



# GROZ



**Measuring Tools • Engineers Tools • Machine Tooling**

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# SECTION 1 SET UP TOOLS

## ENGINEER'S PRECISION SQUARES

INTERNAL & EXTERNAL SQUARENESS AS PER BS 939 GRADE B

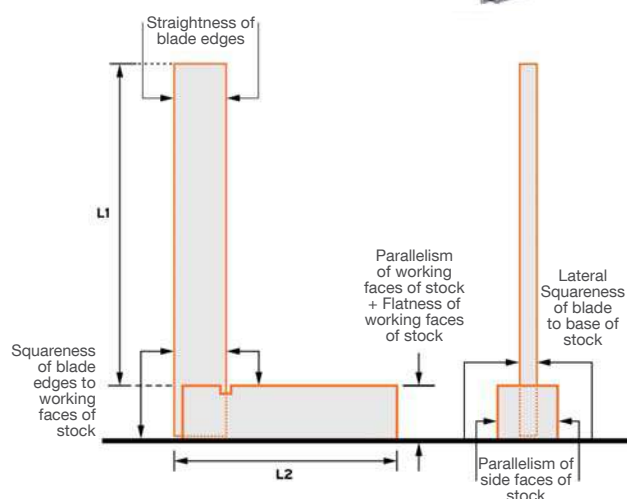
- For setting up & checking jobs where extreme accuracy is required.
- Both the blade and stock are precisely ground to ensure straightness and parallelism. Working edges of the blades are lapped which further enhances accuracy.
- A groove on the inner corner of the stock aids in the clearance of burrs and dirt.

### Price List

Part No.	Description	Blade Length L1	Blade Length L2	\$RRP ex. GST	Disc. Code
GZ-01000	SS/A/2 PRECISION ENGINEERS SQUARE, 50MM	50mm	50mm	\$19.50	A
GZ-01001	SS/A/3 PRECISION ENGINEERS SQUARE, 75MM	75mm	60mm	\$22.50	A
GZ-01002	SS/A/4 PRECISION ENGINEERS SQUARE, 100MM	100mm	75mm	\$27.50	A
GZ-01003	SS/A/6 PRECISION ENGINEERS SQUARE, 150MM	150mm	100mm	\$32.00	A
GZ-01004	SS/A/8 PRECISION ENGINEERS SQUARE, 200MM	200mm	125mm	\$58.00	A
GZ-01006	SS/A/10 PRECISION ENGINEERS SQUARE, 250MM	250mm	165mm	\$90.00	A
GZ-01007	SS/A/12 PRECISION ENGINEERS SQUARE, 300MM	300mm	210mm	\$115.00	A
<b>Set</b>					
GZ-01012	SS/A/2-4-6/ST PRECISION ENGINEERS SQUARE SET, 3 PIECE 50/100/150MM			\$98.00	A
GZ-01011	SS/A/2-3-4-6/ST PRECISION ENGINEERS SQUARE SET, 4 PIECE 50/75/100/150MM			\$120.00	A



**Engineer's Precision Square Set**  
A selection of the most popular sizes available in a convenient and easy to store pack



### Technical Information

Part No.	Straightness of blade edges		Flatness of working faces of stock		Parallelism of working faces of stock		Parallelism of side faces of stock		Squareness of blade edges to working faces of stock		Lateral squareness of blade to base of stock	
	inch	microns	inch	microns	inch	microns	inch	microns	inch	microns	inch	microns
GZ-01000	0.00031	8	0.00016	4	0.0002	5	0.00098	25	0.00063	16	0.00492	125
GZ-01001	0.00031	8	0.00016	4	0.0002	5	0.00098	25	0.00063	16	0.00492	125
GZ-01002	0.00031	8	0.00023	6	0.0002	5	0.00098	25	0.00063	16	0.00984	250
GZ-01003	0.00031	8	0.00023	6	0.0002	5	0.00196	50	0.00063	16	0.00984	250
GZ-01004	0.00031	8	0.00031	8	0.00031	8	0.00196	50	0.00078	20	0.01476	375
GZ-01006	0.00047	12	0.00031	8	0.00031	8	0.00196	50	0.00094	24	0.01476	375
GZ-01007	0.00047	12	0.00031	8	0.00031	8	0.00196	50	0.00094	24	0.01476	375





# MACHINIST'S SQUARES

- Whilst ideal for everyday workshop use, these are also suitable for woodworking applications.
- Made from high grade steel with hardened blade, these squares have accurate right angles both on the inside and outside.
- Both the blade and stock are accurately ground which ensures straightness and parallelism.

## Price List

Part No.	Description	Blade Length L1	Blade Length L2	Squareness of blade edges to working faces of stock (microns)	\$RRP ex. GST	Disc. Code
GZ-01100	SS/2 MACHINISTS SQUARE, 50MM	50mm	50mm	48	\$9.90	A
GZ-01101	SS/3 MACHINISTS SQUARE, 75MM	75mm	60mm	48	\$10.75	A
GZ-01102	SS/4 MACHINISTS SQUARE, 100MM	100mm	75mm	48	\$12.00	A
GZ-01103	SS/6 MACHINISTS SQUARE, 150MM	150mm	100mm	72	\$16.00	A
GZ-01104	SS/8 MACHINISTS SQUARE, 200MM	200mm	125mm	72	\$24.00	A
GZ-01106	SS/10 MACHINISTS SQUARE, 250MM	250mm	165mm	72	\$49.00	A
GZ-01107	SS/12 MACHINISTS SQUARE, 300MM	300mm	210mm	96	\$72.00	A
Set						
GZ-01110	SS/2-3-4-6/ST MACHINISTS SQUARE SET, 4 PIECE 50/75/100/150MM				\$55.00	A



Engineer's Precision Square Set  
A selection of the most popular sizes available in a convenient and easy to store pack

# STRAIGHT EDGES

- Manufactured from high quality spring steel, Straight Edges are fully ground and hand scraped for a perfectly flat surface, making these an extremely accurate tool.
- Used for drawing & scribing straight lines, checking surfaces for straightness, setting up machines such as planers etc.
- Straight Edges have flat edges on both sides.



## Price List

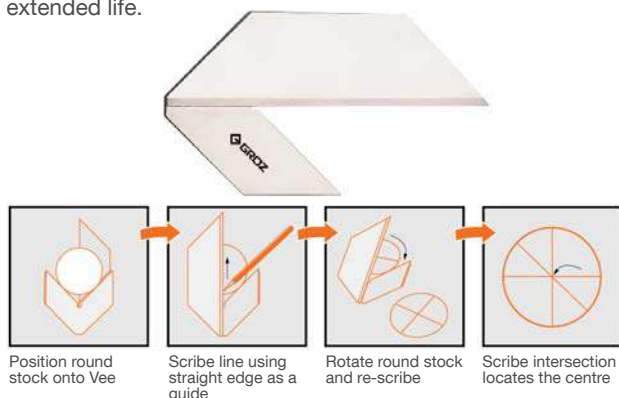
Part No.	Description	Flatness of Edges (Microns)	Parallelism of Faces (Microns)	\$RRP ex. GST	Disc. Code
GZ-02500	SE/12 STRAIGHT EDGE, 300 X 36 X 8MM	12	24	\$95.00	A
GZ-02501	SE/18 STRAIGHT EDGE, 450 X 36 X 8MM	12	24	\$140.00	A
GZ-02502	SE/24 STRAIGHT EDGE, 600 X 36 X 8MM	17	33	\$175.00	A
GZ-02503	SE/36 STRAIGHT EDGE, 900 X 61 X 10MM	21	40	\$360.00	A
GZ-02504	SE/48 STRAIGHT EDGE, 1200 X 61 X 10MM	28	50	\$450.00	A
GZ-02505	SE/60 STRAIGHT EDGE, 1500 X 80 X 10MM	28	50	\$498.00	A
GZ-02506	SE/72 STRAIGHT EDGE, 1800 X 80 X 10MM	38	74	\$650.00	A



Straight Edge being used to check flatness of an engine block.

## CENTRE SQUARE

An extremely useful tool for the machinist on the lathe or the tool maker at the bench for locating centres of round stocks and parts quickly and easily. The Knife edge is made from Spring Steel and is hardened  $40 \pm 5\text{HRC}$  and ground for extended life.



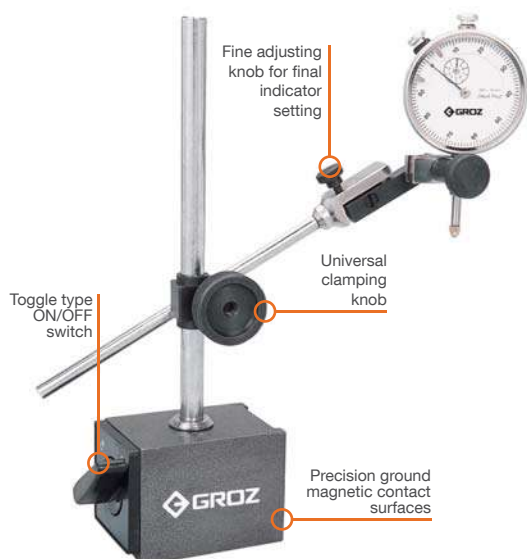
### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-03522	CS/2 CENTRE SQUARE, 75MM	\$36.00	A

## MAGNETIC BASES

### HIGH POWER

- These magnetic bases equipped with powerful permanent magnets can be readily located on any ferrous surface and are ideal for all applications that require a magnetic pull of upto 60 kg (130lbs).
- The base and one side are energised for attachment to flat surfaces. Vee groove in the base facilitates gripping on curved surfaces.
- Unique design allows Dial Indicator to be set at any required position and easily adjusted for use. The bases have an attractive grey hammertone finish, base post and gauge holding rod are chrome plated.
- DIAL GAUGE NOT INCLUDED.



### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-03405	MB/31F HIGH POWER MAGNETIC BASE WITH FINE ADJUST	\$75.00	A

## PARALLEL CLAMPS

- Manufactured from case hardened steel  $45 \pm 5\text{HRC}$ . Parallel Clamps are designed for maximum strength and rigidity.
- All sizes are equipped with a spring clip.
- A retaining ring holds the loose jaw in alignment when the clamp is being opened or closed. The ends of the jaws are rounded to permit clamping under shoulders or in recesses.
- These clamps are extremely useful for holding work together in tapping, drilling.



Parallel Clamps being used to hold a job for a precision drilling operation

### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-35601	PC/1 TOOLMAKERS PARALLEL CLAMPS, 50MM JAW LENGTH, 30MM CAPACITY	\$11.50	A
GZ-35602	PC/2 TOOLMAKERS PARALLEL CLAMPS, 63MM JAW LENGTH, 44MM CAPACITY	\$13.50	A
GZ-35603	PC/3 TOOLMAKERS PARALLEL CLAMPS, 75MM JAW LENGTH, 56MM CAPACITY	\$18.25	A
GZ-35604	PC/4 TOOLMAKERS PARALLEL CLAMPS, 100MM JAW LENGTH, 70MM CAPACITY	\$22.00	A

## MACHINIST'S JACK

- Manufactured from high grade cast steel, the Machinist's Jack has a 1" adjustable screw and tilting swivel head.
- Foor use on drill presses, milling machines, planers etc. any place where leveling is necessary.
- Lifting capacity is approximately 454 kgs (1000 lbs).



### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-14100	MJ/01 MACHINIST'S JACK, 454KG CAPACITY, 25MM HEIGHT ADJUSTMENT	\$9.90	A

## SECTION 2 MEASURING & MARKING TOOLS

### JENNY CALIPERS

#### HERMAPHRODITE CALIPER

- Manufactured from high grade steel, the legs are exceptionally rugged and well finished. The leg that holds the adjustable point is offset. The locating lug is incorporated in the straight leg.
- These are very useful in layout work for locating and testing centres, laying off distances from an edge etc. Working faces hardened to 58 HRC.



Lug provides additional support to the leg

A specific advantage of the Jenny Caliper is that it allows easy marking of arcs along the edge of workpiece



#### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-01540	JC/6 JENNY CALIPER, 150MM	\$9.75	A

### WING COMPASS

- These rugged industrial grade compasses are manufactured from heavy gauge steel with a black powder coated finish.
- The tip is accurately ground. The heavy duty hinge and knurled nut help deliver a smooth action.
- Used for precisely scribing arcs and circles on projects and drawings.



#### Price List

Part No.	Description	Scribing Capacity	\$RRP ex. GST	Disc. Code
GZ-01550	WC/6 WING COMPASS, 150MM	200mm	\$22.00	A
GZ-01551	WC/8 WING COMPASS, 200MM	265mm	\$29.50	A

### SPRING CALIPERS & DIVIDERS

- Calipers are designed for taking comparative measurements and transferring the dimensions to a micrometer, precision rule etc.
- Dividers are used for marking out circles on steel or transferring measurement from master templates.
- Manufactured from high grade steel, calipers and dividers have a spring joint for precision settings. The legs pivot on a roller and are tensioned by bow spring. The fulcrum stud has a large bearing surface that prevents side deflection of legs.
- Divider points are hardened 50-55 HRC for increased wear resistance.



Spring Inside Calipers

Spring Outside Calipers

Spring Dividers

#### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
<b>Spring Inside Calipers</b>			
GZ-01401	ID/4 SPRING INSIDE CALIPERS, 100MM	\$9.50	A
GZ-01402	ID/6 SPRING INSIDE CALIPERS, 150MM	\$11.90	A
GZ-01403	ID/8 SPRING INSIDE CALIPERS, 200MM	\$16.50	A
GZ-01404	ID/10 SPRING INSIDE CALIPERS, 250MM	\$19.75	A
GZ-01405	ID/12 SPRING INSIDE CALIPERS, 300MM	\$24.50	A
<b>Spring Outside Calipers</b>			
GZ-01411	OD/4 SPRING OUTSIDE CALIPERS, 100MM	\$9.50	A
GZ-01412	OD/6 SPRING OUTSIDE CALIPERS, 150MM	\$11.90	A
GZ-01413	OD/8 SPRING OUTSIDE CALIPERS, 200MM	\$16.50	A
GZ-01414	OD/10 SPRING OUTSIDE CALIPERS, 250MM	\$19.75	A
GZ-01415	OD/12 SPRING OUTSIDE CALIPERS, 300MM	\$24.50	A
<b>Spring Dividers</b>			
GZ-01421	DD/4 SPRING DIVIDERS, 100MM	\$9.50	A
GZ-01422	DD/6 SPRING DIVIDERS, 150MM	\$11.90	A
GZ-01423	DD/8 SPRING DIVIDERS, 200MM	\$16.50	A
GZ-01424	DD/10 SPRING DIVIDERS, 250MM	\$19.75	A
GZ-01425	DD/12 SPRING DIVIDERS, 300MM	\$24.50	A

# SPRING CALIPERS & DIVIDERS - PREMIUM

- Precision made to exact standards throughout. Manufactured from high grade steel, the legs are machined to a smooth taper. Fulcrum stud has a large bearing surface preventing side deflection of legs. The finely machined solid nut runs smoothly to secure legs exactly to dimension.
- Divider points are hardened 50-55 HRC for increased wear resistance.



Spring Inside Calipers

Spring Outside Calipers

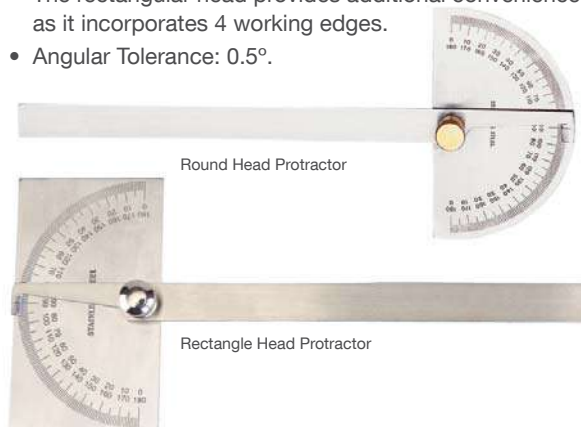
Spring Dividers

## Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
<b>Spring Inside Calipers with Solid Nut</b>			
GZ-01461	ID/SP/4 PREMIUM SPRING INSIDE CALIPERS, 100MM	\$12.50	A
GZ-01462	ID/SP/6 PREMIUM SPRING INSIDE CALIPERS, 150MM	\$16.00	A
GZ-01463	ID/SP/8 PREMIUM SPRING INSIDE CALIPERS, 200MM	\$19.75	A
GZ-01464	ID/SP/10 PREMIUM SPRING INSIDE CALIPERS, 250MM	\$26.50	A
GZ-01465	ID/SP/12 PREMIUM SPRING INSIDE CALIPERS, 300MM	\$32.00	A
<b>Spring Outside Calipers with Solid Nut</b>			
GZ-01471	OD/SP/4 PREMIUM SPRING OUTSIDE CALIPERS, 100MM	\$12.50	A
GZ-01472	OD/SP/6 PREMIUM SPRING OUTSIDE CALIPERS, 150MM	\$16.00	A
GZ-01473	OD/SP/8 PREMIUM SPRING OUTSIDE CALIPERS, 200MM	\$19.75	A
GZ-01474	OD/SP/10 PREMIUM SPRING OUTSIDE CALIPERS, 250MM	\$26.50	A
GZ-01475	OD/SP/12 PREMIUM SPRING OUTSIDE CALIPERS, 300MM	\$32.00	A
<b>Spring Dividers with Solid Nut</b>			
GZ-01481	DD/SP/4 PREMIUM SPRING DIVIDERS, 100MM	\$12.50	A
GZ-01482	DD/SP/6 PREMIUM SPRING DIVIDERS, 150MM	\$16.00	A
GZ-01483	DD/SP/8 PREMIUM SPRING DIVIDERS, 200MM	\$19.75	A
GZ-01484	DD/SP/10 PREMIUM SPRING DIVIDERS CALIPER, 250MM	\$26.50	A
GZ-01485	DD/SP/12 PREMIUM SPRING DIVIDERS CALIPER, 300MM	\$32.00	A
<b>Sets</b>			
GZ-01492	CD/SP/6/ST PREMIUM CALIPER & DIVIDERS SET, 3 PCE 150MM	\$45.00	A
GZ-01493	CD/SP/8/ST PREMIUM CALIPER & DIVIDERS SET, 3 PCE 200MM	\$55.00	A

# DEGREE PROTRACTORS

- Manufactured from stainless steel, the Degree Protractor comes with a semi-circular or a rectangular head.
- The head has permanent deep etched graduations, 0 to 180° in opposite directions thus permitting reading an angle directly and also its supplement.
- The 150 mm blade has a graduation line on one end that permits accurate setting and reading of angles. The blade can be firmly set at the desired angle by means of a knurled nut.
- This is an ideal tool for machinists, draftsmen and mechanics for setting bevels, transferring angles, small squaring tasks, checking cutter clearances within limits etc.
- The rectangular head provides additional convenience as it incorporates 4 working edges.
- Angular Tolerance: 0.5°.



## Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-01220	DP/6 DEGREE PROTRACTOR, ROUND HEAD, 150MM BLADE	\$24.00	A
GZ-01224	DP/R/6 DEGREE PROTRACTOR, RECTANGULAR HEAD, 150MM BLADE	\$24.75	A

# DEPTH & ANGLE GAUGES

- The ability to measure depths and angles is combined in this versatile tool.
- The head is made from high grade steel and has a black finish. It is graduated both left and right to 15°, 30°, 45° and the rule can be set to any of these angles.
- A 150mm (6") steel rule is fitted to the head and can be locked in final position for depth or angular measurements by a knurled nut.



