5 Drawers

Drawer size: 163W mm x 289D mm x 69H mm

Acid and oil resistant.

Cabinet size: 586W mm x 290D mm x 937H mm



30 Drawer A6 Parts Cabinet

PN: A6330H

Holds 30 A6 Drawers

Drawer size: 143W mm x 245D mm x 83H mm

Acid and oil resistant.

Cabinet size: 533W mm x 246D mm x 937H mm



48 Drawer A7 Parts Cabinet

PN: A7448

Holds 48 A7 Drawers

Drawer size: 120W mm x 218D mm x 69H mm

Acid and oil resistant.

Cabinet size: 586W mm x 222D mm x 937H mm



A-Series Drawers & Dividers

A5 Drawer

PN: A5DRAW

Acid and oil resistant.

Drawer size: 163W x 289D x 69H MM



A6 Drawer

PN: A6DRAW

Acid and oil resistant.

Drawer size: 143W x 245D x 83H MM



A7 Drawer

PN: A7DRAW

Acid and oil resistant.

Drawer size: 120W x 218D x 69H MM



A5 Dividers

PN: A5DIV

Pack of 10 A5 dividers



A6 Dividers

PN: A6DIV

Pack of 10 A6 Dividers



A7 Dividers

PN: A7DIV

Pack of 10 A7 Dividers



A8 Drawer

PN: A8DRAW

Acid and oil resistant.

Drawer size: 90W x 218D x 70H MM



ST2 Drawer

PN: ST2DRAW

Acid and oil resistant.

Drawer size: 120W x 210D x 55H MM

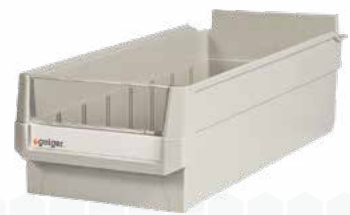


HD Single Drawer

PN: HD1641

Acid and oil resistant.

Drawer size: 160W x 410D x 110H MM



A8 Dividers

PN: A8DIV

Pack of 10 A8 Dividers



ST2 Dividers

PN: ST2DIV

Pack of 10 ST2 Dividers



HD Dividers

PN: HD1641DIV

Pack of 10 HD Dividers



A-Series Steel Parts Cabinets

32 Drawer A8 Parts Cabinet

PN: A8432

Holds 32 A8 Drawers
 Drawer size: 90W x 218D x 70H MM
 Acid and oil resistant.
 Cabinet size: 466W MM x 222D MM x 642H MM



60 Drawer A8 Parts Cabinet

PN: A8560

Holds 60 A8 Drawers
 Drawer size: 90W x 218D x 70H MM
 Acid and oil resistant.
 Cabinet size: 586W MM x 222D MM x 937H MM



60 Drawer ST2 Parts Cabinet

PN: ST2460

Holds 60 ST2 Drawers
 Drawer Size: 120W MM x 210D MM x 55H MM
 Acid and oil resistant.
 Cabinet size: 586W MM x 222D MM x 937H MM



Lockable Parts Cabinets

24 Drawer A7 Lockable Parts Cabinet

PN: A7324D

Key lockable doors
 Holds 24 A7 Drawers
 Acid and oil resistant.
 Cabinet size: 447W MM x 270D MM x 680H MM
 Drawer size: 120W x 218D x 69H MM



48 Drawer A7 Lockable Parts Cabinet

PN: A7448D

Key lockable doors
 Holds 48 A7 Drawers
 Acid and oil resistant.
 Cabinet size: 586W MM x 270D MM x 970H MM
 Drawer size: 120W x 218D x 69H MM



3 shelf Lockable Parts Cabinet

PN: THD2S

3 shelf cabinet
 Key lockable doors
 Acid and oil resistant.
 Cabinet size: 880W MM x 400D MM x 880H MM



Lockable Display Cabinets

Lockable Glass Door Display Cabinet

PN: DU118G

- Dual combination & key lock
- Acid and oil resistant
- Sliding steel framed glass doors
- 2 adjustable shelves
- Cabinet can be stacked

Cabinet size: 1180W MM x 400D MM x 880H MM



Lockable Steel Door Display Cabinet

PN: DU118M

- Dual combination & key lock
- Acid and oil resistant
- Sliding steel doors
- 2 adjustable shelves
- Cabinet can be stacked

Cabinet size: 1180W MM x 400D MM x 880H MM



HD Series Steel Parts Cabinets & Carts

18 Drawer HD Steel Parts Cabinet

PN: HD318

Holds 18 HD1641 HD drawers

Drawer Size:
160W MM x 110H MM x 410D MM

Cabinet size:
550W x 410D x 880H MM



15 Drawer HD Steel Parts Cabinet

PN: HD515

Holds 15 HD1641 HD drawers

Drawer Size: 160W MM x 110H MM x 410D MM

Cabinet size: 880W x 410D x 440H MM



30 Drawer HD Steel Parts Cabinet

PN: HD530

Holds 30 HD1641 HD drawers

Cabinet size: 880W MM x 410D MM x 880H MM
Drawer Size: 160W MM x 110H MM x 410D MM



30 Drawer HD Parts Storage Cart

PN: NHD530

Holds 30 HD1641 HD drawers which come with 2 movable dividers and are acid and oil resistant.

Cabinet size: 980W MM x 410D MM x H MM
Drawer Size: 160W MM x 110H MM x 410D MM



HD Series Steel Parts Cabinets & Carts

HD Steel Shelf Cabinet

PN: NHD500

- Each shelf has two positions

Includes 5 steel shelves & brace.

Cabinet size: 880W x 400D x 1725H MM



HD 60 Drawer Steel Parts Cabinet

PN: NHD560

Holds 30 HD1641 HD drawers

Drawer Size: 160W MM x 110H MM x 410D MM

Max. Weight: 20 Kg (per drawer)

Volumetric Capacity: 5.6 Ltr (per drawer)

Each drawer comes with 2 movable dividers and is acid and oil resistant.

Cabinet size: 880W x 400D x 1725H MM

Total capacity: 600 Kg



A4 Filing Cabinets

10 Drawer A4 Filing Cabinet

PN: A4110P

Holds 10 A4 Drawers

Drawer Size:

230W MM x 325D MM x 38H MM

Cabinet size:

275W x 340D x 482H MM



30 Drawer A4 Filing Cabinet

PN: A4230P

Holds 30 A4 Drawers

Drawer Size:

230W MM x 325D MM x 38H MM

Cabinet size:

543W x 340D x 738H MM



Heavy Duty Parts Trolleys

Heavy Duty Parts Trolley

PN: CTH5086

- 3 Shelves & front mounted tray, all with foam inlays
- Two lockable casters

Size: 500W MM x 873D MM x 880H MM

Max. Load per shelf: 100 Kg

Max. Load: 200 Kg



Parts Trolley Heavy Duty with Slide Tray

PN: GT3SD

- 3 Shelves & front mounted tray, all with foam inlays
- Side-mounted drawer with ball-bearing sliders
- Two lockable casters
- 1.6 Mm steel uprights

Size: 470W MM x 785D MM x 825H MM

Max. Load: 150 Kg



Parts Trolley Heavy Duty

PN: GT3S

- 3 Shelves & front mounted tray, all with foam inlays
- Two lockable casters with ball-bearing sliders
- 1.6 Mm steel uprights.

Size: 410W MM x 760D MM x 885H MM

Max. Load: 150 Kg



Storage Bins

Multi Function Storage Bin

PN: NHA3645K

The Geiger Multi Function Storage Bin can be stacked without a lid or nested together to save space when not being used.

The 27.5 litre bin takes up to 30 Kg.

Made from high impact polypropylene.

Includes bin and lid.

Bin size: 450W MM x 360D MM x 250H MM



Rotate bin to nest bins together.



Stack bins with no lid needed.



Jumbo Storage Bin

PN: HB4068B

The Geiger Jumbo Storage Bin can be stacked vertically with or without its removable lid. The removable lid incorporates a hinged front cover which protects its contents from dust or other environmental factors.

The 50 litre bin takes up to 30 Kg.

Made from impact resistant polypropylene.

Includes bin and removable lid.

Bin size: 395W MM x 635D MM x 335H MM



GTB28 Series Tool Chests & Roller Cabinets

6 Drawer Tool Chest

PN: GTB28T

- Twin gas strut top lid
- Closing top lid secures drawers while cabinet is in transit
- All drawers feature drawer liners
- One key locks all drawers & lid
- Stainless steel side handles
- Side panels allow for a highly customisable array of hooks for extra storage of commonly used large tools (sold separately).
- Gloss Black finish

Dimensions: 800W x 470D x 450H MM (Inc. handles)

Top Tray: 590W x 385D x 80H MM

3 x Top drawers: 155W x 390D x 65H MM

3 x Bottom drawers: 555W x 390D x 65H MM

Weight: 37 Kg



7 Drawer Base Cabinet

PN: GTB28B

- All drawers feature drawer liners
- Features a work bench with removable rubber mat.
- One lock for all drawers
- Stainless steel side handle
- Wall bumpers on all 4 corners
- Double runner bottom drawers
- Twin push-lock casters
- Gloss Black finish
- Side panels allow for a highly customisable array of hooks for extra storage of commonly used or large tools (sold separately).

Dimensions: 800W x 470D x 1040H MM (Inc. handle)

5 x Top drawers: 555W x 390D x 65H MM

2 x Bottom drawers: 555W x 390D x 150H MM

Weight: 63 Kg



13 Drawer Roller Cabinet

PN: GTB28BTK

- Twin gas strut top lid
- Separate locks for top and bottom drawers
- Closing top lid secures top drawers while cabinet is in transit
- All drawers feature drawer liners
- Stainless steel side handles
- Twin push-lock casters
- Wall bumpers on all 4 corners
- Double runner bottom drawers
- Side panels allow for a highly customisable array of hooks for extra storage of commonly used or large tools (sold separately).
- Gloss Black finish

Dimensions: 800W x 470D x 1440H MM (Inc. handles)

Top Tray: 585W x 385D x 80H MM

3 x Top drawers: 155W x 390D x 65H MM

8 x Middle drawers: 555W x 390D x 65H MM

2 x Bottom drawers: 555W x 390D x 150H MM

Weight: 100 Kg



GTB43 Series Tool Chests & Roller Cabinets

8 Drawer Tool Chest

PN: GTB43T

- Twin gas strut top lid
- Self locking drawers secure contents while cabinet is in transit
- All drawers feature drawer liners
- One key locks all drawers & lid
- Stainless steel side handles
- Side panels allow for a highly customisable array of hooks for extra storage of commonly used large tools (sold separately).
- Gloss Black finish

Dimensions: 1160W x 460D x 460H MM (Inc. handles)

Top Tray: 955W x 385D x 80H MM

4 x Left side drawers:
555W x 400D x 70H MM

4 x Right side drawers:
285W x 400D x 70H MM

Weight: 56 Kg



12 Drawer Base Cabinet

PN: GTB43B

- Self locking drawers secure contents while cabinet is in transit
- All drawers feature drawer liners
- Features a work bench with removable rubber mat.
- One lock for all drawers
- Stainless steel side handle
- Twin push-lock casters
- Wall bumpers on all 4 corners
- Double runner bottom drawers
- Side panels allow for a highly customisable array of hooks for extra storage of commonly used or large tools (sold separately).
- Versatile full width top drawer to suit a wide range of differently shaped or large tools
- Gloss Black finish

Dimensions: 1200W x 460D x 1040H MM (Inc. handle)

Full width drawer: 920W x 400D x 125H MM

5 x Left side drawers:
555W x 400D x 70H MM
1 x Left side bottom drawer:
555W x 400D x 150H MM

4 x Right side drawers:
285W x 400D x 70H MM
1 x Right side bottom drawer:
285W x 400D x 230H MM

Weight: 94 Kg



Side panel hooks sold separately.

20 Drawer Roller Cabinet

PN: GTB43BTK

- Twin gas strut top lid
- Self locking drawers secure contents while cabinet is in transit
- Separate locks for top and bottom drawers
- All drawers feature drawer liners
- Stainless steel side handles
- Twin push-lock casters
- Wall bumpers on all 4 corners
- Gloss Black finish
- Double runner bottom drawers
- Side panels allow for a highly customisable array of hooks for extra storage of commonly used large tools (sold separately).
- Versatile full width drawer to suit a wide range of differently shaped or large tools

Dimensions: 1200W x 460D x 1485H MM (Inc. handles)

Top Tray: 850W x 385D x 80 MM

Full width drawer: 569W x 400D x 130H MM

8 x Left side drawers:
555W x 400D x 70H MM
1 x Left side bottom drawer:
555W x 400D x 150H MM

9 x Right side drawers:
285W x 400D x 70H MM
1 x Right side bottom drawer:
285W x 400D x 230H MM

Weight: 150 Kg



Mechanics Stools

The Bone™ and Bonester™ feature a uniquely shaped body which cradles the user between the wheels only an inch or so above the ground. The big, easy rolling wheels are positioned outboard to provide a strong, stable working platform that can't tip or flip the user. The large diameter wheels roll easily over all sorts of obstacles such as cords and air lines.

EASY RIDER

The Easy Rider Wheels have soft tyres that grab and roll over frustrating shop clutter.



ROUGH RIDER

The Rough Rider Wheels are designed for use on grass, gravel and dirt or anywhere the going is tough.



Tail Bone

PN: BONE5031

The Tail Bone is a totally new approach to creeper seats, easier to use, more comfortable and rolls effortlessly over air hoses, drop cords, shop clutter and rough surfaces. The uniquely designed tripod base is a naturally stable working platform even on uneven floors and surfaces. The Easy Rider Wheels have soft tyres that grab and roll over frustrating shop clutter. The super comfortable bucket seat is shaped and sized for real-world people.

740L x 800W MM
300 MM Seat Height
Load Capacity: 160 Kg
Huge 130 MM Easy Rider Tyres
20 MM Ground Clearance
Weight 7 Kg

Tail Bone - Rough Rider

PN: BONE5131

The Tail Bone is a totally new approach to creeper seats, easier to use, more comfortable and rolls effortlessly over air hoses, drop cords, shop clutter and rough surfaces. The uniquely designed tripod base is a naturally stable working platform even on uneven floors and surfaces. The Rough Rider Wheels are designed for use on grass, gravel and dirt or anywhere the going is tough. The super comfortable bucket seat is shaped and sized for real-world people.

740L x 800W MM
330 MM Seat Height
Load Capacity: 180 Kg
Huge 130 MM Ø Rough Rider Tyres
44 MM Ground Clearance
Weight 7.5 Kg



Mechanics Creepers

Bone-ster Mechanics Creeper

PN: BONE4031

The deep structural ribs add incredible strength and durability without adding bulk & weight; providing welcome ventilation for those hot muggy days. Two inlayed hand-holds make it easy to carry and easy to secure against theft or serial tool borrowers. The Easy Rider Wheels have soft tyres that grab and roll over frustrating shop clutter.

1092L x 594W x 114H MM
Wheels: Ø75 MM x 22 MM width
Load Capacity: 180 Kg
Easy Rider Tyres
38 MM Ground Clearance
Weight 6 Kg



Bone (Original)

PN: BONE6031

The deep smoothly moulded contours of the Bone Mechanics Creeper provide extra comfort and back support for the user. The Easy Rider Wheels have soft tyres that grab and roll over frustrating shop clutter.

1194L x 648W x 160H MM
Wheels: Ø130 MM x 25 MM width
Load Capacity: 180 Kg
Wide Easy Rider Tyres
45 MM Ground Clearance
Weight 8 Kg



Bone - Rough Rider

PN: BONE7031

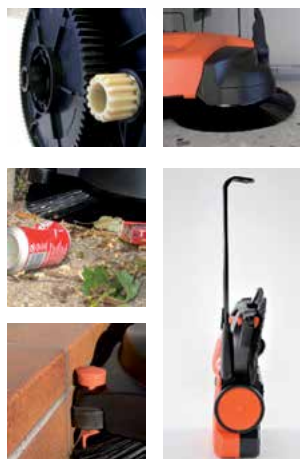
The deep smoothly molded contours of the Bone Rough Rider provide extra comfort and back support for the user. The Rough Rider Wheels are designed for use on grass, gravel and dirt or anywhere the going is tough.

1194L x 648W x 191H MM
Wheels: Ø130 MM x 33 MM width
Rough Rider Tyres
73 MM Ground Clearance
Weight: 9.1 Kg



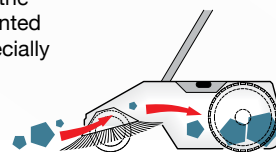
Workshop & Warehouse Sweepers

Haaga Sweepers will effortlessly sweep up fine and coarse dirt, from sand to cans, wet leaves, be it dry or wet, with no electrical power required. The disc brushes, which protrude on both sides ensure even greater sweeping performance. Easy operation & long service life thanks to it's belt-less drive system. Additional guide rollers for easy sweeping along curbs and walls. The variable height adjustment ensures optimal performance on various types of surfaces. Space-saving storage, store vertically without losing any of the collected material.



HAAGA 200 Series Sweepers

Unlike other sweeping brush devices the Haaga 225 sweeper relies on it's patented disk brush technology. These two specially made circular brushes cut under the waste material and whisk it directly into the waste container. Coarse or fine debris are not run over or pushed around in front of the sweeper.



Haaga 255 Sweeper

PN: HG255

Ideal choice for side walks, garage floors, pathways & drive ways

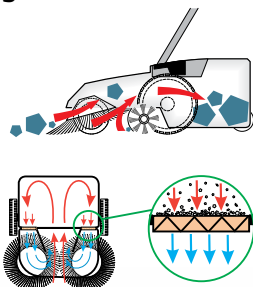
- Reliable gear driven twin brush system
- Disc brushes protrude on both sides for greater cleaning performance
- Performance suits 1,600 m²/hr
- Adjustable brush height

For Home and Garden
Cleaning Width: 55 cm
Performance: 1,600 m²/h
Container Volume 25 litres.
Weight: 6 kg



HAAGA 400 Series Sweepers

Twice the sweeping capability in one pass
The Haaga 477 & 497 models have an additional fine particle roller brush that is mounted behind the circular brushes. Very low dust through intelligent air flow
Both machines are also equipped with two special fine particle filters. The dusty air is cleaned by these filters and returned to the sweeping circuit.



Haaga 477 Sweeper

PN: HG477

Ideal choice for commercial workshops, warehouses, factories and parking areas.

- Reliable gear driven twin brush system
- Disc brushes protrude on both sides for greater cleaning performance
- Variable height adjustment
- Performance suits 2,900 m²/h or 3,600 m²/h
- Large 50 litre catcher volume
- Fine particle centre roller

Commercial Sweeper
Cleaning Width: 77 cm
Performance: 2,9000 m²/h
Weight: 13 kg
Container Volume 50 litres.



Haaga 497 Sweeper

PN: HG497

Ideal choice for large scale commercial workshops, warehouses, factories and parking areas.

- Reliable gear driven twin brush system
- Disc brushes protrude on both sides for greater cleaning performance
- Variable height adjustment
- Performance suits 2,900m²/h or 3,600m²/h
- Large 50 litre catcher volume
- Fine particle centre roller

Commercial Sweeper
Cleaning Width: 97 cm
Performance: 3,6000 m²/h
Weight: 15 kg
Container Volume 50 litres.



Dual Scale Digital Calipers

150 MM Dual Scale Digital Caliper

PN: AC-111-006-12

- Functions: zero point, mm/inch
- USB data output
- Meets DIN862 Standard
- Made of stainless steel
- Calibration certificate is included

Range: 0-150 MM/0-6"
Resolution: 0.01 MM/0.0005"
Accuracy: ± 0.03 MM/0.001"
Internal Jaw Reach: 16 MM
Beam Width: 16 MM
External Jaw Reach: 40 MM
Length: 236 MM



200 MM Dual Scale Digital Caliper

PN: AC-111-008-12

- Functions: zero point, mm/inch
- USB data output
- Meets DIN862 Standard
- Made of stainless steel
- Calibration certificate is included

Range: 0-200 MM/0-8"
Resolution: 0.01 MM/0.0005"
Accuracy: ± 0.03 MM/0.001"
Internal Jaw Reach: 19 MM
Beam Width: 16 MM
External Jaw Reach: 50 MM
Length: 286 MM

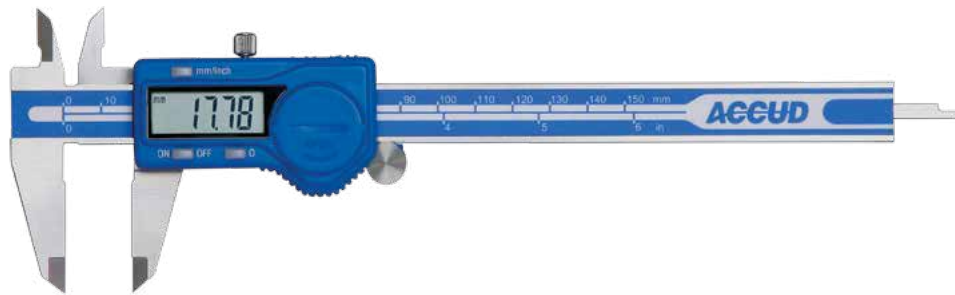


300 MM Dual Scale Digital Caliper

PN: AC-111-012-12

- Functions: zero point, mm/inch
- USB data output
- Meets DIN862 Standard
- Made of stainless steel
- Calibration certificate is included

Range: 0-300 MM/0-12"
Resolution: 0.01 MM/0.0005"
Accuracy: ± 0.03 MM/0.001"
Internal Jaw Reach: 20.5 MM
Beam Width: 17 MM
External Jaw Reach: 60 MM
Length: 400 MM



150 MM Dual Scale IP54 Splash Proof Digital Caliper

PN: AC-111-006-11

- Highly accurate glass scale
- USB data output
- Functions: zero point, mm/in, ABS
- Meets DIN862 Standard
- Made of stainless steel
- Calibration certificate is included

Range: 0-150 MM/0-6"
Resolution: 0.01 MM/0.0005"
Accuracy: ± 0.03 MM/0.001"
Internal Jaw Reach: 16 MM
Beam Width: 16 MM
External Jaw Reach: 40 MM
Length: 236 MM



200 MM Dual Scale IP54 Splash Proof Digital Caliper

PN: AC-111-008-11

- Highly accurate glass scale
- USB data output
- Functions: zero point, mm/in, ABS
- Meets DIN862 Standard
- Made of stainless steel
- Calibration certificate is included

Range: 0-200 MM/0-8"
Resolution: 0.01 MM/0.0005"
Accuracy: ± 0.03 MM/0.001"
Internal Jaw Reach: 19 MM
Beam Width: 16 MM
External Jaw Reach: 50 MM
Length: 286 MM



300 MM Dual Scale IP54 Splash Proof Digital Caliper

PN: AC-111-012-11

- Highly accurate glass scale
- USB data output
- Functions: zero point, mm/in, ABS
- Meets DIN862 Standard
- Made of stainless steel
- Calibration certificate is included

Range: 0-300 MM/0-12"
Resolution: 0.01 MM/0.0005"
Accuracy: ± 0.03 MM/0.001"
Internal Jaw Reach: 20.5 MM
Beam Width: 17 MM
External Jaw Reach: 60 MM
Length: 400 MM



Dual Scale Digital Calipers

150 MM Coolant Proof Dual Scale IP67 Digital Caliper

PN: AC-112-006-12

- IP67 protection level
- Absolute measuring system
- Functions: zero point, mm/inch
- Calibration certificate is included

Range: 0-150 MM/0-6"
Resolution: 0.01 MM/0.0005"
Accuracy: ± 0.03 MM/0.001"
Internal Jaw Reach: 16 MM
Beam Width: 16 MM
External Jaw Reach: 40 MM
Length: 236 MM



200 MM Coolant Proof Dual Scale Digital IP67 Caliper

PN: AC-112-008-12

- IP67 protection level
- Absolute measuring system
- Functions: zero point, mm/inch
- Calibration certificate is included

Range: 0-200 MM/0-8"
Resolution: 0.01 MM/0.0005"
Accuracy: ± 0.03 MM/0.001"
Internal Jaw Reach: 19 MM
Beam Width: 16 MM
External Jaw Reach: 50 MM
Length: 286 MM



300 MM Coolant Proof Dual Scale IP67 Digital Caliper

AC-112-012-12

- IP67 protection level
- Absolute measuring system
- Functions: zero point, mm/inch
- Calibration certificate is included

Range: 0-300 MM/0-12"
Resolution: 0.01 MM/0.0005"
Accuracy: ± 0.03 MM/0.001"
Internal Jaw Reach: 20.5 MM
Beam Width: 17 MM
External Jaw Reach: 60 MM
Length: 400 MM



200 MM Fractional Imperial Digital IP54 Splash Proof Caliper

PN: AC-113-008-11

- Display Modes: Fraction Imperial,
- Decimal Imperial & Metric
- Auto On/Off
- Buttons: Zero, mm / Frac Inch / Inch
- Made of stainless steel

Range: 0-200 MM / 0-8"
Resolution: 0.01 MM/0.005"
Accuracy: ± 0.03 MM
Internal Jaw Reach: 16 MM
Beam Width: 19 MM
External Jaw Reach: 50 MM
Length: 286 MM

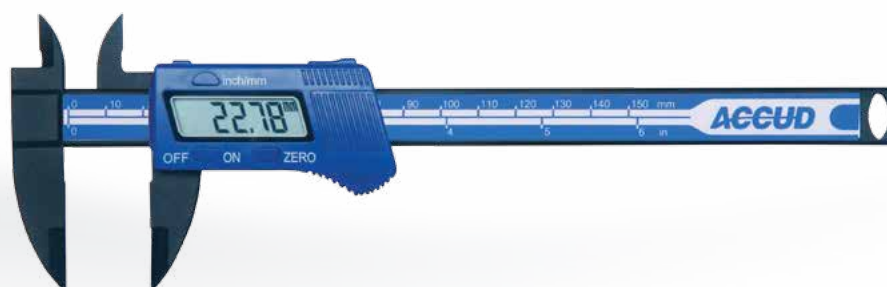


150 MM Plastic Digital Caliper

PN: AC-117-006-11

- Functions: mm/in, zero point
- Made of hard plastic

Range: 0-150 MM/0-6"
Resolution: 0.01 MM/0.0005"
Accuracy: ± 0.1 MM
Internal Jaw Reach: 16 MM
Beam Width: 16 MM
External Jaw Reach: 40 MM
Length: 243 MM



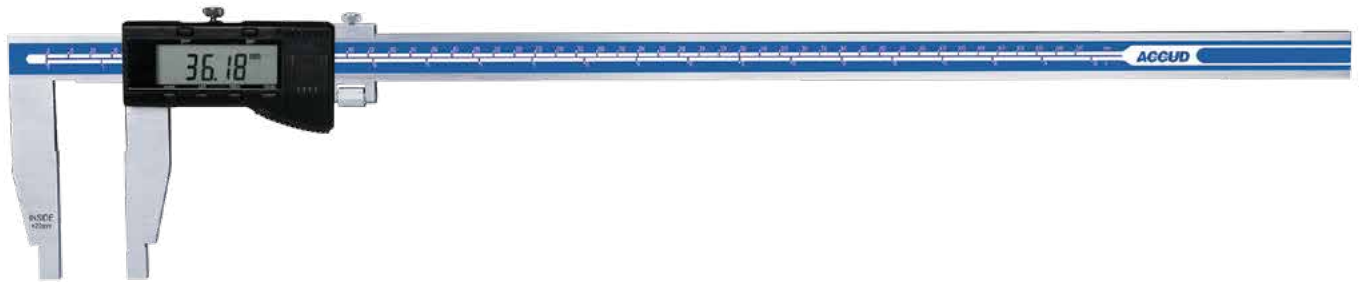
Dual Scale Digital Calipers

600 MM Dual Scale Digital Caliper

PN: AC-118-024-11

- Functions: zero point, mm/inch, ABS, data preset
- USB data output
- Made of stainless steel

Range: Outside 0-620 MM/0-24.5"
 Inside 20-600 MM/0-24"
 Resolution: 0.01 MM/0.005"
 Accuracy: ± 0.04 MM/0.002"
 Beam Width: 24 MM
 External Jaw Reach: 100 MM
 Width: 20 MM



1000 MM Dual Scale Digital Caliper

PN: AC-118-040-11

- Functions: zero point, mm/inch, ABS, data preset
- USB data output
- Made of stainless steel

Range: Outside 0-1020 MM/0-40.2"
 Inside 20-1000 MM/0-40"
 Resolution: 0.01 MM/0.005"
 Accuracy: ± 0.07 MM/0.003"
 Beam Width: 32 MM
 External Jaw Reach: 150 MM
 Width: 20 MM

Digital Brake Calipers

Digital Dual Scale Disc Brake Caliper

PN: AC-157-005-11

- Measure disc brakes thickness
- Buttons: on/off, zero, mm/inch
- Automatic power on/off
- Made of stainless steel

Range: 0-128 MM / 0-5"
 Resolution: 0.01 MM / 0.0005"
 Accuracy: ± 0.07 MM
 Internal Jaw Reach: 85 MM
 Beam Width: 16 MM
 External Jaw Reach: 80 MM
 Length: 225 MM



300 MM Dual Scale Digital Drum Brake Caliper

PN: AC-158-012-11

- Measure internal and external diameter of drum brakes
- Functions: on/off, zero, mm/inch, Automatic power on/off
- USB Data output
- Made of stainless steel

Range: 0-300 MM
 Resolution: 0.01 MM
 Accuracy: ± 0.07 MM
 Internal Jaw Reach: 46 MM
 Beam Width: 16 MM
 External Jaw Reach: 61 MM
 Length: 435 MM



Vernier Calipers

150 MM Dual Scale Vernier Caliper

PN: AC-120-006-12

- Meet DIN862
- Stain chrome plated reading surface
- Made of stainless steel

Range: 0-150 MM / 6"
 Graduations: 0.05 MM/0.001"
 Accuracy: $\pm 0.03/0.001$ "
 Internal Jaw Reach: 15.5 MM
 Beam Width: 16 MM
 External Jaw Reach: 40 MM
 Length: 235 MM

200 MM Dual Scale Vernier Caliper

PN: AC-120-008-12

- Meet DIN862
- Stain chrome plated reading surface
- Made of stainless steel

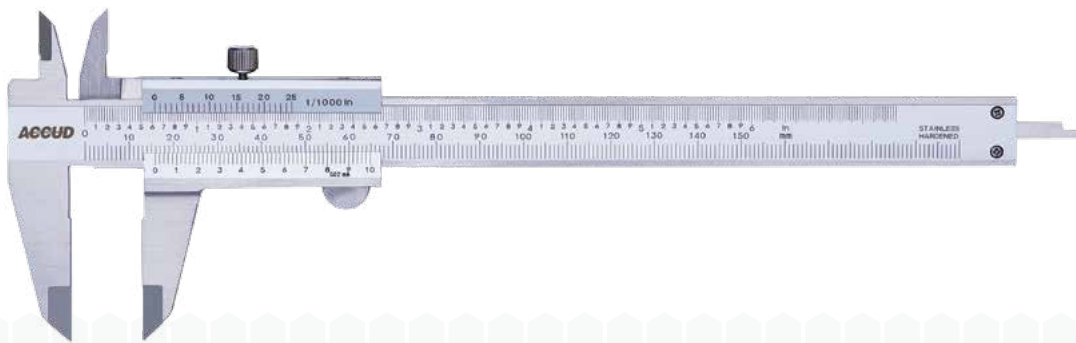
Range: 0-200 MM / 8"
 Graduations: 0.05 MM/0.001"
 Accuracy: $\pm 0.03/0.001$ "
 Internal Jaw Reach: 19 MM
 Beam Width: 16 MM
 External Jaw Reach: 50 MM
 Length: 290 MM

300 MM Dual Scale Vernier Caliper

PN: AC-120-012-12

- Meet DIN862
- Stain chrome plated reading surface
- Made of stainless steel

Range: 0-300 MM / 12"
 Graduations: 0.05 MM/0.001"
 Accuracy: $\pm 0.04/0.002$ "
 Internal Jaw Reach: 22 MM
 Beam Width: 20 MM
 External Jaw Reach: 64 MM
 Length: 414 MM

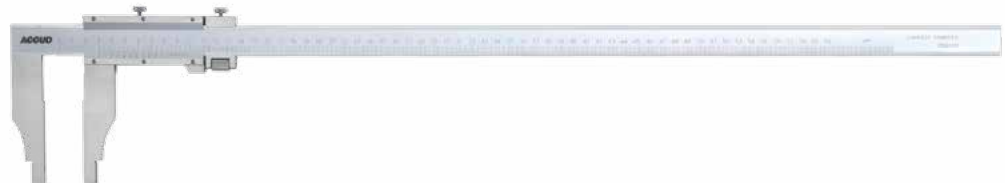


600 MM Dual Scale Vernier Caliper

PN: AC-127-024-11

- With fine adjustment
- Made of stainless steel
- Stain chrome reading surface

Range: Outside 0-620 MM/0-24.5"
 Inside 20-600 MM/0-24"
 Resolution: 0.01 MM/0.005"
 Accuracy: ± 0.05 MM/0.002"
 Beam Width: 24 MM
 External Jaw Reach: 100 MM
 Length: 770 MM
 Width: 20 MM



600 MM Long Jaw Dual Scale Vernier Caliper

PN: AC-126-024-12

- With fine adjustment
- Made of stainless steel
- Stain chrome reading surface

Range: Outside 0-620 MM/0-24.5"
 Inside 20-600 MM/0-24"
 Resolution: 0.01 MM/0.005"
 Accuracy: ± 0.08 MM/0.003"
 Beam Width: 32 MM
 External Jaw Reach: 250 MM
 Length: 770 MM
 Width: 20 MM



Vernier Calipers

1000 MM Dual Scale Vernier Caliper

PN: AC-127-040-11

- Fine adjustment
- Made of stainless steel
- Stain chrome reading surface

Range: Outside 0-1020 MM/0-40.2"
 Inside 20-1000 MM/0-40"
 Resolution: 0.01 MM/0.005"
 Accuracy: ± 0.08 MM/0.003"
 Beam Width: 32 MM
 External Jaw Reach: 140 MM
 Length: 1216 MM
 Width: 20 MM

2000 MM Dual Scale Vernier Caliper

PN: AC-127-080-11

- Fine adjustment
- Made of stainless steel
- Stain chrome reading surface

Range: Outside 0-2020 MM/0-79.6"
 Inside 20-2000 MM/0-79"
 Resolution: 0.01 MM/0.005"
 Accuracy: ± 0.14 MM/0.006"
 Beam Width: 42 MM
 External Jaw Reach: 200 MM
 Length: 2320 MM
 Width: 20 MM



Dial Calipers

150 MM Metric Dial Caliper

PN: AC-101-006-11

- Shockproof dial indicator
- Made of stainless steel
- Calibration certificate is included

Range: 0-150 MM
 Graduations: 0.01 MM
 Accuracy: ± 0.03 MM
 Internal Jaw Reach: 16.5 MM
 Beam Width: 16 MM
 External Jaw Reach: 40 MM
 Length: 233 MM

200 MM Metric Dial Caliper

PN: AC-101-008-11

- Shockproof dial indicator
- Made of stainless steel
- Calibration certificate is included

Range: 0-200 MM
 Graduations: 0.01 MM
 Accuracy: ± 0.03 MM
 Internal Jaw Reach: 19 MM
 Beam Width: 16 MM
 External Jaw Reach: 50 MM
 Length: 288 MM

300 MM Metric Dial Caliper

PN: AC-101-012-11

- Shockproof dial indicator
- Made of stainless steel
- Calibration certificate is included

Range: 0-300 MM
 Graduations: 0.01 MM
 Accuracy: ± 0.04 MM
 Internal Jaw Reach: 25 MM
 Beam Width: 20 MM
 External Jaw Reach: 64 MM
 Length: 390 MM



Caliper Depth Base Attachment

PN: AC-179-000-00

- Attach to calipers (with a 16 MM beam) to increase the stability of depth measurement
- Made of stainless steel

Width: 75 MM



Metric Outside Micrometers



- Adjust collars for different measuring ranges
- Ratchet stop
- Carbide measuring faces
- Supplied with setting standards

25^{MM} Metric Outside Micrometer

PN: AC-321-001-01



Range: 0-25 MM
Graduations: 0.01 MM
Accuracy: $\pm 4 \mu\text{m}$
External Jaw Reach: 29 MM

25-50^{MM} Metric Outside Micrometer

PN: AC-321-002-01



Range: 25-50 MM
Graduations: 0.01 MM
Accuracy: $\pm 4 \mu\text{m}$
External Jaw Reach: 39 MM

50-75^{MM} Metric Outside Micrometer

PN: AC-321-003-01



Range: 50-75 MM
Graduations: 0.01 MM
Accuracy: $\pm 5 \mu\text{m}$
External Jaw Reach: 53 MM

75-100^{MM} Metric Outside Micrometer

PN: AC-321-004-01



Range: 75-100 MM
Graduations: 0.01 MM
Accuracy: $\pm 5 \mu\text{m}$
External Jaw Reach: 65 MM

100-125^{MM} Metric Outside Micrometer

PN: AC-321-005-01



Range: 100-125 MM
Graduations: 0.01 MM
Accuracy: $\pm 6 \mu\text{m}$
External Jaw Reach: 76 MM

125-150^{MM} Metric Outside Micrometer

PN: AC-321-006-01



Range: 125-150 MM
Graduations: 0.01 MM
Accuracy: $\pm 6 \mu\text{m}$
External Jaw Reach: 88 MM

150-175^{MM} Metric Outside Micrometer

PN: AC-321-007-01

Range: 150-175 MM
Graduations: 0.01 MM
Accuracy: $\pm 7 \mu\text{m}$
External Jaw Reach: 101 MM
Length: 185 MM

175-200^{MM} Metric Outside Micrometer

PN: AC-321-008-01

Range: 175-200 MM
Graduations: 0.01 MM
Accuracy: $\pm 7 \mu\text{m}$
External Jaw Reach: 114 MM
Length: 210 MM

200-225^{MM} Metric Outside Micrometer

PN: AC-321-009-01

Range: 200-225 MM
Graduations: 0.01 MM
Accuracy: $\pm 8 \mu\text{m}$
External Jaw Reach: 126 MM
Length: 235 MM

225-250^{MM} Metric Outside Micrometer

PN: AC-321-010-01

Range: 225-250 MM
Graduations: 0.01 MM
Accuracy: $\pm 8 \mu\text{m}$
External Jaw Reach: 139 MM
Length: 260 MM

250-275^{MM} Metric Outside Micrometer

PN: AC-321-011-01

Range: 250-275 MM
Graduations: 0.01 MM
Accuracy: $\pm 9 \mu\text{m}$
External Jaw Reach: 151 MM
Length: 286 MM

275-300^{MM} Metric Outside Micrometer

PN: AC-321-012-01

Range: 275-300 MM
Graduations: 0.01 MM
Accuracy: $\pm 9 \mu\text{m}$
External Jaw Reach: 164 MM
Length: 311 MM

300-400^{MM} Metric Outside Micrometer

PN: AC-329-016-01

Range: 300-400 MM
Graduations: 0.01 MM
Accuracy: $\pm 11 \mu\text{m}$
External Jaw Reach: 250 MM

400-500^{MM} Metric Outside Micrometer

PN: AC-329-020-01

Range: 400-500 MM
Graduations: 0.01 MM
Accuracy: $\pm 12 \mu\text{m}$
External Jaw Reach: 295 MM

500-600^{MM} Metric Outside Micrometer

PN: AC-329-024-01

Range: 500-600 MM
Graduations: 0.01 MM
Accuracy: $\pm 13 \mu\text{m}$
External Jaw Reach: 345 MM

Metric Outside Micrometers

75 mm Metric Outside Micrometer 3 Piece Set

PN: AC-321-003-03

- Supplied with Calibration Certificate

Set consists of 3, 321 Series Micrometers:
0-25 mm, 25-50 mm & 50-75 mm. Range: 0-75 mm

Range: 0-150 mm
Resolution: 0.01 mm
Accuracy: ± 4 to 6 μm



150 mm Metric Outside Micrometer 6 Piece Set

PN: AC-321-006-06

- Supplied with Calibration Certificate

Set consists of 6, 321 Series Micrometers:
0-25 mm, 25-50 mm, 50-75 mm, 75-100 mm,
100-125 mm & 125-150 mm

Range: 0-150 mm
Resolution: 0.01 mm
Accuracy: ± 4 to 6 μm



300 mm Metric Outside Micrometer Set

PN: AC-321-012-06

Set consists of 6, 321 Series Micrometers:
150-175 mm, 175-200 mm, 200-225 mm,
225-250 mm, 250-275 mm, 275-300 mm

Range: 150-300 mm
Resolution: 0.01 mm
Accuracy: ± 7 to 9 μm



Coolant Proof Outside Micrometers

25 MM Coolant Proof Dual Scale Digital Micrometer

PN: AC-313-001-01



- Absolute system
- IP65 protection level
- Functions: origin, mm/inch,
- Zero point, ABS, hold, data export
- Carbide measuring faces
- Ratchet stop
- Supplied with Calibration Certificate

Range: 0-25 MM/0-1"

Resolution: 0.001 MM/0.00005"

Accuracy: $\pm 2 \mu\text{m}$

External Jaw Reach: 24 MM

25-50 MM Coolant Proof Dual Scale Digital Micrometer

PN: AC-313-002-01



- Absolute system
- IP65 protection level
- Functions: origin, mm/inch,
- Zero point, ABS, hold, data export
- Carbide measuring faces
- Ratchet stop
- Setting standards & Calibration Certificate are included

Range: 25-50 MM/1-2"

Resolution: 0.001 MM/0.00005"

Accuracy: $\pm 2 \mu\text{m}$

External Jaw Reach: 32 MM



Imperial Outside Micrometers

1" Imperial Outside Micrometer

PN: AC-324-001-01

Range: 0-1"
Graduations: 0.005"
Accuracy: $\pm 4 \mu\text{m}$
External Jaw
Reach: 29 MM
Length: 32 MM



1-2" Imperial Outside Micrometer

PN: AC-324-002-01

Range: 1-2"
Graduations: 0.005"
Accuracy: $\pm 4 \mu\text{m}$
External Jaw
Reach: 39 MM
Length: 58 MM



2-3" Imperial Outside Micrometer

PN: AC-324-003-01

Range: 2-3"
Graduations: 0.005"
Accuracy: $\pm 5 \mu\text{m}$
External Jaw
Reach: 53 MM
Length: 83 MM



6" Imperial Outside Micrometer 6 Piece Set

PN: AC-324-006-06



- Set consists of 6, 324 Series Micrometers:
- 0-1", 1-2", 2-3", 3"-4", 4-5" & 5-6".

Set consists of 6 Piece Micrometers

Range: 0-6"

Graduations: 0.0005"

Accuracy: ± 4 to $6 \mu\text{m}$



Outside Micrometer Accessories

Micrometer Stand

PN: AC-381-000-00

Micrometer Stand suits micrometers that measure up to 100 MM.



Bore Gauges

50-160 mm Dual Scale Digital Bore Gauge

PN: AC-241-160-11

- Wooden handle isolates heat conduction
- Minimum value tracking function allows you to read the diameter automatically

Range: 50-160 mm
Resolution: 0.002 mm
Accuracy: ± 0.018 mm
Anvil Dia.: 9 mm
Length: 141 mm



50-160 mm Metric Dial Bore Gauge

PN: AC-251-160-11

- Dial indicator Range: 10 mm
- Dial indicator Graduation: 0.01 mm

Range: 50-160 mm
Graduations: 0.01 mm
Accuracy: ± 0.018 mm
Anvil Dia.: 9 mm
Length: 141 mm



160-250 mm Dual Scale Digital Bore Gauge

PN: AC-241-250-11

- Wooden handle isolates heat conduction
- Minimum value tracking function allows you to read the diameter automatically

Range: 160-250 mm
Resolution: 0.002 mm
Accuracy: ± 0.018 mm
Anvil Dia.: 13 mm
Length: 241 mm

250-450 mm Dual Scale Digital Bore Gauge

PN: AC-241-450-11

- Wooden handle isolates heat conduction
- Minimum value tracking function allows you to read the diameter automatically

Range: 250-450 mm
Graduations: 0.002 mm
Accuracy: ± 0.018 mm
Anvil Dia.: 15 mm
Length: 241 mm

18-160 mm Metric Dial Bore Gauge Set

PN: AC-251-346-13

- Set consists of 18-35 mm, 35-60 mm & 50-160 mm Bore Gauges & Dial indicator
- Dial indicator Range: 10 mm
- Dial indicator Graduation: 0.01 mm

Range: 18-160 mm
Resolution: 0.01 mm
Accuracy: ± 0.018 mm
Anvil Dia.: 9 mm
Length: 141 mm



Height Gauges

300 MM Dual Scale Digital Output Height Gauge

PN: AC-181-012-11

- Functions: inch/mm, ABS/INC, data hold,
- Tolerance set, data preset
- Carbide tipped scriber
- Made of stainless steel (except the base)
- USB data output
- With clamps (Ø8 mm holder)

Range: 0-300 mm/0-12"
Resolution: 0.01 mm/0.005"
Accuracy: ± 0.04 mm/0.002"
Beam Width: 23 mm
External Jaw Reach: 76 mm
Length: 470 mm

600 MM Dual Scale Digital Output Height Gauge

PN: AC-181-024-11

- Functions: inch/mm, ABS/INC, data hold,
- Tolerance set, data preset
- Carbide tipped scriber
- Made of stainless steel (except the base)
- USB data output
- With clamps (Ø8 mm holder)

Range: 0-600 mm/0-24"
Resolution: 0.01 mm/0.005"
Accuracy: ± 0.05 mm/0.002"
Beam Width: 30 mm
External Jaw Reach: 103 mm
Length: 820 mm



300 MM Dual Scale Vernier Height Gauge

PN: AC-186-012-11

- Manual scale with fine adjustment
- Carbide tipped scriber
- Made of stainless steel (except the base)
- Satin chrome plated scale
- With magnifier
- Optional accessory: series 267 clamps

Range: 0-300 mm
Graduations: 0.02 mm/0.001"
Accuracy: ± 0.04 mm
Beam Width: 28 mm
External Jaw Reach: 80 mm
Length: 545 mm

600 MM Dual Scale Vernier Height Gauge

PN: AC-186-024-11

- Manual scale with fine adjustment
- Carbide tipped scriber
- Made of stainless steel (except the base)
- Satin chrome plated scale
- With magnifier
- Optional accessory: series 267 clamps

Range: 0-600 mm
Graduations: 0.02 mm/0.001"
Accuracy: ± 0.05 mm
Beam Width: 35 mm
External Jaw Reach: 80 mm
Length: 870 mm



Depth Micrometers & Verniers

150 MM Metric Depth Micrometer

PN: AC-391-006-01

- Supplied with
- 25, 50, 75, 100,
- 125 & 150 mm anvils
- Ratchet stop

Range: 0-150 MM
Micrometer head accuracy: $\pm 3 \mu\text{m}$
Rod accuracy: $\pm(2+L/75) \mu\text{m}$
Base Span: 101.5 MM
Base Width: 17 MM



25 MM Digital Depth Vernier

PN: AC-176-001-11

- Measure the depth of grooves, small holes and tire tread
- Functions: zero point, mm/inch
- USB data output
- Made of stainless steel

Range: 0-25 MM/0-1"
Resolution: 0.01 MM/0.0005"
Accuracy: $\pm 0.03 \text{ MM}/0.001"$



200 MM Digital Depth Vernier

PN: AC-171-008-11

- USB data output
- Made of stainless steel

Functions:
Zero point, mm/inch

Range: 0-200 MM/0-8"
Resolution: 0.01 MM/0.0005"
Accuracy: $\pm 0.03 \text{ MM}/0.001"$
Beam Width: 14.5 MM
Base Span: 100 MM
Length: 280 MM



Inside Micrometers

50-600 MM Metric Tubular Inside Micrometer

PN: AC-352-024-01

- Supplied with setting standards
- Carbide measuring faces

Set consists of 13, 25, 50, 100, 150 & 200 MM Extension Rods.

Micrometer Head Travel: 13 MM

Range: 50-600 MM

Resolution: 0.01 MM

Accuracy: $(3+n+L/50) \mu\text{m}$, n=number of rods,
L=max. measuring length



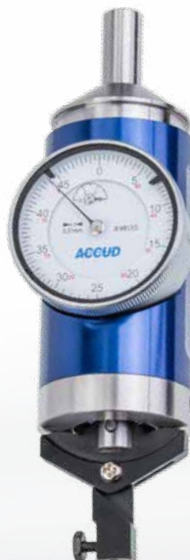
Centering & Lever Type Indicator

Centering Indicator

PN: AC-297-003-11

- For quick and accurate centering in boring or milling machines
- Jeweled bearing
- Supplied with 7 types of indicating probes

Graduations: 0.01 MM



Metric Lever Type Dial Test Indicator

PN: AC-261-008-11

- Graduation: 0.01 MM
- Jeweled bearing
- Carbide stylus
- Double scale spacing
- Anti-magnetic copper body
- With two clamps: $\varnothing 4 \text{ MM}$ and $\varnothing 8 \text{ MM}$
- Optional accessory: styli

Range: 0.8 MM

Accuracy: 13 μm



Indicators

12.7 MM Dual Scale Digital Indicator

PN: AC-212-010-11

- Functions: zero point, inch/mm conversion,
- Measuring direction set, data preset
- Absolute/incremental measurement
- USB data output
- Supplied with flat and lug back

Range: 12.7 MM/0.5"

Resolution: 0.01 MM/0.0005"

Accuracy: 20 µm



25 MM Dual Scale Digital Indicator

PN: AC-212-025-11

- Functions: zero point, inch/mm conversion,
- Measuring direction set, data preset
- Absolute/incremental measurement
- USB data output
- Supplied with flat and lug back

Range: 25 MM/1"

Resolution: 0.01 MM/0.0005"

Accuracy: 20 µm



10 MM Metric Jeweled Bearing Dial Indicator

PN: AC-222-010-11

- Graduation: 0.01 MM
- Limit hands
- Jeweled bearing
- Range per revolution: 1 MM
- Lug back

Range: 10 MM

Accuracy: 20 µm



1" Imperial Dial Indicator

PN: AC-225-025-11

- Supplied with limit hands and bezel clamp lug-back

Range: 1"

Graduations: 0.001"

Accuracy: 0.004"



30 MM Metric Dial Indicator

PN: AC-229-030-11

- Graduation: 0.01 MM
- Limit hands
- Range per revolution: 1 MM

Range: 30 MM

Graduations: 0.01 MM

Accuracy: 35 µm



Magnetic Base Kits

1" Dial Indicator and Magnetic Base with Fine Adjustment

PN: AC-280-001-02

- Jeweled bearing
- Fine adjustment arm and dovetail stem clamp
- Magnetic Base
- Limit hands
- Bezel clamp
- Lug back

Range: 1"

Graduations: 0.001"

Accuracy: 0.004"

Stem hole: 8 MM, 4 MM & 3/8"

Height: 231 MM

Arm length: 165 MM

Fine Adjustment Range: 20°

Magnetic Force: 60 Kg



10 MM Dial Gauge and Magnetic Base with Fine Adjustment

PN: AC-280-000-02

- Jeweled bearing
- Fine adjustment arm and dovetail stem clamp
- Magnetic Base
- Limit hands
- Lug back

Range: 10 MM

Accuracy: 20 µm

Graduation: 0.01 MM

Range per revolution: 1 MM

Stem hole: 8 MM, 4 MM & 3/8"

Height: 231 MM

Arm length: 165 MM

Fine Adjustment Range: 20°

Magnetic Force: 60 Kg



Magnetic Bases & Accessories

Magnetic Stand with Fine adjustment

PN: AC-281-060-01

- Suits any dial/digital indicator and dial test indicator with 8 MM, 4 MM & 3/8" stem
- Find adjustment Arm and dovetail stem clamp

Stem hole: 8 MM, 4 MM & 3/8"
Height: 231 MM
Adj. Arm length: 165 MM
Fine Adjustment Range: 20°
Magnetic Force: 60 Kgf



Magnetic Stand

PN: AC-281-060-02

- Suits any dial/digital indicator and dial test indicator with 8 MM, 4 MM & 3/8" stem
- Dovetail stem clamp

Stem hole: 8 MM, 4 MM & 3/8"
Height: 231 MM
Adj. Arm length: 165 MM
Magnetic Force: 60 Kgf



Universal Magnetic Stand

PN: AC-282-080-02

- Suits any dial/digital indicator and dial test indicator with 8 MM stem
- Find adjustment Arm and dovetail stem clamp
- V-block magnetic base



Stem hole: 8 MM
Height: 395 MM
Arm Lengths:
135 MM, 110 MM, 75 MM
Magnetic Force: 40 Kgf

Mini Universal Magnetic Stand

PN: AC-286-040-01

- Suits any dial/digital indicator and dial test indicator with 8 MM stem
- Find adjustment Arm and dovetail stem clamp
- V-block magnetic base



Stem hole: 8 MM
Height: 228 MM
Arm Lengths:
57 MM, 47 MM, 75 MM
Magnetic Force: 40 Kgf

Dial Test Indicator Centering Holder

PN: AC-269-060-01

Dial Test Indicator Centering Holder.
Center cylinders or holes on a machine tool.



Indicator Point Extension

25 MM Extension PN: AC-270-000-04

50 MM Extension PN: AC-270-000-09

75 MM Extension PN: AC-270-000-14

100 MM Extension PN: AC-270-000-17

Material: Steel
Thread: M2.5x0.45 MM



Electronic Meters

Infrared Thermometer

PN: AC-IT700

Functions: Minimum, Maximum & Average Differential indication, High & Low Temperature alarm & 100 Sample Memory

- Inbuilt-in Laser Sight
- Adjustable Emission Compensation
- Sample capture alarm with mute
- Battery Power Indicator
- Back-light LCD Display
- 1/4"-20 UNC Tripod Mount

Measuring range: -50-700 °C

Units: Celsius & Fahrenheit

Accuracy: 1.5% or 1.5 °C

Repeatability: 0.5 °C or 1%

Distance spot ratio: 12:1

Response time: 500 ms

Resolution: 0.1 °C

Power supply: 9V battery

Emission Compensation Range: 0.1-1

Weight: 196 g

Dimensions: 186 × 119 × 50 mm



Laser Distance Meter

PN: AC-TM100

Functions: Area, Volume, Indirect distance, Maximum & Minimum Memory

- Distance Measurement
- Inbuilt-in Spirit Level & Laser Sight
- IP54 Protection Level
- Back-light LCD Display
- Battery Power Indicator
- 1/4"-20 UNC Tripod Mount

Measuring range: 0.5-100 m

Accuracy: 1.5 mm

Resolution: 1 mm

Units: Metre/Inch/Foot

Light spot: Ø8 mm @ 40 m

Memory: 20 data points

Power supply: 2 x 1.5V AAA batteries

Laser: 635 nm < 1 mW

Dimension: 120 × 54 × 30 mm

Weight: 110 g



Digital Hardness Gauge

PN: AC-HL400

- Based on HL scale and supports other hardness scales (HV, HB, HRC, HRB, HS) and tensile strength in MPa
- Average value calculation function
- Automatic power off
- Conforms to ASTM A956-02 standard

Resolution: 1HLD, 1HV, 1HB, 0.1HRC, 0.1HRB, 1HS, 1MPa

Accuracy: ±8HLD/0.8HRC(HLD=800)

Min. workpiece weight: 5 kg (directly) 2 kg (on solid support) 0.1 kg (coupled to solid support)

Min. workpiece thickness: 5 mm

Min. workpiece diameter: 22 mm

Max. workpiece surface roughness:

Ra<1.6 µm

Dimension: 150 × 67 × 29 mm

Power Supply: 3 x AAA batteries

Gauge includes: Test block, Small support ring, Brush, USB cable & batteries



Digital Level & Protractor

PN: AC-722-360-01

- Aluminum frame provides high rigidity and minimal weight
- Absolute horizon reference can be saved in memory forever
- Magnetic base, with V-groove
- Use as level or protractor



Resolution: 0.05°

Accuracy:

±0.1°(at 0°/90°/180°/270°)

±0.2°(other direction)

Size: 150 mm x 60 mm x 33 mm

600 mm Digital level

PN: AC-725-360-01

- Use as level or protractor
- Absolute horizon reference can be saved in memory forever
- Adjust the display direction automatically Vertical & horizontal vials
- Magnetic base

Buttons: on/off, ABS, Hold & Alarm, Unit, back-light

Accuracy: ±0.1°(vertical & horizontal), ±0.2°(other direction)

Resolution: 0.1°

Length: 600 mm



Protractors Squares & Levels

180° Protractors & Combination Square

PN: AC-812-005-01

- 1° Graduations
- Stainless steel construction
- Satin chrome plated scale
- Locking screw

Ruler Length: 220 MM
Protractor Range: 180°



200 MM Combination Ruler

PN: AC-821-008-01

- Buttons: on/off, zero
- Locking attachment
- Graduation: 1 MM & 1/32"
- Auto power off

Ruler Length: 200 MM
Protractor Range: 360°



Combination Square Set

PN: AC-817-180-02

Protractor:

Used to set an angle or angle measurement,
measuring range: 0-180°, accuracy: $\pm 7'$

Square:

Used as 90° or 45° square

90° square accuracy: $\pm 8'$

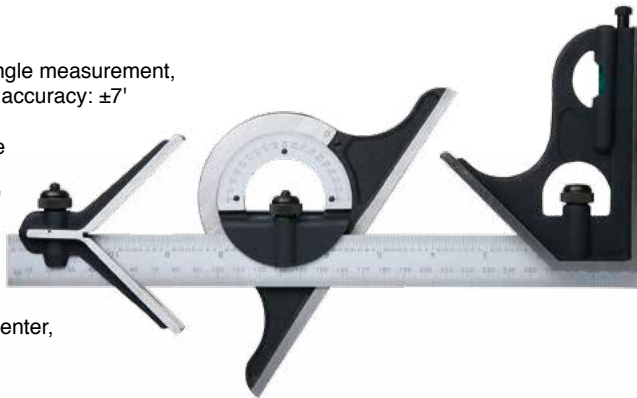
45° square accuracy: $\pm 10'$

Rule:

Used as rule,
range: 300 MM/12"

Center finder:

Used to find the cylinder center,
accuracy: ± 0.15 MM



45° Machinist Square

PN: AC-846-008-02

- Made of stainless steel

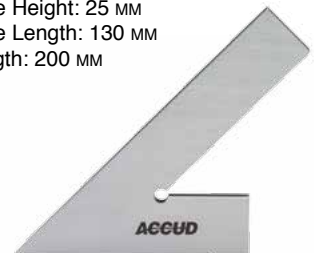
Squareness(α): 36 μ m

Squareness(β): 40 μ m

Base Height: 25 MM

Base Length: 130 MM

Length: 200 MM



100 MM Wide Base Machinist Square

PN: AC-845-004-02

Squareness (α): 28 μ m

Squareness (β): 30 μ m

Base Height: 19 MM

Base Width: 12 MM

Base Length: 70 MM

Blade Thickness: 3 MM

300 MM Wide Base Machinist Square

PN: AC-845-012-02

Squareness(α): 47 μ m

Squareness(β): 50 μ m

Base Height: 32 MM

Beam Width: 19 MM

Base Length: 200 MM

Blade Thickness: 4 MM

150 MM Wide Base Machinist Square

PN: AC-845-006-02

Squareness(α): 33 μ m

Squareness(β): 35 μ m

Base Height: 25 MM

Base Width: 16 MM

Base Length: 100 MM

Blade Thickness: 3 MM

600 MM Wide Base Machinist Square

PN: AC-845-024-02

Squareness(α): 75 μ m

Squareness(β): 80 μ m

Base Height: 50 MM

Beam Width: 30 MM

Base Length: 350 MM

Blade Thickness: 6 MM

200 MM Wide Base Machinist Square

PN: AC-845-008-02

Squareness(α): 37 μ m

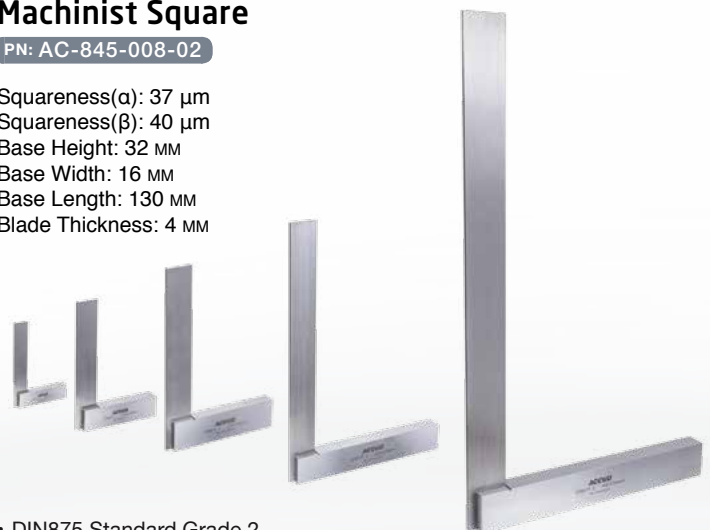
Squareness(β): 40 μ m

Base Height: 32 MM

Base Width: 16 MM

Base Length: 130 MM

Blade Thickness: 4 MM



- DIN875 Standard Grade 2
- Made from carbon steel

Protractors Squares & Levels

150 MM Block Level

PN: AC-713-006-02

- For use in setting machined surfaces to precisely horizontal
- V base angle: 140°

Accuracy: 0.02 mm/m per division

Height: 45 mm

Length: 150 mm

Width: 50 mm

300 MM Block Level

PN: AC-713-012-02

- For use in setting machined surfaces to precisely horizontal
- V base angle: 140°

Accuracy: 0.02 mm/m per division

Height: 45 mm

Length: 300 mm

Width: 50 mm



Data Acquisition

USB Programmable Data Acquisition Cable

To suit USB Digital Caliper PN: AC-100-12

To suit USB Digital Indicator PN: AC-200-02

- This data cable is supplied with both data logging software and a device driver which allows direct communication with your existing data logging systems (provided they can process ASCII encoded characters).
- Best choice for direct integration into existing application work-flows.
- Possible to automatically log date & time of capture
- Supplied with data logging software
- Optional Foot-switch for hand-free work-flow (PN: AC-400-01)

For all digital calipers except: 112, 113, 114, 117, 118 & 119 Series

Includes: USB Data Cable (2.5 m), Software CD containing Installation software, Data Logging Software, device driver & instructions



USB Data Acquisition Cable

To suit USB Digital Caliper PN: AC-100-11

To suit USB Digital Indicator PN: AC-200-01

- Log data directly into MS Excel™ or MS Word™ with no additional software required
- Optional Foot-switch for hand-free work-flow (PN: AC-400-01)
- No software included

For all digital calipers except: 112, 113, 114, 117, 118 & 119 Series

Length: 2.5 m



USB Data Acquisition Foot Switch

PN: AC-400-01

This foot activated switch enables the user to work with both hands. Connects to both USB Data Acquisition cables via 3.5 mm TRS connector plug



Thread Gauges

55° Whitworth Thread Gauge

PN: AC-924-042-30

Range: 4-42 TPI

30 increments including: 4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 19, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42 TPI

60° Metric Thread Gauge

PN: AC-922-006-24

Range: 0.25 - 6.0 MM

24 increments including: 0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6 MM

60° Metric & 55° Whitworth Thread Gauge

PN: AC-925-062-52

Range: 0.25-6.0 MM & 4-62 TPI

26 metric 60° increments including:

0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6 MM

26 BSW 55° increments including:

4, 4-1/2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 36, 40, 48, 60, 62 TPI



Radius Gauges

1-7 MM Radius Gauge

PN: AC-941-007-24

• Measures concave & convex surfaces

Range: 1-7 MM

Accuracy: ± 0.03 MM

17 increments including: 1, 1.25, 1.5, 1.75, 2, 2.25, 2.5, 2.75, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5 & 7

7.5-15 MM Radius Gauge

PN: AC-941-015-32

• Measures concave & convex surfaces

Range: 7.5-15 MM

Accuracy: ± 0.035 MM

16 increments including: 7.5, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12, 12.5, 13, 13.5, 14, 14.5 & 15 MM

15.5-25 MM Radius Gauge

PN: AC-941-025-30

• Measures concave & convex surfaces

Range: 15.5-25 MM

Accuracy: ± 0.042 MM

15 increments including: 15.5, 16, 16.5, 17, 17.5, 18, 18.5, 19, 19.5, 20, 21, 22, 23, 24 & 25

0.5-13 MM Radius Gauge Set

PN: AC-942-013-26

• Each gauge has 2 concave & three convex surfaces
• Includes gauge handle for confined spaces

Range: 0.5-13 MM

Accuracy: ± 0.05 MM

26 increments including:

0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12, 12.5 & 13 MM



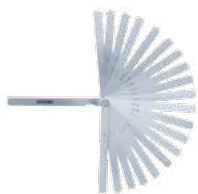
Gauges

150 MM Feeler Gauge 20 Leave Set

PN: AC-913-100-20

- Made from stainless steel

Leave thickness includes: 0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95 & 1.00 MM
Range: 0.05-1.00 MM
Length: 150 MM



200 MM Feeler Gauge 20 Leave Set

PN: AC-914-100-20

- Made from stainless steel

Leave thickness includes: 0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95 & 1.00 MM
Range: 0.05-1.00 MM
Length: 200 MM



300 MM Feeler Gauge 20 Leave Set

PN: AC-915-100-20

- Made from stainless steel

Leave thickness includes: 0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95 & 1.00 MM
Range: 0.05-1.00 MM
Length: 300 MM



Small Hole Gauge Set

PN: AC-952-004-01

- 4 gauges per set
- For small holes, slots and grooves, etc.

Range: 3-13 MM
Individual Hole Gauge ranges:
3-5 MM, 5-7.5 MM,
7.5-10 MM & 10-13 MM



15 MM Taper Gauge

PN: AC-962-015-05

- Measure the groove width and hole size
- Made from stainless steel

Range: 0.8-15 MM
Graduations: 0.1 MM
Accuracy: ± 0.1 MM



Telescopic Gauge Set

PN: AC-951-006-01

- 6 gauges per set
- For quick measurement of inside diameter of holes and width of slots, satin chrome finish

Individual Telescopic Gauge ranges:
8-12.7 MM
12.7-19 MM
19-32 MM
32-54 MM
54-90 MM
90-150 MM
Range: 8-150 MM
Length: 115 MM to 137 MM



Dividers, Calipers & Rulers

200 MM Outside Caliper

PN: AC-984-008-01

- Made from carbon steel
- Hardened points

Range: 0-190 MM
Length: 200 MM

300 MM Outside Caliper

PN: AC-984-012-01

- Made from carbon steel
- Hardened points

Range: 0-290 MM
Length: 300 MM

500 MM Outside Caliper

PN: AC-984-020-01

- Made from carbon steel
- Hardened points

Range: 0-490 MM
Length: 500 MM



200 MM Inside Spring Caliper

PN: AC-982-008-01

- Made from carbon steel
- Hardened points

Range: 18-190 MM
Length: 200 MM

300 MM Inside Spring Caliper

PN: AC-982-012-01

- Made from carbon steel
- Hardened points

Range: 20-290 MM
Length: 300 MM

500 MM Inside Spring Caliper

PN: AC-982-020-01

- Made from carbon steel
- Hardened points

Range: 25-490 MM
Length: 500 MM



200 MM Spring Divider

PN: AC-985-008-01

- Made from carbon steel
- Hardened points

Range: 0-190 MM
Length: 200 MM

300 MM Spring Divider

PN: AC-985-012-01

- Made from carbon steel
- Hardened points

Range: 0-290 MM
Length: 300 MM

500 MM Spring Divider

PN: AC-985-020-01

- Made from carbon steel
- Hardened points

Range: 0-490 MM
Length: 500 MM

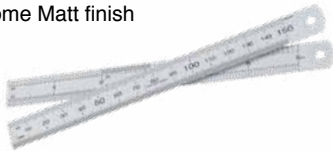


150 MM Rulers

PN: AC-990-006-11

- Hardened Stainless
- Dual Scale

Range: 6" / 150 MM
Construction: Hard Stainless
Chrome Matt finish



300 MM Rulers

PN: AC-990-012-11

- Hardened Stainless
- Dual Scale

Range: 12" / 300 MM
Construction: Hard Stainless
Chrome Matt finish



Double Ended Scriber

PN: AC-995-009-01

- Nickel plated with Hardened tips
- Knurled handle

Length: 250 MM
Handle length: 90 MM x 8 MM



FUJI TOOL MEASURING EQUIPMENT

Thread Gauges

60° Unified Thread Gauge

PN: FT006

- 30 Unified 60° leaves, all SPCC steel construction, including the lock screw.
- Made in Japan.

Increments: 4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40 & 42 TPI



60° Metric Thread Gauge

PN: FT156

- 28 Metric 60° leaves, all SPCC steel construction, including the lock screw.
- Made in Japan.

Increments: 0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 0.55, 0.6, 0.65, 0.7, 0.75, 0.8, 0.85, 0.9, 1, 1.1, 1.2, 1.25, 1.3, 1.4, 1.5, 1.6, 1.7, 1.75, 1.8, 1.9, 2, 2.5 MM



Metric / Whitworth 55° Thread Gauge

PN: FT163

- 52 Metric & Whitworth 55° Leaves, all SPCC steel construction, including the lock screw.
- Made in Japan.

Metric Increments: 0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5 & 6 MM

Whitworth Increments: 4", 4-1/2", 5", 6", 7", 8", 9", 10", 11", 12", 13", 14", 16", 18", 19", 20", 22", 24", 25", 26", 28", 30", 32", 36", 40", 48", 60", 62"



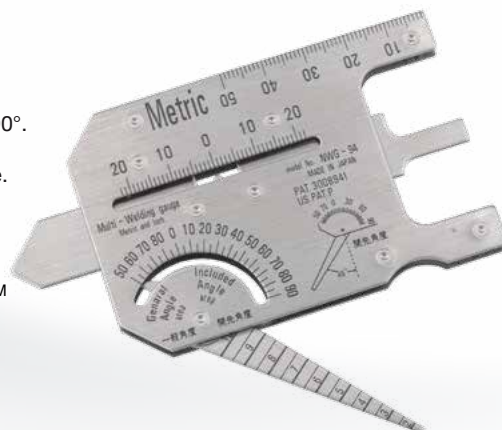
Welding & Depth Gauges

Metric Welding Gauges

PN: FTNWG94

- The essential pocket sized inspection tool for welding.
- Capable of Measuring:
 - Angles from a right angle of up to 90°.
 - Acute angles of up to 50°.
 - Seam or corner welds size & profile.
 - Gaps ranging from 1.5 to 10 mm.
 - Height & depth of up to 20 mm.

Height & depth range: 20 mm
Distance Between Roots: 1.5-10.0 mm
Accuracy: ± 0.2 mm
Angle of Bevel Groove: 0-85°
General Angle: 50°



Metric Pocket Depth Gauge

PN: FTPDG50

- Compact in size ideal for measuring depth of holes, slots, projections etc.
- All Stainless Steel Construction, Including the lock screw.

Range: 50 mm
Gradients: 1/20 mm
Accuracy: ± 0.05 mm
Material: Stainless Steel



FUJI TOOL MEASURING EQUIPMENT

Radius Gauges

Small Radius Gauge

PN: FT272MA

- 18 Metric leaves, all steel construction, including the lock screw.
- Made in Japan.

Increments: 0.75, 1, 1.25, 1.5, 1.75, 2, 2.25, 2.5, 2.75, 3, 3.25, 3.5, 3.75, 4, 4.25, 4.5, 4.75 & 5 MM



Large Radius Gauge

PN: FT272MB

- 16 Metric Leaves, all Stainless Steel Construction, including the lock screw.
- Made in Japan.

Increments: 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12, 12.5 & 13



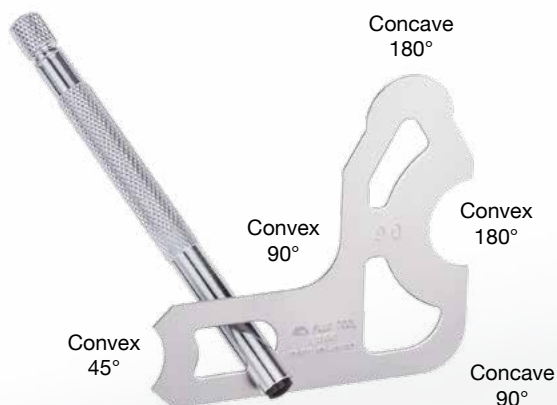
Metric Internal & External Radius Gauge Set

PN: FTL300MX

- More accurately measure radii in a wider range of places.
- Measures convex curves down to 45°.
- Set includes 26 Metric stainless steel gauges, quick-release gauge holder and carry case.
- Made in Japan.