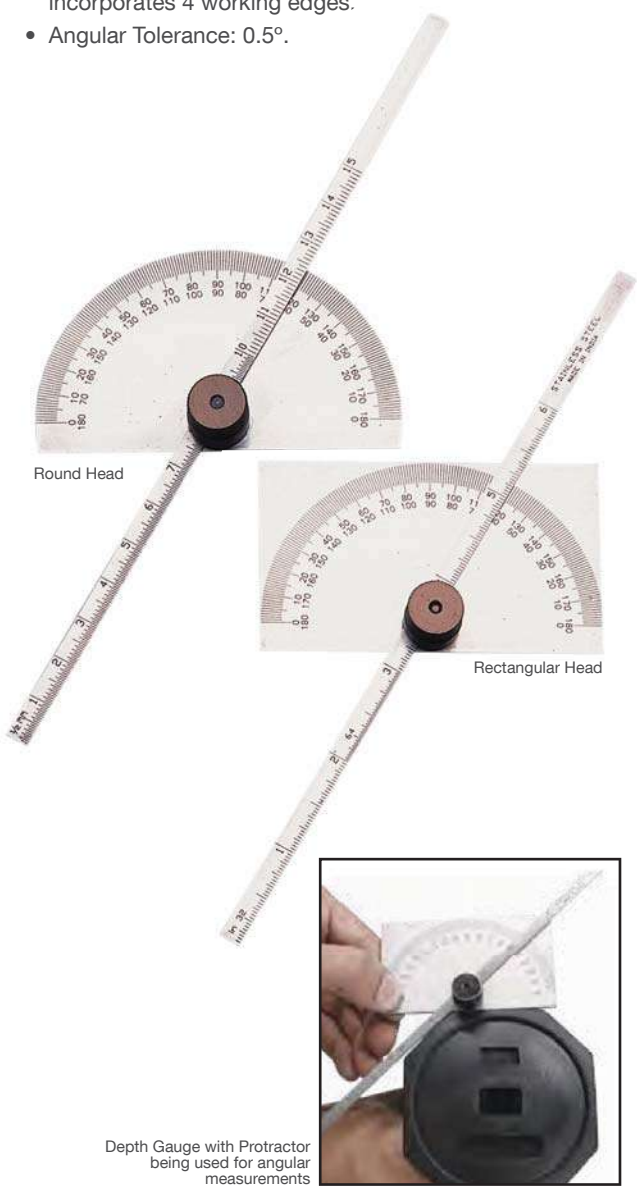
## Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-01214	DG/G DEPTH AND ANGLE GAUGE, 150MM	\$16.50	A



# DEPTH GAUGE WITH PROTRACTOR

- A versatile tool, the Depth Gauge with Protractor allows for measurement of both angles and depths.
- Manufactured from stainless steel, the protractor head has permanent deep etched graduations, 0-180° in opposite directions, thus permitting reading an angle directly and also its supplement.
- Depths are measured by a 150mm (6") steel rule. It is graduated in imperial dimensions on one side and metric on the other and can be set at any desired angle for use as a protractor and lengthwise when used as a depth gauge. A knurled thumbnut locks the rule in the desired position.
- The gauge has a flat surface on the back of the head permitting laying the tool flat upon the work. The rectangular head provides additional convenience as it incorporates 4 working edges.
- Angular Tolerance: 0.5°.



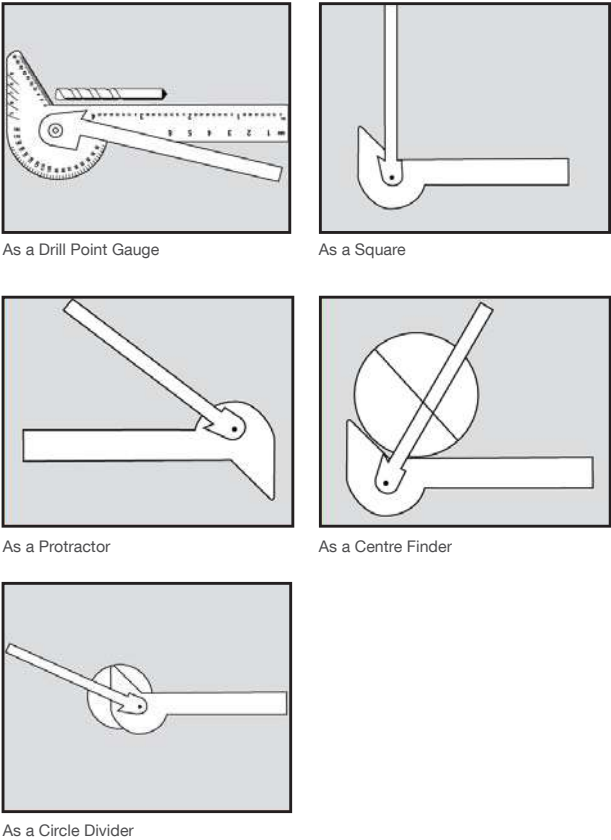
## Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-01221	PDG/6 DEPTH GUAGE & PROTRACTOR, ROUND HEAD, 150MM BLADE	\$25.50	A
GZ-01225	PDG/R/6 DEPTH GUAGE & PROTRACTOR, RECTANGULAR HEAD, 150MM BLADE	\$26.50	A

# MULTI-USE RULE & GAUGE

- Can be used as:
- A Drill Point Gauge for checking 59° angle drill points.
  - A Protractor for measuring and laying out angles.
  - A Centre Finder for locating centres on shafts and circles.
  - A Circle Divider for dividing circles into sectors, polygons and polygrams (up to nine equal parts).
  - Tap and Drill Table shows popular tap sizes and corresponding drills sizes for American National threads.

Manufactured from stainless steel, this multi use tool comes complete with a 100mm (4") rule with permanently etched graduations in millimeters and 64th.



## Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-01240	RNG/4 MULTI-USE RULE & GAUGE, 100MM	\$22.50	A



## STEEL RULES

- Made from stainless steel, these rules have a polished finish with permanently engraved clear to read graduations.
- Available in two types:
  1. Metric & Imperial Combined Rules
  2. Metric Rules
- Metric & Imperial combined rules: These rules are graduated in metric dimensions on one edge and imperial on the other. Imperial dimensions are in 1/16th, 1/32nd & 1/64 ths. Metric dimensions are in 0.5mm & mm. Reverse side of the rule has a permanently engraved metric to imperial conversion table.
- Metric rules: Graduated in metric dimensions 0.5mm & 1mm on both edges.

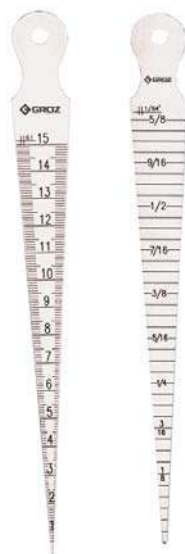
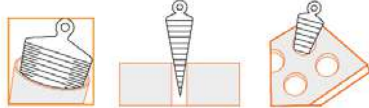


### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
<b>Imperial and Metric</b>			
GZ-01330	SR/6 STEEL RULE, METRIC & IMPERIAL, 150MM / 6"	\$2.50	A
GZ-01331	SR/12 STEEL RULE, METRIC & IMPERIAL, 300MM / 12"	\$5.50	A
GZ-01332	SR/18 STEEL RULE, METRIC & IMPERIAL, 450MM / 18"	\$11.95	A
GZ-01333	SR/24 STEEL RULE, METRIC & IMPERIAL, 600MM / 24"	\$16.00	A
GZ-01334	SR/40 STEEL RULE, METRIC & IMPERIAL, 1000MM / 40"	\$29.00	A
<b>Metric</b>			
GZ-01340	SR/150 STEEL RULE, METRIC, 150MM	\$2.50	A
GZ-01341	SR/300 STEEL RULE, METRIC, 300MM	\$5.50	A
GZ-01342	SR/450 STEEL RULE, METRIC, 450MM	\$11.95	A
GZ-01343	SR/600 STEEL RULE, METRIC, 600MM	\$16.00	A
GZ-01344	SR/1000 STEEL RULE, METRIC, 1000MM	\$29.00	A

## BORE GAUGE (TAPER GAUGE)

- Manufactured from stainless steel with permanently engraved graduations.
- Accurate taper throughout the length of the gauge makes it a convenient tool for measuring diameters of small holes, slots etc.
- With imperial graduations on one side & metric on the other, this is an ideal tool for die makers, machinists and on inspection floors.

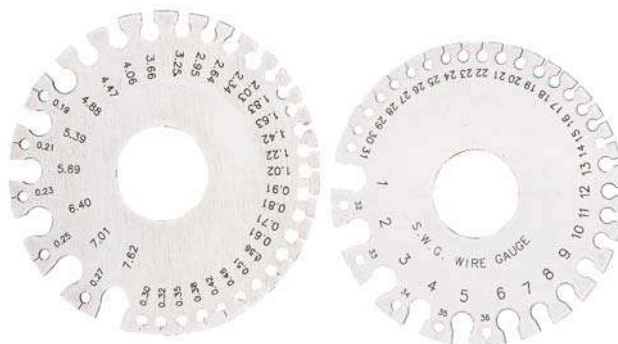


### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-01200	BG/1-15 BORE GAUGE, 1 – 15MM	\$18.00	A

## SHEET METAL & WIRE GAUGES

- Made from heavy gauge hardened stainless steel.
- Designed for measuring steel wire, hot & cold rolled steel sheet etc & check sizes from 0 to 36 gauge.
- The gauge has metric dimensions marked on one side and gauge markings on the other.
- Accuracy : within 100 microns.



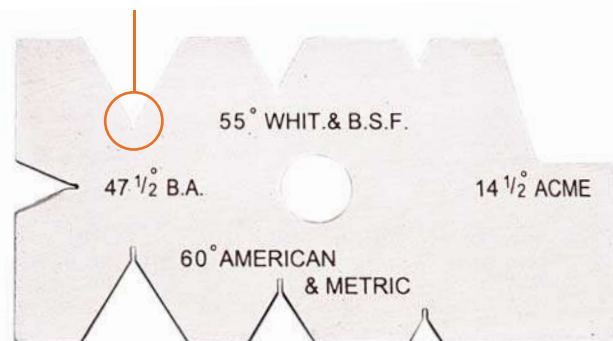
### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-01213	WG/RD/3 SHEET METAL & WIRE GAUGE, 0 – 36 GAUGE	\$34.50	A

## SCREW CUTTING GAUGE

- Manufactured from hardened and polished stainless steel, all gauge surfaces are accurately ground.
- It is most useful for checking tool angle while cutting threads in metal turning lathes. The angle on the thread cutting tool is checked on the V slots in the gauge.

Relief at the end of each slot enables proper seating of the cutting tool in the slot thus ensuring correct angle



The gauge clearly indicates 55° for Whitworth and BSF Threads; 47-1/2° for BA Threads, 60° for Metric and American National Threads and 14-1/2° for Acme threads

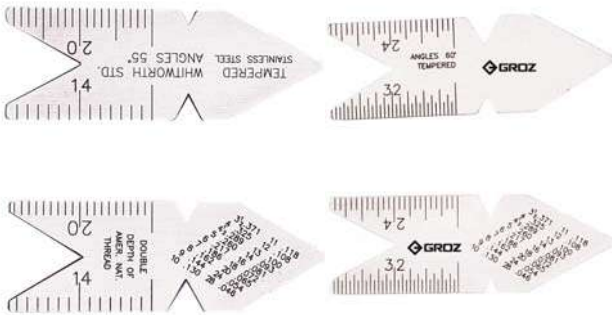
### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-01223	SCG/4714 SCREW CUTTING GAUGE	\$8.25	A



## CENTRE GAUGE

- Manufactured from stainless steel, these small flat gauges have angles of 55° and 60°.
- Very useful for grinding and setting thread cutting tools, these may also be used for checking the pitch of threads through the permanently deep etched graduations in 14ths, 20ths, 24ths and 32nds of an inch.
- These gauges meet the American National or US 60°, Whitworth or English 55° specifications.



### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-01210	CG/55 CENTRE GAUGE, 55 DEGREE	\$8.90	A
GZ-01211	CG/60 CENTRE GAUGE, 60 DEGREE	\$8.90	A

## TWEEZERS SET

- Tweezers are used for picking up small objects that are not easily handled by hands.
- Manufactured from Stainless steel. Tweezers make use of two levers connected at one fixed end called the fulcrum with pincers at the other.
- These are extensively used for servicing & repairs in electronics, computers, instruments, radio and other subminiature assemblies.



### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-03720	TWZ/ST-6 6 PIECE TWEEZER SET	\$39.50	A

## UNIVERSAL SURFACE GAUGES

A basic tool for machinists and toolmakers, the Universal Surface Gauge is used for accurately scribing lines, transferring measurements or probing surfaces in inspection work. Design incorporates:

- A fully hardened and ground base which serves as an accurate reference surface.
- A machined Vee groove in the base allows the gauge to be used conveniently on curved surfaces.
- A Vee groove at the front end allows the spindle to adjust to any angle above or below the base allowing it to be used as a height gauge and also as a depth gauge.
- Two retractable pins allow the gauge to be located against the edge of a surface plate or T-slot for linear work.
- A 6.35 mm hole in the spring loaded scriber holder allows a dial indicator to be attached conveniently making the gauge useful for checking flatness, parallelism, heights, depths etc.
- Grooves on the side of the base allow for comfortable grip.
- Well tapered scriber for better sighting while working. The scriber tip is hardened to 55-60 HRC.



### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-03200	SG/4-7 UNIVERSAL SURFACE GAUGE, 180MM SPINDLE	\$49.50	A
GZ-03201	SG/9-12 UNIVERSAL SURFACE GAUGE, 300MM SPINDLE	\$71.00	A

# ENGINEER'S TOOL SETS

Each set of tools is fitted into a specially designed durable wallet with the contents detailed on the wallet.



- GZ-03600
- Inside Caliper 4" (100mm) (GZ-01401)
  - Outside Caliper 4" (100mm) (GZ-01411)
  - Screw Cutting Gauge
  - Steel Rule 6" (150 mm)
  - Pocket Scriber 3-1/2" (89mm)
  - Centre Punch – 5/32" (4mm)



- GZ-03601
- Engineer's Precision Square 4" (100mm) (GZ-01002)
  - Jenny Caliper 6" (150mm) (GZ-01540)
  - Steel Rule 6" (150 mm)
  - Double Ended Scriber 7-1/2" (190mm) (GZ-03210)
  - Centre Punch (4mm)
  - Adjustable Tap & Reamer Wrench
  - Spring Divider 4" (100mm) (GZ-01421)

## Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-03600	ETS/1/ST ENGINEERS TOOL SET, 6 PCE	\$45.75	A
GZ-03601	ETS/2/ST ENGINEERS TOOL SET, 7 PCE	\$65.00	A

# SCRIBERS

- A comprehensive line of steel body scribers for machinist's, engravers, mechanic's and craftsmen.
- Basic tool for scribing and marking, Scribers can be used on metal, glass, plastics and ceramics. Scriber points are hardened 55- 60 HRC . Scribers are finely tapered permitting better sighting during work.



GZ-03210

GZ-03211

GZ-03214

GZ-03217

GZ-03221

## Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-03210	MS/7 DOUBLE END SCRIBER, STEEL BODY, STRAIGHT & 90 DEG POINT, 190MM OAL	\$6.00	A
GZ-03211	MS/H/8 DOUBLE END SCRIBER, STEEL BODY, STRAIGHT & 90 DEG POINT, 230MM OAL	\$7.00	A
GZ-03214	MS/P/3 POCKET SCRIBER, STEEL BODY, 89MM OAL	\$7.50	A
GZ-03217	MSCP/6 DOUBLE END SCRIBER, STEEL BODY, POINT AND CHISEL ENDS, 170MM OAL	\$6.50	A
GZ-03221	MS/MG/6 POCKET SCRIBER, STEEL BODY, CARBIDE TIP WITH MAGNET 150MM OAL	\$9.75	A





## SECTION 3 MACHINE TOOL ACCESSORIES

### MAGNETIC COMPASS

- An extremely versatile tool that can be used as an Angle Finder, Centre Locator & Levelling Gauge.
- Tool is designed to give accurate reading of angles for full 360° via an extremely sensitive & balanced needle.
- The protractor body is encased in cast aluminium shell with legs made from cast iron. The Vee bases have inbuilt magnets that exert magnetic pull both within the Vee & across the bottom surface of the legs of the Vee. This allows the tool to attach instantly to any ferrous surface – round or flat for accurate measurement of angles.
- The Vee bases are precision ground and the centre pin shows the middle point for locating centres on round objects. Can also be used for levelling work on workpieces.
- This tool has unlimited applications and can be used in:
  - Tool Rooms & Machine Shops:
    - For determining angles on shapers, milling machines, grinders etc.
    - For determining centre of round stocks
    - For drilling operations
  - Welding Shops
    - Construction & Maintenance sites
    - Auto & Truck shops, especially for checking angles of die lines
- Angle Accuracy: within  $\pm 0.5^\circ$ .



Locate centre on circumference at any angle to the ground



Check table alignment in the horizontal plane

#### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-01690	MBP/01 MAGNETIC COMPASS, 0 – 360 DEGREE	\$175.00	A

### EDGE & CENTRE FINDERS

- Edge & Centre Finders are time saving positioning tools for use in jig boring, milling machines etc. These are used for accurately locating work edges, shoulders, grooves, centre points & scribed lines.
- Manufactured from precision ground tool steel, these are case hardened 45-48HRC.
- The diameter & cocentricity are controlled to within 0.0002" (5 microns).



GZ-03501

GZ-03512

GZ-03500

GZ-03503

Combination Edge & Centre Finder  
One tool serves two purposes. It will find centres and also locate work edges

GZ-03506

Double Edge Finder



GZ-03507

#### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
Combination Edge & Centre Finder			
GZ-03506	EF/6 COMBINATION EDGE & CENTRE FINDER, 0.20" TIP 3/8" SHANK	\$16.00	A
Edge Finders			
GZ-03501	EF/2M EDGE FINDER, END STYLE, 10MM SHANK	\$13.50	A
GZ-03512	EF/13 EDGE FINDER, MIDDLE STYLE, 10MM SHANK	\$26.00	A
GZ-03500	EF/1 EDGE FINDER, END STYLE, 0.20" TIP 3/8" SHANK	\$13.50	A
GZ-03503	EF/4 EDGE FINDER, END STYLE, 0.20" TIP 1/2" SHANK	\$16.00	A
Double Edge Finder			
GZ-03507	EF/7 DOUBLE EDGE FINDER, END STYLE, 0.20" TIP 1/2" SHANK	\$16.00	A

## ELECTRONIC & AUDIBLE EDGE FINDERS

- Designed for 2D aligning of component reference surfaces & edges, determining bore centres with reference to the centre of the machine spindles.
- Industrial Robust & non wearing design, with the body made from hardened steel & a spring loaded highly accurate steel ball.
- On contact between the spherical tip & the metal component, the unit lights up and triggers an audible alarm, thus identifying the point of reference.
- All functional parts are hardened & accurately ground.
- Reads off any electrically conductive metal.
- Comes complete with batteries.
- Concentricity controlled to within  $\pm 0.010\text{mm}$ .



### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-03537	EF/2D/AD/1 ELECTRONIC & AUDIBLE EDGE FINDER, 0.40" BALL 3/4" SHANK	\$145.00	A

## CENTRE FINDER

- Centre Finder attachments with quick release chuck, clamped by a ball swivel joint which allows adjustment to any angular position.
- With needle point shank, working centres can be accurately located. Spring tension on the ball of the point allows guiding the point to true concentricity bringing perfect alignment between the work and machine spindle.
- Centre Finder with Ball Contact is useful in locating work by first bringing the ball contact against the work and then indexing it to the desired position relative to the spindle.
- Centre Finder with Disc Contact is particularly useful in locating work in confined areas such as slots or shallow holes. Diameter of Disc. 0.1".
- Centre Finder with Offset Indicator holder is useful for checking run out or concentricity and in checking straightness or alignment of flat surfaces.



### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-03520	WCF/WZ/6 CENTRE FINDER, CHUCK & 4 ATTACHMENTS	\$32.00	A

## DRILL CHUCK ARBORS

- Hardened and ground Drill Chuck Arbors, used to mount a drill chuck or any other tool which has a female taper shank onto a machine such as a drilling machine which has a female taper shank socket in its workhead.
- Manufactured from case hardened Hi-Tensile Steel (20 MnCr5/SAE 8620), all arbors are case hardened 54-58 HRC for increased resistance to wear.
- Precision grinding to very close tolerance with concentricity controlled to within 0.0004" (10 microns) and accurately gauged self locking tapers ensure close tolerance fit.



### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-07607	GAT/23 DRILL CHUCK ARBOR, 2MT - 3JT	\$10.00	A
GZ-07610	GAT/26 DRILL CHUCK ARBOR, 2MT - 6JT	\$10.00	A
GZ-07615	GAT/33 DRILL CHUCK ARBOR, 3MT - 3JT	\$16.00	A
GZ-07618	GAT/36 DRILL CHUCK ARBOR, 3MT - 6JT	\$16.00	A
GZ-07620	GAT/333 DRILL CHUCK ARBOR, 3MT - 33JT	\$16.00	A
GZ-07622	GAT/43 DRILL CHUCK ARBOR H&G, 4MT - 3JT	\$26.00	A
GZ-07625	GAT/46 DRILL CHUCK ARBOR H&G, 4MT - 6JT	\$26.00	A



# REDUCTION SLEEVES

## (DRILL SLEEVES)

- Drill Sleeves are used to adapt smaller morse taper shank tools to larger machine spindles.
- The cocentricity and taper angles are precisely controlled which allows perfect locking and concentric movement to the tool held. These are available in two types:
  - A Grade - (Hardened and Ground) Manufactured from case hardened Hi Tensile steel (20 MnCr5/SAE 8620), these are fully hardened and are ground on the inside and outside.
- Permanent marking of size on the tang ensures convenience in use.



### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-08420	DSA/2-1 REDUCTION DRILL SLEEVE, 2 – 1MT	\$14.50	A
GZ-08421	DSA/3-1 REDUCTION DRILL SLEEVE, 3 – 1MT	\$20.50	A
GZ-08423	DSA/3-2 REDUCTION DRILL SLEEVE, 3 – 2MT	\$18.00	A
GZ-08422	DSA/4-1 REDUCTION DRILL SLEEVE, 4 – 1MT	\$29.50	A
GZ-08424	DSA/4-2 REDUCTION DRILL SLEEVE, 4 – 2MT	\$28.00	A
GZ-08426	DSA/4-3 REDUCTION DRILL SLEEVE, 4 – 3MT	\$26.00	A
GZ-08432	DSA/5-1 REDUCTION DRILL SLEEVE, 5 – 1MT	\$59.00	A
GZ-08425	DSA/5-2 REDUCTION DRILL SLEEVE, 5 – 2MT	\$54.00	A
GZ-08427	DSA/5-3 REDUCTION DRILL SLEEVE, 5 – 3MT	\$54.00	A
GZ-08429	DSA/5-4 REDUCTION DRILL SLEEVE, 5 – 4MT	\$54.00	A

### Technical Information

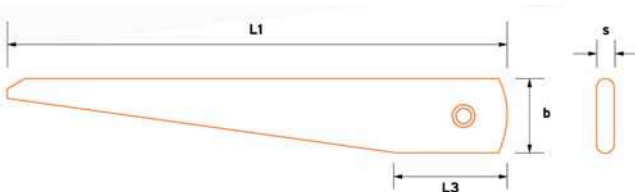
Sleeve Type	Material	Surface Finish of External Taper	Surface Finish of Internal Taper	Body Hardness	Tang Hardness
A Grade	Case Hardened Steel	Ground	Ground	54-58 HRC	54-58 HRC

# DRILL DRIFT KEY

- Drop forged from specially drawn medium carbon steel, these Drift keys are accurately hardened for increased resistance to wear.
- Used for conveniently removing taper shank drills and reamers from sleeves and sockets, these are blackened and have a premium shot blast finish with permanent marking of size for easy identification.



### Technical Information



Part No.	Fits following Morse Taper	L1 (mm)	L3 (mm)	b (mm)	s (mm)
GZ-08601	MT 1 & MT 2	140	25	20	5
GZ-08602	MT 3	190	40	25	7
GZ-08603	MT 4	225	40	30	10
GZ-08605	MT 5 & MT 6	265	56	35	15

### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-08601	DK/1-2 DRILL DRIFT KEY, MT1 & MT2	\$4.95	A
GZ-08602	DK/0-3 DRILL DRIFT KEY, MT3	\$7.95	A
GZ-08603	DK/0-4 DRILL DRIFT KEY, MT4	\$12.50	A
GZ-08605	DK/5-6 DRILL DRIFT KEY, MT5 & MT6	\$27.50	A



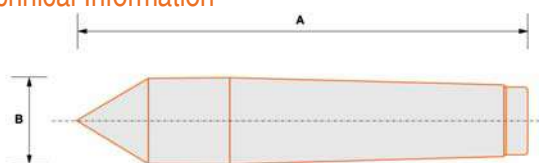
# LATHE CENTRES (DEAD CENTRES)

- Manufactured from high quality carbon steel, solid construction and no moving parts. Fully hardened for increased resistance to wear. Hardness of tip 60-63 HRC, these centres are accurately ground and have a TIR of  $\pm 0.0001''$  ( $\pm 2.5$  microns).
- Tungsten Carbide Tip for increased durability, requiring less down time for regrinding.

The included point angle is  $60^\circ + 15' - 0''$



## Technical Information



Part No.	Morse Taper	A (mm)	B (mm)
GZ-11101	MT 2	100	18
GZ-11102	MT 3	125	24.1
GZ-11103	MT 4	160	31.6

## Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-11101	DCT/2 TCT DEAD CENTRE 2MT	\$42.00	A
GZ-11102	DCT/3 TCT DEAD CENTRE 3MT	\$55.00	A
GZ-11103	DCT/4 TCT DEAD CENTRE 4MT	\$79.00	A

# PIN VISES

- Pin vises are used for holding small taps, drills, reamers, scribers, wire, small files etc.
- These Pin Vises have special tool steel jaws that provide for a firm grip. A straight smooth section on the handle allows these vises to be held in machine chucks for machining operations. The handles have a hole extending through the entire length which allows holding wires of any length or diameter upto the full size of the tool. These are available as a set of 4.



## Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-35900	PV/1-4/ST PIN VISE SET, 4 PIECE SET, 0 – 4.5MM CAPACITY	\$26.00	A

# KNURLING TOOL HOLDERS

- Used for holding round dies, that are suited for efficient and clean cutting of external threads.
- Rugged construction with heavy duty set screws that hold the die firmly in place.
- All steel construction with black powder coated body. Handles have knurled ends with ends in black powder coated finish.



## Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
Knurling Tool Holder - 3 Pairs			
GZ-11700	KT/6-1 KNURLING TOOL HOLDER, 3 PAIRS OF 19MM DIA. KNURLS, 190 X 35 X 16MM	\$110.00	A
GZ-11701	KT/6-2 KNURLING TOOL HOLDER, 3 PAIRS OF 19MM DIA. KNURLS, 165 X 28 X 13MM	\$99.00	A
GZ-11702	KT/6-3 KNURLING TOOL HOLDER, 3 PAIRS OF 16MM DIA. KNURLS, 142 X 22 X 10MM	\$82.00	A
Knurling Tool Holder - 1 Pair			
GZ-11814	KT/2-5 KNURLING TOOL, 1 PAIR 19MM KNURLS, 114 X 13 X 13MM	\$28.00	A
Knurling Tool Holder - 1 Knurl			
GZ-11800	KT/0-1 KNURLING TOOL, SINGLE 19MM KNURLS, 100 X 13 X 13MM	\$19.50	A

# PIN CHUCK SET

- The Pin Chuck is a very useful reducing chuck used for holding drills too small to be held by a regular chuck. It is gripped in the larger chuck already on the machine by means of the back shank.
- Supplied with three interchangeable collets for holding small drills in varying sizes.



## Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-08800	PCH/1-3 PIN CHUCK SET, HOLDER AND 3 COLLETS, 0 – 2.5MM CAPACITY	\$26.00	A



## SECTION 4 VEE BLOCKS

### TOOL MAKER'S VEE BLOCK & CLAMP SETS

- Manufactured from high grade tool steel fully hardened to 55-60 HRC.
- Manufactured and numbered in matched pairs, each pair has two 90° Vees of different capacities which are identical to the Vees of its matching block. The Vee's are ground central, parallel and square with the ends and sides.
- These Vee Blocks are very useful for holding work securely during drilling, milling and grinding operations and also in layout and inspection work. Each pair of Vee Blocks comes complete with a pair of rigid and robust clamps.
- Available in two types: Regular type and Non protruding clamp type. Top clamping design of the Non protruding clamp type allows the blocks to be used on the side faces in addition to the base.

#### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
Vee Blocks & Clamps - Regular Type			
GZ-03000	VB/T/30 TOOL MAKERS VEE BLOCK & CLAMP SET, 40 X 32 X 32MM, 25MM CAPACITY	\$60.00	A
GZ-03001	VB/T/35 TOOL MAKERS VEE BLOCK & CLAMP SET, 50 x 37 x 37MM, 32MM CAPACITY	\$75.00	A
GZ-03004	VB/T/70 TOOL MAKERS VEE BLOCK & CLAMP SET, 70 x 45 x 37MM, 37MM CAPACITY	\$110.00	A
Vee Blocks & Clamps - Non Protuding Type			
GZ-03080	VB/SP/R/T/70 TOOL MAKERS VEE BLOCK & CLAMP SET NON PROTRUDING, 70 x 63 x 45MM, 37MM CAPACITY	\$195.00	A



#### Technical Information

- Permissible Height difference between matched pairs  
- Within 0.0002" (5 microns)
- Parallelism and Squareness of Vee grooves with respect to all surfaces  
- Within 0.0003" (8 microns)
- Parallelism of opposite faces of Vee Blocks  
- Within 0.0003" (8 microns)
- Squareness of adjacent exterior faces of Vee Blocks  
- Within 0.0003" (8 microns)
- Flatness of Working Faces  
- Within 0.0002" (5 microns)

### VEE BLOCK - CAST IRON

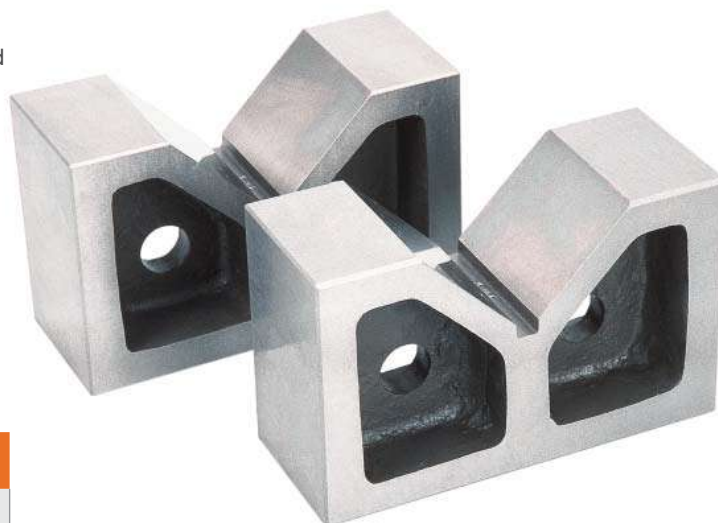
- Made from close grained cast iron, these blocks are precisely ground and machined square and parallel.
- The Vee's are 90° centred in true.
- The blocks are manufactured and supplied in numbered pairs and come in handy for holding large jobs where clamping is not necessary.

#### Technical Information

Squareness and Parallelism of Vee Grooves with respect to base  
- Within 0.0012" (30 microns)

#### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-03101	VB/C/4 CAST IRON VEE BLOCK - MATCHED PAIR, 100 x 40 x 65MM, 56MM VEE WIDTH	\$72.00	A
GZ-03103	VB/C/6 CAST IRON VEE BLOCK - MATCHED PAIR, 150 x 62 x 88MM, 78MM VEE WIDTH	\$145.00	A



## VEE BLOCK & CLAMP SET

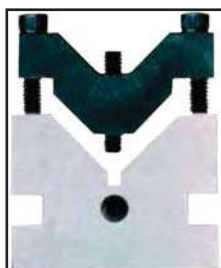
- Manufactured from high grade tool steel fully hardened to 55-60 HRC.
- The special design with 90° Vee angle provides a quick, accurate and positive means of holding workpieces for machining, grinding and in layout and inspection work.
- In addition to use on base, the Vee block can also be used on its side or end.
- The unit comes complete with a reversible swing away style clamp that clamps against almost any shape of product.
- The three tapped hole positions in the Vee block for the clamp allows the clamp to be positioned at either end or at the centre of the Vee block.
- Tapped holes on the Vee block end allow mounting the block perpendicular to the face plate. Each unit comes complete with the basic block, reversible clamp and 2 clamp screws.
- Also available in matched pairs with 2 block, 2 clamps and 4 screws.



### Technical Information

- Parallelism and Squareness of Vee Grooves with respect to the base
  - Within 0.0003" (8 microns)
- Matched Pair Tolerance
  - Within 0.0002" (5 microns)

Versatile Vee Block allows reversal of clamp to facilitate clamping of jobs with a smaller diameter or irregular form.

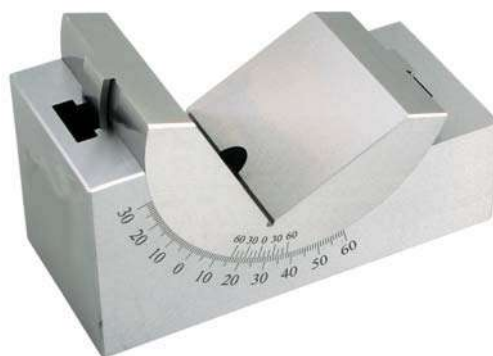


### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-03092	VB/SP/V/100S TOOL MAKERS VEE BLOCK & CLAMP SET VERSATILE - SINGLE, 100 x 75 x 75MM, 57MM CAPACITY,	\$275.00	A
GZ-03093	VB/SP/V/100P TOOL MAKERS VEE BLOCK & CLAMP SET VERSATILE - MATCHED PAIR, 100 x 75 x 75MM, 57MM CAPACITY,	\$535.00	A

## ADJUSTABLE ANGLE BLOCK 0 - 60°

- Made from fully hardened (50-55 HRC) and ground tool steel, these precision Adjustable Angle Blocks are useful for most drilling, milling and set up jobs where a particular angle to a reference face is required.
- The block is fully adjustable from 0°-60° and can be set at any desired position by locking of the hex screw located in the base.
- Angle Accuracy:  $\pm 10^\circ$ .
- Squareness: 0.0004" (10 microns).



### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-02100	PAB/01/A TOOL MAKERS ADJUSTABLE ANGLE VEE BLOCK, 0 - 60°, 95 x 45 x 50MM	\$275.00	A

## MAGNETIC VEE BLOCKS

- Designed for versatility and accuracy, these Vee Blocks are ideal for holding round or irregular shapes for scribing, grinding, measuring, machining and testing applications.
- All Vee's and faces can be energised or de energised simultaneously by turning the rotary action control knob. This feature enables the Vee Block to hold both itself and the work on any flat ferrous surface including a permanent magnetic chuck (without energising the chuck). Brass knob ensures no interference with the magnetic field.
- Also available with hardened Vee's: 55-60 HRC for increased wear resistance.
- For applications requiring two Vee blocks matched and numbered pairs are available.



### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-02900	MVB/4S TOOL MAKERS MAGNETIC VEE BLOCK, 100 x 75 x 95MM, 70MM CAPACITY	\$275.00	A
GZ-02901	MVB/4P TOOL MAKERS MAGNETIC VEE BLOCK - MATCHED PAIR, 100 x 75 x 95MM, 70MM CAPACITY	\$550.00	A



## ADJUSTABLE VEE BLOCK SET

- Precision made tool performing all of the functions that would normally require usage of various shims, blocks or machinist's jacks. Ideal for inspecting shafts and parts with multiple diameters.
- Anvil height on the block is easily adjustable to support shafts, bars of varying diameters making for quick inspection without having to use centres.
- Anvil supports upto 450 kgs.
- Vibration lock (position lock) prevents creeping.
- Wide angle Vee accepts 5mm to 125mm diameters.
- Top flats ground parallel to the base can hold wide, flat parts. Narrow flats may be held on a parallel across the top.
- Total Rise of Vee - 12mm. Dial graduated in increments of 0.001" (25 microns).
- Sold as a set of 2 blocks in matched pairs.



### Technical Information

- Permissible height difference between matched pairs
  - Within 0.001" (25 microns)
- Flatness of base
  - Within 0.0002" (5 microns)



Adjustable Vee Block being used to check co-centricity of different diameters on a stepped rod

### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-02930	AVB/1P TOOL MAKERS ADJUSTABLE VEE BLOCK – MATCHED PAIR, 23 x 100 x 75MM, 125MM CAPACITY	\$495.00	A

## BALL BEARING VEE BLOCK & CLAMP SET

- High precision Ball Bearing Vee Blocks are used to inspect & detect out of round conditions, defects and lobes without damage to both the parts being checked and the Vee Block itself.
- Ideal for use where inspection set-ups are not otherwise possible using regular Vee Blocks. Design allows inspection of components from two angles by turning the spacer block 90°.
- Vee Block bases are made from cast iron and use hardened 60HRC wear resistant balls with sphericity controlled to within 0.000025" (0.6microns) on the small and medium sets and 0.00005" (1.27 microns) on the large set. Balls are finished to 0.2 micro inches.
- Supplied in matched pairs, complete with two clamps and one test ball.
- Matched pairs are controlled to within  $\pm 0.0002"$  ( $\pm 0.005\text{mm}$ ).



Ball Bearing Vee Blocks with non marring balls being used to check the roundness of a stepped rod

### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-02940	VB/BB/1-2 TOOL MAKERS BALL BEARING VEE BLOCK & CLAMP SET – MATCHED PAIR, 63MM 100KG CAPACITY	\$350.00	A

## SECTION 5 MACHINE VISES - PRECISION

### ROTARY HEAD VISE

- High Precision Milling Machine Vise with a rotary fixed head.
- The rotary head has 4 faces each with a different jaw option: Plain, Vertical V, Horizontal V & Prismatic.
- Rotary head design eliminates the possibility of any inaccuracy, which may occur when jaws are replaced.
- Jaws can be changed by simple rotation of the Rotary Head and fixed in position using 2 hex bolts.
- Manufactured from close grained hi-tensile cast iron, the vise body has a premium polychromatic finish.
- Vise jaws are made from fully hardened (55±3 HRC) and ground tool steel.
- Use of high tensile grade 10.8 fasteners provides greater strength and rigidity. The 360° swivel base allows the vise to be set at any angle along the vertical axis.