Increments: 0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12, 12.5 & 13 MM

Accuracy: 0.2 to 25.0R (± 0.03 MM)
25.5 to 50.0R (± 0.05 MM)



FUJI TOOL MEASURING EQUIPMENT

Pitch Gauges

29° Acme Screw Pitch Gauge

PN: FT29730

- 16 Imperial Leaves All Stainless Steel Construction, including the lock screw.
- Made in Japan.

Radius range: 1 to 12"

Increments: 1, 1-1/3, 1-1/2, 1-3/4, 2, 2-1/2, 3, 3-1/2, 4, 5, 6, 7, 8, 9, 10 & 12"

Accuracy: 1" (± 0.05 mm)

1-1/3" to 2" (± 0.04 mm)

2-1/2" to 3" (± 0.04 mm)

3-1/2" to 8" (± 0.03 mm)

9 to 12" (± 0.02 mm)



30° Acme Screw Pitch Gauge

PN: FT30720

- 12 Metric Leaves All Stainless Steel Construction, including the lock screw.
- Made in Japan.

Radius range: 2 to 20 mm

Increments: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 16 & 20 mm

Accuracy: 2 to 3 mm (± 0.02 mm)

4 to 7 mm (± 0.05 mm)

8 to 16 mm (± 0.04 mm)

20 mm (± 0.05 mm)



Gear Tooth Gauges

20° Gear Imperial Tooth Diametrical Pitch Gauges

PN: FTDPS20

- All SPCC Steel Construction
- Made in Japan.

8 Metric Leaves

Radius range: 6" to 18"

Increments: 6", 7", 8", 9", 10", 11", 12", 14", 16 & 18"

Accuracy: ± 0.05 mm



20° Metric Gear Tooth Pitch Gauge

PN: FTMPS20

- All SPCC Steel Construction.
- Made in Japan.

17 Imperial Leaves

Radius range: 0.5 mm to 5 mm

Increments: 0.5 mm, 0.75 mm, 1 mm, 1.25 mm, 1.5 mm, 1.75 mm, 2 mm, 2.25 mm, 2.5 mm, 2.75 mm, 3 mm, 3.25 mm, 3.5 mm, 3.75 mm, 4 mm, 4.5 mm & 5 mm

Accuracy: ± 0.05 mm



Reversible Keyless Drill Chucks

10 MM Keyless Drill Chucks

3/8" x 24 Mount PN: PORLDP10F38R

1/2" x 20 Mount PN: PORLDP10F12R

- Hard Nylon, two piece sleeve, metal nose cap, suitable for machines in forward, reverse and percussion mode.
- Made In Italy.

Chuck Capacity: 1.5-10 MM

Body Length (jaws extended): 63 MM

Body Dia.: 42.7 MM



13 MM Keyless Drill Chucks

3/8" x 24 Mount PN: PORLDP13F38R

1/2" x 20 Mount PN: PORLDP13F12R

- Hard Nylon, two piece sleeve, metal nose cap, suitable for machines in forward, reverse and percussion mode.
- Made In Italy.

Chuck Capacity: 2-13 MM

Body Length (jaws extended): 76 MM

Body Dia.: 42.7 MM



13 MM Keyless Drill Chucks

3/8" x 24 Mount PN: PORTS13F38R

1/2" x 20 Mount PN: PORTS13F12R

- Suitable for Forward, reverse and impact mode. Standard jaws with serrated bite.
- Full Metal body with two piece sleeve.
- Made In Italy.

Chuck Capacity: 2-13 MM

Body Length (jaws extended): 75.3 MM

Body Dia.: 42.7 MM



Self-Tightening Keyless Drill Chucks

6 MM Keyless Drill Chuck

3/8" x 24 Mount PN: PORPN32F38

- Industrial line, self-tightening, suitable for power tools, pedestal and bench drilling machines. Right hand rotation only.
- Full Metal body
- Made In Italy.

Chuck Capacity: 0-6 MM

Body Length (jaws extended): 72 MM

Body Dia.: 34.5 MM



10 MM Keyless Drill Chuck

3/8" x 24 Mount PN: PORPN35F38

- Industrial line, self-tightening, suitable for power tools, pedestal and bench drilling machines. Right hand rotation only.
- Full Metal body
- Made In Italy.

Chuck Capacity: 1-10 MM

Body Length (jaws extended): 79 MM

Body Dia.: 34.5 MM



10 MM Keyless Drill Chuck

1/2" x 20 PN: POR35F12

- Industrial line, self-tightening, suitable for power tools, pedestal and bench drilling machines. Right hand rotation only.
- Full Metal body
- Made In Italy.

Chuck Capacity: 1-10 MM

Body Length (jaws extended): 79 MM

Body Dia.: 34.5 MM



Self-Tightening Keyless Drill Chucks

13 mm Keyless Drill Chuck

1/2" x 20 Mount PN: POR375F12

3/8" x 24 Mount PN: PORPN375F38

- Industrial line, self-tightening, suitable for power tools, pedestal and bench drilling machines. Right hand rotation only.
- Made In Italy.

Chuck Capacity: 1.5-13 mm

Body Length (jaws extended): 93 mm

Body Dia.: 30 mm



13 mm Keyless Drill Chucks

B16 Mount PN: POR37B16

J6 Mount PN: POR37J6

- Industrial line, self-tightening, suitable for power tools, pedestal and bench drilling machines. Right hand rotation only.
- Made In Italy.

Chuck Capacity: 1-13 mm

Body Length (jaws extended): 101 mm

Body Dia.: 43 mm



16 mm Keyless Drill Chucks

B16 Mount PN: POR40B16

B18 Mount PN: POR40B18

J3 Mount PN: POR40J3

J6 Mount PN: POR40J6

- Industrial line, self-tightening, suitable for power tools, pedestal and bench drilling machines. Right hand rotation only.
- Made In Italy.

Chuck Capacity: 3-16 mm

Body Length (jaws extended): 110 mm

Body Dia.: 50.5 mm



Keyed Drill Chucks

8 MM Keyed Drill Chuck

3/8" x 24 Mount PN: PORA08F38R

- Medium Duty for professional users of power tools, bench drilling machines and woodworking machinery.
- Includes Chuck Key.
- Made In Italy.

Chuck Capacity: 0.3-8 MM

Body Length (jaws extended): 54 MM

Body Dia.: 30 MM

Chuck Key: KS2



10 MM Keyed Drill Chucks

3/8" x 24 Mount PN: PORA10F38R

1/2" x 20 Mount PN: PORA10F12R

- Medium Duty for professional users of power tools, bench drilling machines and woodworking machinery.
- Includes Chuck Key.
- Made In Italy.

Chuck Capacity: 0.5-10 MM

Body Length (jaws extended): 60 MM

Body Dia.: 37 MM

Chuck Key: KS2



13 MM Keyed Drill Chucks

3/8" x 24 Mount PN: PORA13F38R

1/2" x 20 Mount PN: PORA13F12R

B16 Mount PN: PORA13B16

J6 Mount PN: PORA13J6

- Medium Duty for professional users of power tools, bench drilling machines and woodworking machinery.
- Includes Chuck Key.
- Made In Italy.

Chuck Capacity: 1.5-13 MM

Body Length (jaws extended): 73 MM

Body Dia.: 43 MM

Chuck Key: KS2



16 MM Keyed Drill Chucks

1/2" x 20 Mount PN: PORAP16F12R

B16 Mount PN: PORAP16B16

B18 Mount PN: PORAP16B18

J6 Mount PN: PORAP16J6

- Medium Duty for professional users of power tools, bench drilling machines and woodworking machinery.
- Includes Chuck Key.
- Made In Italy.

Chuck Capacity: 2.5-16 MM

Body Length (jaws extended): 86 MM

Body Dia.: 54 MM

Chuck Key: KS3



20 MM Keyed Drill Chuck

J3 Mount PN: PORAP20J3

- Medium Duty for professional users of power tools, bench drilling machines and woodworking machinery.
- Includes Chuck Key.
- Made In Italy.

Chuck Capacity: 5-20 MM

Body Length

(jaws extended): 116 MM

Body Dia.: 64 MM

Chuck Key: KS3



Drill Attachments

90° Drill Attachment with 10 mm Keyless Chuck

PORRADACL

- The right angle drill attachment enables drilling of holes where no other conventional drill will fit.
- Fits to any drill with 9 mm or larger capacity chuck.
- Double heat treated helical gears.
- Aluminum industrial quality metal housing.
- Made In Italy.

Chuck Capacity: 1.5-10 mm
 Steel Drilling capacity: 10 mm
 Wood Drilling capacity: 16 mm
 Maxi. Speed: 2, 100 RPM
 Max torque: 29.4 Nm
 Drive: 9 mm Hex
 Gear ratio 1:1.3
 Overall Length: 147 mm
 Overall Height: 100 mm
 Weight: 490 g



360° Drill Attachment with 10 mm Keyless Chuck

PN: PORRAV360CL

- This right angle drill attachment with a 360° full rotation enables drilling of holes and screw-driving where no other conventional drill will fit.
- It can be fitted on all standard power tools and screwdrivers.
- Included Allen Key wrench to adjust and lock the tool at the desired angle.
- Metal Body, Hard Nylon chuck
- Made In Italy.

Keyless chuck (PN: LD10F38R)
 Chuck Capacity: 1.5-10 mm
 Steel Drilling capacity: 10 mm
 Wood Drilling capacity: 16 mm
 Angle Range: 360° / 16 increments
 Max. speed: 3500 RPM
 Max torque: 35 Nm
 Drive: 6 mm Hex
 Gear ratio: 1:1
 Weight: 465 g



Thread Adapters

1/4" Male Hex Thread Adapter with 3/8 x 24 TPI Threaded Mount

PN: PORRACX1

1/4" Male Hex to 3/8" x 24 TPI thread



1/2" x 20 TPI Male to 3/8" x 24 TPI Female Thread Adapter

PN: PORRAC3812FB

Thread Adapter 1/2 x 20 TPI male to 3/8 x 24 TPI female



Ejecting Drifts

MT1/MT2 Ejecting Drift

PN: PORDR12

- Hardened and black oxide finish.
- Made In Italy

Capacity: MT1/MT2
Overall Length: 140 MM

MT2/MT3 Ejecting Drift

PN: PORDR23

- Hardened and black oxide finish.
- Made In Italy

Capacity: MT2/MT3
Overall Length: 148 MM

MT3/MT4 Ejecting Drift

PN: PORDR34

- Hardened and black oxide finish.
- Made In Italy

Capacity: MT3/MT4
Overall Length: 190 MM

MT4/MT5 Ejecting Drift

PN: PORDR45

- Hardened and black oxide finish.
- Made In Italy

Capacity: MT4/MT5
Overall Length: 225 MM



Drill Chuck Keys

K1 Drill Chuck Key

PN: PORKS1B

- Made In Italy.

Number of Teeth: 10
Pilot Pin: 4 MM



K2 Drill Chuck Key

PN: PORKS2B

- Made In Italy.

Number of Teeth: 12
Pilot Pin: 6 MM



K3 Drill Chuck Key

PN: PORKS3B

- Made In Italy.

Number of Teeth: 12
Pilot Pin: 8 MM



Jacobs KG Drill Chuck Key

PN: PORKH810B

- Key to suit Porta chuck (KH810) Jacobs KG

Pilot Pin: 6 MM
Number of Teeth: 11



Key Holder

PN: PORKLOB

- Rubber Strap to attach key to power tool cable.

Key Holder



Number & Letter Stamps

- Each set is presented in a strong, red plastic case
- 36 Piece set includes 27 Piece A-Z plus & , and a 9 Piece 0-8 (6 is used as 9)
- Individually marked with the size on the side
- Tapered sides to stamp head
- Made from CRV (6150), sandblast finish



3 MM Number & Letter Stamps

PN: GYC607-3

Character Size: 3 MM (H)
Shank: 1/4" sq
Hardness: HRC 58-62°

6 MM Number & Letter Stamps

PN: GYC607-6

Character Size: 6 MM (H)
Shank: 3/8" sq
Hardness: HRC 58-62°

4 MM Number & Letter Stamps

PN: GYC607-4

Character Size: 4 MM (H)
Shank: 5/16" sq
Hardness: HRC 58-62°

8 MM Number & Letter Stamps

PN: GYC607-8

Character Size: 8 MM (H)
Shank: 1/2" sq
Hardness: HRC 58-62°

5 MM Number & Letter Stamps

PN: GYC607-5

Character Size: 5 MM (H)
Shank: 5/16 sq
Hardness: HRC 58-62°

Number Stamps

- Each set is presented in a strong, red plastic case
- 9 Piece set includes 0-8 (6 is used as 9)
- Individually marked with the size on the side
- Tapered sides to stamp head
- Made from CRV (6150), sandblast finish



3 MM Number Stamps

PN: GYC602-3

Character Size: 3 MM (H)
Shank: 1/4" sq
Hardness: HRC 58-62°

6 MM Number Stamps

PN: GYC602-6

Character Size: 6 MM (H)
Shank: 3/8" sq
Hardness: HRC 58-62°

12 MM Number Stamps

PN: GYC602-12

Character Size: 12 MM (H)
Shank: 5/8" sq
Hardness: HRC 58-62°

4 MM Number Stamps

PN: GYC602-4

Character Size: 4 MM (H)
Shank: 1/4" sq
Hardness: HRC 58-62°

8 MM Number Stamps

PN: GYC602-8

Character Size: 8 MM (H)
Shank: 1/2" sq
Hardness: HRC 58-62°

5 MM Number Stamps

PN: GYC602-5

Character Size: 5 MM (H)
Shank: 5/16" sq
Hardness: HRC 58-62°

10 MM Number Stamps

PN: GYC602-10

Character Size: 10 MM (H)
Shank: 1/2" sq
Hardness: HRC 58-62°

Letter Stamps

- Each set is presented in a strong, red plastic case
- 27 Piece set includes A-Z plus & ,
- Individually marked with the size on the side
- Tapered sides to stamp head
- Made from CRV (6150), sandblast finish



10 MM Letter Stamps

PN: GYC601-10

Character Size: 10 MM (H)
Shank: 1/2" sq
Hardness: HRC 58-62°

12mm Letter Stamps

PN: GYC601-12

Character Size: 12 MM (H)
Shank: 5/8" sq
Hardness: HRC 58-62°

Stamps & Punch

- Each set packed in a strong ABS plastic case.
- Stamps made from CRV (6150)
- Holder made from SMC440
- Kit includes: Punch Holder, hexagon wrench, 52 Piece A-Z (2 of each), 36 Piece 0-8 (4 of each), one 9, one &, two /, two - , six blank space

3 MM Punch & Stamps

PN: GYC610-3

Character Size: 3 MM (H)
Shank: 3.5 x 6.4 MM
Shank length: 19 MM
Hardness: HRC 58-60°

6 MM Punch & Stamps

PN: GYC610-6

Character Size: 6 MM (H)
Shank: 5.5x8 MM
Shank length: 22 MM
Hardness: HRC 58-60°



Magnetic Tools

Magnetic Round Tray

PN: MRT001

- Stainless steel tray
- Powerful permanent magnet with rubberized coating to prevent scuffing
- Can be used vertically, horizontally or upside down.

Diameter: 150 MM
Depth: 30 MM



Magnetic Clean-Up Wand

PN: MW001

- Designed for clearing ferrous swarf
- Attracting and release of the swarf is accomplished by a magnet that moves up and down inside the central chamber.

Lifting Capacity: 6.30 Kg
Length 400 MM
Weight 0.470 Kg



Magnetic Telescopic Pickup Tool

PN: MTP001

- Telescopic shaft with a permanent magnet on the end.
- For picking up ferrous articles in small spaces
- Rubberized grip for comfort and control
- Handy for Auto Mechanics and home workshops

Length: 170-900 MM
Vertical lifting capacity: 3.6 Kg



Magnetic Broom

PN: MB001

- Wide section magnetic pickup
- Easy release trigger on main shaft
- Telescopic main shaft
- Side mounted wheels for easy use over wide areas

Handle Length: 720-1035 MM
Head width: 377 MM



Magnetic Pickup Tool Extended Reach

PN: MRE001

- Extended length large diameter head magnetic pickup tool
- For the safe removal of swarf in hard to get at places
- Quick-release lever on handle

Head diameter: 96 MM
Overall length: 960 MM
Lifting Capacity: 4.5 Kg



Work Lamps

- Uses efficient quartz halogen bulb, great light output, soft illumination without irritating eyes.
- Single pivot joint, Full Swivel Base.
- Totally enclosed dust and splash proof lighting head.

** Requires External 24V Low Voltage Transformer, recommended AL24024 or equivalent.

24V Halogen Lamp

PN: AL101C

Bulb: 24V 70W
Pivot Point: 1



24V Medium Arm Halogen Lamp

PN: AL101B

Upper arm length: 250 mm
Lower arm length: 200 mm
Bulb: 24V 70 W
Pivot Points: 2



24V Long Arm Halogen Lamp

PN: AL101A

Arm Lengths:
430 mm upper
400 mm lower
Bulb: 24V 70W
Pivot Point: 2



Work Lamp Accessories

Transformer 240V - 24V

PN: AL24024

- Enough to run 2 x 70W lamps
- inside (keep clear of coolants)
- Output is via screw terminals
- Safety approved number N16803
- Includes 4 holes for easy screw mounting

Size: 145L x 87W x 88H mm
Primary voltage: 240VAC
Frequency: 50Hz
Output: 24VAC (max150VA)



24V Bulb To Suit AL101

PN: AL101BULB

Voltage: 24V
Watt: 70



C Type Clamp to suit AL101A,B & C

PN: ALCLMP

C Type Clamp to suit AL101A,B & C



Granite Surface Plates

450 MM Granite Surface Plate

PN: VSG06

Dimensions: 300 x 450 x 60 MM
Surface accuracy: 0.0065 MM
Weight: 31 Kg

600 MM Granite Surface Plate

PN: VSG09

Dimensions: 450 x 600 x 100 MM
Surface accuracy: 0.007 MM
Weight: 79 MM

900 MM Granite Surface Plate

PN: VSG11

Dimensions: 600 x 900 x 110 MM
Surface accuracy: 0.009 MM
Weight: 110 Kg

- Black Granite Surface Plates meet or exceeds ISO 8512-2
- Harder than steel, does not nick or burr.
- Retains accuracy for years.
- Auto collimator checked for overall accuracy.

- Guaranteed repeat reading. Includes an inspection certificate to show the unilateral accuracy of plate.
- Does not rust or corrode.



Drill Drifts

Drill Drift Hammer

PN: VHD1

Easily separate drill chuck arbors and sleeves with this hand drift with integrated slide hammer.

Length: 375 MM
Weight: 1.3 kg
HRC: 44-48 degree



Ejecting Drifts

See more on Page 185

Ejecting Drifts

MT1-MT2 PN: PORDR12

MT2-MT3 PN: PORDR23

MT3-MT4 PN: PORDR34

MT4-MT5 PN: PORDR45

Hardened & Black Oxide steel.
Made In Italy



Drill Chuck Arbors

MT2 Drill Chuck Arbor with 3/8"x24 TPI Threaded Mount

PN: DCTAMT224

- Morse taper arbor with taper and threaded mounts. Precision ground, hardened and tempered.

Arbor: MT2 Morse Taper
Thread: 3/8" x 24 TPI
Thread Length: 14.3 MM
Overall Length: 96 MM
MT Shank Length: 80 MM



MT3 Drill Chuck Arbor with 3/8"x24 TPI Threaded Mount

PN: DCTAMT324

- Morse taper arbor with taper and threaded mounts. Precision ground, hardened and tempered.

Arbor: MT3 Morse Taper
Thread: 3/8" x 24 TPI
Thread Length: 14.3 MM
Overall Length: 114 MM
MT Shank Length: 99 MM



MT3 Drill Chuck Arbor with M20 Threaded Mount

PN: DCTAMT3M20

- Morse taper arbor with taper and threaded mounts. Precision ground, hardened and tempered.

Arbor: MT3 Morse Taper
Thread: M20
Thread Length: 16.4 MM
Overall Length: 131 MM
MT Shank Length: 99 MM



MT2 Drill Chuck Arbor with 1/2"x20 TPI Threaded Mount

PN: DCTAMT220

- Morse taper arbor with taper and threaded mounts. Precision ground, hardened and tempered.

Arbor: MT2 Morse Taper
Thread: 1/2" x 20 TPI
Thread Length: 14.3 MM
Overall Length: 104 MM
MT Shank Length: 80 MM



MT3 Drill Chuck Arbor with 1/2"x20 TPI Threaded Mount

PN: DCTAMT320

- Morse taper arbor with taper and threaded mounts. Precision ground, hardened and tempered.

Arbor: MT3 Morse Taper
Thread: 1/2" x 20 TPI
Thread Length: 14.3 MM
Overall Length: 114 MM
MT Shank Length: 99 MM



MT4 Drill Chuck Arbor with M20 Threaded Mount

PN: DCTAMT4M20

- Morse taper arbor with taper and threaded mounts. Precision ground, hardened and tempered.

Arbor: MT4 Morse Taper
Thread: M20
Thread Length: 16.4 MM
Overall Length: 156 MM
MT Shank Length: 123 MM



Drill Chuck Arbors

MT1 Drill Chuck Arbor

PN: DCAMT1J6

- Surface hardened and ground

Drill Taper: MT1

Chuck taper: JT6



MT2 Drill Chuck Arbor

B16 Chuck taper: PN: DCAMT2B16

B18 Chuck taper: PN: DCAMT2B18

JT3 Chuck taper: PN: DCAMT2J3

JT6 Chuck taper: PN: DCAMT2J6

- Surface hardened and ground



MT3 Drill Chuck Arbor

B16 Chuck taper: PN: DCAMT3B16

B18 Chuck taper: PN: DCAMT3B18

JT3 Chuck taper: PN: DCAMT3J3

JT6 Chuck taper: PN: DCAMT3J6

- Surface hardened and ground



MT4 Drill Chuck Arbor

B16 Chuck taper: PN: DCAMT4B16

B18 Chuck taper: PN: DCAMT4B18

JT3 Chuck taper: PN: DCAMT4J3

JT6 Chuck taper: PN: DCAMT4J6

- Surface hardened and ground



MT5 Drill Chuck Arbor

JT3 Chuck taper: PN: DCAMT5J3

JT6 Chuck taper: PN: DCAMT5J6

- Surface hardened and ground



MT3 Drill Chuck Drawbar Arbor

M12 Drawbar thread: PN: MAMT3XJ6

1/2x12 Drawbar thread: PN: MAMT3XJ6I

- Surface hardened and ground
- Specifically for MT milling machines



Drill Sleeves

MT2 Stepdown Drill Sleeve

MT2 Male to MT1 Female Taper: PN: SL1X2

- All Internal and external surfaces are hardened and ground.

MT3 Stepdown Drill Sleeve

MT3 Male to MT1 Female Taper: PN: SL1X3

MT3 Male to MT2 Female Taper: PN: SL2X3

MT4 Stepdown Drill Sleeve

MT4 Male to MT1 Female Taper: PN: SL1X4

MT4 Male to MT2 Female Taper: PN: SL2X4

MT5 Stepdown Drill Sleeve

MT5 Male to MT2 Female Taper: PN: SL2X5

MT5 Male to MT3 Female Taper: PN: SL3X5

MT5 Male to MT4 Female Taper: PN: SL4X5

MT6 Stepdown Drill Sleeve

MT6 Male to MT4 Female Taper: PN: SL4X6

MT6 Male to MT5 Female Taper: PN: SL5X6



MT Extension Sockets

MT2 Extension Sockets

MT2 Male to MT2 Female Taper: PN: ESOC2X2

MT2 Male to MT3 Female Taper: PN: ESOC2X3

MT2 Male to MT4 Female Taper: PN: ESOC2x4

- All Internal and external surfaces are hardened and ground.

MT3 Extension Sockets

MT3 Male to MT2 Female Taper: PN: ESOC3X2

MT3 Male to MT3 Female Taper: PN: ESOC3X3

MT3 Male to MT4 Female Taper: PN: ESOC3X4

MT4 Extension Sockets

MT4 Male to MT2 Female Taper: PN: ESOC4X2

MT4 Male to MT3 Female Taper: PN: ESOC4X3

MT4 Male to MT4 Female Taper: PN: ESOC4X4

MT4 Male to MT5 Female Taper: PN: ESOC4X5

MT5 Extension Sockets

MT5 Male to MT4 Female Taper: PN: ESOC5x4

MT5 Male to MT5 Female Taper: PN: ESOC5x5



Keyed Drill Chucks

Keyed 13 MM Drill Chuck

B16 Mount PN: CH13B16

JT6 Mount PN: CH13JT6

- Suitable for milling machines, lathes, drilling machines and woodworking machines
- Comes complete with key

Capacity: 1-13 MM
Outer diameter: 47 MM
Length open: 65 MM
Length closed: 81 MM
Key Type: T5
Weight: 580 G



Keyed 1-16 MM Drill Chuck

B16 Mount PN: CH16B16

B18 Mount PN: CH16B18

JT3 Mount PN: CH16JT3

JT6 Mount PN: CH16JT6

- Suitable for milling machines, lathes, drilling machines and woodworking machines
- Comes complete with key

Capacity: 1-16 MM
Outer diameter: 56 MM
Length open: 78 MM
Length closed: 96 MM
Key Type: T7
Weight: 990 G



Keyed 1-16 MM Ball Bearing Chuck

PN: VKD12003

- Suitable for heavy duty drilling use.
- By using anti-thrust bearing to increase the gripping power so that high speed drilling can be performed.
- All parts hardened and precision ground.
- Accuracy: 100m/m length is within 0.08m/m
- Supplied with key

Capacity: 1-16 MM
Mount: JT3
Outer diameter: 65 MM
Length open: 81 MM
Length closed: 101 MM
Key Type: P7
Weight: 1.5 Kg



Keyless Drill Chucks

Keyless 13 MM Drill Chuck

PN: VKD102

- Chuck spanner to suit PN: VKD102SPANNER

Capacity: 0-13 MM
Mount: JT6
Outer diameter: 50.3 MM
Length open: 93.7 MM
Length closed: 105.3 MM
Accuracy: 0.05 MM / 50 MM
Weight: 1.03 Kg



Keyless 3-16 MM Drill Chuck

PN: VKD104

- Chuck spanner to suit PN: VKD104SPANNER

Capacity: 3-16 MM
Mount: JT6
Outer diameter: 52 MM
Length open: 97 MM
Length closed: 110.3 MM
Accuracy: 0.05 MM / 50 MM within 0.05 MM
Weight: 1.45 Kg



Drill Chuck Keys & Spanners

Keyed Chuck Key

10 MM (T3) PN: CHKEY10

13 MM (T5) PN: CHKEY13

16 MM (T7) PN: CHKEY16

- T series keyed chucks



Ball Bearing Chuck Key

PN: V14016

- Key to suit VKD12003 (P7)
- Key to suit 16 MM Ball Bearing Chuck



Keyless Chuck Spanner

13 MM (VKD102) PN: VKD102SPANNER

16 MM (VKD104) PN: VKD104SPANNER



Morse Taper Tang Adapters



- Screw in drive tang to convert a threaded Morse taper to a tapered morse taper.

MT2 Tang Adapter

PN: VMT2M

- Tang for MT2(M10x1.5)
- MT2 Morse Taper Shank

MT4 Tang Adapter

PN: VMT4M

- Tang for MT4(M16x2)
- MT4 Morse Taper Shank

MT3 Tang Adapter

PN: VMT3M

- Tang for MT3(M12x1.75)
- MT3 Morse Taper Shank

MT5 Tang Adapter

PN: VMT5M

- Tang for MT (M24x3)
- MT5 Morse Taper Shank

Straight Shank Drill Chuck Arbors

- Straight shank drill chuck arbor
- Hardened and ground



20 mm Straight Shank Drill Chuck Arbor

PN: VJ141

Shank OD: 20 MM
Taper: JT6

25 mm Straight Shank Drill Chuck Arbor

PN: VJ142

Shank OD: 25 MM
Taper: JT6

32 mm Straight Shank Drill Chuck Arbor

PN: VJ143

Shank OD: 32 MM
Taper: JT6

45° Chamfering End Mills

45° Chamfer End Mill

PN: TC12

- Takes TCMT16T3 inserts

Shank diameter: 12 MM
Length: 110 MM
Cutter diameter: 25 MM
Capacity: 8-25 MM



45° Chamfer End Mill

PN: TC40

- Takes TCMT16T3 inserts

Shank diameter: 12 MM
Length: 100 MM
Cutter diameter: 40 MM
Capacity: 20-36 MM



Flexible Drill Shafts

Flexible Drill shaft

PN: FDS01

- Designed for minor drilling and grinding in confined areas
- NOT TO BE USED IN REVERSE

Length: 915 MM

Chuck Capacity: 6.4 MM

Drive shaft: 6 MM round



Drill Bits

Ti-nite Coated Spiral Flute Step Drill Set

PN: G3SD

- Versatile step drill set
- TiN coated for extended tool life
- Robust display case with locking latch
- Helical flute produces soft cutting action

Cutters: 3 piece

Step Drill 1: 4-12 MM

Step Drill 2: 4-20 MM

Step Drill 3: 4-32 MM

Material: HSS

Coating: Titanium Nitride (TiN)



HSS Countersink Set of 5

PN: GCS5S

- This set covers a large countersink range with only 5 cutters.
- Good for deburring and chamfering in softer materials

Pieces: 5

Angle: 90 degree

Style: Cross hole

Material: HSS

Sizes: 2-5, 5-10, 10-15, 15-20, 20-25 MM



Auto Centre Punch

PN: VACP1

Align the centre of the punch at the point where the mark is needed. Press the Centre punch down until the internal hammer function fires.

Overall length: 120 MM



HSS 3 Flute Countersink 12 Piece Set

PN: GCS3F12

- Designed for heavier deburring applications.
- 3 flute design
- TiN coated for extended tool life and material capability

Pieces: 12

Angle: 90 degree

Style: 3 Flute

Material: HSS

Coating: Titanium Nitride (TiN)

Sizes: 5.3, 5.6, 6.3, 7.3, 8.3, 9.4, 10.4, 12.4, 13.4, 16.5, 20.5, 25 MM



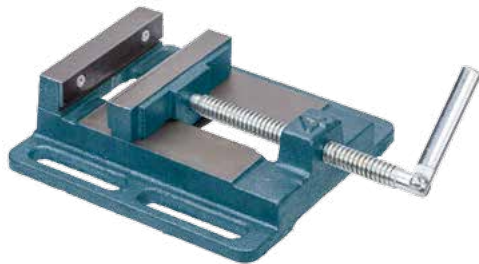
Drill Vices

100 MM Drill Press Vice

PN: TV102-4

- General purpose drill press vice
- Cast body, zinc plated screw

Base: 177x161 MM (LxW)
Overall height: 50 MM
Jaw width: 101 MM
Jaw height: 23 MM
Jaw opening: 100 MM

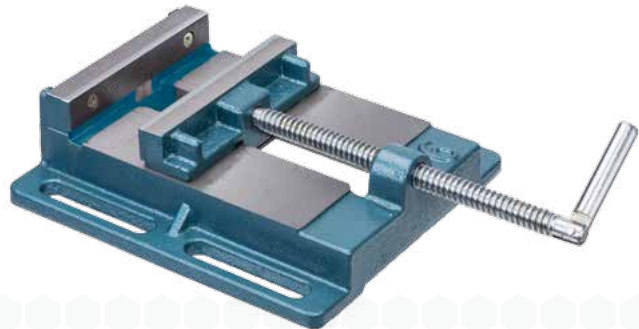


150 MM Drill Press Vice

PN: TV102-6

- General purpose drill press vice
- Cast body, zinc plated screw

Base: 238x210 MM (LxW)
Overall height: 65 MM
Jaw width: 150 MM
Jaw height: 28 MM
Jaw opening: 150 MM



200 MM Drill Press Vice

PN: TV122-8

- General purpose drill press vice
- Cast body, zinc plated screw

Base: 348x287 MM (LxW)
Overall height: 83 MM
Jaw width: 200 MM
Jaw height: 46 MM
Jaw opening: 200 MM

100 MM Cross Vice

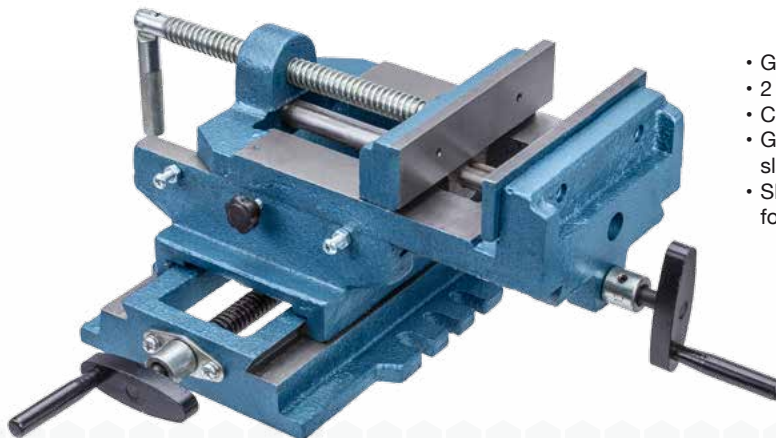
PN: TV144-4

Base: 223x130 MM
Overall height: 133 MM
Jaw width: 103 MM
Jaw height: 34 MM

150 MM Cross Vice

PN: TV144-6

Base: 280x160 MM
Overall height: 160 MM
Jaw width: 154 MM
Jaw height: 44 MM



- General purpose cross vice
- 2 axis jaw positioning
- Cast iron construction
- Gibed slide ways for slack adjustment
- Slid ways can be locked for repetition work

Welders Vices

- Designed for accurately hold two same or uneven sized bars at an 90° to each other.

60 MM Welders Vice

PN: TV274

Base dimension: 175x175 MM
Overall height: 61 MM
Jaw opening: 60 MM



100 MM Welders Vice

PN: TV275

Base dimension: 236x236 MM
Overall height: 61 MM
Jaw opening: 100 MM



Precision Drill Vices

100 MM Precision Drill Press Vice

PN: GS101-4

- High quality drill press vice
- Hardened prismatic jaws
- Removable handle for extra torque

Jaw width: 103 MM
Jaw height: 32 MM
Jaw opening: 80 MM
Weight: 4.6 Kg



125 MM Precision Drill Press Vice

PN: GS101-5

- High quality drill press vice
- Hardened prismatic jaws
- Removable handle for extra torque

Jaw width: 130 MM
Jaw height: 38 MM
Jaw opening: 110 MM
Weight: 8.4 Kg



150 MM Precision Drill Press Vice

PN: GS101-6

- High quality drill press vice
- Hardened prismatic jaws
- Removable handle for extra torque

Jaw width: 155 MM
Jaw height: 38 MM
Jaw opening: 130 MM
Weight: 10.2 Kg

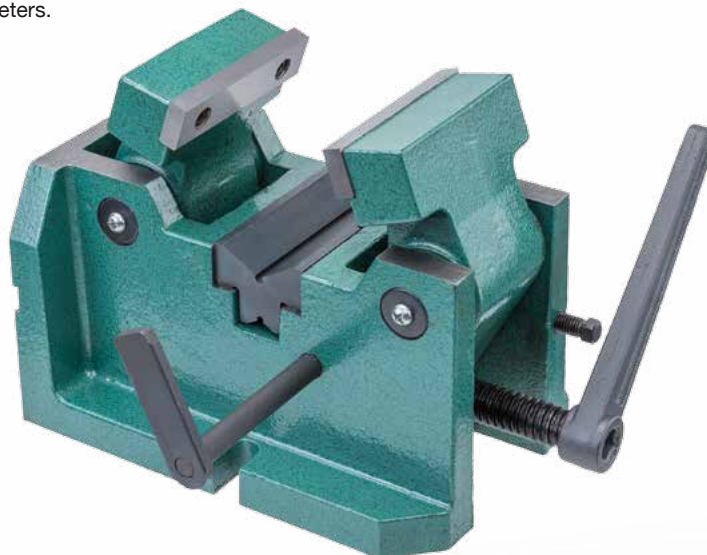
Round / Pipe Vices

100 MM Round Vice

PN: GVSR

- Machine vice for holding round workpieces.
- Reversible mount for smaller bar diameters.
- Can be used horizontally or vertically

Capacity: 10-80 MM round
Base: 230x161 MM (Horizontal)
Base: 161x135 MM (Vertical)
Jaw width: 100 MM



Rotary Tables

110 MM Rotary Table

PN: HV4

Table Diameter: 110 MM
T Sot width: 11 MM (x3)
Centre Sleeve: MT2
Horizontal load capacity: 35 Kg
Vertical load capacity: 18 Kg
Weight: 7 Kg

Optional Accessories:

- Dividing Plates PN: DP-1
- Tail Stock PN: TS-1

200 MM Rotary Table

PN: HV8

Table Diameter: 205 MM
T Sot width: 14 MM (x3)
Centre Sleeve: MT3
Horizontal load capacity: 80 Kg
Vertical load capacity: 40 Kg
Weight: 24.7 Kg

Optional Accessories:

- Dividing Plates PN: DP-3
- Tail Stock PN: TS-3

300 MM Rotary Table

PN: HV12

Table Diameter: 305 MM
T Sot width: 14 MM (x6)
Centre Sleeve: MT4
Horizontal load capacity: 120 Kg
Vertical load capacity: 60 Kg
Weight: 69.8 Kg

Optional Accessories:

- Dividing Plates PN: DP-3
- Tail Stock PN: TS-3

150 MM Rotary Table

PN: HV6

Table Diameter: 150 MM
T Sot width: 11 MM (x3)
Centre Sleeve: MT2
Horizontal load capacity: 40 Kg
Vertical load capacity: 20 Kg
Weight: 12.1 Kg

Optional Accessories:

- Dividing Plates PN: DP-1
- Tail Stock PN: TS-1

250 MM Rotary Table

PN: HV10

Table Diameter: 254 MM
T Sot width: 14 MM (x6)
Centre Sleeve: MT3
Horizontal load capacity: 90 Kg
Vertical load capacity: 50 Kg
Weight: 35.5 Kg

Optional Accessories:

- Dividing Plates PN: DP-3
- Tail Stock PN: TS-3

360 MM Rotary Table

PN: HV14

Table Diameter: 363 MM
T Sot width: 16 MM
Centre Sleeve: MT4
Horizontal load capacity: 130 Kg
Vertical load capacity: 70 Kg
Weight: 90.3 Kg

Optional Accessories:

- Dividing Plates PN: DP-3
- Tail Stock PN: TS-3

- Micro collar graduation 1 min
- High accuracy and parallelism
- High density Meehanite casting
- Hardened and ground worm, 90:1 ratio



400 MM Rotary Table

PN: HV16

Table Diameter: 406 MM
T Sot width: 16 MM (x3)
Centre Sleeve: MT4
Horizontal load capacity: 140 Kg
Vertical load capacity: 70 Kg
Weight: 106.4 Kg

Optional Accessories:

- Dividing Plates PN: DP-3
- Tail Stock PN: TS-3

Rotary Table Dividing Plates

HV6 Rotary Table Dividing Plate

PN: DP1

Dividing Plate Suit HV6
Plate A: 15, 16, 17, 18, 19, 20
Plate B: 21, 23, 27, 29, 31, 33
Plate C: 37, 39, 41, 43, 47 & 49

HV8 / VU200 Rotary Table Dividing Plate

PN: DP2

Dividing Plate HV8, VU200
Plate A: 26, 28, 30, 32, 34, 37, 38, 39, 41, 43, 44, 46, 47, 49, 51, 53, 57 & 59
Plate B: 61, 63, 67, 69, 71, 73, 77, 79, 81, 83, 87, 89, 91, 93, 97 & 99

DP Set includes Index Plate, Crank Handle, 3 Piece screws set, Sector & U Washer.



HV10-16 Rotary Table Dividing Plate

PN: DP3

Dividing Plate HV10 - 16
Plate A: 26, 28, 30, 32, 34, 37, 38, 39, 41, 43, 44, 46, 47, 49, 51, 53, 57 & 59
Plate B: 61, 63, 67, 69, 71, 73, 77, 79, 81, 83, 87, 89, 91, 93, 97 & 99

CS6 / CS8 Rotary Table Dividing Plate

PN: DP4

Dividing Plate CS6, CS8
Plate A: 26, 28, 30, 32, 34, 37, 38, 39, 41, 43, 44, 46, 47, 49, 51, 53, 57, 59
Plate B: 61, 63, 67, 69, 71, 73, 77, 79, 81, 83, 87, 89, 91, 93, 97 & 99

VU300 Rotary Table Dividing Plate

PN: DP5

Dividing Plate suit VU300
Plate A: 26, 28, 30, 32, 34, 37, 38, 39, 41, 43, 44, 46, 47, 49, 51, 53, 57, 59
Plate B: 61, 63, 67, 69, 71, 73, 77, 79, 81, 83, 87, 89, 91, 93, 97 & 99

Dividing Heads

MT2 Dividing Head with 5" chuck

PN: BS0VSC5

- Semi universal dividing head
- Complete with fitted 5" chuck

Dividing Head fitted with 5" 3 jaw chuck and includes tailstock, gears, plates.

Height: 173 MM

Taper: MT2

Spindle through hole: 18 MM

Dividing Plates:

A: 15, 16, 17, 18, 19, 20

B: 21, 23, 27, 29, 31, 33

C: 37, 39, 41, 43, 47, 49

MT3 Dividing Head with 6" chuck

PN: BS1VSC6

- Semi universal dividing head
- Complete with fitted 6" chuck

Dividing Head fitted with 6" 3 jaw chuck and includes tailstock, gears, plates.

Height: 220 MM

Taper: MT3

Spindle through hole: 20 MM

Dividing Plates:

A: 15, 16, 17, 18, 19, 20

B: 21, 23, 27, 29, 31, 33

C: 37, 39, 41, 43, 47, 49

MT3 Dividing Head with 8" chuck

PN: BS2VSC8

- Semi universal dividing head
- Complete with fitted 8" chuck

Dividing Head fitted with 8" 3 jaw chuck and includes tailstock, gears, plates.

Height: 220 MM

Taper: MT3

Spindle through hole: 20 MM

Dividing Plates:

A: 15, 16, 17, 18, 19, 20

B: 21, 23, 27, 29, 31, 33

C: 37, 39, 41, 43, 47, 49



Tailstocks

80-108 MM Tailstock

PN: TS1

- Tailstock to suit HV4 & HV6
- Cast iron body
- Horizontally adjustable centre

Height range: 80-108 MM

115-150 MM Tailstock

PN: TS2

- Tailstock to suit BS1, CC6, CS6, HV8
- Cast iron body
- Horizontally adjustable centre

Height range: 115-150 MM

130-205 MM Tailstock

PN: TS3

- Tailstock to suit HV10, HV12, CC8, CS8
- Cast iron body
- Horizontally adjustable centre

Height range: 130-205 MM

182-260 MM Tailstock

PN: TS4

- Tailstock to suit HV14, HV16
- Cast iron body
- Horizontally adjustable centre

Height range: 182-260 MM



Tilting Rotary Tables

150 MM Tilting Rotary Table

PN: VU150

- Suitable Tailstock TS1
- Suitable Dividing Plate: DP1

Table Diameter: 150 MM
Tilt range 0-90°
Worm Ratio: 90:1

250 MM Tilting Rotary Table

PN: VUT10

- Heavy duty and rigid design
- Table angle adjusted by worm and gear system
- Accurate and robust design for milling and boring
- Indexing can be done with optional dividing plates

Table diameter: 250 MM
Table height: 155 MM (at 0°)
Table height: 275 MM (max at 90°)
Base dimension: 255x397 MM
Centre hole: MT3

200 MM Tilting Rotary Table

PN: VU200

- Suitable Tailstock TS3
- Suitable Dividing Plate: DP2

Table Diameter: 200 MM
Tilt range 0-90°
Worm Ratio: 90:1

300 MM Tilting Rotary Table

PN: VUT12

- Heavy duty and rigid design
- Table angle adjusted by worm and gear system
- Accurate and robust design for milling and boring
- Indexing can be done with optional dividing plates

Table diameter: 300 MM
Table height: 178 MM (at 0°)
Table height: 319 MM (max at 90°)
Base dimension: 300 x 447 MM
Centre hole: MT4

- Table can tilt from horizontal to vertical
- Two screws to lock setting
- Worm is hardened and ground
- Work table is graduated a full 360°



PN: VUT12

PN: VU200

Super Indexing Spacers

160 MM Super Indexing Spacer

PN: CS6

Chuck diameter: 160 MM
Through hole: 44 MM
Inner jaw capacity: 4-42 MM
Outer jaw capacity: 10-156 MM
Overall height: 235 MM
Weight: 44.5Kg
Dividing plates:
2, 3, 4, 6, 8, 12 & 24
Work gear reduction: 1:90

210 MM Super Indexing Spacer

PN: CS8

Chuck diameter: 210 MM
Through hole: 63 MM
Inner jaw capacity: 4-62 MM
Outer jaw capacity: 10-180 MM
Overall height: 285 MM
Weight: 78 kg
Dividing plates:
2, 3, 4, 6, 8, 12 & 24
Work gear reduction: 1:90

- Versatile for either quick indexing using the notched plates, or fine indexing using the optional DP4 dividing plates.
- Comes complete with face plate, chuck and tailstock.



Milling Table Work Stoppers

Milling Table Work Stopper

PN: VWS125

- Use in conjunction with any vice
- Mount to the bed of the mill or drill
- Adjust stopper bar to desired length
- Two pivot points for height adjustment

T Slot: 16 MM
Pin diameter: 8 MM
Pin length: 160 MM



Parallel & Angle Block Sets

Angle Blocks 12 Piece

PN: AB130

- Includes 1/4°, 1/2°, 1° increments up to 5 degrees and 5° increments up to 30 degrees.
- Lightly magnetised for better stability.
- Hardened & Ground

Block Size: 75 MM x 6 MM

Block Angle: 1/4°, 1/2°, 1°, 2°, 3°, 4°, 5°, 10°, 15°, 20°, 25° & 30°

Accuracy: 0.0025 / 25 MM



Parallel Blocks 20 Piece

PN: VP018

- Set of 10 of thin type parallels blocks
- Hardened & Ground

Size: 3 MM x 150 MM

Heights: 13, 16, 19, 22, 25, 28, 31, 35, 38 & 41 MM

Accuracy: 0.01 MM

Parallel Blocks 9 Piece

PN: VP064

Set of 9 pairs of parallels

Size: 6 MM x 150 MM

Heights: 19, 22, 25, 28, 31, 35, 38, 41 & 44 MM

Accuracy: 0.01 MM

Parallel Blocks 8 Piece

PN: VP033

- Set of 3 of parallels blocks and 1 set of vice jaw parallels blocks
- Hardened & Ground

Parallel blocks: 8 x 24 MM, 12 x 36 MM, 22 x 40 MM

Length: 200 MM

Accuracy: 0.01 MM



Parallel Blocks 18 Piece

PN: VP100

- Set of 8 of parallels blocks and 1 set of vice jaw parallels blocks
- Hardened & Ground

5 x 16 x 100 MM, 12 x 36 x 150 MM,
6 x 18 x 100 MM, 14 x 48 x 150 MM,
8 x 24 x 100 MM, 18 x 60 x 150 MM,
10 x 30 x 100 MM, 22 x 62 x 150 MM,

Accuracy: 0.01 MM



Parallel Blocks 18 Piece

PN: VP118A

- Set of 9 parallel of parallels blocks
- Hardened & Ground

Width: 8.5 MM

Length: 150 MM

Height: 14, 16, 20, 24, 30, 32, 36, 40 & 44 MM

Accuracy: 0.01 MM



Parallel Blocks 8 Piece

PN: VP050

- Set of 4 pairs of parallels blocks
- Hardened & Ground

Width: 13 MM

Length: 150 MM

Height: 25, 31, 38 & 44 MM

Accuracy: 0.01 MM



Parallel Blocks 28 Piece

PN: VP128A

- Set of 14 pairs of parallels blocks
- Hardened & Ground

Block Size: 10 x 150 MM

Height: 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 35, 40, 45 & 50 MM

Accuracy: 0.01 MM



Parallel Blocks 36 Piece

PN: VP136

- Set of 18 pairs of parallels blocks
- Hardened & Ground

Block Size: 8 x 150 MM

Height: 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48 & 50 MM

2 piece for each dimension

Accuracy: 0.01 MM



Parallel Blocks 8 Piece

PN: VP163

- Set of 4 pairs of parallels blocks
- Hardened & Ground

Block Size: 5 x 150 MM

Height: 25, 31, 38 & 44 MM

Accuracy: 0.01 MM



Sine Bars

Sine Bar

PN: VS100

- Dimensions: 127L x 28W x 35H MM
- Parallel: 0.005/100 MM
- Centre distance: 100 MM
- Hardness: HRC50
- Material: SK-3
- Nett weight: 0.76Kg



Slotted Angle Plates

150 MM Slotted Angle Plate

PN: VR60

Angle : 90 degree
Width: 152 MM
Height: 127 MM
Depth: 114 MM

200 MM Slotted Angle Plate

PN: VR80

Angle : 90 degree
Width: 203 MM
Height: 152 MM
Depth: 127 MM

- Made of high tensile, properly seasoned cast iron
- Machined square and parallel on all faces
- Precision ground finish
- Open end style

250 MM Slotted Angle Plate

PN: VR100

Angle : 90 degree
Width: 254 MM
Height: 203 MM
Depth: 152 MM

300 MM Slotted Angle Plate

PN: VR120

Angle : 90 degree
Width: 304 MM
Height: 229 MM
Depth: 203 MM



Slotted Angle Plates

150 MM Webbed Angle Plate

PN: VR6

Angle : 90 degree
Width: 150 MM
Height: 126 MM
Depth: 115 MM

200 MM Webbed Angle Plate

PN: VR8

Angle : 90 degree
Width: 202 MM
Height: 150 MM
Depth: 126 MM

- Webbed style accurately grounded, square and parallel on outside faces and ends within 0.01 per 100 MM
- Made of high tensile cast iron.

250 MM Webbed Angle Plate

PN: VR10

Angle : 90 degree
Width: 250 MM
Height: 202 MM
Depth: 126 MM

300 MM Webbed Angle Plate

PN: VR12

Angle : 90 degree
Width: 300 MM
Height: 228 MM
Depth: 202 MM



V Blocks

50 MM V Block Set of 2

PN: V2V

Length: 50 MM
Width: 27 MM
Height: 32 MM
V width: 25 MM
V depth: 12.5 MM

100 MM V Block Set of 2

PN: V4V

Length: 100 MM
Width: 45 MM
Height: 67 MM
V width: 53 MM
V depth: 26.5 MM

156 MM V Block Set of 2

PN: V6V

Length: 156 MM
Width: 66 MM
Height: 90.5 MM
V width: 81 MM
V depth: 40.5 MM

206 MM V Block Set of 2

PN: V8V

Length: 206 MM
Width: 103 MM
Height: 143 MM
V width: 116 MM
V depth: 58 MM

- Material: High quality close-grained cast iron, stress-relieved.
- Accuracy: Machining to 0.05 MM / 100 MM .



V Blocks Clamps

64 MM V Blocks with Clamp

PN: VBC006

Width: 64 MM
Height: 45 MM
Length: 70 MM
Width of biggest V: 30 MM
Width of smallest V: 25 MM

102 MM V Blocks with Clamp

PN: VBC009

Width: 102 MM
Height: 76 MM
Length: 76 MM
Width of biggest V: 59 MM

70 MM V Blocks with Clamps

PN: VBC243

- V blocks come as pairs
- Made from Alloy steel
- Ground finish and hardened to HRC50

Width: 70 MM
Height: 45 MM
Length: 42 MM
Width of biggest V: 25 MM

- V blocks come as pairs
- Made from Alloy steel
- Ground finish and hardened to HRC50



Adjustable Angle Plates

Adjustable 185x132 MM Angle Plate

PN: VP180

Angle Plate 185 x 132 MM
T Slot Width: 13 MM
Table dimension: 185 x 132 MM (WxD)
Overall height: 95 MM (table flat)
Weight: 7.38 Kg

Adjustable 380x255 MM Angle Plate

PN: VP380

Angle Plate 380 x 255 MM
T Slot Width: 16 MM
Table dimension: 380 x 255 MM (WxD)
Overall height: 181 MM (table flat)
Weight: 56 Kg

Adjustable 255x180 MM Angle Plate

PN: VP250

Angle Plate 255 x 180 MM
T Slot = 16 MM
Table dimension: 255x180 MM (WxD)
Overall height: 136 MM (table flat)
Weight: 28.7Kg

Adjustable 600x300 MM Angle Plate

PN: VP600

Angle Plate 600 x 300 MM
T Slot = 16 MM
Table dimension: 600x300 MM (WxD)
Overall height: 202 MM (table flat)
Weight: 85Kg

- For angle setting on various machine tools.
- Adjustable 45° forwards and back.
- Material: FC25
- Lower plate and bigger working space then previous models



Cross Tables

141x310 MM Cross Table

PN: VCT512

- Designed for fast, medium accuracy work
- Light Duty Cross Table

Table: 141 x 310 MM
Height: 115 MM
Longitudinal Travel: 200 MM
Transverse Travel: 125 MM
Dial graduation: 0.03 MM
Max. Table Load: 20 Kg
Table Weight: 16.5 Kg



150x350 MM Precision Cross Table

PN: VCT514

- Sliding surfaces are heat treated and precision ground.
- Precision made 0.02/100 MM
- Can be used as a measurement table.

Table: 350x150 MM
Height: 134 MM
Travel: 170 MM longitudinal
Travel: 156 MM transverse
Dial graduation: 0.02 MM



210x730 MM Precision Cross Table

PN: VCT830

- Heavy, rugged, versatile cross table. Capable of fine adjustment for microscopic viewing and adjustment
- Constructed for heavy loads, small jig boring and precision cut off.

Table: 730x210 MM
Height: 185 MM
Travel: 350 MM longitudinal
Travel: 190 MM transverse
Dial graduation: 0.05 MM



Screw Jacks

40-50 mm Screw Jack

PN: VSJ40

Range: 40-50 mm
Diameter: 40 mm

90-140 mm Screw Jack

PN: VSJ150

Range: 90-140 mm
Diameter: 50 mm

265-360 mm Screw Jack

PN: VSJ500

Range: 265-260 mm
Diameter: 72 mm

65-90 mm Screw Jack

PN: VSJ70

Range: 65-90 mm
Diameter: 38 mm

140-230 mm Screw Jack

PN: VSJ250

Range: 140-230 mm
Diameter: 55 mm

- Support heavy workpieces
- Material: S45C



Screw Jack & Point Set

PN: VSJA

- Supports heavy workpieces
- A versatile set of Screw Jacks with 6 interchangeable points
- Ideal for both standard mountings and irregular workpieces
- Material: S45C

Set includes
2 x VSJ70
2 x VSJ150
6 different setting points



K Type Milling Vices

104 mm K Type Milling Vice

PN: VK4

Jaw width: 104 mm
Jaw height: 36 mm
Jaw opening: 62 mm
Length: 310 mm
Width: 176 mm
Height: 113 mm (inc swivel base)

204 mm K Type Milling Vice

PN: VK8

Jaw width: 204 mm
Jaw height: 63 mm
Jaw opening: 146 mm
Length: 609 mm
Width: 350 mm
Height: 190 mm (inc swivel base)

132 mm K Type Milling Vice

PN: VK5

Jaw width: 132 mm
Jaw height: 37 mm
Jaw opening: 80 mm
Length: 384 mm
Width: 209 mm
Height: 129 mm (inc swivel base)

154 mm K Type Milling Vice

PN: VK6

Jaw width: 154 mm
Jaw height: 43 mm
Jaw opening: 112 mm
Length: 473 mm
Width: 260 mm
Height: 148 mm (inc swivel base)



- High tensile cast iron body, movable jaw and swivel base
- Jaw plates made from hardened and ground tool steel
- Suitable for grinding, milling and drilling
- Accurate to within 0.02 mm

Verti-Lock Milling Vices

4" Ang-Fix Milling Vice

PN: VA4

Jaw opening: 103 MM
Jaw width: 106 MM
Jaw height: 36 MM
Length: 351 MM (excluding handle)
Height: 126 MM (including rotary base)
Max clamping force: 1500 Kgf
Weight: 20 Kg

6" Ang-Fix Milling Vice

PN: VA6

Jaw opening: 150 MM
Jaw width: 155 MM
Jaw height: 46 MM
Length: 452 MM (excluding handle)
Height: 158 MM (including rotary base)
Max clamping force: 2500 Kgf
Weight: 42 Kg

6" Ang-Fix Milling Vice

PN: VD675

- Stationary jaw with integral key, larger fasteners which reduces deflection by 50%

Jaw Opening: 190 MM
Jaw Width: 160 MM
Jaw Height: 49 MM
Length: 478 MM (excluding handle)
Height: 160 MM (including rotary base)
Max clamping force: 2500 Kgf
Weight: 42 Kg

5" Ang-Fix Milling Vice

PN: VA5

Jaw opening: 110 MM
Jaw width: 135 MM
Jaw height: 36 MM
Length: 394 MM (excluding handle)
Length: 133 MM (including rotary base)
Max clamping force: 2000 Kgf
Weight: 30 Kg

8" Ang-Fix Milling Vice

PN: VA8

Jaw opening: 197 MM
Jaw width: 210 MM
Jaw height: 60 MM
Length: 583 MM (excluding handle)
Height: 190 MM (including rotary base)
Max clamping force: 3000 Kgf
Weight: 80 Kg



- Semi-spherical mechanism pulls job down into jaws
- High clamping power
- Durable and accurate
- Accuracy within 0.02 MM

- The enclosed lead screw and sliding surface are hardened and ground.
- Jaw can be placed at back of sliding and fixed jaw to increase opening

Milling Vices

4" Milling Vice

PN: VMC4

Jaw Width: 108 MM
Jaw Height: 36 MM
Jaw Opening: 103 MM
Dimensions:
108W x 103H x 374L mm (with handle)
Max clamping force: 1500 Kgf

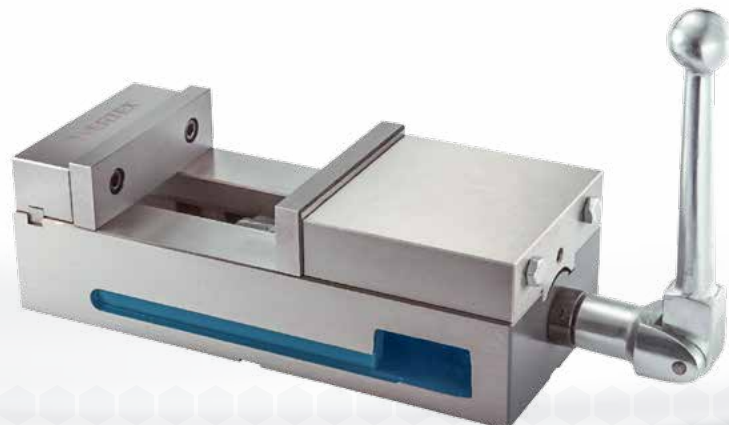
- Hardened & precision ground
- Semi-spherical mechanism pulls job down into jaws
- High quality versatile vice
- Can be mounted on base or side

- Removable handle
- Can be ganged if ordered in matched pairs
- Jaw can be placed at back of sliding and fixed jaw to increase opening

6" Milling Vice

PN: VMC6

Jaw Width: 156 MM
Jaw Height: 46 MM
Jaw Opening: 142 MM
Dimensions:
156W x 120H x 472L mm (with handle)
Max clamping force: 2500 Kgf



Special Purpose Milling Vices

6" Double Clamp Milling Vice

PN: VMC6D

- One handle can simultaneously operate two movable jaws to clamp one large workpiece or two workpieces at the same of the same or different size
- Slide ways hardened to HRC45
- Double clamp vice with dual pull down moving jaws
- Versatile clamping with 6 possible jaw combinations
- Higher jaws for greater clamping ability

Overall dimensions: 154W x 148H x 620L mm

Jaw width: 154 mm

Jaw height: 58 mm

Jaw opening: 33-100 mm



Modular Milling Vice

PN: VMP6

- High accuracy modular vice
- Pull down jaws with no jaw lift
- High Quality Alloy Steel HRC59
- Low Profile with high clamping pressure
- All vises are matched with 0.01/100 mm parallelism
- Optional Swivel Base Available

Dimensions: 150W x 100H x 420L mm

Jaw width: 150 mm

Jaw height: 50 mm

Jaw opening: 200 mm



Self Centering Milling Vice

PN: VCV1090

- Self centering vice
- Suits 4/5 axis CNC machines
- Reversible jaws
- Vice can be ganged
- Pull down jaw mechanism to prevent job from lifting
- Hardened & precision ground

Overall dimensions: 100W x 120H x 260L mm

Jaw width: 100 mm

Jaw height: 40 mm

Jaw opening: 90 mm



Hydraulic Milling Vices

150 mm Hydraulic Fixed Angle Vice

PN: VAF6

Jaw width: 152 mm

Jaw height: 57 mm

Jaw opening: 270 mm

Dimensions: 152x140x698 mm (WxHxL)

Clamping force: 5000 kgf

- Movable jaw plates increase capacity when positioned on the outside of the fixed and moving jaw
- Flame hardened bed
- Hardened internal spherical segment for push down clamping
- Three moving jaw locations for extended holding capacity



200 mm Hydraulic Fixed Angle Vice

PN: VAF8

Jaw width: 200 mm

Jaw height: 62 mm

Jaw opening: 300 mm

Dimensions: 200x162x760 mm (WxHxL)

Clamping force: 7000 kgf

Hydraulic Milling Vices

108 MM Hydraulic Milling Vice

PN: VH4

Jaw width: 108 MM
Jaw height: 36 MM
Jaw opening: 175 MM
Dimensions:
270W x 135H x 583L mm
Clamping force: 2500 Kg

132 MM Hydraulic Milling Vice

PN: VH5

Jaw width: 132 MM
Jaw height: 48 MM
Jaw opening: 210 MM
Dimensions:
290W x 161H x 703L mm
Clamping force: 4500 Kg

151 MM Hydraulic Milling Vice

PN: VH6

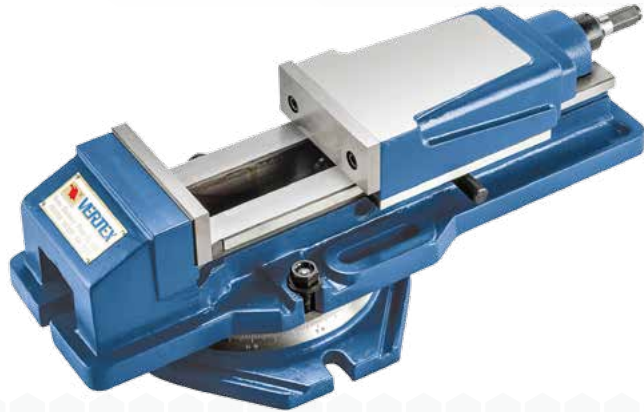
Jaw width: 151 MM
Jaw height: 52 MM
Jaw opening: 300 MM
Dimensions:
332W x 176H x 800L mm
Clamping force: 4500 Kg

204 MM Hydraulic Milling Vice

PN: VH8

Jaw width: 204 MM
Jaw height: 62 MM
Jaw opening: 300 MM
Dimensions:
375W x 206H x 857L mm
Clamping force: 7500 Kg

- Quick clamp 3 position moving jaw location
- Concealed spindle for extra swarf protection.
- High Accuracy, flame hardened and ground beds.
- Accurate to within 0.02 MM
- Heavy duty milling vice



160 MM Hydraulic Milling Vice

PN: VHO6

Jaw width: 160 MM
Jaw height: 58 MM
Jaw opening: 300 MM
Clamping force: 4000 Kg

- High powered hydraulic system
- Hardened and ground bed HRC45
- High Accuracy. Available in multiple matched units

200 MM Hydraulic Milling Vice

PN: VHO8

Jaw width: 200 MM
Jaw height: 63 MM
Jaw opening: 310 MM
Clamping force: 6000 Kg

- Mechanical action with hydraulic booster.
- Down Thrust jaws eliminate work lifting under clamp pressure
- Heavy duty milling vice



Three Way Angle Vices

80 MM Three Way Angle Vice

PN: VW3

Jaw width: 80 MM
Jaw height: 31 MM
Jaw opening: 85 MM
Overall dimensions:
240W x 157H x 370L mm
Clamping force: 800 Kg

135 MM Three Way Angle Vice

PN: VW5

Jaw width: 135 MM
Jaw height: 40 MM
Jaw opening: 145 MM
Overall dimensions: 358W x 210H x 580L mm
Clamping force: 1600 Kg

110 MM Three Way Angle Vice

PN: VW4

Jaw width: 110 MM
Jaw height: 38 MM
Jaw opening: 116 MM
Overall dimensions:
311W x 190H x 497L mm
Clamping force: 1000 Kg

- Angles can be set in 3 dimensions.
- Swivels 360° around base.
- The vise can be elevated through 90° from the horizontal to vertical.
- Smooth tilting at any angle



Super Open Milling Vices

110 MM Super Open Milling Vice

PN: VJ400

Dimensions: 270W x 135H x 386L mm
Max clamping force: 1500 Kgf
Jaw width: 110 mm
Jaw height: 38 mm
Jaw opening: 185 mm

132 MM Super Open Milling Vice

PN: VJ500

Dimensions: 290W x 158H x 455L mm
Max clamping force: 1500 Kgf
Jaw width: 132 mm
Jaw height: 48 mm
Jaw opening: 245 mm

- Three pin positions to locate moving jaw
- Sliding bed ways flame hardened and ground
- Comes complete with swivel base
- Accurate to within 0.02 mm

154 MM Super Open Milling Vice

PN: VJ600

Dimensions: 290W x 175H x 546L mm
Max clamping force: 1500 Kgf
Jaw width: 154 mm
Jaw height: 56 mm
Jaw opening: 305 mm



High Jaw Milling Vice

6" High Jaw Milling Vice

PN: V606V

- Suited for work pieces that need a high jaw vice
- High clamping power with press down moving jaw
- Durable and accurate
- The enclosed lead screw and sliding surface are hardened and ground.
- 4 position settings for the moving jaw.

Dimensions: 175W x 220H x 580L mm
Jaw width: 160 mm
Jaw height: 75 mm
Jaw opening: 150 mm



Free Vices

56 MM Free Vice Set

PN: SV62

Dimensions: 139L x 64W x 59.5H mm
Jaw face: 64W x 52.5H mm
Adjustable distance: 9 mm
Max clamping force: 1800 Kgf
Nett weight: 5.8 Kg

130 MM Free Vice Set

PN: SV125

Dimensions: 218L x 127W x 84H mm
Jaw face: 127W x 73H mm
Adjustable distance: 18 mm
Max clamping force: 1800 Kgf
Nett weight: 21 Kg

82 MM Free Vice Set

PN: SV85

Dimensions: 192L x 86.5W x 86H mm
Jaw face: 86.5W x 59.5H mm
Adjustable distance: 10 mm
Max clamping force: 1800 Kgf
Nett weight: 11 Kg

- Free standing vice for big workpieces
- Angled grub screw for pressing down on the job
- Sliding jaw face frame hardened and ground

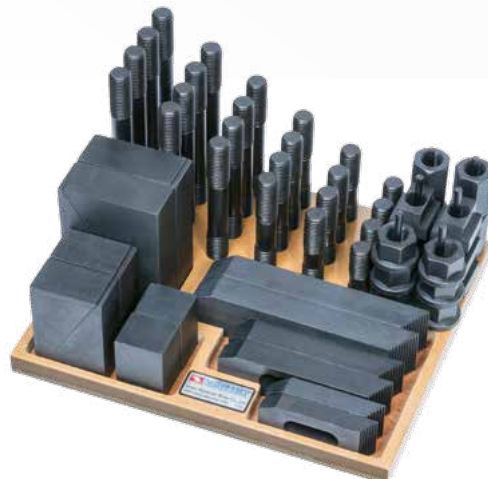


Clamp Kits

- Heat treated steel black oxide finish.
- 75/100/125/150/175/200 MM) stud lengths
- All parts can be purchased individually.
- Block size 1" (25 MM).

52 piece set in plastic rack and consists of:

- 6 pce T-Nuts
- 4 pce Coupling Nuts
- 6 pce Flange Nuts
- 6 pce step Clamps
- 6 pce Step Blocks
- 24 piece studs



Metric Slot Table Clamp Kits

Stud Size	Table Slot	Weight	PN
M8x1.25	10 MM	7.4Kg	CK08
M10x1.5	12 MM	7.6Kg	CK10
M12x1.75	14 MM	9.4Kg	CK12A
M12x1.75	15.7 MM	9.5 Kg	CK12B
M14x2	16 MM	11.1 Kg	CK14
M16x2	18 MM	12.6 Kg	CK16
M18x2.5	20 MM	25.3 Kg	CK18
M20x2.5	22 MM	27 Kg	CK20

Imperial Slot Table Clamp Kits

Stud Size	Table Slot	Weight	PN
3/8"x16 Wit.	7/16"	6.5 Kg	CK103A
3/8"x16 Wit.	1/2"	6.5 Kg	CK103B
1/2"x12 Wit.	9/16"	9.7 Kg	CK104A-WIT
12"x13 UNC	9/16"	9.7 Kg	CK104A-UNC
1/2"x12 Wit.	5/8"	10.4 Kg	CK104B-WIT
1/2"x13 UNC	5/8"	10.4 Kg	CK104B-UNC
5/8"x11 Wit.	11/16"	11.8	CK105A
5/8"x11 Wit.	3/4"	12.5 Kg	CK105B
3/4"x10 Wit.	7/8"	26.5 Kg	CK206

M20 Table Clamp Set Tray

PN: CK20Tray

Tray stores:

- 24 M20 Studs (75, 100, 125, 150, 175 & 200 MM)
- 6 M20 T-Nuts
- 4 M20 Coupling Nuts
- 6 M20 Flange Nuts
- 6 M20 step Clamps
- 6 M20 Step 1" (25 MM) Blocks



Metric Clamping Studs

- Heated Treated Steel
- Black Oxide Finish
- HRC 34°



M8 Clamping Studs

Thread	Length	PN
M8 x 1.25	75 MM	1323M
M8 x 1.25	100 MM	1324M
M8 x 1.25	125 MM	1325M
M8 x 1.25	150 MM	1326M
M8 x 1.25	175 MM	1327M
M8 x 1.25	200 MM	1328M

M10 Clamping Studs

Thread	Length	PN
M10 x 1.5	75 MM	1333M
M10 x 1.5	100 MM	1334M
M10 x 1.5	125 MM	1335M
M10 x 1.5	150 MM	1336M
M10 x 1.5	175 MM	1337M
M10 x 1.5	200 MM	1338M

M12 Clamping Studs

Thread	Length	PN
M12 x 1.75	75 MM	1343M
M12 x 1.75	100 MM	1344M
M12 x 1.75	125 MM	1345M
M12 x 1.75	150 MM	1346M
M12 x 1.75	175 MM	1347M
M12 x 1.75	200 MM	1348M

M14 Clamping Studs

Thread	Length	PN
M14 x 2.00	75 MM	1343MA
M14 x 2.00	100 MM	1344MA
M14 x 2.00	125 MM	1345MA
M14 x 2.00	150 MM	1346MA
M14 x 2.00	175 MM	1347MA
M14 x 2.00	200 MM	1348MA

M16 Clamping Studs

Thread	Length	PN
M16 x 2.00	75 MM	1353M
M16 x 2.00	100 MM	1354M
M16 x 2.00	125 MM	1355M
M16 x 2.00	150 MM	1356M
M16 x 2.00	175 MM	1357M
M16 x 2.00	200 MM	1358M

M18 Clamping Studs

Thread	Length	PN
M18 x 2.5	75 MM	1363M
M18 x 2.5	100 MM	1364M
M18 x 2.5	125 MM	1365M
M18 x 2.5	150 MM	1366M
M18 x 2.5	175 MM	1367M
M18 x 2.5	200 MM	1368M

M20 Clamping Studs

Thread	Length	PN
M20 x 2.5	75 MM	1373M
M20 x 2.5	100 MM	1374M
M20 x 2.5	125 MM	1375M
M20 x 2.5	150 MM	1376M
M20 x 2.5	175 MM	1377M
M20 x 2.5	200 MM	1378M
M20 x 2.5P	250 MM	13710M
M20 x 2.5P	300 MM	13712M

M24 Clamping Studs

Thread	Length	PN
M24 x 3.0	125 MM	1385M
M24 x 3.0	150 MM	1386M
M24 x 3.0	175 MM	1387M
M24 x 3.0	200 MM	1388M

Imperial Clamping Studs



- Heated Treated Steel
- Black Oxide Finish
- HRC 34°

3/8" Whitworth Clamping Studs

Thread	Length	PN
3/8" x 16 BSW	3"	PN: 1333I
3/8" x 16 BSW	4"	PN: 1334I
3/8" x 16 BSW	5"	PN: 1335I
3/8" x 16 BSW	6"	PN: 1336I
3/8" x 16 BSW	7"	PN: 1337I
3/8" x 16 BSW	8"	PN: 1338I

1/2" Whitworth & UNC Clamping Studs

Thread	Length	PN
1/2" x 13 UNC	3"	PN: 1343UI
1/2" x 12 BSW	4"	PN: 1344I
1/2" x 13 UNC	4"	PN: 1344UI
1/2" x 12 BSW	5"	PN: 1345I
1/2" x 13 UNC	5"	PN: 1345UI
1/2" x 12 BSW	6"	PN: 1346I
1/2" x 13 UNC	6"	PN: 1346UI
1/2" x 12 BSW	7"	PN: 1347I
1/2" x 13 UNC	7"	PN: 1347UI
1/2" x 12 BSW	8"	PN: 1348I
1/2" x 13 UNC	8"	PN: 1348UI

5/8" Whitworth Clamping Studs

Thread	Length	PN
5/8" x 11 BSW	3"	PN: 1353I
5/8" x 11 BSW	4"	PN: 1354I
5/8" x 11 BSW	5"	PN: 1355I
5/8" x 11 BSW	6"	PN: 1356I
5/8" x 11 BSW	7"	PN: 1357I
5/8" x 11 BSW	8"	PN: 1358I

7/8" Whitworth Clamping Studs

Thread	Length	PN
7/8" x 9	6"	PN: 1376I

Slot Table Channel Clamps

- Each set consists of four channel clamps
- Ideal for thin workpieces.
- Strong clamping force.
- Quick setting.
- Suitable for light duty cutting or milling and can be used on EDM Machines.