#### Technical Information

Part No.	Jaw Width	Jaw Opening	Jaw Depth	Net Wt.
GZ-35051	100mm	100mm	37mm	20kg



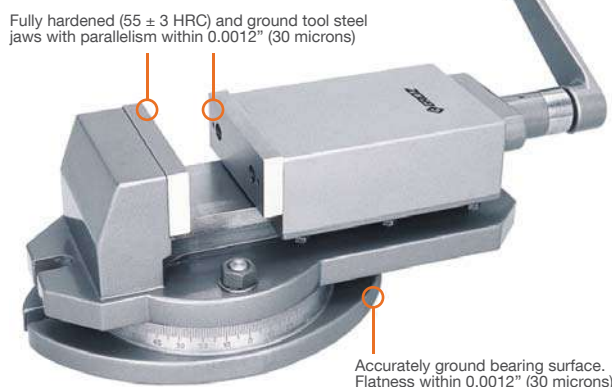
#### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-35051	RHV/100 100MM ROTARY HEAD SWIVEL MILLING VISE, 4 DIFFERNT JAW FACES	\$595.00	C

### MILLING MACHINE VISES

#### SUPER PRECISION

- Manufactured from close grained hi-tensile cast iron, the vise body has a premium polychromatic finish which is scratch and rust proof.
- Vise jaws made from fully hardened and ground tool steel allow the workpiece to be held dead square without use of any packing. This not only improves efficiency and life of jaws but also helps reduce strain on vise body.
- Usage of high tensile grade 10.8 fasteners provides greater strength and rigidity. The 360° swivel base allows the vise to be set at any angle along the vertical axis. Vise base has a milled slot which helps in accurate location of the vise on the machine table using rectangular locating nuts.
- "Hold Down" slots provide secure clamping of the vise on the machine table.



Milling machine vise being used to hold a job for milling operation.



#### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-35011	MMV/SP/100 100MM SUPER PRECISION SWIVEL MILLING MACHINE VISE	\$395.00	C
GZ-35012	MMV/SP/150 150MM SUPER PRECISION SWIVEL MILLING MACHINE VISE	\$675.00	C

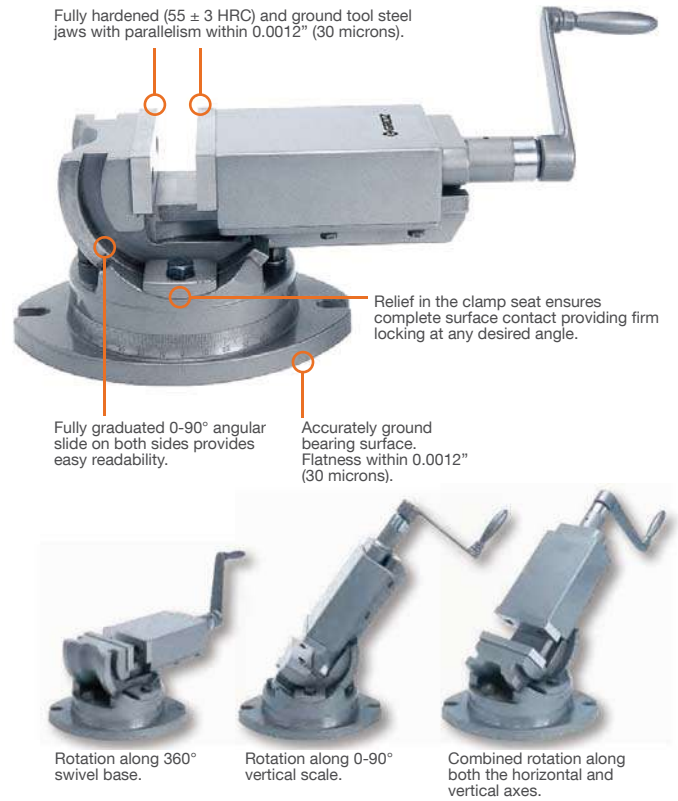
#### Technical Information

Part No.	Jaw Width	Jaw Opening	Jaw Depth	Net Wt.
GZ-35011	100mm	100mm	38mm	17.4kg
GZ-35012	150mm	150mm	45mm	38.8kg

# ANGULAR MACHINE VISES

## SUPER PRECISION

- Angular adjustment is achieved via the angular slide that can be set to any desired angle 45° on either sides. Additionally the fully graduated 360° swivel base allows the vise to be set at any angle along the vertical axis.
- These vises are manufactured from close grained hi-tensile seasoned cast iron with fully hardened and ground tool steel jaws.
- Ergonomically designed all steel handle allows for stress free operation. Assembled on the spindle crank with a spring loaded mechanism providing positive grip.
- Use of hi-tensile grade 10.8 fasteners provides strength and rigidity to these vises.
- Relief in clamp seat ensures complete surface contact as against a line contact between the “Hold Down” clamp and movable slide, thereby providing firm locking at any desired angle.
- A milled slot in the vise base helps in accurate location of the vise on the machine table using rectangular locating nuts.
- “Hold Down” slots provide secure clamping of the vise on the machine table.



### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-35002	AMV/SP/100 100MM SUPER PRECISION SWIVEL ANGULAR MACHINE VISE	\$470.00	C
GZ-35004	AMV/SP/150 150MM SUPER PRECISION SWIVEL ANGULAR MACHINE VISE	\$850.00	C

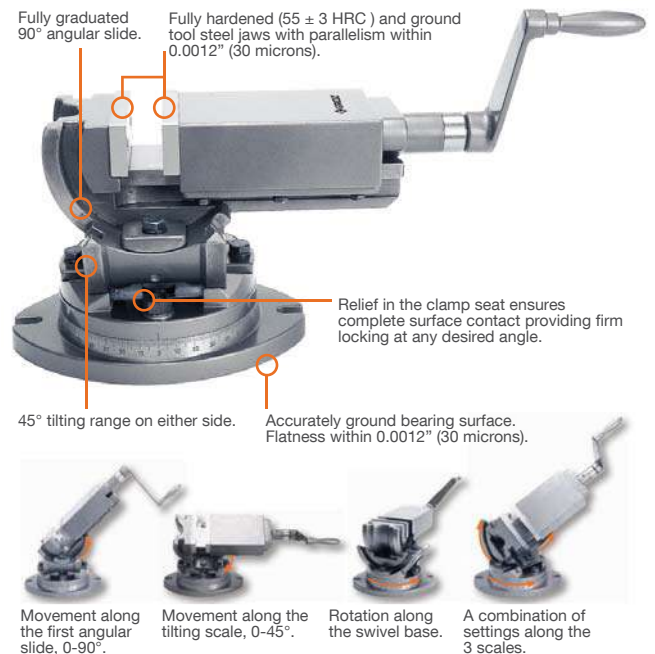
### Technical Information

Part No.	Jaw Width	Jaw Opening	Jaw Depth	Net Wt.
GZ-35002	100mm	100mm	38mm	17.0kg
GZ-35004	150mm	150mm	45mm	42.8kg

# THREE WAY TILTING VISES

## SUPER PRECISION

- Tilting vises providing 3 axis settings of the workpiece in special milling, drilling, grinding, shaping and jig boring applications.
- Vises have 2 angular slides which allow the work piece to be set at any desired angle — 45° tilting range on either sides and 90° vertical indexing. The 360° swivel base further allows rotation along the vertical axis.
- Manufactured from close grained hi-tensile cast iron with fully hardened and ground tool steel jaws: Vises have a premium polychromatic finish.
- Ergonomically designed all steel handle allows for stress free operation. Assembled on the spindle crank with a spring loaded mechanism providing positive grip.
- Use of hi-tensile grade 10.8 fasteners provides strength and rigidity to these vises.
- Relief in clamp seat ensures complete surface contact as against a line contact between the “Hold Down” clamp and movable slide, thereby providing firm locking at any desired angle.
- A milled slot in the vise base allows for accurate location of the vise on the machine table using rectangular locating nuts. “Hold Down” slots provide secure clamping of the vise on the work table.



### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-35022	TLT/SP/100 100MM SUPER PRECISION SWIVEL TILTING MACHINE VISE	\$625.00	C
GZ-35027	TLT/SP/150 150MM SUPER PRECISION SWIVEL TILTING MACHINE VISE	\$1050.00	C

### Technical Information

Part No.	Jaw Width	Jaw Opening	Jaw Depth	Net Wt.
GZ-35022	100mm	100mm	38mm	20.5kg
GZ-35027	150mm	150mm	45mm	54.0kg

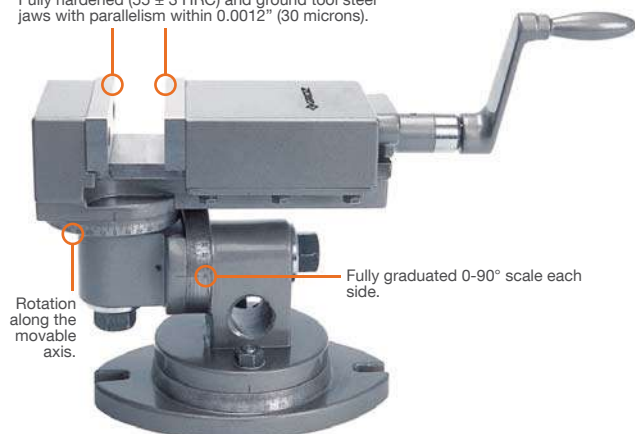


# UNIVERSAL VISES

## SUPER PRECISION

- The most versatile of all machine vises with all degrees of freedom, the Universal Vise allows the work piece to be set at any desired angle.
- Low height construction makes these useful on even the most complicated applications.
- The vise has one fixed horizontal axis which allows the workpiece to be rotated at any angle. Fully graduated 360° swivel base allows complete rotation along the vertical axis. The third angular slide with a moving axis allows for any setting in the 3D plane.
- Manufactured from close grained hi-tensile cast iron with fully hardened and ground tool steel jaws. Premium polychromatic finish.
- Ergonomically designed all steel handle allows for stress free operation. It is assembled on the spindle crank with a spring loaded mechanism providing positive grip.
- Use of hi-tensile grade 10.8 fasteners provides strength and rigidity to these vises.
- A milled slot in the vise base allows for accurate location of the vise on the machine table using rectangular locating nuts. "Hold Down" slots provide secure clamping of the vise on the work table.