11.5 MM Channel Clamp

PN: CK3712

Table slot: 11.5 MM
Base width: 18 MM
Base height: 7 MM
Slot height: 16 MM
Length: 42 MM

15.5 MM Channel Clamp

PN: CK3716

Table slot: 15.5 MM
Base width: 25 MM
Base height: 10 MM
Slot height: 20 MM
Length: 45 MM

19.5 MM Channel Clamp

PN: CK3720

Table slot: 19.5 MM
Base width: 32 MM
Base height: 12 MM
Slot height: 26 MM
Length: 53 MM

13.5 MM Channel Clamp

PN: CK3714

Table slot: 13.5 MM
Base width: 22 MM
Base height: 8 MM
Slot height: 18 MM
Length: 42 MM

17.5 MM Channel Clamp

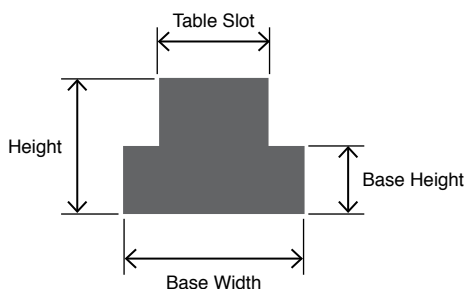
PN: CK3718

Table slot: 17.5 MM
Base width: 28 MM
Base height: 11 MM
Slot height: 24 MM
Length: 45 MM

T Slot Nuts



- Heated Treated Steel
- Black Oxide Finish
- HRC 34°



Metric Slot Table Studs

Table Slot	Base Width	Base Height	Height	Stud	PN
10 MM	16 MM	6 MM	12 MM	M8x1.25	CK08TNUT
12 MM	18 MM	7 MM	14 MM	M10x1.5	CK10TNUT
14 MM	22 MM	8 MM	16 MM	M12x1.75	CK12ATNUT
15.7 MM	25 MM	8 MM	16 MM	M12x1.75	CK12BTNUT
16 MM	25 MM	8 MM	16 MM	M14x2.0	CK14TNUT
18 MM	28 MM	11 MM	20 MM	M16 x 2.0P	CK16TNUT
20 MM	32 MM	12 MM	24 MM	M18 x 2.5P	CK18TNUT
22 MM	35 MM	14 MM	28 MM	M20 x 2.5P	CK20TNUT
28 MM	44 MM	18 MM	36 MM	M24 x 3P	CK24TNUT

Imperial Slot Table Studs

Table Slot	Base Width	Base Height	Height	Stud	PN
7/16"	11/16"	7/32"	1/2"	3/8" x 16"	CK103ATNUT
1/2"	7/8"	9/32"	1/2"	3/8"x16"	CK103BTNUT
9/16"	7/8"	11/32"	5/8"	1/2"x12"	CK104ATNUT-WIT
9/16"	7/8"	11/32"	5/8"	1/2"x13"	CK104ATNUT-UNC
5/8"	1"	11/32"	5/8"	1/2"x12"	CK104BTNUT-WIT
5/8"	1"	11/32"	5/8"	1/2" x 13"	CK104BTNUT-UNC
11/16"	1 1/8"	7/16"	3/4"	5/8"x11"	CK105ATNUT
3/4"	1 1/4"	15/32"	3/4"	5/8"x11"	CK105BTNUT
7/8"	1 1/2"	9/16"	1"	3/4"X10	CK206TNUT

Metric Flange Nuts

- Heated Treated Steel
- Black Oxide Finish
- HRC 34°



Metric Flange Nuts

Flange Dia.	Height	Hex Dia.	Thread	PN
19 MM	8 MM	13 MM	M8	CK08FNUT
22 MM	12 MM	17 MM	M10	CK10FNUT
28 MM	16 MM	21 MM	M12	CK12FNUT
28 MM	16 MM	21 MM	M14	CK14FNUT
35 MM	17 MM	26 MM	M16	CK16FNUT
41 MM	25 MM	32 MM	M18	CK18FNUT
44 MM	35 MM	32 MM	M20	CK20FNUT
50 MM	32 MM	41 MM	M24	CK24FNUT

Imperial Flange Nuts

Flange Dia.	Height	Hex Dia.	Thread	PN
7/8"	1/2"	11/16"	3/8"x16	CK103FNUT
1 1/8"	5/8"	1"	1/2"x12	CK104FNUT-WIT
1 1/8"	5/8"	1"	1/2"x13	CK104FNUT-UNC
1 3/8"	11/16	1 1/16"	5/8"x11	CK105FNUT
1 5/8"	1"	1 1/4"	3/4"x10	CK206FNUT

Metric Coupling Nuts



- Heated Treated Steel
- Black Oxide Finish
- HRC 34°

Metric Coupling Nuts

Thread	Length	Hex Dia.	PN
M8x1.25	22 MM	13 MM	2612M
M10x1.5	25 MM	17 MM	2613M
M12x1.75	32 MM	21 MM	2614M
M14x2.0	32 MM	21 MM	2614M-1
M16x2.0	41 MM	26 MM	2615M
M18x2.5	48 MM	32 MM	2616M
M20x2.5	48 MM	32 MM	2617M
M24x3	64 MM	41 MM	2618M

Imperial Coupling Nuts

Thread	Length	Hex Dia.	PN
3/8"x16	1"	11/16"	2612I
1/2x12 BSW	1-1/4"	7/8"	2613IWit
1/2x13 UNC	1-1/4"	7/8"	2614UNC
5/8"x11	1-5/8"	1-1/16"	2614I

Step Blocks

- Heated Treated Steel
- Black Oxide Finish
- HRC 37°



45x25 MM Step Block

PN: 5114

Width: 25 MM
Length: 19 MM
Height: 30 MM
Max height: 45 MM
(2 blocks joined vertically)
Tooth dimension: 3.2 x 1.8 MM

70x25 MM Step Block

PN: 5124

Width: 25 MM
Length: 30 MM
Height: 47 MM
Max height: 70 MM
(2 blocks joined vertically)
Tooth dimension: 3.2 x 1.8 MM

147x25 MM Step Block

PN: 5134

Width: 25 MM
Length: 59 MM
Height: 97 MM
Max height: 147 MM
(2 blocks joined vertically)
Tooth dimension: 3.2 x 1.8 MM

87x38 MM Step Block

PN: 5215

Width: 38 MM
Length: 39 MM
Height: 59 MM
Max height: 87 MM
(2 blocks joined vertically)
Tooth dimension: 3.2 x 1.8 MM

147x38 MM Step Block

PN: 5225

Width: 38 MM
Length: 61 MM
Height: 97 MM
Max height: 147 MM
(2 blocks joined vertically)
Tooth dimension: 3.2 x 1.8 MM

210x38 MM Step Block

PN: 5235

Width: 38 MM
Length: 86 MM
Height: 140 MM
Max height: 210 MM
(2 blocks joined vertically)
Tooth dimension: 3.2 x 1.8 MM

Step Clamps

- Heated Treated Steel
- Black Oxide Finish
- HRC 37°



64 MM M8/M10 Step Clamp

PN: 6113

Length: 64 MM
Width: 25 MM
Thickness: 12 MM
Slot width: 11 MM
Bolt size: M8 or M10
Tooth dimension: 3.2 x 1.8 MM

64 MM M12 Step Clamp

PN: 6214

Length: 64 MM
Width: 28 MM
Thickness: 12 MM
Slot width: 14 MM
Bolt size: M12
Tooth dimension: 3.2 x 1.8 MM

64 MM M16 Step Clamp

PN: 6215

Length: 64 MM
Width: 32 MM
Thickness: 16 MM
Slot width: 18 MM
Bolt size: M16
Tooth dimension: 3.2 x 1.8 MM

100 MM M18/M20 Step Clamp

PN: 6316

Length: 100 MM
Width: 38 MM
Thickness: 19 MM
Slot width: 20 MM
Bolt size: M18 or M20
Tooth dimension: 3.2 x 1.8 MM

150 MM M24 Step Clamp

PN: 6417

Length: 150 MM
Width: 50 MM
Thickness: 32 MM
Slot width: 26 MM
Bolt size: M24
Tooth dimension: 3.2 x 1.8 MM

100 MM M8/M10 Step Clamp

PN: 6123

Length: 100 MM
Width: 25 MM
Thickness: 16 MM
Slot width: 11 MM
Bolt size: M8 or M10
Tooth dimension: 3.2 x 1.8 MM

100 MM M12 Step Clamp

PN: 6224

Length: 100 MM
Width: 32 MM
Thickness: 19 MM
Slot width: 14 MM
Bolt size: M12
Tooth dimension: 3.2 x 1.8 MM

100 MM M16 Step Clamp

PN: 6225

Length: 100 MM
Width: 38 MM
Thickness: 19 MM
Slot width: 18 MM
Bolt size: M16
Tooth dimension: 3.2 x 1.8 MM

150 MM M18/M20 Step Clamp

PN: 6326

Length: 150 MM
Width: 38 MM
Thickness: 25 MM
Slot width: 20 MM
Bolt size: M18 or M20
Tooth dimension: 3.2 x 1.8 MM

200 MM M18/M20 Step Clamp

PN: 6427

Length: 200 MM
Width: 50 MM
Thickness: 35 MM
Slot width: 26 MM
Bolt size: M24
Tooth dimension: 3.2 x 1.8 MM

150 MM M8/M10 Step Clamp

PN: 6133

Length: 150 MM
Width: 28 MM
Thickness: 19 MM
Slot width: 11 MM
Bolt size: M8 or M10
Tooth dimension: 3.2 x 1.8 MM

150 MM M12 Step Clamp

PN: 6234

Length: 150 MM
Width: 32 MM
Thickness: 22 MM
Slot width: 14 MM
Bolt size: M12
Tooth dimension: 3.2 x 1.8 MM

150 MM M16 Step Clamp

PN: 6235

Length: 150 MM
Width: 38 MM
Thickness: 22 MM
Slot width: 18 MM
Bolt size: M16
Tooth dimension: 3.2 x 1.8 MM

200 MM M24 Step Clamp

PN: 6336

Length: 200 MM
Width: 44 MM
Thickness: 28 MM
Slot width: 20 MM
Bolt size: M18 or M20
Tooth dimension: 3.2 x 1.8 MM

250 MM M24 Step Clamp

PN: 6437

Length: 250 MM
Width: 50 MM
Thickness: 38 MM
Slot width: 26 MM
Bolt size: M24
Tooth dimension: 3.2 x 1.8 MM

Milling Machine Accessories

Milling Table Slot Covers

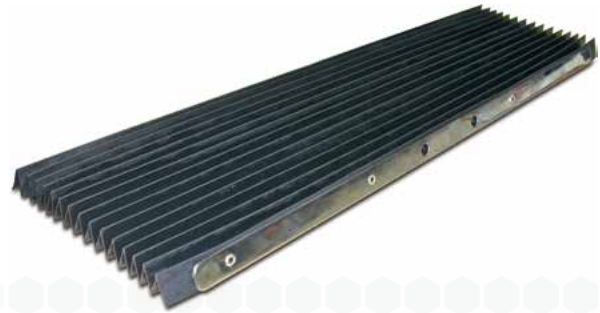
Slot Width	Length.	PN
16 MM	400 MM	PN: VST16
18 MM	450 MM	PN: VST18
20 MM	1000 MM	PN: VST20
22 MM	1000 MM	PN: VST22

- Prevents chips from interfering with coolant flow
- Made from light-weight anodized aluminum
- Save time cleaning chips from machine
- Protects table slots



Expandable Machine Guard Covers

Width	Length.	PN
380 MM	330 MM	PN: VGC3833F
380 MM	600 MM	PN: VGC4550F
450 MM	500 MM	PN: VGC3860F
370 MM	750 MM	PN: VGC3775B
450 MM	850 MM	PN: VGC4585B



ER Collet Sets

- Precision ground with precise heat treatment
- Made from special steel with specific elastic properties
- Manufactured to a higher standard than DIN 6343 which produces high levels of accuracy, durability and clamping power



ER11 Collet Set of 7

PN: V11000

Range: 0.5-7 MM
Diameter: 11.5 MM
Height: 18 MM

ER25 Collet Set of 15

PN: V25000

Range: 1-16 MM
Diameter: 26 MM
Height: 35 MM

ER50 Collet Set of 12

PN: V50000

Range: 10-34 MM
Diameter: 52 MM
Height: 60 MM

ER16 Collet Set of 10

PN: V16000

Range: 0.5-10 MM
Diameter: 17 MM
Height: 27 MM

ER32 Collet Set of 18

PN: V32000

Range: 2-20 MM
Diameter: 33 MM
Height: 40 MM

ER20 Collet Set of 12

PN: V20000

Range: 1-13 MM
Diameter: 21 MM
Height: 31 MM

ER40 Collet Set of 23

PN: V40000

Range: 3-26 MM
Diameter: 41 MM
Height: 46 MM

ER Collets

- Manufactured to a higher standard than DIN 6343 which produces high levels of accuracy, durability and clamping power
- Precision ground with precise heat treatment
- Made from special steel with specific elastic properties



ER11 Collets

Diameter: 11.5 MM
Height: 18 MM

Range	PN
1.0-0.5 MM	V11010
1.5-1.0 MM	V11015
2.0-1.5 MM	V11020
2.5-2.0 MM	V11025
3.0-2.5 MM	V11030
3.5-3.0 MM	V11035
4.0-3.5 MM	V11040
4.5-4.0 MM	V11045
5.0-4.5 MM	V11050
5.5-5.0 MM	V11055
6.0-5.5 MM	V11060
6.5-6.0 MM	V11065
7.0-6.5 MM	V11070

ER16 Collets

Diameter: 17 MM
Height: 27 MM

Range	PN
1-0.5 MM	V16010
2-1 MM	V16020
3-2 MM	V16030
3.5 MM	V16035
4-3 MM	V16040
5-4 MM	V16050
6-5 MM	V16060
6.5 MM	V16065
7-6 MM	V16070
8-7 MM	V16080
9-8 MM	V16090
10-9 MM	V16100

ER20 Collets

Diameter: 21 MM
Height: 31 MM

Range	PN
2-1 MM	V20020
3-2 MM	V20030
4-3 MM	V20040
5-4 MM	V20050
6-5 MM	V20060
7-6 MM	V20070
8-7 MM	V20080
9-8 MM	V20090
10-9 MM	V20100
11-10 MM	V20110
12-11 MM	V20120
13-12 MM	V20130

ER25 Collets

Diameter: 26 MM
Height: 35 MM

Range	PN
2-1 MM	V25020
3-2 MM	V25030
4-3 MM	V25040
5-4 MM	V25050
6-5 MM	V25060
7-6 MM	V25070
8-7 MM	V25080
9-8 MM	V25090
10-9 MM	V25100
11-10 MM	V25110
12-11 MM	V25120
13-12 MM	V25130
14-13 MM	V25140
15-14 MM	V25150
16-15 MM	V25160

ER32 Collets

Diameter: 33 MM
Height: 40 MM

Range	PN
3-2 MM	V32030
4-3 MM	V32040
5-4 MM	V32050
6-5 MM	V32060
7-6 MM	V32070
8-7 MM	V32080
9-8 MM	V32090
10-9 MM	V32100
11-10 MM	V32110
12-11 MM	V32120
13-12 MM	V32130
14-13 MM	V32140
15-14 MM	V32150
16-15 MM	V32160
17-16 MM	V32170
18-17 MM	V32180
19-18 MM	V32190
20-19 MM	V32200

ER40 Collets

Diameter: 41 MM
Height: 46 MM

Range	PN
4-3 MM	V40040
5-4 MM	V40050
6-5 MM	V40060
7-6 MM	V40070
8-7 MM	V40080
9-8 MM	V40090
10-9 MM	V40100
11-10 MM	V40110
12-11 MM	V40120
13-12 MM	V40130
14-13 MM	V40140
15-14 MM	V40150
16-15 MM	V40160
17-16 MM	V40170
18-17 MM	V40180
19-18 MM	V40190
20-19 MM	V40200
21-20 MM	V40210
22-21 MM	V40220
23-22 MM	V40230
24-23 MM	V40240
25-24 MM	V40250
26-25 MM	V40260

ER50 Collets

Diameter: 52 MM
Height: 60 MM

Range	PN
12-10 MM	V50120
14-12 MM	V50140
16-14 MM	V50160
18-16 MM	V50180
20-18 MM	V50200
22-20 MM	V50220
24-22 MM	V50240
26-24 MM	V50260
28-26 MM	V50280
30-28 MM	V50300
32-30 MM	V50320
34-32 MM	V50340

ER Coolant Proof Collets



- Precision ground with precise heat treatment
- Made from special steel with specific elastic properties
- Manufactured to a higher standard than DIN 6343 which produces high levels of accuracy, durability and clamping power

ER16 Coolant Proof Collets

Diameter: 17 MM
Height: 27 MM

Range	PN
4-3 MM	V16040L
5-4 MM	V16050L
6-5 MM	V16060L
7-6 MM	V16070L
8-7 MM	V16080L
9-8 MM	V16090L
10-9 MM	V16100L

ER20 Coolant Proof Collets

Diameter: 21 MM
Height: 31 MM

Range	PN
4-3 MM	V20040L
5-4 MM	V20050L
6-5 MM	V20060L
7-6 MM	V20070L
8-7 MM	V20080L
9-8 MM	V20090L
10-9 MM	V20100L
11-10 MM	V20110L
12-11 MM	V20120L
13-12 MM	V20130L

ER25 Coolant Proof Collets

Diameter: 26 MM
Height: 35 MM

Range	PN
4-3 MM	V25040L
5-4 MM	V25050L
6-5 MM	V25060L
7-6 MM	V25070L
8-7 MM	V25080L
9-8 MM	V25090L
10-9 MM	V25100L
11-10 MM	V25110L
12-11 MM	V25120L
13-12 MM	V25130L
14-13 MM	V25140L
15-14 MM	V25150L
16-15 MM	V25160L

ER32 Coolant Proof Collets

Diameter: 33 MM
Height: 40 MM

Range	PN
4-3 MM	V32040L
5-4 MM	V32050L
6-5 MM	V32060L
7-6 MM	V32070L
8-7 MM	V32080L
9-8 MM	V32090L
10-9 MM	V32100L
11-10 MM	V32110L
12-11 MM	V32120L
13-12 MM	V32130L
14-13 MM	V32140L
15-14 MM	V32150L
16-15 MM	V32160L
17-16 MM	V32170L
18-17 MM	V32180L
19-18 MM	V32190L
20-19 MM	V32200L

ER40 Coolant Proof Collets

Diameter: 33 MM
Height: 40 MM

Range	PN
4-3 MM	V40040L
5-4 MM	V40050L
6-5 MM	V40060L
7-6 MM	V40070L
8-7 MM	V40080L
9-8 MM	V40090L
10-9 MM	V40100L
11-10 MM	V40110L
12-11 MM	V40120L
13-12 MM	V40130L
14-13 MM	V40140L
15-14 MM	V40150L
16-15 MM	V40160L
17-16 MM	V40170L
18-17 MM	V40180L
19-18 MM	V40190L
20-19 MM	V40200L
21-20 MM	V40210L
22-21 MM	V40220L
23-22 MM	V40230L
24-23 MM	V40240L
25-24 MM	V40250L
26-25 MM	V40260L

ER Collet Trays

ER16 Collet Tray

• Made from timber

10 Pce. Collet Tray ER16 PN: V16TRAY

12 Pce. Collet Tray ER20 PN: V20TRAY

15 Pce. Collet Tray ER25 PN: V25TRAY

18 Pce. Collet Tray ER32 PN: V32TRAY

23 Pce. Collet Tray ER40 PN: V40TRAY



Collet Chucks

R8 ER32 Collet Chuck

PN: V302

Individual R8 Taper collet chuck
Hardened and ground

Taper: R8
Spindle Thread: 7/16"x20
Collet: ER32



Morse Taper Collet Chucks

Individual Morse Taper collet chuck
Hardened and ground



MT3 Collet Chucks

Spindle Thread	Collet	PN
M12	ER32	V405M
M12	ER40	V406M
1/2"x12 BSW	ER32	V405I
1/2"x12 BSW	ER40	V406I

MT4 Collet Chucks

Spindle Thread	Collet	PN
M16	ER32	V407M
M16	ER40	V408M
5/8"x11 BSW	ER32	V407I
5/8"x11 BSW	ER40	V408I

MT5 Collet Chucks

Spindle Thread	Collet	PN
M24	ER40	V410M
M24	ER50	V411M

Collet Chucks

NT Collet Chucks

Individual National Taper collet chuck
Hardened and ground



NT30 Collet Chucks

Spindle Thread	Collet	PN
M12	ER32	V101M
M12	ER40	V102M
1/2"x12 BSW	ER32	V101I
1/2"x12 BSW	ER40	V102I

NT40 Collet Chucks

Spindle Thread	Collet	PN
M16	ER16	V232M
M16	ER32	V103M
M16	ER40	V104M
M16	ER50	V105M
5/8"x11 BSW	ER32	V103I
5/8"x11 BSW	ER40	V104I
5/8"x11 BSW	ER50	V105I

NT50 Collet Chucks

Spindle Thread	Collet	PN
M24	ER32	V106M
M24	ER40	V107M
M24	ER50	V108M
1"x8 BSW	ER32	V106I
1"x8 BSW	ER40	V107I
1"x 8 BSW	ER50	V108I

Straight Shank Collet Chucks

Individual Straight Shank collet chuck
Hardened and ground



Straight Shank ER11 Collet Chucks

Shank	Collet	PN
16 x 100 MM	ER11	V531
Mini 16 x 100 MM	ER11	V552
Mini 16 x 150 MM	ER11	V552A

Straight Shank ER16 Collet Chucks

Shank	Collet	PN
20 x 50 MM	ER16	V501
Mini 20 x 100 MM	ER16	V554
20 x 100 MM	ER16	V502
20 x 150 MM	ER16	V503
25 x 100 MM	ER16	V504
25 x 150 MM	ER16	V505
Mini 25 x 100 MM	ER16	V562

Straight Shank ER20 Collet Chucks

Shank	Collet	PN
20 x 50 MM	ER20	V506
20 x 100 MM	ER20	V507
20 x 150 MM	ER20	V508
25 x 150 MM	ER20	V509
25 x 100 MM	ER20	V509A
Mini 20 x 100 MM	ER20	V557
Mini 25 x 100 MM	ER20	V559

Straight Shank ER25 Collet Chucks

Shank	Collet	PN
20 x 50 MM	ER25	V510
20 x 100 MM	ER25	V511
25 x 100 MM	ER25	V513
32 x 60 MM	ER25	V515

Straight Shank ER32 Collet Chucks

Shank	Collet	PN
25 x 80 MM	ER32	V516
32 x 100 MM	ER32	V517
40 x 100 MM	ER32	V518

Straight Shank ER40 Collet Chucks

Shank	Collet	PN
32 x 100 MM	ER40	V523
40 x 100 MM	ER40	V524

ER Tapping Chucks

ER Straight Shank Tapping Chucks

- Tension and compression tap holder
- ER collet system for accurate tapping
- Adjustable location plates for holding the tap square
- Square shank of tap is secured by grub screws
- Hardened and Ground



Shank	Collet	Compression Range	Capacity	PN
20x80 MM	ER16	6 MM	M3-M8	VET102
20x80 MM	ER20	6 MM	M3-M16	VET202
25x80 MM	ER20	6 MM	M3-M16	VET252
32x100 MM	ER32	6 MM	M3-M25	VET303

BT Tapping Holders

- Tension and compression tap holder
- ER collet system for accurate tapping
- Adjustable location plates for holding the tap square
- Square shank of tap is secured by grub screws
- Hardened and Ground



Shank	Collet	Compression Range	Capacity	PN
BT40	ER32	6 MM	M3-M25	VET273
BT50	ER32	6 MM	M3-M25	VET274

Chuck & ER Collet Sets

Morse Taper Collet Chuck Sets

Collet chuck set complete with a MT collet chuck, collets and spanner in a blow mold case. Collet chucks are made to DIN2080 standard and the collet made to DIN6499.



MT3 Collet Chuck Sets

Spindle Thread	Collet	Range	PN
M12	ER32	3-20 MM (18 Collets)	V421M
M12	ER32	6, 8, 10, 12, 16 & 20 MM	V423M
M12	ER40	4-26 MM (23 Collets)	V424M
M12	ER40	6, 8, 10, 12, 16, 20 & 25 MM	V426M
1/2"x12 BSW	ER32	3-20 MM (18 Collets)	V421I
1/2"x12 BSW	ER32	6, 8, 10, 12, 16 & 20 MM	V423I
1/2"x12 BSW	ER40	4-26 MM (23 Collets)	V424I
1/2"x12 BSW	ER40	6, 8, 10, 12, 16, 20 & 25 MM	V426I

MT4 Collet Chuck Sets

Spindle Thread	Collet	Range	PN
M16	ER32	6, 8, 10, 12, 16 & 20 MM	V429M
M16	ER40	6, 8, 10, 12, 16, 20 & 25 MM	V432M
5/8"x11	ER40	6, 8, 10, 12, 16, 20 & 25 MM	V432I

Chuck & ER Collet Sets

NT Collet Chuck Sets

Collet chuck set complete with National taper collet chuck, collets and spanner in a blow mold case. Collet chucks are made to DIN2080 standard and the collet made to DIN6499.



NT30 Collet Chuck Sets

Spindle Thread	Collet	Range	PN
M12	ER32	3-20 MM (18 Collets)	V201M
M12	ER32	6, 8, 10, 12, 16 & 20 MM	V203M
M12	ER40	4-26 MM (23 Collets)	V204M
M12	ER40	6, 8, 10, 12, 16, 20 & 25 MM	V206M
1/2"x12 BSW	ER32	3-20 MM (18 Collets)	V201I
1/2"x12 BSW	ER32	6, 8, 10, 12, 16 & 20 MM	V203I
1/2"x12 BSW	ER40	4-26 MM (23 Collets)	V204I
1/2"x12 BSW	ER40	6, 8, 10, 12, 16, 20 & 25 MM	V206I

NT40 Collet Chuck Sets

Spindle Thread	Collet	Range	PN
M16	ER32	3-20 MM (18 Collets)	V207M
M16	ER32	6, 8, 10, 12, 16 & 20 MM	V209M
M16	ER40	4-26 MM (23 Collets)	V210M
M16	ER40	6, 8, 10, 12, 16, 20 & 25 MM	V212M
M24	ER50	10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30 & 32 MM	V213M
5/8"x11 BSW	ER32	3-20 MM (18 Collets)	V207I
5/8"x11 BSW	ER32	6, 8, 10, 12, 16 & 20 MM	V209I
5/8"x11 BSW	ER40	4-26 MM (23 Collets)	V210I
5/8"x11 BSW	ER40	6, 8, 10, 12, 16, 20 & 25 MM	V212I
5/8"x11 BSW	ER50	10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30 & 32 MM	V213I

NT50 Collet Chuck Sets

Spindle Thread	Collet	Range	PN
M24	ER32	6, 8, 10, 12, 16 & 20 MM	V216M
M24	ER40	4-26 MM (23 Collets)	V217M
M24	ER40	6, 8, 10, 12, 16, 20 & 25 MM	V219M
1"x8 BSW	ER32	6, 8, 10, 12, 16 & 20 MM	V216I
1"x8 BSW	ER40	4-26 MM (23 Collets)	V217I
1"x8 BSW	ER40	6, 8, 10, 12, 16, 20 & 25 MM	V219I

R8 Collet Chuck Sets

Collet chuck set complete with an R8 collet chuck, collets and spanner in a blow mold case. Collet chucks are made to DIN2080 standard and the collet made to DIN6499.



R8 Collet Chuck Sets

Spindle Thread	Collet	Range	PN
7/16"x20 UNF	ER32	3-20 MM (18 Collets)	V313
7/16"x20 UNF	ER32	6, 8, 10, 12, 16 & 20 MM	V315
7/16"x20 UNF	ER40	4-26 MM (23 Collets)	V316

Straight Shank ER16 Collet Chuck Sets

Collet chuck set complete with a Straight shank collet chuck, collets and spanner in a blow mold case. Collet chucks are made to DIN2080 standard and the collet made to DIN6499.



Straight Shank Collet Chuck Sets

Shank	Collet	Range	PN
20x100 MM	ER16	1-10 MM (10 Collets)	V603
Mini 20x100 MM	ER16	1-10 MM (10 Collets)	V694A

ER Collet Chuck Clamping Nuts



ER Collet Chuck Clamping Nuts

Clamping Nut Type	Collet	Spindle Thread	PN
MS Mini Slot	ER11	M13x0.75P	V807
M Style Mini Castellated	ER11	M13x0.75P	V810C
M Style Mini Castellated	ER16	M19x1.0P	V808
M Style Mini Castellated	ER20	M24x1.0P	V809
M Style Mini Castellated	ER25	M30x1.0P	V810E
UM Style Hex	ER11	M14x0.75P	V800
UM Style Hex	ER16	M22x1.5P	V801
UM Style Hex	ER20	M25x1.5P	V802
UM Castellated	ER25	M32x1.5P	V803
UM Castellated	ER32	M40x1.5P	V804
UM Castellated	ER40	M50x1.5P	V805
KM Castellated Ball Bearing	ER40	M50x1.5P	V810A
UM Castellated	ER50	M64x2.0P	V806

ER Collet Chuck Spanners

Collet Chuck Spanners

• Cast Steel with painted black finish

Spanner type	Collet	PN
MS Mini Slot	ER11	V821
M Style Mini Castellated	ER11	V822
M Style Mini Castellated	ER16	V823
M Style Mini Castellated	ER20	V824
M Style Mini Castellated	ER25	V818
UM Castellated	ER11	V820
UM Castellated	ER16	V815
UM Castellated	ER20	V816
UM Castellated	ER25	V811
UM Castellated	ER32	V812
UM Castellated	ER40	V813
UM Castellated	ER50	V814



ER Collet Chucks

BT Chucks (ER Style)

- Maximum speed: 7000 RPM
- Hardened & ground
- Runout: 0.005 mm
- MAS403



Taper	Collet	Gauge length	Max. speed	PN
BT40	ER16	70 mm	7000 RPM	V772
BT40	ER16	100 mm	7000 RPM	V773
BT40	ER25	70 mm	7000 RPM	V725
BT40	ER25	100 mm	7000 RPM	V726
BT40	ER32	70 mm	7000 RPM	V703A
BT40	ER32	100 mm	7000 RPM	V703B
BT40	ER40	80 mm	7000 RPM	V704
BT40	ER40	100 mm	7000 RPM	V704B
BT40	ER50	90 mm	7000 RPM	V727
BT50	ER32	100 mm	7000 RPM	V705
BT50	ER40	100 mm	7000 RPM	V706

BT Morse Taper Adaptors

BT Sleeves

- MAS403
- Hardened & Ground



BT40 Morse Taper Adaptors

Input Taper	Output Taper	Gauge length	PN
BT40	MT1	50 mm	BT209
BT40	MT2	50 mm	BT212
BT40	MT3	75 mm	BT215
BT40	MT4	95 mm	BT218

BT50 Morse Taper Adaptors

Input Taper	Output Taper	Gauge length	PN
BT50	MT1	45 mm	BT220
BT50	MT2	50 mm	BT223
BT50	MT3	65 mm	BT226
BT50	MT4	75 mm	BT229
BT50	MT5	105 mm	BT231

BT Jacobs Taper Adaptors

- MAS403
- Hardened and Ground



Input	Output	Gauge length	PN
BT40	JT6	45 mm	BT315
BT50	JT6	45 mm	BT325

BT Side-lock End Mill Holders

Side Lock BT40 Chucks

- Weldon style MAS403
- Two grub screws for positive tool location
- Hardened & ground



BT40 Chucks

Taper	Bore	Gauge length	PN
BT40	6 MM	75 MM	BT442
BT40	8 MM	75 MM	BT443
BT40	10 MM	75 MM	BT444
BT40	12 MM	75 MM	BT445
BT40	16 MM	75 MM	BT447
BT40	18 MM	75 MM	BT448
BT40	20 MM	90 MM	BT449
BT40	25 MM	90 MM	BT450
BT40	32 MM	90 MM	BT451
BT40	40 MM	105 MM	BT452

BT50 Chucks

Taper	Bore	Gauge length	PN
BT50	6 MM	90 MM	BT454
BT50	8 MM	90 MM	BT456
BT50	10 MM	90 MM	BT458
BT50	12 MM	90 MM	BT460
BT50	16 MM	90 MM	BT463
BT50	20 MM	105 MM	BT466
BT50	25 MM	105 MM	BT470
BT50	32 MM	105 MM	BT474
BT50	40 MM	120 MM	BT478

BT Face Mill Arbors

- Hardened & Ground
- MAS403



BT40 Face Mill Arbors

Taper	Mount	Gauge length	PN
BT40	22 MM	45 MM	BT152
BT40	16 MM	45 MM	BT152-16
BT40	22 MM	90 MM	BT153
BT40	27 MM	45 MM	BT154
BT40	27 MM	90 MM	BT155
BT40	32 MM	45 MM	BT156
BT40	40 MM	60 MM	BT157

BT50 Face Mill Arbors

Taper	Mount	Gauge length	PN
BT50	22 MM	45 MM	BT158
BT50	22 MM	75 MM	BT159
BT50	27 MM	45 MM	BT160
BT50	27 MM	75 MM	BT161
BT50	27 MM	105 MM	BT162
BT50	32 MM	75 MM	BT163
BT50	32 MM	105 MM	BT164
BT50	32 MM	150 MM	BT165
BT50	40 MM	75 MM	BT166

BT Pull Studs

BT Pull Studs

Taper	Angle	PN
BT40	45°	BT503
BT40	60°	BT504
BT40	90°	BT511

Taper	Angle	PN
BT50	45°	BT505
BT50	60°	BT506
BT50	90°	BT512



BT Through coolant Pull Studs

Taper	Angle	Type	PN
BT40	45°	Various	BT516
BT40	60°	Various	BT517
BT50	45°	Various	BT519
BT50	60°	Various	BT520
BT50	15°	ISO50A	BT530
BT40	45°	ISO B JIS7388/2/B-1984B	BT531
BT50	45°	ISO B JIS7388/2/B-1984B	BT532
BT40	45°	MAZAK	BT534
BT50	45°	MAZAK	BT533
BT40	30°	OKUMA JIS6339B-40P, 7 MM hole	BT550
BT40	30°	OKUMA JIS6339B-40P, 4 MM hole	BTG11

OZ25 Collets

- DIN 6388 Type A
- Tool steel hardened and ground
- Accuracy: 0.02 mm per 25 mm



Metric OZ25 Collets

Collet Size	PN
3 MM	VOZ2503
4 MM	VOZ2504
5 MM	VOZ2505
6 MM	VOZ2506
7 MM	VOZ2507
8 MM	VOZ2508
9 MM	VOZ2509
10 MM	VOZ2510
11 MM	VOZ2511
12 MM	VOZ2512
13 MM	VOZ2513
14 MM	VOZ2514

Collet Size	PN
15 MM	VOZ2515
16 MM	VOZ2516
17 MM	VOZ2517
18 MM	VOZ2518
19 MM	VOZ2519
20 MM	VOZ2520
21 MM	VOZ2521
22 MM	VOZ2522
23 MM	VOZ2523
24 MM	VOZ2524
25 MM	VOZ2525

Imperial OZ25 Collets

Collet Size	PN
1/8"	VOZ2526
3/16"	VOZ2527
1/4"	VOZ2528
5/16"	VOZ2529
3/8"	VOZ2530
7/16"	VOZ2531
1/2"	VOZ2532
9/16"	VOZ2533
5/8"	VOZ2534
11/16"	VOZ2535
3/4"	VOZ2536
13/16"	VOZ2537
7/8"	VOZ2538
15/16"	VOZ2539
1"	VOZ2540

OZ25 Collet Chuck Spanners & Clamping Nuts

OZ-25 Wrench

PN: VOZ25W

- DIN 6388 Type A
- Cast Steel with painted black finish

OZ25 Spanner



OZ-25 Clamping Nut

PN: VOZ25N

UM Castellated Ball Bearing style



NT & R8 Milling Sleeves

NT Milling Sleeves

- DIN2080 / ISO shank
- Hardened and ground



Taper	Drawbar Thread	Sleeve	Gauge length	PN
NT30	M12	MT2	50 MM	V1102M
NT30	M12	MT3	65 MM	V1103M
NT40	M16	MT1	30 MM	V1104M
NT40	M16	MT2	30 MM	V1105M
NT40	M16	MT3	70 MM	V1106M
NT40	M16	MT4	90 MM	V1107M
NT50	M24	MT2	30 MM	V1108M
NT50	M24	MT3	30 MM	V1109M
NT50	M24	MT4	45 MM	V1110M
NT50	M24	MT5	105 MM	V1111M
R8	7/16"x20	MT2		VQ122
R8	7/16"x20	MT3		VQ123

Milling Adaptors

NT & R8 to JT6 Milling Adaptors

- Hardened & ground



NT Milling Adaptors

NT40 to NT30 PN: MSNT40X30

NT50 to NT40 PN: MSNT50X40

- Reducing arbor
- Hardened & ground



Taper	Drawbar Thread	Chuck Mount	PN
NT30	½"x12	JT6	VJ103I
NT30	M12	JT6	VJ103M
NT40	5/8"x11	JT6	VJ106I
NT40	M16	JT6	VJ106M
NT50	1"x8	JT6	VJ109I
NT50	M24	JT6	VJ109M
R8	7/16"x20 UNF	JT6	VJ123

Face Mill Arbors

Morse Taper Face Mill Arbors

- Hardness: HRC50-55
- Material: SCM-21
- Squareness of mounting surface: 0.005 mm
- Deflection in shaft and taper: 0.005 mm



R8 Face Mill Arbors

- Hardness: HRC50-55
- Material: SCM-21
- Squareness of mounting surface: 0.005 mm
- Deflection in shaft and taper: 0.005 mm



Taper	Drawbar Thread	Mount Dia.	PN
MT3	1/2x12	22 mm	VF136B
MT3	1/2x12	27 mm	VF136
MT3	1/2x12	32 mm	VF136A
MT3	M12	27 mm	VF136M
MT3	M12	32 mm	VF136AM
MT4	5/8x11	27 mm	VF137
MT4	5/8x11	32 mm	VF138
MT4	M16	27 mm	VF137M

Taper	Drawbar Thread	Mount Dia.	PN
R8	7/16"x20	22 mm	VF134
R8	7/16"x20	27 mm	VF135
R8	7/16"x20	32 mm	VF135A

NT Face Mill Arbors

- Hardness: HRC50-55
- Material: SCM-21
- Squareness of mounting surface: 0.005 mm
- Deflection in shaft and taper: 0.005 mm

Taper	Drawbar Thread	Mount Dia.	PN
NT30	M12	22 mm	VF120M
NT30	M12	27 mm	VF121M
NT30	M12	32 mm	VF122M
NT40	M16	22 mm	VF123M
NT40	M16	27 mm	VF124M
NT40	M16	32 mm	VF125M
NT40	M16	40 mm	VF126M
NT50	M24	22 mm	VF128M
NT50	M24	27 mm	VF129M
NT50	M24	32 mm	VF130M
NT50	M24	40 mm	VF131M



45 Degree Milling Cutters

50 MM Milling Cutter with 45° Cutting Angle

PN: MAR50A04

- High speed face milling cutter
- 45 degree
- Hardness: HRC42
- Insert: SEKT1204

Cutter diameter: 50 MM

Bore: 22 MM

Inserts: 4



63 MM Milling Cutter with 45° Cutting Angle

PN: MAR63A05

- High speed face milling cutter
- 45 degree
- Hardness: HRC42
- Insert: SEKT1204

Cutter diameter: 63 MM

Bore: 22 MM

Inserts: 5



80 MM Milling Cutter with 45° Cutting Angle

PN: MAR80B06

- High speed face milling cutter
- 45 degree
- Hardness: HRC42
- Insert: SEKT1204

Cutter diameter: 80 MM

Bore: 27 MM

Inserts: 6



100 MM Milling Cutter with 45° Cutting Angle

PN: MAR100B06

- High speed face milling cutter
- 45 degree
- Hardness: HRC42
- Insert: SEKT1204

Cutter diameter: 100 MM

Bore: 32 MM

Inserts: 6



90 Degree Milling Cutters

50 MM Face Mill with 90° Cutting Angle

PN: MS50T

- Shell End Mill
- Positive axial rake

Cutter diameter: 50 MM
Bore: 22 MM
Cutting Angle: 90°
Insert: TPUN1603
Insert Seats: 3



63 MM Face Mill with 90° Cutting Angle

PN: MS63TX27

- Shell End Mill
- Positive axial rake

Cutter diameter: 63 MM
Bore: 27 MM
Cutting Angle: 90°
Insert Seats: 4
Insert: TPUN1603



75 MM Face Mill with 90° Cutting Angle

PN: MS75TX27

- Shell End Mill
- Positive axial rake

Cutter diameter: 75 MM
Bore: 27 MM
Cutting Angle: 90°
Insert: TPUN1603
Insert Seats: 5



100 MM Face Mill with 90° Cutting Angle

PN: MS100TX32

- Shell End Mill
- Positive axial rake

Cutter diameter: 100 MM
Bore: 32 MM
Cutting Angle: 90°
Insert: TPUN1603
Insert Seats: 6



Integrated Keyless Drill Chucks

BT Integrated Keyless Chucks

- One piece main shaft
- Superior rigidity and accuracy
- Higher safety margins
- Comes complete with chuck key



MT Integrated Keyless Chucks

- One piece main shaft
- Superior rigidity and accuracy
- Higher safety margins
- Comes complete with chuck key



Taper	Capacity	Accuracy	PN
BT40	0-13 MM	0.05 MM at 25 MM	VINT13BT40
BT50	0-13 MM	0.05 MM at 25 MM	VINT13BT50
BT40	3-16 MM	0.05 MM at 25 MM	VINT16BT40
BT50	3-16 MM	0.05 MM at 25 MM	VINT16BT50

Taper	Capacity	Accuracy	PN
MT3 (Tang)	0-13 MM	0.05 MM at 25 MM	VINT13MT3
MT4 (Tang)	0-13 MM	0.05 MM at 25 MM	VINT13MT4
MT3 (Tang)	3-16 MM	0.05 MM at 25 MM	VINT16MT3
MT4 (Tang)	3-16 MM	0.05 MM at 25 MM	VINT16MT4

Integrated Keyless Drill Chucks

NT Integrated Keyless Chucks

- One piece main shaft
- Superior rigidity and accuracy
- Higher safety margins
- Comes complete with chuck key



Taper	Drawbar Thread	Capacity	Accuracy	PN
NT30	1/2"x12	0-13 MM	0.05 MM at 25 MM	VINT13NT30I
NT30	M12	0-13 MM	0.05 MM at 25 MM	VINT13NT30M
NT40	5/8"x11	0-13 MM	0.05 MM at 25 MM	VINT13NT40I
NT40	M16	0-13 MM	0.05 MM at 25 MM	VINT13NT40M
NT50	M24	0-13 MM	0.05 MM at 25 MM	VINT13NT50M
NT40	5/8"x11	3-16 MM	0.05 MM at 25 MM	VINT16NT40I
NT40	M16	3-16 MM	0.05 MM at 25 MM	VINT16NT40M

R8 Integrated Keyless Chucks

- One piece main shaft
- Superior rigidity and accuracy
- Higher safety margins
- Comes complete with chuck key

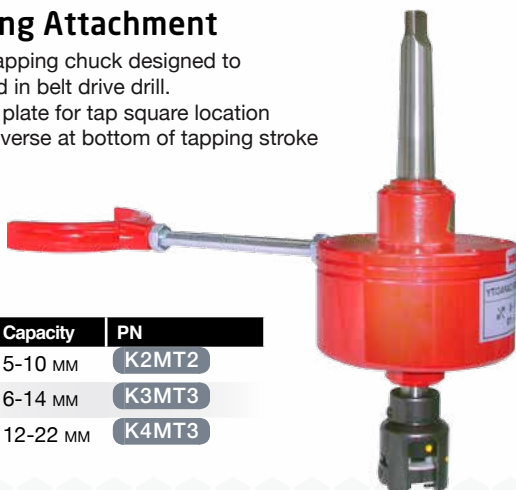


Taper	Drawbar Thread	Capacity	Accuracy	PN
R8	7/16x20	0-13 MM	0.05 MM at 25 MM	VINT13R8
R8	7/16x20	3-16 MM	0.05 MM at 25 MM	VINT16R8

Reversible Tapping Attachments & Collets

Direct Drive Reversible MT Tapping Attachment

- Rigid tapping chuck designed to be used in belt drive drill.
- Sliding plate for tap square location
- Auto reverse at bottom of tapping stroke



Taper	Capacity	PN
MT2	5-10 MM	K2MT2
MT3	6-14 MM	K3MT3
MT3	12-22 MM	K4MT3

Clutch Driven Reversible Tapping Attachment

- Reversible tapping attachment with radial float.
- Unique double spring mechanism for automatic feed.
- Automatic reversing. Rubber collets for tap shank alignment.
- Arbors to suit on page 190.
- Four torque control settings for clutch adjustment
- Adjustable tap square locator



Capacity	Mount	Max speed	PN
M3-M12	JT6	1000 RPM	VTA12JT6
M8-M20	M20	600 RPM	VTA20M20

Rubber Flex Collets to suit VTA12JT6

- 4-7 MM Capacity PN: VFC20
- 7-10 MM Capacity PN: VFC21

Rubber Flex Collets to suit VTA20M20

- 5.36-9 MM Capacity PN: VFC30
- 10.38-14 MM Capacity PN: VFC31



VBC Boring Heads

50 MM Boring Head

PN: VBC2M

Boring Head diameter: 50 MM
Boring Bar hole size: 12 MM
Maximum offset: 15 MM
Dial Graduation: 0.01 MM
(for 0.02 MM on diameter)
Mount: 1 1/2"x18



75 MM Boring Head

PN: VBC3M

Boring Head diameter: 75 MM
Boring Bar hole size: 18 MM
Maximum offset: 23 MM
Dial Graduation: 0.01 MM
(for 0.02 MM on diameter)
Mount: 1 1/2"x18



100 MM Boring Head

PN: VBC4M

Boring Head diameter: 100 MM
Boring Bar hole size: 25 MM
Maximum offset: 32 MM
Dial Graduation: 0.01 MM
(for 0.02 MM on diameter)
Mount: 1 1/2"x18



VBC Boring Head Arbors

VBC Boring Head Arbors

• Hardened & ground



Taper	Taper Thread	Mount Thread	PN
BT40	M16	1 1/2"x18	VBCBT40
BT50	M24	1 1/2"x18	VBCBT50
MT3	1/2x12	1 1/2"x18	VBCMT3
MT4	5/8x11	1 1/2"x18	VBCMT4I
MT4	M16	1 1/2"x18	VBCMT4M
NT30	1/2x12	1 1/2"x18	VBCNT30I
NT30	M12	1 1/2"x18	VBCNT30M
NT40	5/8x11	1 1/2"x18	VBCNT40I
NT40	M16	1 1/2"x18	VBCNT40M
NT50	1"x8	1 1/2"x18	VBCNT50I
NT50	M24	1 1/2"x18	VBCNT50M
R8	7/16x20	1 1/2"x18	VBCR8

VBH Boring Heads

82 MM Boring Head

PN: VBH

- Boring head kit (arbor additional)
- Includes 3 extension arms for 8 mm brazed tooling, carbide insert holder and sleeve
- Extremely rigid and finely crafted boring head
- Ground and balanced for higher speed machining

Boring Head diameter: 82 MM

Boring Bar hole size: 20 MM

Processing range: 10-240 MM

Dial Graduation: 0.005 MM (for 0.01 MM on diameter)



VBH Boring Head Arbors

VBH Boring Head Arbors

- Suits VBH Boring Head
- Hardened and ground
- Strong and accurate precisely ground boss and four bolt mount



Taper	Taper Thread	PN
MT3	M12	VBH102M
MT4	M16	VBH103M
MT5	M24	VBH104M
R8	7/16"x20	VBH105
NT30	1/2"x12	VBH106I
NT30	M12	VBH106M
NT40	5/8"x11	VBH107I
NT40	M16	VBH107M
NT50	1"x8	VBH108I
NT50	M24	VBH108M
BT40	M16	VBH109
BT50	M24	VBH112

VBHU Boring & Facing Head

Boring and Facing Head

PN: VBHU

- Boring and facing head kit (arbor extra)
- Includes extension shanks, sleeves and brazed tooling
- A precision tool for complex milling applications
- Sturdy mount with 6 cap screws

Applications:

- Vertical boring
- Outside turning
- Internal or external grooving
- Horizontal facing (both top & bottom faces)

Head diameter: 78 MM

Boring bar hole: 18 MM

Distance between holes: 23 MM

Cross hole diameter: 18 MM

Max offset: 15 MM

Boring range: 5-250 MM

Dial graduation: 0.01 MM (off diameter)



VBHU Boring Head Arbors

VBHU Boring & Facing Head Arbors

- Suits VBHU Boring and Facing Head
- Precisely ground boss & bottom mount
- Hardened and Ground



Taper	Taper Thread	PN
MT3	1/2"x12	VBHU202I
MT3	M12	VBHU202M
MT4	M16	VBHU203M
R8	7/16"x20	VBHU205
NT30	1/2"x12	VBHU206I
NT30	M12	VBHU206M
NT40	5/8"x11	VBHU207I
NT40	M16	VBHU207M
NT50	1"x8	VBHU208I
NT50	M24	VBHU208M
BT40	M16	VBHU209
BT50	M24	VBHU213

Coolant Systems

Coolant System

PN: VCS500

- This multi function coolant system can be varied from blowing air only to a full coolant mist.
- Variable air and coolant inlets let you control the density of the mist.
- Comes complete with a coolant suction hose that includes an integrated filter
- Armored coolant hose for long life

Hose Length: 400 MM
Nozzle material: Brass



Soluble Cutting Oil

Soluble Cutting Oil

1 Litre PN: SOLOIL1

5 Litre PN: SOLOIL5

20 Litre PN: SOLOIL20

Geiger Soluble Cutting Oil is blended specifically for industrial engineering applications, containing sulphur based extreme pressure additives. Specifically formulated emulsifiers and bactericides provide excellent stability and rust prevention characteristics in hard water up to 400 PPM (expressed as calcium carbonate). Mix at between 5% to 10% concentration with clean tap water to form a white emulsion.

Mixing Ratio: 10:1



Stands

End Mill Stand

PN: VMS2

A multi purpose end mill stand

- 6 MM: 15 Piece
- 8 MM: 12 Piece
- 10 MM: 10 Piece
- 16 MM: 8 Piece
- 20 MM: 7 Piece
- 25 MM: 6 Piece
- 32 MM: 2 Piece
- 42 MM: 2 Piece

Shank Range: 6-42 MM
Capacity: 62 end mills
Size: 205 x 205 x 80 MM
Material: ABS



Rotary End Mill Stand

PN: VMS3

A multi purpose rotating end mill stand that holds 100 end mills in total.

Position for 1 MM - 10 MM in 0.1 MM increments
One position for 10.5 MM, 10.9 MM, 11.0 MM, 11.5 MM, 11.9 MM
12.0 MM, 12.5 MM, 12.9 MM & 13.0 MM
100 positions in total

Shank Range: 1-13 MM
Capacity: 100 end mills
Size: 174 MM dia. x 90 MM
Material: POM



Deluxe Tool Stands

Deluxe BT Setting Stands

BT40 Stand PN: VTD1

BT50 Stand PN: VTD2

- Multi function tool setting stand for BT tooling.
- Accepts vertical & horizontal tool mounting.
- Solid cast iron construction

Nett weight: 22.4 Kg



Simple BT Setting Stands

BT40 Stand PN: VTSBT40

BT50 Stand PN: VTSBT50

- Cast iron tool setting stand
- Vertical mount
- Robust & simple construction
- Holds BT arbors



Tooling Racks

NT & BT Tooling Racks

- Sturdy construction single row
- Vertical handles for easy relocation



Size	Capacity	PN
BT30	8 Arbors	VTTRBT30
BT40	7 Arbors	VTTRBT40
BT50	5 Arbors	VTTRBT50

Tooling Sleeves

NT/BT30 Taper PN: VTTSBT30

NT/BT40 Taper PN: VTTSBT40

NT/BT50 Taper PN: VTTSBT50

HSK63 Taper PN: VTTSBSK63

- Tooling Sheath to suit Tooling Trolley and Tooling Rack



Spindle Taper Wipers

BT/NT Wipers

BT30 Wiper PN: VTW30

BT40 Wiper PN: VTW40

BT50 Wiper PN: VTW50

- Good for cleaning the taper surface between tooling changes for a more accurate tool positioning
- Plastic body with cotton wiping faces
- Suits both BT & NT spindles



Tooling Trolleys

NT/BT Tooling Trolley

BT40 or NT40 holders PN: VTT2BT40

BT50 or NT50 holders PN: VTT2BT50

- Sturdy, smooth rolling tooling trolley
- Made from fabricated steel, bolt together construction
- Lockable pivot wheels

Capacity:

28 NT40 Arbors or
20 NT50 Arbors

Rows: 4



NT/BT Tooling Trolley with Lockable Draws

BT40 or NT40 holders PN: VTT5BT40

BT50 or NT50 holders PN: VTT5BT50

- Sturdy, smooth rolling tooling trolley
- Lockable bottom draws
- Made from fabricated steel, bolt together construction
- Lockable pivot wheels

Capacity:

28 NT40 Arbors or
20 NT50 Arbors

Rows: 4

Draws: 2



NT40/BT40 Tooling Trolley

PN: RT6558

- Sturdy, smooth rolling tooling trolley
- Made from fabricated steel, bolt together construction
- Lockable pivot wheels, Can be supplied as 20 x BT50, 24 x HSK63
- Vertical arrangement, additional shelves available.

Capacity: 28 Piece (BT40)

Rows: 4



Lockable BT40 Tooling Storage Cabinet

PN: THD3B

- Lockable Storage cabinet for BT tooling. Can be supplied as 21 x BT50 or 24 x HSK63.
- Sturdy steel construction, comes completely assembled.

Capacity: 30 Piece (BT40)

Rows: 3



Height Pre-setters

Height Pre-setter

PN: HP50AM

- Height pre-setter with magnetic base
- Comes complete with test piece
- Gauge can be rotated for accurate height setting

Height: 50 MM

Accuracy: ± 0.005 MM



Height Pre-setter

PN: HP50ZM

- Height pre-setter with magnetic base
- LED light illuminates when the tool touches the sensor plate.
- 2 x LR44 batteries

Height : 50 MM

Mount: Horizontal or Vertical

Accuracy: ± 0.005 MM



Touch Point Sensors

4 MM Mechanical Touch Point Edge Finder

PN: VPS302

- For the accurate alignment of the tool spindle and work piece
- Mechanical touch point centre

Drive shaft diameter: 10 MM

Touch point diameter: 4 MM

Accuracy: ± 0.003 MM

Speed: 450-600 RPM

Hardness: HRC56°



6 MM Mechanical Touch Point Edge Finder

PN: VPS201

- For the accurate alignment of the tool spindle and work piece
- Mechanical touch point centre

Drive shaft diameter: 10 MM

Touch point diameter: 6 MM

Accuracy: ± 0.005 MM

Speed: 450-600 RPM

Hardness: HRC 56°



10 MM Mechanical Touch Point Edge Finder

PN: VPS301

- For the accurate alignment of the tool spindle and work piece
- Mechanical touch point centre

Drive shaft diameter: 10 MM

Touch point diameter: 10 MM

Accuracy: ± 0.003 MM

Speed: 450-600 RPM

Hardness: HRC56°



5 MM Lever Type Edge Finder

PN: VPS401

- Mechanical touch point centre
- For the accurate alignment of the tool spindle and work piece
- Comes in a set with two probe lengths

Drive shaft diameter: 10 MM

Touch point diameter: 5 MM

Length: 78 MM, 145 MM

Accuracy: ± 0.003 MM

Speed: 600-1000rpm

Hardness: HRC58°



18 MM Electronic Edge Finder

PN: VPS20B

- Electric edge finder that beeps and illuminates when it touches the workpiece
- No need to rotate the spindle to effect the alignment

Drive shaft diameter: 20 MM

Touch point diameter: 10 MM

Accuracy: ± 0.005 MM

Hardness: HRC56°

Battery: UM5 (12V)



3 Jaw Chucks

Solid 3 Jaw Lathe Chucks

- High quality plain back lathe chuck
- Machined cast iron
- 2 Sets of Solid Jaws
- Self-centering



Chuck Dia.	OD Grip Range	ID Grip Range	Bore Dia.	PN
80 MM	2-70 MM	24-64 MM	16 MM	VSC3A
100 MM	3-90 MM	32-84 MM	22 MM	VSC4A
130 MM	3-110 MM	35-100 MM	30 MM	VSC5A
160 MM	3-160 MM	48-150 MM	45 MM	VSC6A
200 MM	4-180 MM	56-170 MM	70 MM	VSC8A
250 MM	6-220 MM	70-250 MM	80 MM	VSC10A
500 MM	25-500 MM	150-500 MM	210 MM	VSC20A

3 Jaw Lathe Chuck with Reversible Top Jaw

- High quality plain back lathe chuck
- Machined cast iron
- Reversible top Jaw
- Self-centering



Chuck Dia.	OD Grip Range	ID Grip Range	Bore Dia.	PN
160 MM	8-160 MM	55-150 MM	45 MM	VSK6A
200 MM	8-180 MM	62-170 MM	65 MM	VSK8A
250 MM	12-260 MM	80-250 MM	80 MM	VSK10A
325 MM	11.5-350 MM	110-340 MM	100 MM	VSK13A

4 Jaw Independent Chucks

4 Jaw Independent Chucks

- High quality plain back lathe chuck
- Machined cast iron



Chuck Dia.	OD Grip Range	ID Grip Range	Bore Dia.	Max RPM	PN
100 MM	6-45 MM	40-100 MM	25 MM	2300	VKC4
125 MM	7-57 MM	48-125 MM	30 MM	1900	VKC5
160 MM	8-80 MM	50-160 MM	45 MM	1500	VKC6
200 MM	10-100 MM	63-200 MM	56 MM	1350	VKC8
250 MM	15-130 MM	80-250 MM	75 MM	1100	VKC10
320 MM	20-176 MM	100-315 MM	95 MM	850	VKC12B
400 MM	25-250 MM	118-400 MM	125 MM	550	VKC16
500 MM	35-300 MM	125-500 MM	160 MM	350	VKC20
630 MM	50-400 MM	160-630 MM	180 MM	280	VKC25

Lathe Chuck Keys

Lathe Chuck Key with Ejecting Spring

8 MM Square Drive PN: LCKS08

14 MM Square Drive PN: LCKS14

10 MM Square Drive PN: LCKS10

16 MM Square Drive PN: LCKS16

12 MM Square Drive PN: LCKS12

- Lathe chuck key with spring



Lathe Chuck Jaws

Hydraulic Chuck Soft Jaws

- Soft jaws for Hydraulic power chucks
- To suit Kitagawa, Howa and Victor
- Set of 3

Length.	Width	Height	Keyway	Tooth Pitch	PN
62 MM	25 MM	30 MM	10 MM	1.5x60°	VHC05
73 MM	31 MM	36 MM	12 MM	1.5x60°	VHC06
95 MM	35 MM	37 MM	14 MM	1.5x60°	VHC08
110 MM	40 MM	42 MM	16 MM	1.5x60°	VHC10
130 MM	50 MM	50 MM	21 MM	1.5x60°	VHC12
130 MM	50 MM	50 MM	18 MM	1.5x60°	VHC12-1
165 MM	62 MM	62 MM	22 MM	1.5x60°	VHC15



SK Type Soft Chuck Jaws

- Can be used in Kitagawa, How & Vistor lathe chucks
- Set of 3

Length.	Width	Height	Long Keyway	Side Keyway	PN
75 MM	26 MM	38 MM	7.94 MM	12.68 MM	VSJ6
95 MM	31 MM	48 MM	7.94 MM	12.68 MM	VSJ8
110 MM	37 MM	48 MM	12.7 MM	19.03 MM	VSJ10
125 MM	40 MM	54 MM	12.7 MM	19.03 MM	VSJ12



Reducing Sleeves

Threaded Reducing Sleeves

- Reducing sleeve to hold parallel shank cutters
- Designed for CNC lathe turrets
- Uses grub screws to locate the cutter
- Hardened and ground internal and external surfaces



OD	Length	ID	PN
20 MM	45 MM	8 MM	E2008
20 MM	45 MM	10 MM	E2010
20 MM	45 MM	12 MM	E2012
25 MM	55 MM	8 MM	E2508
25 MM	55 MM	10 MM	E2510
25 MM	55 MM	12 MM	E2512
32 MM	60 MM	8 MM	E3208
32 MM	60 MM	10 MM	E3210
32 MM	60 MM	12 MM	E3212
40 MM	75 MM	8 MM	E4008
40 MM	75 MM	10 MM	E4010
40 MM	75 MM	12 MM	E4012
40 MM	75 MM	16 MM	E4016

OD	Length	ID	PN
50 MM	85 MM	10 MM	E5010
50 MM	85 MM	12 MM	E5012
50 MM	85 MM	16 MM	E5016
50 MM	85 MM	20 MM	E5020
50 MM	85 MM	25 MM	E5025
50 MM	85 MM	32 MM	E5032

Reducing Sleeves

Slotted Reducing Sleeves

- Reducing sleeve to hold parallel shank cutters
- Designed for CNC lathe turrets
- The cutter shank is located using external grub screws through the slot in the sleeve.
- Hardened and ground internal and external surfaces



OD	Length	ID	PN
20 MM	50 MM	16 MM	E2016
25 MM	50 MM	16 MM	E2516
25 MM	50 MM	20 MM	E2520
32 MM	60 MM	16 MM	E3216
32 MM	60 MM	20 MM	E3220
32 MM	60 MM	25 MM	E3225
40 MM	75 MM	20 MM	E4020
40 MM	75 MM	25 MM	E4025
40 MM	75 MM	32 MM	E4032
50 MM	85 MM	40 MM	E5040

Straight Shank to MT Adapters

Morse Taper Reducing Sleeves

- Straight shank to morse taper adapter
- Hardened and ground internal and external surfaces
- Designed for CNC lathe turrets



OD	Length	ID	PN
32 MM	60 MM	MT1	E32MT1
32 MM	60 MM	MT2	E32MT2
32 MM	60 MM	MT3	E32MT3
40 MM	70 MM	MT1	E40MT1
40 MM	70 MM	MT2	E40MT2
40 MM	70 MM	MT3	E40MT3
40 MM	70 MM	MT4	E40MT4
50 MM	85 MM	MT1	E50MT1
50 MM	85 MM	MT2	E50MT2
50 MM	85 MM	MT3	E50MT3
50 MM	85 MM	MT4	E50MT4

Quick Change Boring Bar Holder Set

Quick Change Boring Bar Holder Set

20 MM Centre Height PN: THR2032

25 MM Centre Height PN: THR2532

- Quick change system for boring bars
- Maintains the correct centre height for boring bars
- High rigidity and accuracy

Sleeve sizes: 8, 10, 12, 16, 20 & 25 MM



Parting Blocks, Blades & Inserts

Parting Blocks

Centre Height	Blade	PN
16 MM	26 MM	SBU1626
20 MM	26 MM	SBU2026
20 MM	32 MM	SBU2032
25 MM	32 MM	SBU2532



Parting Blades

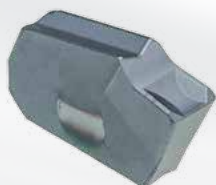
Blade height	Tip width	Tip style	PN
26 MM	2 MM	SP200	SPB226
32 MM	2 MM	SP200	SPB232
26 MM	3 MM	SP300	SPB326
32 MM	3 MM	SP300	SPB332



Parting Inserts

2 MM GTN2 style Tip PN: SP200

3 MM GTN3 style Tip PN: SP300



Jl12 Inserts

Jl12 RH Chip Breaking Trigon Insert

PN: JITIP3

Right Hand Chip Break
Suit PWGNR1215H06 holder



Jl12 LH Chip Break Trigon Insert -

PN: JITIP6

Left Hand Insert
Suit PWKNR1012J or
PWUNR1012J06 holder



Jl12 Square LH Chip Break Insert

PN: JITIP5

Left Hand Chip Break
Suit PSSNR1012J09 holder



Jl12 60° External Thread Insert

PN: JITIP4

External Thread Insert 60°
Suit LW1215R-06 holder



Jl12 Square RH Chip Break Insert

PN: JITIP8

Right Hand Chip Break
Suit PSSNR1215 or
PSBNR1215 holder



Jl12 60° Internal Thread Insert

PN: JITIP7

Internal Thread Insert 60°
Suits LN1215R-04 holder



Jl12 Square Full Chip Breaking Insert

PN: JITIP2

Full Chip Break
Suit PSSNR1215 or
PSBNR1215 holder



Jl12 Parting Insert

PN: JITIP1

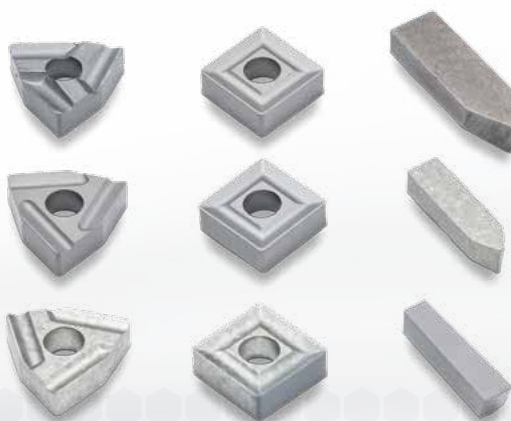
Parting Insert
Suit QA1222R-03 holder



Jl12 Inserts 9 Piece assortment

PN: JITIPKIT

9 Piece Insert Set Suit Jl12 tool holders



Lathe Tool Kits

9 Piece Entry Level Lathe Tool Set

PN: JI12

- Tools for parting, chamfering, turning, boring and threading
- Entry level set

9 Piece Tool Holder Set
12 mm Centre Height
Comes with replaceable tips and Case.



Lathe Centres

Drive Centres

- Main body and centre shaft are heat treated to HRC62°
- Strong mechanical structure



Carbide Tipped Dead Centres

- Carbide tipped HRC 70°
- Hardened & precision ground.
- Concentricity within .0002" (0.05 mm)

Point angle: 60°



Taper	Centre Shaft Dia.	Range	PN
MT4	6 mm	16-25 mm	VDK15MT4
MT4	8 mm	23-32 mm	VDK23MT4
MT4	8 mm	32-45 mm	VDK32MT4

Taper	Carbide insert length	PN
MT2	8 mm	VLC112
MT3	10 mm	VLC113
MT4	14 mm	VLC114
MT5	18 mm	VLC115
MT6	30 mm	VLC116

Lathe Centres

Light Duty Live Centres

- Heat treated SCM420 centre shaft HRC60°±2°
- Mid to high speed applications with a light load
- Centre runs on a ball bearing assembly

Accuracy: 0.005 mm

Point angle: 60°



Taper	Point width	Max RPM	PN
MT1	16 mm	3200	VPCMT1
MT2	22 mm	2800	VPCMT2
MT3	26 mm	2000	VPCMT3
MT4	30 mm	1800	VPCMT4

Carbide Tipped Live Centres

- Economical light duty live centre
- Carbide tipped HRC70°
- Hardened & precision ground

Accuracy: 0.005 mm

Point angle: 60°



Taper	Point Width	Max RPM	PN
MT2	25 mm	2300	VLC172
MT3	30 mm	2000	VLC173
MT4	30 mm	1800	VLC174

Heavy Duty Live Centres

- Heavy duty high speed centre
- Constructed using thrust ball bearings and needle roller bearings
- Centre shaft and main body are heat treated
- HRC60°±2°

Accuracy: 0.005 mm

Point angle: 60°



Taper	Point width	Max RPM	PN
MT2	23 mm	4000	VLC212
MT3	35 mm	3000	VLC213
MT4	40 mm	2500	VLC214
MT5	52 mm	2000	VLC215

High Speed Live Centres

- Heavy duty, high speed, waterproof design
- Dual ball bearing, thrust and needle roller bearing assembly
- Central shaft is vacuum heat treated to HRC 60°
- Waterproof

Accuracy: 0.005 mm

Point angle: 60°



Taper	Point Width	Max RPM	PN
MT3	30 mm	4000	VLCMT3A
MT4	32 mm	3000	VLCMT4A
MT5	40 mm	2500	VLCMT5A

Lathe Centres

High Speed Long Nose Live Centres

- Heavy duty, high speed, waterproof design
- Dual ball bearing, thrust and needle roller bearing assembly
- Central shaft is vacuum heat treated to HRC 60°
- Extended nose version
- Long nose for use on small work pieces
- Waterproof

Accuracy: 0.005 mm
Point angle: 60°



Taper	Point Width	Point Length	Max RPM	PN
MT3	30 mm	48 mm	4000	VLCMT3B
MT4	32 mm	52 mm	3000	VLCMT4B
MT5	40 mm	67 mm	2500	VLCMT5B

High Load High Speed Live Centres

- Vacuum heat treated shaft HRC 60°±2°
- The front end is constructed using angular contact ball bearings and a thrust ball bearings.
- The middle and rear bearings are needle roller
- Suited to high speed heavy loan CNC machining
- Extra Heavy Duty

Point angle: 60°
Accuracy: 0.003 mm



Taper	Point Width	Max RPM	PN
MT3	30 mm	5000	VCFMT3A
MT4	32 mm	4500	VCFMT4A
MT5	40 mm	3000	VCFMT5A

Live Centre with Interchangeable Tips

- Complete set with 7 interchangeable points
- Packed in a wooden case.
- High accuracy and durability.
- Body made of SCM-4 special tool steel.
- Hardened and ground.
- Can be used for heavy duty work.

Accuracy: 0.008 mm



Taper	Max RPM	PN
MT2	4000	VLC312
MT3	3000	VLC313
MT4	2500	VLC314

Lathe Centres

Bull Nosed Pipe Centres

- Pipe centre nose is hardened to HRC50°
- Concentricity and roundness to 0.005 mm

Concentricity: 0.005 mm



Taper	Cone Angle	Small Dia.	Large Dia.	Max RPM	PN
MT2	60°	19 mm	78 mm	2500	VLC423
MT3	60°	19 mm	78 mm	3300	VLC433
MT3	70°	32 mm	106 mm	3000	VLC434
MT3	70°	50 mm	156 mm	1900	VLC436
MT4	60°	19 mm	78 mm	3300	VLC443
MT4	70°	32 mm	106 mm	3000	VLC444
MT4	70°	35 mm	128 mm	2000	VLC445
MT4	70°	50 mm	156 mm	1900	VLC446
MT4	75°	54 mm	206 mm	1500	VLC448
MT5	70°	35 mm	128 mm	2000	VLC455
MT5	70°	50 mm	156 mm	1900	VLC456
MT5	75°	54 mm	206 mm	1500	VLC458

Taper	Cone Angle	Small Dia.	Large Dia.	Max RPM	PN
MT5	75°	54 mm	200 mm	1500	VLC458E
MT6	75°	54 mm	200 mm	1500	VLC468E

Lathe Tool Holders

Left Handed Tool Holders



- Clamping System: Clamp
- Insert Seat: 60° Triangular
- Cutting Direction: Left Handed
- Cutting Angle: 90°

ISO Designation	Insert	Shank Size	Length	PN
CTGPL1212F11	TPMR1103	12H x 12W mm	80 mm	CTGPL1212F11
CTGPL1616H11	TPMR1103	16H x 16W mm	100 mm	CTGPL1616H11
CTGPL2020K16	TPMR1603	20H x 20W mm	125 mm	CTGPL2020K16
CTGPL2525M16	TPMR1603	25H x 25W mm	150 mm	CTGPL2525M16

Inserts are available.

Right Handed Tool Holders

- Clamping System: Clamp
- Insert Seat: 60° Triangular
- Cutting Direction: Right Handed
- Cutting Angle: 90°



ISO Designation	Insert	Shank Size	Length	PN
CTGPR1212F11	TPMR1103	12W x 12H mm	80 mm	CTGPR1212F11
CTGPR1616H11	TPMR1103	16W x 16H mm	100 mm	CTGPR1616H11
CTGPR2020K16	TPMR1603	20W x 20H mm	125 mm	CTGPR2020K16
CTGPR2525M16	TPMR1603	25W x 25H mm	150 mm	CTGPR2525M16

Inserts are available.

Lathe Boring Bars

Right Handed Boring Bars to suit CCMT06

Shank Type: Steel
Clamping System: Screw Only
Cutting Direction: Right Handed
Cutting Angle: 95°
Insert: CCMT06



ISO Designation	Bar Dia.	Shank Length	PN
S08K-SCLCR-06	8 MM	125 MM	S08K-SCLCR-06
S10M-SCLCR-06	10 MM	150 MM	S10M-SCLCR-06
S12M-SCLCR-06	12 MM	150 MM	S12M-SCLCR-06

Inserts are available.

Right Handed Boring Bars to suit CCMT09

Shank Type: Steel
Clamping System: Screw Only
Cutting Direction: Right Handed
Cutting Angle: 95°
Insert: CCMT09T3



ISO Designation	Bar Dia.	Shank Length	PN
S12M-SCLCR-09	12 MM	150 MM	S12M-SCLCR-09
S16R-SCLCR-09	16 MM	200 MM	S16R-SCLCR-09
S20S-SCLCR-09	20 MM	250 MM	S20S-SCLCR-09

Inserts are available.

Right Handed Boring Bars to suit TPMR11

Shank Type: Steel
Clamping System: Clamp Only
Cutting Direction: Right Handed
Cutting Angle: 90°
Insert: TPMR1103



ISO Designation	Bar Dia.	Shank Length	PN
S12M-CTFPR-11	12 MM	150 MM	S12M-CTFPR-11
S16R-CTFPR-11	16 MM	200 MM	S16R-CTFPR-11
S20S-CTFPR-11	20 MM	250 MM	S20S-CTFPR-11

Inserts are available.

Right Handed Boring Bars to suit TPMR16

Shank Type: Steel
Clamping System: Clamp Only
Cutting Direction: Right Handed
Cutting Angle: 90°
Insert: TPMR1603



ISO Designation	Bar Dia.	Shank Length	PN
S20S-CTFPR-16	20 MM	250 MM	S20S-CTFPR-16
S25T-CTFPR-16	25 MM	300 MM	S25T-CTFPR-16
S32U-CTFPR-16	32 MM	350 MM	S32U-CTFPR-16

Inserts are available.

CATALOGUE INDEX

Term:	Page	Term:	Page
Abrasive Belts	87	Chisels	88, 89
Abrasive Discs	84-87	Chuck - Drill	181-185, 193
Air Brush	57	Chuck - Integrated	230, 231
Air Drill	29	Chuck - Lathe	239
Air Hammer	31,44,55	Chuck Jaws	240
Air Nibbler	30,44	Chuck Key	185, 193
Air Line Coupling	98-105	Clamp Kits	210
Air Saw	27	Clamping Nuts	213, 214
Air Shears	30,44	Clamping Studs	211, 212
Aluminum Rivets	138	Cluster Manifold	99, 99
Angle Block	201	Coach Screws	143
Angle Drill	29	Cold Chisel	88
Angle Grinder	26, 42	Collet	216, 218, 219, 226, 231
Angle Plate	202, 204	Collet Chuck	219, 219, 220, 221, 222, 222, 223
Arbor	190, 191, 194, 225, 228, 232, 233, 234	Colour Filters	125
Assortment Kits	126-144	Combination Ruler	173
Auto Drain	96	Combination Square	173
Backing Pad	79-84	Compressor Oil	97
Ball Bearing Chuck	193	Coolant Fluid	235
Batteries	125	Coolant Proof Collets	218
Bins	146	Copper Washers	134
Blade	112-114, 127	Countersink	194, 195
Blade Fuses	127	Couplings	98-105
Blade Holder	109-111	Coupling Nuts	214
Block Level	174	Cross Table	204
Blow Gun	36, 37	Cross Vice	196
Body Saw	27	Cup Hooks	144
Bolts	130, 136, 137	Cushion Pads	80
Bore Gauge	167	Cut Off Grinders	26, 42
Boring Bar Holder	242	Cut Off Discs	89
Boring Bars	248	DA Nailer	46
Boring Head	232-234	Data Cable	174
Boring Head Arbors	232-234	Dead Centers	244
Bradder	45	Deburring Blade	112-114
Brake Caliper	161	Deburring Tool	109-111
BT Pull Studs	225	Depth Gauge	169, 176, 178
BT Tapping	221	Dial Caliper	163
BT Tooling	224, 225, 230	Dial Gauge - Indicator	170
BT Tooling Stands	236	Die Grinder	27, 28, 43, 55
BT Tooling Trolleys	327	Digital Caliper	159, 161
Budd Wheel Socket	90	Digital Indicator	170
Bullet Connector	126	Discs - Abrasive	84-87
Burr	71-78	Display Cabinet	151
Butterfly Impact Wrench	38	Display Stand	147
Cabinet	148-152, 154, 155	Distance Meter	172
Cable Clips	144	Dividers	149, 177
Caliper Attachment	163	Dividing Head	199
Cap Screws	132	Dividing Plate	198
Carbide Burr	71-78	Double Deburrer	110
Carbide Inserts	243	Drawers	145, 148-152, 154, 155, 237
Cart	147, 151, 153	Drill Chuck	181-184, 193, 195
Caulking Gun	33, 54	Drill Chuck Arbor	190, 191
Centering Holder	171	Drill Chuck Key	185, 193
Centering Indicator	169	Drill Drift	190
Centre Punch	195	Drill Press Vice	196, 197
Ceramic Blade	111	Drill Sleeve	192
Ceramic Fuses	127	Driver Bits	108, 136
Chamfering End Mill	194	Drum Brake Caliper	161
Channel Clamps	212	Dust Free Sander	41, 42
Charger	125	E-Clips	128
Charging Cable	125	Edge Finder	238
Chipboard Screws	142	Electrical Terminals	126
Chipper Hammer	56	End Mill	194
		End Mill Stand	235

CATALOGUE INDEX

Term:	Page
Engine Cleaner	33
Engraver	31
ER Collet	216, 218
ER Collet Chucks	219-222, 224
ER Collet Nuts	223
ER Collet Tray	219
Expansion Nails	143
Extension Bar	92, 93
Extension Socket	219
External Circlips	128
Ezishear	69, 70
Face Mill	229, 230
Face Mill Arbors	225, 227, 228
Feeler Gauge	176
Felt Pads	86
Fender Washers	141
Fibre Washers	134
Filing Cabinet	152
Filter Regulators	94-97
Fitted Hose	98
Flag Connector	126
Flange Nuts	130, 213
Floor Stapler	49
Flange Tool	27
Flap Discs	84, 86
Flexible Drill Attachment	195
Framing Gun	46
Free Vice	209
Fuses	127
Gasket Punch	107
Gear Tooth Gauge	180
Granite Surface Plate	188
Grease Gun	33, 54
Grease Nipples	133
Grinder - Angle, Straight	26, 55
Grinder - Die	27, 28, 43, 55
Grub Screws	133
Gutter Bolts	137
Halogen Lamp	189
Hammer - Air	31, 44
Hand Riveter	115
Hand Torch	117-122
Hanging Panel	147
Hardness Gauge	172
Head Lamp	123, 124
Helmet Mount	125
Height Presetter	238
Hex Bit - Impact	92
Hex Keys	106
Hex Bolts	131
Hole Gauge	176
Hollow Punch	107
Hook Tool	108
Hooks	144
Hose Fitting	100-102, 105
Hose Reel	98
Hoses	64, 98
HVLP - Spray Guns	60, 61
Hydraulic Chuck Jaw	240
Hydraulic Milling Vice	207-208
Hydraulic Riveter	32, 56
Impact Sockets	90, 91, 93
Impact Socket Adapter	91
Impact Wrench	22, 38, 39, 50, 50-53

Term:	Page
Indexing Spacer	200
Indicator - Dial	170
Infrared Thermometer	172
Inserts	243
Inside Micrometer	169
Integrated Keyless Chucks	230, 231
Interface Pads	81
Internal Circlips	128
Jack Screw	205
Keyed Drill Chuck	183, 193
Keyless Chucks	181, 182, 184, 193, 230, 231
Lathe Centres	244-247
Lathe Chuck	239
Lathe Chuck Key	239
Lathe Tooling	242-244
Letter Stamps	186
Level	172, 174
Lithium battery	125
Live Centre	245, 246
Lockable Cabinets	150, 151, 237
Lubricator	94, 96
Machine Guard	216
Mechanics Creeper	157
Magnetic Base	170, 171
Magnetic Tools	187
Manifolds - Air	99
Merino Wool - Buff	81
Metal Shear - Air	30, 44
Micro Die Grinder	28
Micrometer	164-166
Milling Cutter	229, 230
Milling Table	204
Milling Vice	205-209
Mobile Storage	145, 147, 151, 153-155
Morse Taper Arbors	190, 191, 192, 224, 227
Morse Taper Extension	192
Nailer Gun	45-47
Needle Scaler	30, 55
Nibbler	30, 44
NT Collet Chucks	220, 222
NT Face Mill	228
NT Sleeves	227
NT Tooling Wipers	236
Number Stamps	186
Nutsert Tool	56, 68
Nutserts	138
O-rings	135
Oil	49, 235
Oiler	97
One Touch Coupling	98, 99, 100, 102, 103, 104, 105
Pads	79-84
Paint Remover	34
Parallel Blocks	201
Parting Blades	242
Parting Blocks	242
Parting Inserts	242, 243
Part Bins	146
Parts Cabinet	148-151
Parts Trolley	153
Pick Tool	108
Pipe Centers	247
Pipe Vice	197
Pittsburgh Hammer	55

CATALOGUE INDEX

Term:	Page	Term:	Page
Plasterboard Screws	140	Stand	66, 166, 235
Pocket Depth Gauge	178	Stapler	48, 49
Polisher	24	Star Key	106
Polishing Bonnet	80	Star Washers	134
Pop Rivets	138	Step Block	214
Pressure gauge	97	Step Clamps	215
Pressure pots	65, 66	Step Drill	195
Pressure Regulator	66	Stick-on Pads	80, 82
Prop-shaft Bolts	130	Stool	156
Protractor	172, 173	Storage	145-155
Punches	107, 186	Storage Bin	146, 153
Punch & Flange Tool	27	Storage Cabinet	148-152, 237
Quick-Lock Abrasives & Pads	83-87	Stripping Discs	83, 86, 87
Radius Gauge	175	Studs	130, 212
Ratchet Wrench	23, 40, 54	Surface Plate	188
Rechargeable Torches	121, 122, 124	Sweeper	158
Recoil Hose	98	T-Handle	108
Reducing Sleeves	240, 241	T-Slot Nuts	213
Regulator	94-96, 100	Tailstock	199
Reversible Drill	29	Tang Adapter	194
Reversible Tapping Attachment	231	Tapered Spindle	86
Rivet Gun - Air	32	Tapered Wiper	236
Rivet Gun - Hand	115	Telescopic Gauge	176
Rivets	138	Tapping Attachment	231
Roller Cabinet	154, 155	Test Indicator	169, 170
Rotary Table	198, 200	Thread Adapter	185
Round Vice	197	Thread Gauge	175, 178
Rulers	173, 177	Through Ratchet	54
Rust Remover	34	Tilting Rotary Table	200
Sand Blasting	34	Tool Chest	154, 155
Sanders - Air	24, 25, 41, 42, 55	Tool Holders	244, 247
Sanding - Abrasives	84-87	Tool Stands	236
Sanding Pads	79-84	Torch	117-124
Saw Blades	89	Torque Bars	93
Scaling Hammer	56	Touch Point Edge Finder	238
Scraper	111	Traffic Wand	125
Screw Jack	205	Transformer	189
Screw Pitch Gauge	180	T Slot Covers	216
Screwdriver	28, 108	T Slot Clamps	212
Screws	131, 132, 133, 139, 140	Trolley	151, 153-155, 237
Scriber	177	Tubular Micrometer	169
Sheep Skin Bonnet	81	Tyre Inflator	35, 36
Shears - Air	30, 44	Universal Joint	93
Side-Lock Holders	225	V Blocks	203
Sine Bar	202	Velcro Pads	80, 82, 84
Slot Covers	216	Vernier Caliper	159-163
Slot Table Clamps	212	Vernier Height Gauge	168
Socket - Impact	90, 93	Vice - Drilling / Welding	196, 197
Socket - Air Line	100-105	Vice - Milling	205-209
Socket Extension Bar	92	Wall Plugs	143
Socket Set	91, 107	Washers	134, 141
Soft Jaws	240	Water Chuck	36
Soluble Cutting Oil	235	Water Separator	97
Spade Connector	126	Welders Vice	196
Spanner	193, 223	Welding Gauges	178
Speed Clips	128	Wing Nuts	136
Split Pins	129	Wire Wheel	83
Spray Gun	57-67	Wood Screws	142
Spring Caliper	177	Work Stopper	200
Spring Retainer	89		
Spring Toggles	143		
Spring Washers	141		
Squares	173		
Stamps	186, 188		

PART NUMBER INDEX

1323M	Pg 211	5215	Pg 214	ABCH902	Pg 87	AC-391-006-01	Pg 169	BNBA1	Pg 44
1324M	Pg 211	5225	Pg 214	ABCH903	Pg 87	AC-400-01	Pg 174	BO1000	Pg 49
1325M	Pg 211	5235	Pg 214	AC-100-11	Pg 174	AC-713-006-02	Pg 174	BO250	Pg 49
1326M	Pg 211	6113	Pg 215	AC-100-12	Pg 174	AC-713-012-02	Pg 174	BONE4031	Pg 157
1327M	Pg 211	6123	Pg 215	AC-101-006-11	Pg 163	AC-722-360-01	Pg 172	BONE5031	Pg 156
1328M	Pg 211	6133	Pg 215	AC-101-008-11	Pg 163	AC-725-360-01	Pg 172	BONE5131	Pg 156
1333I	Pg 212	6214	Pg 215	AC-101-012-11	Pg 163	AC-812-005-01	Pg 173	BONE6031	Pg 157
1333M	Pg 211	6215	Pg 215	AC-111-006-11	Pg 159	AC-817-180-02	Pg 173	BONE7031	Pg 157
1334I	Pg 212	6224	Pg 215	AC-111-006-12	Pg 159	AC-821-008-01	Pg 173	BOS136SA1	Pg 41
1334M	Pg 211	6225	Pg 215	AC-111-008-11	Pg 159	AC-845-004-02	Pg 173	BOS156A1	Pg 41
1335I	Pg 212	6234	Pg 215	AC-111-008-12	Pg 159	AC-845-006-02	Pg 173	BOS156SA1	Pg 41
1335M	Pg 211	6235	Pg 215	AC-111-012-11	Pg 159	AC-845-008-02	Pg 173	BOS258GRCD1	Pg 42
1336I	Pg 212	6316	Pg 215	AC-111-012-12	Pg 159	AC-845-012-02	Pg 173	BOS258GRD1	Pg 42
1336M	Pg 211	6326	Pg 215	AC-112-006-12	Pg 160	AC-845-024-02	Pg 173	BPULLER	Pg 46
1337I	Pg 212	6336	Pg 215	AC-112-008-12	Pg 160	AC-846-008-02	Pg 173	BRP103B1	Pg 40
1337M	Pg 211	6417	Pg 215	AC-112-012-12	Pg 160	AC-913-100-20	Pg 176	BRP103LC1	Pg 40
1338I	Pg 212	6427	Pg 215	AC-113-008-11	Pg 160	AC-990-006-11	Pg 177	BRP107B1	Pg 40
1338M	Pg 211	6437	Pg 215	AC-117-006-11	Pg 160	AC-990-012-11	Pg 177	BRP207B1	Pg 40
1343M	Pg 211	A4110P	Pg 152	AC-118-024-11	Pg 161	AC-914-100-20	Pg 176	BS0VSC5	Pg 199
1343MA	Pg 211	A4230P	Pg 152	AC-118-040-11	Pg 161	AC-915-100-20	Pg 176	BS1VSC6	Pg 199
1343UI	Pg 212	A5324	Pg 148	AC-120-006-12	Pg 162	AC-922-006-24	Pg 175	BS2VSC8	Pg 199
1344I	Pg 212	A5336	Pg 148	AC-120-008-12	Pg 162	AC-924-042-30	Pg 175	BS8016B1	Pg 48
1344M	Pg 211	A5DIV	Pg 149	AC-120-012-12	Pg 162	AC-925-062-52	Pg 175	BS9025PA2	Pg 48
1344MA	Pg 211	A5DRAW	Pg 149	AC-126-024-12	Pg 162	AC-941-007-34	Pg 175	BS9040LA1	Pg 49
1344UI	Pg 212	A6212H	Pg 148	AC-127-024-11	Pg 162	AC-941-015-32	Pg 175	BS9725B1	Pg 48
1345I	Pg 212	A6330H	Pg 148	AC-127-040-11	Pg 163	AC-941-025-30	Pg 175	BT152-16	Pg 225
1345M	Pg 211	A6DIV	Pg 149	AC-127-080-11	Pg 163	AC-942-013-26	Pg 175	BT152	Pg 225
1345MA	Pg 211	A6DRAW	Pg 149	AC-157-005-11	Pg 161	AC-951-006-01	Pg 176	BT153	Pg 225
1345UI	Pg 212	A7324	Pg 148	AC-158-012-11	Pg 161	AC-952-004-01	Pg 176	BT154	Pg 225
1346I	Pg 212	A7324D	Pg 150	AC-171-008-11	Pg 169	AC-962-015-05	Pg 176	BT155	Pg 225
1346M	Pg 211	A7448	Pg 148	AC-176-001-11	Pg 169	AC-982-008-01	Pg 177	BT156	Pg 225
1346MA	Pg 211	A7448D	Pg 150	AC-179-000-00	Pg 163	AC-982-012-01	Pg 177	BT157	Pg 225
1346UI	Pg 212	A7DIV	Pg 149	AC-181-012-11	Pg 168	AC-982-020-01	Pg 177	BT158	Pg 225
1347I	Pg 212	A7DRAW	Pg 149	AC-181-024-11	Pg 168	AC-984-008-01	Pg 177	BT159	Pg 225
1347M	Pg 211	A8432	Pg 150	AC-186-012-11	Pg 168	AC-984-012-01	Pg 177	BT160	Pg 225
1347MA	Pg 211	A8560	Pg 150	AC-186-024-11	Pg 168	AC-984-020-01	Pg 177	BT161	Pg 225
1347UI	Pg 212	A8DIV	Pg 149	AC-200-01	Pg 174	AC-985-008-01	Pg 177	BT162	Pg 225
1348I	Pg 212	A8DRAW	Pg 149	AC-200-02	Pg 174	AC-985-012-01	Pg 177	BT163	Pg 225
1348M	Pg 211	AAK01	Pg 131	AC-212-010-11	Pg 170	AC-985-020-01	Pg 177	BT164	Pg 225
1348MA	Pg 211	AAK02	Pg 131	AC-212-025-11	Pg 170	AC-995-009-01	Pg 177	BT165	Pg 225
1348UI	Pg 212	AAK03	Pg 131	AC-222-010-11	Pg 170	AC-HL400	Pg 172	BT166	Pg 225
1353I	Pg 212	AAK04	Pg 132	AC-225-025-11	Pg 170	AC-IT700	Pg 172	BT209	Pg 224
1353M	Pg 211	AAK05	Pg 128	AC-229-030-11	Pg 170	AC-TM100	Pg 172	BT212	Pg 224
1354I	Pg 212	AAK06	Pg 129	AC-241-160-11	Pg 167	AH1010F	Pg 98	BT215	Pg 224
1354M	Pg 211	AAK07	Pg 132	AC-241-250-11	Pg 167	AH1020F	Pg 98	BT218	Pg 224
1355I	Pg 212	AAK08	Pg 129	AC-241-450-11	Pg 167	AH1030F	Pg 98	BT220	Pg 224
1355M	Pg 211	AAK09	Pg 129	AC-251-160-11	Pg 167	AH1220F	Pg 98	BT223	Pg 224
1356I	Pg 212	AAK10	Pg 129	AC-251-346-13	Pg 167	AH1230F	Pg 98	BT226	Pg 224
1356M	Pg 211	AAK11	Pg 130	AC-261-008-11	Pg 169	AHPACK	Pg 98	BT2264A1	Pg 47
1357I	Pg 212	AAK12	Pg 134	AC-269-060-01	Pg 171	AHPACK12	Pg 98	BT229	Pg 224
1357M	Pg 211	AAK13	Pg 134	AC-270-000-04	Pg 171	AL101A	Pg 189	BT231	Pg 224
1358I	Pg 212	AAK14	Pg 134	AC-270-000-09	Pg 171	AL101B	Pg 189	BT2564A1	Pg 47
1358M	Pg 211	AAK15	Pg 133	AC-270-000-14	Pg 171	AL101BULB	Pg 189	BT315	Pg 224
1363M	Pg 211	AAK16	Pg 133	AC-270-000-17	Pg 171	AL101C	Pg 189	BT325	Pg 224
1364M	Pg 211	AAK17	Pg 132	AC-280-000-02	Pg 170	AL24024	Pg 189	BT442	Pg 225
1365M	Pg 211	AAK18	Pg 133	AC-280-001-02	Pg 170	ALCLMP	Pg 189	BT443	Pg 225
1366M	Pg 211	AAK19	Pg 133	AC-281-060-01	Pg 171	AP00103	Pg 64	BT444	Pg 225
1367M	Pg 211	AAK20	Pg 128	AC-281-060-02	Pg 171	AP00105	Pg 64	BT445	Pg 225
1368M	Pg 211	AAK21	Pg 126	AC-282-080-02	Pg 171	AP00110	Pg 64	BT447	Pg 225
13710M	Pg 211	AAK22	Pg 126	AC-286-040-01	Pg 171	B05	Pg 100	BT448	Pg 225
13712M	Pg 211	AAK23	Pg 126	AC-297-003-11	Pg 169	B07	Pg 100	BT449	Pg 225
1373M	Pg 211	AAK24	Pg 127	AC-313-001-01	Pg 166	B1650B1	Pg 45	BT450	Pg 225
1374M	Pg 211	AAK25	Pg 130	AC-313-002-01	Pg 166	B1650LA1	Pg 45	BT451	Pg 225
1375M	Pg 211	AAK26	Pg 130	AC-321-001-01	Pg 164	B1832PA2	Pg 45	BT452	Pg 225
1376I	Pg 212	AAK27	Pg 127	AC-321-002-01	Pg 164	B1850A1	Pg 45	BT454	Pg 225
1376M	Pg 211	AAK28	Pg 127	AC-321-003-01	Pg 164	B9040A1	Pg 49	BT456	Pg 225
1377M	Pg 211	AAK29	Pg 128	AC-321-003-03	Pg 165	BA3464A1	Pg 46	BT458	Pg 225
1378M	Pg 211	AAK30	Pg 128	AC-321-004-01	Pg 164	BA3490F1	Pg 46	BT460	Pg 225
1385M	Pg 211	AAK31	Pg 135	AC-321-005-01	Pg 164	BC2865D1	Pg 47	BT463	Pg 225
1386M	Pg 211	AAK32	Pg 135	AC-321-006-01	Pg 164	BC2865F1	Pg 47	BT466	Pg 225
1387M	Pg 211	AB130	Pg 201	AC-321-006-06	Pg 165	BCTA1	Pg 42	BT470	Pg 225
1388M	Pg 211	AB22012F120	Pg 86	AC-321-007-01	Pg 164	BFS15550-A3	Pg 49	BT474	Pg 225
2612I	Pg 214	AB22012F40	Pg 86	AC-321-008-01	Pg 164	BG210R	Pg 43	BT478	Pg 225
2612M	Pg 214	AB22012F60	Pg 86	AC-321-009-01	Pg 164	BG215RA1	Pg 43	BT503	Pg 225
2613Wit	Pg 214	AB22012F80	Pg 86	AC-321-010-01	Pg 164	BG220RA1	Pg 43	BT504	Pg 225
2613M	Pg 214	AB22012S120	Pg 86	AC-321-011-01	Pg 164	BG222RA1	Pg 42	BT505	Pg 225
2614I	Pg 214	AB22012S36	Pg 86	AC-321-012-01	Pg 164	BG230RA1	Pg 43	BT506	Pg 225
2614M-1	Pg 214	AB22012S60	Pg 86	AC-321-012-06	Pg 165	BHA67A1	Pg 44	BT511	Pg 225
2614M	Pg 214	AB22012S80	Pg 86	AC-324-001-01	Pg 166	BIK107A1	Pg 38	BT512	Pg 225
2614UNC	Pg 214	AB22013F120	Pg 86	AC-324-002-01	Pg 166	BIP114A1	Pg 38	BT516	Pg 225
2615M	Pg 214	AB22013F40	Pg 86	AC-324-003-01	Pg 166	BIT242-2	Pg 38	BT517	Pg 225
2616M	Pg 214	AB22013F60	Pg 86	AC-324-006-06	Pg 166	BIT242	Pg 38	BT519	Pg 225
2617M	Pg 214	AB22013F80	Pg 86	AC-329-016-01	Pg 164	BIT260M1	Pg 39	BT520	Pg 225
2618M	Pg 214	AB22013S120	Pg 86	AC-329-020-01	Pg 164	BIT3110-6	Pg 39	BT530	Pg 225
5114	Pg 214	AB22013S36	Pg 86	AC-329-024-01	Pg 164	BIT3110	Pg 39	BT531	Pg 225
5124	Pg 214	AB22013S60	Pg 86	AC-352-024-01	Pg 169	BMSA1	Pg 44	BT532	Pg 225
5134	Pg 214	AB22013S80	Pg 86	AC-381-000-00	Pg 166	BN8016E	Pg 48	BT533	Pg 225

PART NUMBER INDEX

BT534	Pg 225	CH13JT6	Pg 193	DCAMT4J6	Pg 191	FP20020	Pg 79	GP1081D	Pg 33
BT550	Pg 225	CH16B16	Pg 193	DCAMT5J3	Pg 191	FP20115	Pg 79	GP110-16	Pg 31
BTG11	Pg 225	CH16B18	Pg 193	DCAMT5J6	Pg 191	FP20210	Pg 79	GP110-17	Pg 31
CBSA1	Pg 72	CH16JT3	Pg 193	DCTAMT220	Pg 190	FP20305	Pg 79	GP110-18	Pg 31
CBSA1NF	Pg 76	CH16JT6	Pg 193	DCTAMT224	Pg 190	FP20310	Pg 79	GP110	Pg 31
CBSA3	Pg 72	CHKEY10	Pg 193	DCTAMT320	Pg 190	FP20405	Pg 79	GP1121D	Pg 32
CBSA3INOX	Pg 75	CHKEY13	Pg 193	DCTAMT324	Pg 190	FP20410	Pg 79	GP112K	Pg 31
CBSA3L6	Pg 78	CHKEY16	Pg 193	DCTAMT3M20	Pg 190	FP21412	Pg 79	GP1203	Pg 25
CBSA3NF	Pg 76	CK08	Pg 210	DCTAMT4M20	Pg 190	FP21940	Pg 79	GP1204R	Pg 24
CBSA5	Pg 72	CK08FNUT	Pg 213	DP1	Pg 198	FP32015	Pg 81	GP1205	Pg 24
CBSA5NF	Pg 76	CK08TNUT	Pg 213	DP2	Pg 198	FP32020	Pg 81	GP1206A	Pg 24
CBSB1	Pg 72	CK10	Pg 210	DP3	Pg 198	FP32315	Pg 80	GP1206P	Pg 24
CBSB3	Pg 72	CK103A	Pg 210	DP4	Pg 198	FP32320	Pg 80	GP1264A	Pg 25
CBSB3L6	Pg 78	CK103ATNUT	Pg 213	DP5	Pg 198	FP32705	Pg 81	GP1265A	Pg 25
CBSB5	Pg 72	CK103B	Pg 210	DRC184TECE	Pg 69	FP32710	Pg 81	GP1279A	Pg 28
CBSB5NF	Pg 72	CK103BTNUT	Pg 213	DU118G	Pg 151	FP36055	Pg 81	GP1558-4	Pg 35
CBSB5NF	Pg 72	CK103FNUT	Pg 213	DU118M	Pg 151	FP36060	Pg 81	GP1562	Pg 37
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E2008	Pg 240	FP36155	Pg 80	GP1562E	Pg 37
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E2010	Pg 240	FP36160	Pg 80	GP1599-5	Pg 107
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E2012	Pg 240	FP36170	Pg 80	GP2001A	Pg 34
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E2016	Pg 241	FP36175	Pg 80	GP201	Pg 30
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E2508	Pg 240	FP36185	Pg 80	GP203	Pg 33
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E2510	Pg 240	FP36190	Pg 80	GP2201K	Pg 28
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E2512	Pg 240	FP36305	Pg 80	GP2202	Pg 27
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E2516	Pg 241	FP40005	Pg 81	GP2202K	Pg 28
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E2520	Pg 241	FP40015	Pg 81	GP2202R	Pg 27
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E3208	Pg 240	FT006	Pg 178	GP2203R	Pg 27
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E3210	Pg 240	FT156	Pg 178	GP2204K	Pg 28
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E3212	Pg 240	FT163	Pg 178	GP2260T	Pg 22
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E3216	Pg 241	FT272MA	Pg 179	GP268K	Pg 30
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E3220	Pg 241	FT272MB	Pg 179	GP3103	Pg 26
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E3225	Pg 241	FT29730	Pg 180	GP3125	Pg 26
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E32MT1	Pg 241	FT30720	Pg 180	GP3201	Pg 26
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E32MT2	Pg 241	FTDPS20	Pg 180	GP3203	Pg 26
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E32MT3	Pg 241	FTL300MX	Pg 179	GP41013	Pg 29
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E4008	Pg 240	FTMPS20	Pg 180	GP41013K	Pg 29
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E4010	Pg 240	FTNWG94	Pg 178	GP4204	Pg 29
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E4012	Pg 240	FTPDG50	Pg 178	GP4204K	Pg 29
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E4016	Pg 240	G3SD	Pg 195	GP4209	Pg 29
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E4020	Pg 241	GBS21	Pg 108	GP504K	Pg 22
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E4025	Pg 241	GBS49	Pg 108	GP5105	Pg 28
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E4032	Pg 241	GCS3F12	Pg 195	GP5203	Pg 23
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E40MT1	Pg 241	GCS5S	Pg 195	GP5204	Pg 23
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E40MT2	Pg 241	GD38325	Pg 111	GP60012	Pg 30
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E40MT3	Pg 241	GD38333	Pg 109	GP6302	Pg 32
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E40MT4	Pg 241	GD86060	Pg 110	GP6304	Pg 32
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E5010	Pg 240	GD86110	Pg 110	GP8101	Pg 26
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E5012	Pg 240	GD88030	Pg 110	GP8102	Pg 26
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E5016	Pg 240	GD88040	Pg 109	GP8201	Pg 30
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E5020	Pg 240	GDDDB	Pg 110	GP909	Pg 34
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E5025	Pg 240	GDMC1	Pg 110	GP9101	Pg 30
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E5032	Pg 240	GDSC1	Pg 111	GP9201	Pg 27
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E5040	Pg 241	GDSC10	Pg 113	GP9301	Pg 27
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E50MT1	Pg 241	GDSC101	Pg 113	GPA016	Pg 35
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E50MT2	Pg 241	GDSC15	Pg 113	GPA0201	Pg 37
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E50MT3	Pg 241	GDSC20	Pg 113	GPA0206KB	Pg 37
CBSB5NF	Pg 72	CK103FNUT	Pg 213	E50MT4	Pg 241	GDSC30	Pg 113	GPA034	Pg 33
CBSB5NF	Pg 72	CK103FNUT	Pg 213	ESOC2X2	Pg 192	GDSC35	Pg 113	GPA051	Pg 36
CBSB5NF	Pg 72	CK103FNUT	Pg 213	ESOC2X3	Pg 192	GDSDSDMK	Pg 109	GPA1010	Pg 100
CBSB5NF	Pg 72	CK103FNUT	Pg 213	ESOC2x4	Pg 192	GDSDTC	Pg 112	GPA1011	Pg 100
CBSB5NF	Pg 72	CK103FNUT	Pg 213	ESOC3X2	Pg 192	GDSDTP	Pg 112	GPA1012	Pg 100
CBSB5NF	Pg 72	CK103FNUT	Pg 213	ESOC3X3	Pg 192	GDSKW	Pg 112	GPA1025	Pg 97
CBSB5NF	Pg 72	CK103FNUT	Pg 213	ESOC3X4	Pg 192	GDSKW16	Pg 112	GPA1352A-3	Pg 33
CBSB5NF	Pg 72	CK103FNUT	Pg 213	ESOC4X2	Pg 192	GDSKW9	Pg 112	GPA1512	Pg 97
CBSB5NF	Pg 72	CK103FNUT	Pg 213	ESOC4X3	Pg 192	GDSMC10	Pg 113	GPA1513	Pg 99
CBSB5NF	Pg 72	CK103FNUT	Pg 213	ESOC4X4	Pg 192	GDSMC101	Pg 113	GPA1514	Pg 99
CBSB5NF	Pg 72	CK103FNUT	Pg 213	ESOC4X5	Pg 192	GDSMC15	Pg 113	GPA1515	Pg 99
CBSB5NF	Pg 72	CK103FNUT	Pg 213	ESOC5x4	Pg 192	GDSMC20	Pg 113	GPA1516	Pg 99
CBSB5NF	Pg 72	CK103FNUT	Pg 213	ESOC5x5	Pg 192	GDSP1	Pg 114	GPA1517	Pg 99
CBSB5NF	Pg 72	CK103FNUT	Pg 213	EZ101	Pg 70	GDSP2	Pg 114	GPA1518	Pg 84
CBSB5NF	Pg 72	CK103FNUT	Pg 213	EZ102	Pg 70	GDSP3	Pg 114	GPA1519	Pg 84
CBSB5NF	Pg 72	CK103FNUT	Pg 213	EZIS012	Pg 70	GDSR10S	Pg 114	GPA1523K	Pg 84
CBSB5NF	Pg 72	CK103FNUT	Pg 213	EZIS038	Pg 70	GDSR15S	Pg 114	GPA1524K	Pg 84
CBSB5NF	Pg 72	CK103FNUT	Pg 213	EZISMIL	Pg 69	GDSRSDMK	Pg 109	GPA1525	Pg 86
CBSB5NF	Pg 72	CK103FNUT	Pg 213	F5505	Pg 82	GDSRSDMKK	Pg 109	GPA1526X10	Pg 85
CBSB5NF	Pg 72	CK103FNUT	Pg 213	F5565	Pg 82	GDSSCR6	Pg 111	GPA1527X10	Pg 85
CBSB5NF	Pg 72	CK103FNUT	Pg 213	F6501	Pg 82	GDSSDC	Pg 109	GPA1528X10	Pg 85
CBSB5NF	Pg 72	CK103FNUT	Pg 213	F6505	Pg 82	GDSSDP	Pg 109	GPA1529X10	Pg 85
CBSB5NF	Pg 72	CK103FNUT	Pg 213	F6561	Pg 82	GDSTSDMK	Pg 111	GPA1530X10	Pg 85
CBSB5NF	Pg 72	CK103FNUT	Pg 213	F6565	Pg 82	GDSV2	Pg 111	GPA1531X10	Pg 85
CBSB5NF	Pg 72	CK103FNUT	Pg 213	FDS01	Pg 195	GDSV4	Pg 112	GPA1565	Pg 33
CBSB5NF	Pg 72	CK103FNUT	Pg 213	FO306	Pg 145	GDSVT	Pg 112	GPA1570	Pg 36
CBSB5NF	Pg 72	CK103FNUT	Pg 213	FO308	Pg 145	GFWK	Pg 84	GPA1570W	Pg 36
CBSB5NF	Pg 72	CK103FNUT	Pg 213	FO604	Pg 145	GGPS	Pg 107	GPA1571	Pg 36
CBSB5NF	Pg 72	CK103FNUT	Pg 213	FO605	Pg 145	GHF60AS	Pg 36	GPA1575	Pg 86
CBSB5NF	Pg 72	CK103FNUT	Pg 213	FP17099	Pg 80	GN80	Pg 114	GPA1594	Pg 93
CBSB5NF	Pg 72	CK103FNUT	Pg 213	FP20015	Pg 79	GP102KD	Pg 31	GPA1596	Pg 93

PART NUMBER INDEX

GPA1600	Pg 108	GXLS1218	Pg 90	HAK23	Pg 142	KP1475	Pg 50	NM5RNA	Pg 138
GPA2001A-1	Pg 83	GXLS1219	Pg 90	HAK31	Pg 142	KP1635	Pg 52	NM6PNS	Pg 138
GPA2001A-2	Pg 83	GXLS1221	Pg 90	HAK33	Pg 144	KP1835	Pg 52	NM6RNA	Pg 138
GPA2001A-3	Pg 83	GXLS1222	Pg 90	HAK34	Pg 144	KP1838A-P	Pg 52	NM8PNS	Pg 138
GPA2001A-4	Pg 83	GXLS1224	Pg 90	HAK35	Pg 144	KP2219	Pg 54	NM8RNA	Pg 138
GPA2001A-5	Pg 83	GXLS1227	Pg 90	HAK36	Pg 143	KP2306	Pg 54	PBG-N	Pg 37
GPA2311	Pg 89	GXLS1230	Pg 90	HAK37	Pg 137	KP2410	Pg 54	PMC50	Pg 86
GPA50	Pg 84	GXLS1232	Pg 90	HAK38	Pg 143	KP4210VK	Pg 56	POR35F12	Pg 181
GPA57	Pg 89	GXLS3417	Pg 90	HAK39	Pg 136	KP4253-MK	Pg 56	POR375F12	Pg 182
GPA6200	Pg 35	GXLS3418	Pg 90	HAK40	Pg 142	KP4613	Pg 54	POR37B16	Pg 182
GPA70	Pg 89	GXLS3419	Pg 90	HB210B	Pg 146	KP4711PH	Pg 55	POR37J6	Pg 182
GPA70X2	Pg 89	GXLS3421	Pg 90	HB210R	Pg 146	KP4722P	Pg 55	POR40B16	Pg 182
GPA75	Pg 84	GXLS3422	Pg 90	HB220B	Pg 146	KP4733	Pg 56	POR40B18	Pg 182
GPA9100A	Pg 100	GXLS3424	Pg 90	HB220R	Pg 146	KP4735S3H	Pg 56	POR40J3	Pg 182
GPASB100	Pg 34	GXLS3427	Pg 90	HB230B	Pg 146	KP6226	Pg 55	POR40J6	Pg 182
GPATA2	Pg 99	GXLS3430	Pg 90	HB230R	Pg 146	KP6628	Pg 55	PORA08F38R	Pg 183
GPATA3	Pg 99	GXLS3432	Pg 90	HB235B	Pg 146	KP6635	Pg 55	PORA10F12R	Pg 183
GPATA4	Pg 99	GXLS3433	Pg 90	HB235CL	Pg 146	KP6712	Pg 55	PORA10F38R	Pg 183
GPATC2	Pg 36	GXLS3434	Pg 90	HB235R	Pg 146	KP6970SL	Pg 55	PORA13B16	Pg 183
GPATPG	Pg 35	GXLS3436	Pg 90	HB239B	Pg 146	KPAC050	Pg 54	PORA13F12R	Pg 183
GPAYA122	Pg 99	GXLS3438	Pg 90	HB239R	Pg 146	KPAC10021AH	Pg 56	PORA13F38R	Pg 183
GPAYA123	Pg 99	GXLS3808	Pg 90	HB250B	Pg 146	KPAC10022AH	Pg 56	PORA13J6	Pg 183
GPAYA2	Pg 99	GXLS3810	Pg 90	HB250CL	Pg 146	LCKS08	Pg 239	PORAP16B16	Pg 183
GPAYA3	Pg 99	GXLS3812	Pg 90	HB250R	Pg 146	LCKS10	Pg 239	PORAP16B18	Pg 183
GPB90K	Pg 36	GXLS3813	Pg 90	HB4068B	Pg 153	LCKS12	Pg 239	PORAP16F12R	Pg 183
GPH1003LBHL	Pg 98	GXLS3814	Pg 90	HD1641	Pg 149	LCKS14	Pg 239	PORAP16J6	Pg 183
GPH1006LBHL	Pg 98	GXLS3815	Pg 90	HD1641DIV	Pg 149	LCKS16	Pg 239	PORAP20J3	Pg 183
GPH1008LBHL	Pg 98	GXLS3816	Pg 90	HD318	Pg 151	MAMT3XJ6	Pg 191	PORDR12	Pg 185
GPH1010LBHL	Pg 98	GXLS3817	Pg 90	HD515	Pg 151	MAMT3XJ6L	Pg 191	PORDR23	Pg 185
GPH1206LBHL	Pg 98	GXLS3818	Pg 90	HD530	Pg 151	MAR100B06	Pg 229	PORDR34	Pg 185
GPH1208LBHL	Pg 98	GXLS3819	Pg 90	HG255	Pg 158	MAR50A04	Pg 229	PORDR45	Pg 185
GPH1210LBHL	Pg 98	GXLS3820	Pg 90	HG477	Pg 158	MAR63A05	Pg 229	PORKH810B	Pg 185
GPH1212LBHL	Pg 98	GXLS3821	Pg 90	HG497	Pg 158	MAR80B06	Pg 229	PORKLOB	Pg 185
GPHR1012	Pg 98	GXLS3822	Pg 90	HP1	Pg 147	MB001	Pg 188	PORKS1B	Pg 185
GPHR1220	Pg 98	GXLS3824	Pg 90	HP1KITB	Pg 147	MRE001	Pg 188	PORKS2B	Pg 185
GPK2	Pg 84	GXTH3	Pg 108	HP1KITR	Pg 147	MRT001	Pg 188	PORKS3B	Pg 185
GPK3	Pg 84	GXTIP13	Pg 106	HP50AM	Pg 238	MS100TX32	Pg 230	PORLDP10F12R	Pg 181
GS101-4	Pg 197	GXTX13	Pg 106	HP50ZM	Pg 238	MS20020	Pg 147	PORLDP10F38R	Pg 181
GS101-5	Pg 197	GXWEBS12	Pg 92	HV10	Pg 198	MS20020K	Pg 147	PORLDP13F12R	Pg 181
GS101-6	Pg 197	GXWEBS14	Pg 92	HV12	Pg 198	MS50T	Pg 230	PORLDP13F38R	Pg 181
GSDS	Pg 108	GXWEBS38	Pg 92	HV14	Pg 198	MS63TX27	Pg 230	PORPN32F38	Pg 181
GT3S	Pg 153	GYC601-10	Pg 186	HV16	Pg 198	MS75TX27	Pg 230	PORPN35F38	Pg 181
GT3SD	Pg 153	GYC601-12	Pg 186	HV4	Pg 198	MSFO4568	Pg 145	PORPN375F38	Pg 182
GTB28B	Pg 154	GYC602-10	Pg 186	HV6	Pg 198	MSFO4568X2	Pg 145	PORRAC3812FB	Pg 185
GTB28BTK	Pg 154	GYC602-12	Pg 186	HV8	Pg 198	MSNT40X30	Pg 227	PORRACX1	Pg 185
GTB28T	Pg 154	GYC602-3	Pg 186	JI12	Pg 244	MSNT50X40	Pg 227	PORRADACL	Pg 184
GTB43B	Pg 155	GYC602-4	Pg 186	JITIP1	Pg 243	MTP001	Pg 188	PORRADAV360CL	Pg 184
GTB43BTK	Pg 155	GYC602-5	Pg 186	JITIP2	Pg 243	MW001	Pg 188	PORTS13F12R	Pg 181
GTB43T	Pg 155	GYC602-6	Pg 186	JITIP3	Pg 243	NC20020SF	Pg 104	PORTS13F38R	Pg 181
GTP162214	Pg 83	GYC602-8	Pg 186	JITIP4	Pg 243	NC20020SH	Pg 105	PS32008	Pg 67
GTP162258	Pg 83	GYC607-3	Pg 186	JITIP5	Pg 243	NC20020SM	Pg 103	PS32012	Pg 67
GTP1736	Pg 83	GYC607-4	Pg 186	JITIP6	Pg 243	NC20030SF	Pg 104	PS81812	Pg 67
GTP1737	Pg 83	GYC607-5	Pg 186	JITIP7	Pg 243	NC20030SH	Pg 105	PS81813	Pg 67
GVSR	Pg 197	GYC607-6	Pg 186	JITIP8	Pg 243	NC20030SM	Pg 103	PS81814	Pg 67
GX12HBSI	Pg 92	GYC607-8	Pg 186	JITIPKIT	Pg 243	NC20040SF	Pg 104	PS81818	Pg 67
GX12HBSM	Pg 92	GYC610-3	Pg 187	K2MT2	Pg 231	NC20040SH	Pg 105	PS81820	Pg 67
GX12SE	Pg 93	GYC610-6	Pg 187	K320M08	Pg 57	NC20040SM	Pg 103	PS81825	Pg 67
GX12U	Pg 93	HAC-102	Pg 88	K320M12	Pg 57	NHA3645K	Pg 153	PSH81813	Pg 67
GX1312SSI	Pg 91	HAC-103	Pg 88	K3MT3	Pg 231	NHD500	Pg 152	PSH81814	Pg 67
GX1312SSM	Pg 91	HAC-107	Pg 88	K4MT3	Pg 231	NHD530	Pg 151	PSH81818	Pg 67
GX34SE	Pg 93	HAC-109	Pg 88	K818M13	Pg 58	NHD560	Pg 152	PSH81820	Pg 67
GX34U	Pg 93	HAC-112	Pg 88	K818M14	Pg 58	NIT10PM	Pg 103	PSK320M10	Pg 66
GX38U	Pg 93	HAC-126	Pg 88	K818M18	Pg 58	NIT20PF	Pg 104	PSK81823A	Pg 66
GX5AS	Pg 91	HAC-130	Pg 88	K818M25	Pg 58	NIT20PH	Pg 105	PSK81826A	Pg 66
GX834SSI	Pg 91	HAC-133	Pg 88	K818P12	Pg 64	NIT20PM	Pg 103	PT02	Pg 65
GX834SSM	Pg 91	HAC-136	Pg 88	K818P15	Pg 64	NIT20SF	Pg 104	PT10	Pg 65
GX838SSI	Pg 91	HAK01	Pg 139	K818P18	Pg 64	NIT20SH	Pg 105	PT20	Pg 65
GX838SSM	Pg 91	HAK02	Pg 139	K818P20	Pg 64	NIT20SM	Pg 103	PT2301	Pg 89
GX91SSI	Pg 91	HAK03	Pg 139	K818P25	Pg 64	NIT30PF	Pg 104	PT301A18	Pg 89
GX91SSM	Pg 91	HAK04	Pg 140	K818S13	Pg 59	NIT30PH	Pg 105	PT301A24	Pg 89
GXBWS3417	Pg 90	HAK05	Pg 140	K818S18	Pg 59	NIT30PM	Pg 103	PT301A32	Pg 89
GXBWS3419	Pg 90	HAK06	Pg 141	K818S20	Pg 59	NIT30SF	Pg 104	PW10LTRK12	Pg 62
GXBWS3421	Pg 90	HAK07	Pg 141	K818S25	Pg 59	NIT30SH	Pg 105	PW10LTRK15	Pg 62
GXFS121719	Pg 90	HAK08	Pg 136	KH818M13	Pg 60	NIT30SM	Pg 103	PW10LTRK18	Pg 62
GXHAK131	Pg 106	HAK09	Pg 137	KH818M14	Pg 60	NIT40PF	Pg 104	PW10LTRK20	Pg 62
GXHAK19M	Pg 106	HAK10	Pg 136	KH818M18	Pg 60	NIT40PH	Pg 105	PW10LTRK25	Pg 62
GXHAK34I	Pg 106	HAK11	Pg 137	KH818S18	Pg 61	NIT40PM	Pg 103	PW20LTRK12	Pg 63
GXHAK9M	Pg 106	HAK12	Pg 136	KP1018-2	Pg 50	NIT40SF	Pg 104	PW20LTRK15	Pg 63
GXHP4	Pg 108	HAK13	Pg 141	KP1018	Pg 50	NIT40SH	Pg 105	PW20LTRK18	Pg 63
GXIA5	Pg 91	HAK14	Pg 141	KP1023-6	Pg 51	NIT40SM	Pg 103	PW20LTRK20	Pg 63
GXLS1210	Pg 90	HAK15	Pg 138	KP1023	Pg 51	NITRL20PM	Pg 104	PW20LTRK25	Pg 63
GXLS1212	Pg 90	HAK16	Pg 138	KP1030-6	Pg 51	NITRL30PM	Pg 104	PW2LTRK12	Pg 62
GXLS1213	Pg 90	HAK17	Pg 137	KP1030	Pg 51	NM10PNS	Pg 138	PW2LTRK15	Pg 62
GXLS1214	Pg 90	HAK18	Pg 143	KP1045-8	Pg 53	NM10RNA	Pg 138	PW2LTRK18	Pg 62
GXLS1215	Pg 90	HAK19	Pg 143	KP1045	Pg 52	NM4PNS	Pg 138	PW2LTRK20	Pg 62
GXLS1216	Pg 90	HAK20	Pg 140	KP1050	Pg 53	NM4RNA	Pg 138	PW2LTRK25	Pg 62
GXLS1217	Pg 90	HAK22	Pg 142	KP1469	Pg 50	NM5PNS	Pg 138	RT6558	Pg 237

PART NUMBER INDEX

S08K-SCLCR-06	Pg 248	SNPRO3000	Pg 115	V106M	Pg 220	V219I	Pg 222	V40090L	Pg 218
S10M-SCLCR-06	Pg 248	SNSC456	Pg 116	V107I	Pg 220	V219M	Pg 222	V40100	Pg 217
S12M-CTFPR-11	Pg 248	SNSC50	Pg 115	V107M	Pg 220	V232M	Pg 220	V40100L	Pg 218
S12M-SCLCR-06	Pg 248	SOLOIL1	Pg 235	V108I	Pg 220	V25000	Pg 216	V40110	Pg 217
S12M-SCLCR-09	Pg 248	SOLOIL20	Pg 235	V108M	Pg 220	V25020	Pg 217	V40110L	Pg 218
S16R-CTFPR-11	Pg 248	SOLOIL5	Pg 235	V11000	Pg 216	V25030	Pg 217	V40120	Pg 217
S16R-SCLCR-09	Pg 248	SP200	Pg 242	V11010	Pg 217	V25040	Pg 217	V40120L	Pg 218
S20S-CTFPR-11	Pg 248	SP300	Pg 242	V11015	Pg 217	V25040L	Pg 218	V40130	Pg 217
S20S-CTFPR-16	Pg 248	SPB226	Pg 242	V11020	Pg 217	V25050	Pg 217	V40130L	Pg 218
S20S-SCLCR-09	Pg 248	SPB232	Pg 242	V11025	Pg 217	V25050L	Pg 218	V40140	Pg 217
S25T-CTFPR-16	Pg 248	SPB326	Pg 242	V11030	Pg 217	V25060	Pg 217	V40140L	Pg 218
S32U-CTFPR-16	Pg 248	SPB332	Pg 242	V11035	Pg 217	V25060L	Pg 218	V40150	Pg 217
SB3CF	Pg 125	ST2460	Pg 150	V11040	Pg 217	V25070	Pg 217	V40150L	Pg 218
SBBI0BLUE	Pg 87	ST2DIV	Pg 149	V11045	Pg 217	V25070L	Pg 218	V40160	Pg 217
SBBI10BROWN	Pg 87	ST2DRAW	Pg 149	V11050	Pg 217	V25080	Pg 217	V40160L	Pg 218
SBBI10X460BLUE	Pg 87	SV125	Pg 209	V11055	Pg 217	V25080L	Pg 218	V40170	Pg 217
SBBI10X460BROWN	Pg 87	SV62	Pg 209	V11060	Pg 217	V25090	Pg 217	V40170L	Pg 218
SBBI20BLUE	Pg 87	SV85	Pg 209	V11065	Pg 217	V25090L	Pg 218	V40180	Pg 217
SBBI20BROWN	Pg 87	TC12	Pg 194	V11070	Pg 217	V25100	Pg 217	V40180L	Pg 218
SBBIKEHOLDER	Pg 125	TC40	Pg 194	V14016	Pg 193	V25100L	Pg 218	V40190	Pg 217
SBCCAMPINGBULB	Pg 125	THB20PFA	Pg 101	V16000	Pg 216	V25110	Pg 217	V40190L	Pg 218
SBCC	Pg 125	THB20PHA	Pg 101	V16010	Pg 217	V25110L	Pg 218	V40200	Pg 217
SBQ1	Pg 117	THB20PMA	Pg 101	V16020	Pg 217	V25120	Pg 217	V40200L	Pg 218
SBQ1mini	Pg 117	THB20SFT	Pg 102	V16030	Pg 217	V25120L	Pg 218	V40210	Pg 217
SBQ1prime	Pg 117	THB20SHT	Pg 102	V16035	Pg 217	V25130	Pg 217	V40210L	Pg 218
SBQ2	Pg 118	THB20SMT	Pg 102	V16040	Pg 217	V25130L	Pg 218	V40220	Pg 217
SBQ3	Pg 118	THB30PFA	Pg 101	V16040L	Pg 218	V25140	Pg 217	V40220L	Pg 218
SBQ3classic	Pg 118	THB30PHA	Pg 101	V16050	Pg 217	V25140L	Pg 218	V40230	Pg 217
SBQ3defend	Pg 120	THB30PMA	Pg 101	V16050L	Pg 218	V25150	Pg 217	V40230L	Pg 218
SBQ3r	Pg 121	THB30PPA	Pg 100	V16060	Pg 217	V25150L	Pg 218	V40240	Pg 217
SBQ3RBAT	Pg 125	THB30SFT	Pg 102	V16060L	Pg 218	V25160	Pg 217	V40240L	Pg 218
SBQ3W	Pg 125	THB30SHT	Pg 102	V16065	Pg 217	V25160L	Pg 218	V40250	Pg 217
SBQ4xr	Pg 122	THB30SMT	Pg 102	V16070	Pg 217	V25TRAY	Pg 219	V40250L	Pg 218
SBQ7BAT	Pg 125	THB30SPT	Pg 100	V16070L	Pg 218	V2V	Pg 203	V40260	Pg 217
SBQ7compact	Pg 119	THB40PFA	Pg 101	V16080	Pg 217	V302	Pg 219	V40260L	Pg 218
SBQ7defend	Pg 120	THB40PHA	Pg 101	V16080L	Pg 218	V313	Pg 222	V405I	Pg 219
SBQ7xr	Pg 122	THB40PMA	Pg 101	V16090	Pg 217	V315	Pg 222	V405M	Pg 219
SBQ950.030	Pg 125	THB40PPA	Pg 100	V16090L	Pg 218	V316	Pg 222	V406I	Pg 219
SBQ950.043	Pg 125	THB40SFT	Pg 102	V16100	Pg 217	V32000	Pg 216	V406M	Pg 219
SBQ950.044	Pg 125	THB40SHT	Pg 102	V16100L	Pg 218	V32030	Pg 217	V407I	Pg 219
SBQ950.070	Pg 125	THB40SMT	Pg 102	V16TRAY	Pg 219	V32040	Pg 217	V407M	Pg 219
SBQ9950026	Pg 125	THB40SPT	Pg 100	V20000	Pg 216	V32040L	Pg 218	V408I	Pg 219
SBQ9950044	Pg 125	THBBOWL	Pg 97	V20020	Pg 217	V32050	Pg 217	V408M	Pg 219
SBQWC	Pg 125	THBC202	Pg 94	V20030	Pg 217	V32050L	Pg 218	V40TRAY	Pg 219
SBU1626	Pg 242	THBD704A	Pg 96	V20040	Pg 217	V32060	Pg 217	V410M	Pg 219
SBU2026	Pg 242	THBF804	Pg 96	V20040L	Pg 218	V32060L	Pg 218	V411M	Pg 219
SBU2032	Pg 242	THBFLR802	Pg 94	V20050	Pg 217	V32070	Pg 217	V421I	Pg 221
SBU2532	Pg 242	THBFLR804	Pg 94	V20050L	Pg 218	V32070L	Pg 218	V421M	Pg 221
SBV3air	Pg 123	THBFR212	Pg 94	V20060	Pg 217	V32080	Pg 217	V423I	Pg 221
SBV3airR	Pg 124	THBFR802	Pg 95	V20060L	Pg 218	V32080L	Pg 218	V423M	Pg 221
SBV3pro	Pg 123	THBFR803	Pg 95	V20070	Pg 217	V32090	Pg 217	V424I	Pg 221
SBV3proR	Pg 124	THBFR804	Pg 95	V20070L	Pg 218	V32090L	Pg 218	V424M	Pg 221
SBV4proR	Pg 124	THBFR926A	Pg 95	V20080	Pg 217	V32100	Pg 217	V426I	Pg 221
SG002	Pg 65	THBFR928A	Pg 95	V20080L	Pg 218	V32100L	Pg 218	V426M	Pg 221
SG004	Pg 65	THBFRL803	Pg 94	V20090	Pg 217	V32110	Pg 217	V429M	Pg 221
SG017A	Pg 66	THBL802	Pg 96	V20090L	Pg 218	V32110L	Pg 218	V432I	Pg 221
SG029	Pg 66	THBL803	Pg 96	V20100	Pg 217	V32120	Pg 217	V432M	Pg 221
SG039	Pg 66	THBL804	Pg 96	V20100L	Pg 218	V32120L	Pg 218	V4V	Pg 203
SG420A	Pg 57	THBPG15BIP	Pg 97	V20110	Pg 217	V32130	Pg 217	V50000	Pg 216
SIP10MMXP100	Pg 87	THBR202	Pg 96	V20110L	Pg 218	V32130L	Pg 218	V501	Pg 220
SIP10MMXP120	Pg 87	THD2S	Pg 150	V20120	Pg 217	V32140	Pg 217	V50120	Pg 217
SIP10MMXP40	Pg 87	THD3B	Pg 237	V20120L	Pg 218	V32140L	Pg 218	V50140	Pg 217
SIP10MMXP60	Pg 87	THR2032	Pg 242	V20130	Pg 217	V32150	Pg 217	V50160	Pg 217
SIP10MMXP80	Pg 87	THR2532	Pg 242	V20130L	Pg 218	V32150L	Pg 218	V50180	Pg 217
SIP20MMXP100	Pg 87	TS1	Pg 199	V2011	Pg 222	V32160	Pg 217	V502	Pg 220
SIP20MMXP120	Pg 87	TS12	Pg 86	V201M	Pg 222	V32160L	Pg 218	V50200	Pg 217
SIP20MMXP40	Pg 87	TS2	Pg 199	V203I	Pg 222	V32170	Pg 217	V50220	Pg 217
SIP20MMXP60	Pg 87	TS3	Pg 199	V203M	Pg 222	V32170L	Pg 218	V50240	Pg 217
SIP20MMXP80	Pg 87	TS4	Pg 199	V204I	Pg 222	V32180	Pg 217	V50260	Pg 217
SIP30MMXP40	Pg 87	TV102-4	Pg 196	V204M	Pg 222	V32180L	Pg 218	V50280	Pg 217
SIP30MMXP60	Pg 87	TV102-6	Pg 196	V206I	Pg 222	V32190	Pg 217	V503	Pg 220
SIP30MMXP80	Pg 87	TV122-8	Pg 196	V206M	Pg 222	V32190L	Pg 218	V50300	Pg 217
SL1X2	Pg 192	TV144-4	Pg 196	V207I	Pg 222	V32200	Pg 217	V50320	Pg 217
SL1X3	Pg 192	TV144-6	Pg 196	V207M	Pg 222	V32200L	Pg 218	V50340	Pg 217
SL1X4	Pg 192	TV274	Pg 196	V209I	Pg 222	V32TRAY	Pg 219	V504	Pg 220
SL2X3	Pg 192	TV275	Pg 196	V209M	Pg 222	V40000	Pg 216	V505	Pg 220
SL2X4	Pg 192	V101I	Pg 220	V20TRAY	Pg 219	V40040	Pg 217	V506	Pg 220
SL2X5	Pg 192	V101M	Pg 220	V210I	Pg 222	V40040L	Pg 218	V507	Pg 220
SL3X5	Pg 192	V102I	Pg 220	V210M	Pg 222	V40050	Pg 217	V508	Pg 220
SL4X5	Pg 192	V102M	Pg 220	V212I	Pg 222	V40050L	Pg 218	V509	Pg 220
SL4X6	Pg 192	V103I	Pg 220	V212M	Pg 222	V40060	Pg 217	V509A	Pg 220
SL5X6	Pg 192	V103M	Pg 220	V213I	Pg 222	V40060L	Pg 218	V510	Pg 220
SNAN800	Pg 68	V104I	Pg 220	V213M	Pg 222	V40070	Pg 217	V511	Pg 220
SNHN096	Pg 116	V104M	Pg 220	V216I	Pg 222	V40070L	Pg 218	V513	Pg 220
SNMANM4	Pg 116	V105I	Pg 220	V216M	Pg 222	V40080	Pg 217	V515	Pg 220
SNMANM5	Pg 116	V105M	Pg 220	V217I	Pg 222	V40080L	Pg 218	V516	Pg 220
SNMANM6	Pg 116	V106I	Pg 220	V217M	Pg 222	V40090	Pg 217	V517	Pg 220

PART NUMBER INDEX

V518	Pg 220	VBH109	Pg 233	VI111M	Pg 227	VMP6	Pg 207	VSG06	Pg 189
V523	Pg 220	VBH112	Pg 233	VINT13BT40	Pg 230	VMS2	Pg 235	VSG09	Pg 189
V524	Pg 220	VBHU	Pg 234	VINT13BT50	Pg 230	VMS3	Pg 235	VSG11	Pg 189
V531	Pg 220	VBHU202I	Pg 234	VINT13MT3	Pg 230	VMT2M	Pg 194	VSJ10	Pg 240
V552	Pg 220	VBHU202M	Pg 234	VINT13MT4	Pg 230	VMT3M	Pg 194	VSJ12	Pg 240
V552A	Pg 220	VBHU203M	Pg 234	VINT13NT30I	Pg 231	VMT4M	Pg 194	VSJ150	Pg 205
V554	Pg 220	VBHU205	Pg 234	VINT13NT30M	Pg 231	VMT5M	Pg 194	VSJ250	Pg 205
V557	Pg 220	VBHU206I	Pg 234	VINT13NT40I	Pg 231	VOZ2503	Pg 226	VSJ40	Pg 205
V559	Pg 220	VBHU206M	Pg 234	VINT13NT40M	Pg 231	VOZ2504	Pg 226	VSJ500	Pg 205
V562	Pg 220	VBHU207I	Pg 234	VINT13NT50M	Pg 231	VOZ2505	Pg 226	VSJ6	Pg 240
V603	Pg 222	VBHU207M	Pg 234	VINT13R8	Pg 231	VOZ2506	Pg 226	VSJ70	Pg 205
V606V	Pg 209	VBHU208I	Pg 234	VINT16BT40	Pg 230	VOZ2507	Pg 226	VSJ8	Pg 240
V694A	Pg 222	VBHU208M	Pg 234	VINT16BT50	Pg 230	VOZ2508	Pg 226	VSJA	Pg 205
V6V	Pg 203	VBHU209	Pg 234	VINT16MT3	Pg 230	VOZ2509	Pg 226	VSK10A	Pg 239
V703A	Pg 224	VBHU213	Pg 234	VINT16MT4	Pg 230	VOZ2510	Pg 226	VSK13A	Pg 239
V703B	Pg 224	VCFMT3A	Pg 246	VINT16NT40I	Pg 231	VOZ2511	Pg 226	VSK6A	Pg 239
V704	Pg 224	VCFMT4A	Pg 246	VINT16NT40M	Pg 231	VOZ2512	Pg 226	VSK8A	Pg 239
V704B	Pg 224	VCFMT5A	Pg 246	VINT16R8	Pg 231	VOZ2513	Pg 226	VST16	Pg 216
V705	Pg 224	VCS500	Pg 235	VJ103I	Pg 227	VOZ2514	Pg 226	VST18	Pg 216
V706	Pg 224	VCT512	Pg 204	VJ103M	Pg 227	VOZ2515	Pg 226	VST20	Pg 216
V725	Pg 224	VCT514	Pg 204	VJ106I	Pg 227	VOZ2516	Pg 226	VST22	Pg 216
V726	Pg 224	VCT830	Pg 204	VJ106M	Pg 227	VOZ2517	Pg 226	VTA12JT6	Pg 231
V727	Pg 224	VCV1090	Pg 207	VJ109I	Pg 227	VOZ2518	Pg 226	VTA20M20	Pg 231
V772	Pg 224	VD675	Pg 206	VJ109M	Pg 227	VOZ2519	Pg 226	VTD1	Pg 236
V773	Pg 224	VDK15MT4	Pg 244	VJ123	Pg 227	VOZ2520	Pg 226	VTD2	Pg 236
V800	Pg 223	VDK23MT4	Pg 244	VJ141	Pg 194	VOZ2521	Pg 226	VTSBT40	Pg 236
V801	Pg 223	VDK32MT4	Pg 244	VJ142	Pg 194	VOZ2522	Pg 226	VTSBT50	Pg 236
V802	Pg 223	VET102	Pg 221	VJ143	Pg 194	VOZ2523	Pg 226	VTT2BT40	Pg 237
V803	Pg 223	VET202	Pg 221	VJ400	Pg 209	VOZ2524	Pg 226	VTT2BT50	Pg 237
V804	Pg 223	VET252	Pg 221	VJ500	Pg 209	VOZ2525	Pg 226	VTT5BT40	Pg 237
V805	Pg 223	VET273	Pg 221	VJ600	Pg 209	VOZ2526	Pg 226	VTT5BT50	Pg 237
V806	Pg 223	VET274	Pg 221	VK4	Pg 205	VOZ2527	Pg 226	VTTTBT30	Pg 236
V807	Pg 223	VET303	Pg 221	VK5	Pg 205	VOZ2528	Pg 226	VTTTBT40	Pg 236
V808	Pg 223	VF120M	Pg 228	VK6	Pg 205	VOZ2529	Pg 226	VTTTBT50	Pg 236
V809	Pg 223	VF121M	Pg 228	VK8	Pg 205	VOZ2530	Pg 226	VTTSTBT30	Pg 236
V810A	Pg 223	VF122M	Pg 228	VKC10	Pg 239	VOZ2531	Pg 226	VTTSTBT40	Pg 236
V810C	Pg 223	VF123M	Pg 228	VKC12B	Pg 239	VOZ2532	Pg 226	VTTSTBT50	Pg 236
V810E	Pg 223	VF124M	Pg 228	VKC16	Pg 239	VOZ2533	Pg 226	VTTSHSK63	Pg 236
V811	Pg 223	VF125M	Pg 228	VKC20	Pg 239	VOZ2534	Pg 226	VTW30	Pg 236
V812	Pg 223	VF126M	Pg 228	VKC25	Pg 239	VOZ2535	Pg 226	VTW40	Pg 236
V813	Pg 223	VF128M	Pg 228	VKC4	Pg 239	VOZ2536	Pg 226	VTW50	Pg 236
V814	Pg 223	VF129M	Pg 228	VKC5	Pg 239	VOZ2537	Pg 226	VU150	Pg 200
V815	Pg 223	VF130M	Pg 228	VKC6	Pg 239	VOZ2538	Pg 226	VU200	Pg 200
V816	Pg 223	VF131M	Pg 228	VKC8	Pg 239	VOZ2539	Pg 226	VUT10	Pg 200
V818	Pg 223	VF134	Pg 228	VKD102	Pg 193	VOZ2540	Pg 226	VUT12	Pg 200
V820	Pg 223	VF135	Pg 228	VKD102SPANNER	Pg 193	VOZ25N	Pg 226	VW3	Pg 208
V821	Pg 223	VF135A	Pg 228	VKD104	Pg 193	VOZ25W	Pg 226	VW4	Pg 208
V822	Pg 223	VF136	Pg 228	VKD104SPANNER	Pg 193	VP018	Pg 201	VW5	Pg 208
V823	Pg 223	VF136A	Pg 228	VKD12003	Pg 193	VP033	Pg 201	VWS125	Pg 200
V824	Pg 223	VF136AM	Pg 228	VLC112	Pg 244	VP050	Pg 201	YC516	Pg 107
V8V	Pg 203	VF136B	Pg 228	VLC113	Pg 244	VP064	Pg 201		
VA4	Pg 206	VF136M	Pg 228	VLC114	Pg 244	VP100	Pg 201		
VA5	Pg 206	VF137	Pg 228	VLC115	Pg 244	VP118A	Pg 201		
VA6	Pg 206	VF137M	Pg 228	VLC116	Pg 244	VP128A	Pg 201		
VA8	Pg 206	VF138	Pg 228	VLC172	Pg 245	VP136	Pg 201		
VACP1	Pg 195	VFC20	Pg 231	VLC173	Pg 245	VP163	Pg 201		
VAF6	Pg 207	VFC21	Pg 231	VLC174	Pg 245	VP180	Pg 204		
VAF8	Pg 207	VFC30	Pg 231	VLC212	Pg 245	VP250	Pg 204		
VBC006	Pg 203	VFC31	Pg 231	VLC213	Pg 245	VP380	Pg 204		
VBC009	Pg 203	VGC3775B	Pg 216	VLC214	Pg 245	VP600	Pg 204		
VBC243	Pg 203	VGC3833F	Pg 216	VLC215	Pg 245	VPCMT1	Pg 245		
VBC2M	Pg 232	VGC3860F	Pg 216	VLC312	Pg 246	VPCMT2	Pg 245		
VBC3M	Pg 232	VGC4550F	Pg 216	VLC313	Pg 246	VPCMT3	Pg 245		
VBC4M	Pg 232	VGC4585B	Pg 216	VLC314	Pg 246	VPCMT4	Pg 245		
VBCBT40	Pg 232	VH4	Pg 208	VLC423	Pg 247	VPS201	Pg 238		
VBCBT50	Pg 232	VH5	Pg 208	VLC433	Pg 247	VPS20B	Pg 238		
VBCMT3	Pg 232	VH6	Pg 208	VLC434	Pg 247	VPS301	Pg 238		
VBCMT4I	Pg 232	VH8	Pg 208	VLC436	Pg 247	VPS302	Pg 238		
VBCMT4M	Pg 232	VHC05	Pg 240	VLC443	Pg 247	VPS401	Pg 238		
VBCNT30I	Pg 232	VHC06	Pg 240	VLC444	Pg 247	VQ122	Pg 227		
VBCNT30M	Pg 232	VHC08	Pg 240	VLC445	Pg 247	VQ123	Pg 227		
VBCNT40I	Pg 232	VHC10	Pg 240	VLC446	Pg 247	VR10	Pg 202		
VBCNT40M	Pg 232	VHC12-1	Pg 240	VLC448	Pg 247	VR100	Pg 202		
VBCNT50I	Pg 232	VHC12	Pg 240	VLC455	Pg 247	VR12	Pg 202		
VBCNT50M	Pg 232	VHC15	Pg 240	VLC456	Pg 247	VR120	Pg 202		
VBCR8	Pg 232	VHD1	Pg 190	VLC458	Pg 247	VR6	Pg 202		
VBH	Pg 233	VHO6	Pg 208	VLC458E	Pg 247	VR60	Pg 202		
VBH102M	Pg 233	VHO8	Pg 208	VLC468E	Pg 247	VR8	Pg 202		
VBH103M	Pg 233	VI02M	Pg 227	VLCMT3A	Pg 245	VR80	Pg 202		
VBH104M	Pg 233	VI03M	Pg 227	VLCMT3B	Pg 246	VS100	Pg 202		
VBH105	Pg 233	VI04M	Pg 227	VLCMT4A	Pg 245	VSC10A	Pg 239		
VBH106I	Pg 233	VI05M	Pg 227	VLCMT4B	Pg 246	VSC20A	Pg 239		
VBH106M	Pg 233	VI06M	Pg 227	VLCMT5A	Pg 245	VSC3A	Pg 239		
VBH107I	Pg 233	VI07M	Pg 227	VLCMT5B	Pg 246	VSC4A	Pg 239		
VBH107M	Pg 233	VI08M	Pg 227	VLC6	Pg 206	VSC5A	Pg 239		
VBH108I	Pg 233	VI09M	Pg 227	VMC4	Pg 206	VSC6A	Pg 239		
VBH108M	Pg 233	VI10M	Pg 227	VMC6D	Pg 207	VSC8A	Pg 239		