Fully hardened ( $55 \pm 3$  HRC) and ground tool steel jaws with parallelism within 0.0012" (30 microns).



Rotation along the swivel base.

Rotation along the axis perpendicular to the axis of the swivel base.

Rotation along the axis parallel to the axis of the swivel base.



A combination of settings along the 3 axes produces the desired compound angle.

A typical case of the Universal vise set perpendicular to the base by rotation along the movable scale.

## Technical Information

Part No.	Jaw Width	Jaw Opening	Jaw Depth	Net Wt.
GZ-35031	100mm	100mm	32mm	13.4kg

## Price List

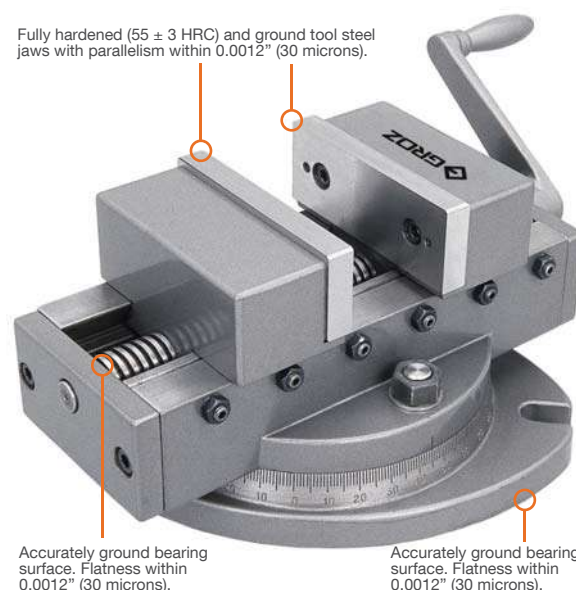
Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-35031	UV/SP/100 100MM SUPER PRECISION SWIVEL UNIVERSAL VISE	\$635.00	C

# SELF CENTRING VISES

## SUPER PRECISION

- The Self Centring Vise allows for accurate centring of jobs, automatically. The vise is especially useful in applications where the same operation is to be performed on workpieces of varying sizes.
- The special design allows accurate setting up of jobs with only a single machine setting. Centric clamping is particularly useful in milling, slot and groove cutting of all kinds.
- Manufactured from hi-tensile cast iron with fully hardened and ground tool steel jaws, the vise has opposite threads for quick and accurate centring.
- Fully graduated 360° swivel base allows the vise to be set at any angle along the vertical axis.
- A milled slot in the vise base allows for accurate location of the vise on the machine table using rectangular locating nuts.
- "Hold Down" slots provide secure clamping of the vise on the work table.

Fully hardened ( $55 \pm 3$  HRC) and ground tool steel jaws with parallelism within 0.0012" (30 microns).



Self Centring Vise being used to mill key ways in the centre of the casting.



## Technical Information

Part No.	Jaw Width	Jaw Opening	Jaw Depth	Net Wt.
GZ-35040	100mm	100mm	38mm	14.3kg
GZ-35045	150mm	150mm	45mm	36.0kg

## Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-35040	SCV/SP/100 100MM SUPER PRECISION SWIVEL SELF CENTRING MACHINE VISE	\$395.00	C
GZ-35045	SCV/SP/150 150MM SUPER PRECISION SWIVEL SELF CENTRING MACHINE VISE	\$695.00	C

## SECTION 6 BENCH & DRILL PRESS VISES

### UNIVERSAL VISES

#### UNIGRIP

- Manufactured from graded cast iron, these vises have a precision ground base and vise bed for smooth lateral movement of the movable jaw.
- Longitudinal and transversal prisms in the fixed jaw allow for firm gripping of round jobs of different sizes both horizontally and vertically. Special seat in jaws facilitates retaining of flat work pieces.
- Vises are equipped with a convenient unigrip mechanism. Spindle moves inside the hollow hand grip allowing the vise to be used at a location away from the table edge.

#### 3 WAY DRILL PRESS VISE

- This vise is also available with 3 mounting options via 2 additional precisely ground surfaces: end face and side face. This allows for drilling along all axes with a single setting of the job and holding of long workpieces which are cumbersome and difficult to manage in regular vises.



#### Technical Information

Part No.	Jaw Width	Jaw Opening	Jaw Depth
GZ-35120	80mm	75mm	30mm
GZ-35121	100mm	92mm	30mm
GZ-35122	120mm	110mm	35mm
GZ-35125	100mm	88mm	30mm

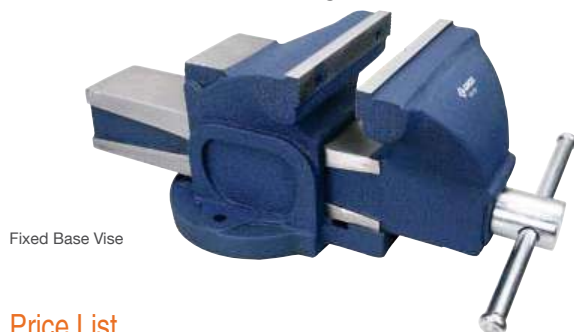
#### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
<b>Drill Press Vise - Unigrip</b>			
GZ-35120	DPV/UG/75 75MM UNIGRIP DRILL PRESS VISE	\$98.00	A
GZ-35121	DPV/UG/100 100MM UNIGRIP DRILL PRESS VISE	\$125.00	A
GZ-35122	DPV/UG/125 125MM UNIGRIP DRILL PRESS VISE	\$190.00	A
<b>3 Way Drill Press Vise - Unigrip</b>			
GZ-35125	DPV/UG/3/100 100MM UNIGRIP 3 WAY DRILL PRESS VISE	\$159.00	A

### PROFESSIONAL MECHANIC'S VISES

#### BENCH VISES

- Groz manufactures a comprehensive range of mechanic's vises useful for all medium to heavy duty applications. Manufactured from high quality grey iron castings - a very strong material with excellent shock absorbing capacity and immense strength under compression, these rigid & robust vises machined to close tolerances, are designed for smooth operation and reliability.
- The front jaw beam with machined construction fully encloses the vise spindle protecting the threads from contaminants and damage. The long unbreakable malleable iron nut securely locked in the body ensures maximum thread surface contact and constant alignment between body and the sliding jaw. Jaws are hardened  $45 \pm 5$  HRC. Perfect alignment of main screw and nut reduces wear and gives long trouble free service. Vises have an attractive blue finish with main screw and handle plated. The anvil has a ground finish.
- A common sight in almost all workshops and garages, these are available with a fixed base for regular usage or a swivel base that allows rotation through  $360^\circ$  with firm locking at any position. The swivel base allows the vise to be used in confined spaces or where the angle of the vise has to be adjusted to accept work of varying lengths. The swivel base can be easily removed and the vise converted back to a regular fixed base vise.



Fixed Base Vise

#### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
<b>Fixed Base Vises</b>			
GZ-35401	BV/F/100 PROFESSIONAL MECHANICS BENCH VISE, CAST IRON, 100MM	\$148.00	A
GZ-35402	BV/F/125 PROFESSIONAL MECHANICS BENCH VISE, CAST IRON, 125MM	\$195.00	A
GZ-35403	BV/F/150 PROFESSIONAL MECHANICS BENCH VISE, CAST IRON, 150MM	\$260.00	A
GZ-35404	BV/F/200 PROFESSIONAL MECHANICS BENCH VISE, CAST IRON, 200MM	\$395.00	A
<b>Swivel Base To Suit Vises</b>			
GZ-35421	SWB/100 SWIVEL BASE TO SUIT 100MM PROFESSIONAL MECHANICS BENCH VISE	\$35.00	A
GZ-35422	SWB/125 SWIVEL BASE TO SUIT 125MM PROFESSIONAL MECHANICS BENCH VISE	\$52.00	A
GZ-35423	SWB/150 SWIVEL BASE TO SUIT 150MM PROFESSIONAL MECHANICS BENCH VISE	\$68.00	A
GZ-35424	SWB/200 SWIVEL BASE TO SUIT 200MM PROFESSIONAL MECHANICS BENCH VISE	\$95.00	A

# FABRICATED STEEL BENCH VISES

- With an all steel construction, these fixed base Vises are built to withstand the shocks of hammering, chipping and other tough applications.
- Each Vise has an integrated anvil for shaping and beating, together with an extra heavy-duty sliding jaw and large diameter screw. Forged tommy bar along with the steel main screw helps in effective transmission of pressure on the work piece.
- Carbon Steel jaws are hardened 50 ± 5 HRC to withstand tough use and are serrated for non-slip grip. Safety stopper provided at the end of slide prevents slide from fall during usage.



Offset Jaw Vise

## Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
<b>Straight Jaw Vise</b>			
GZ-35450	EBV/F/100 ENGINEERS FABRICATED STEEL BENCH VISE, 100MM	\$175.00	A
GZ-35451	EBV/F/150 ENGINEERS FABRICATED STEEL BENCH VISE, 150MM	\$350.00	A
GZ-35452	EBV/F/200 ENGINEERS FABRICATED STEEL BENCH VISE, 200MM	\$695.00	A
<b>Offset Jaw Vises</b>			
GZ-35460	OBV/F/100 ENGINEERS FABRICATED STEEL BENCH VISE, OFFSET, 100MM	\$190.00	A
GZ-35461	OBV/F/150 ENGINEERS FABRICATED STEEL BENCH VISE, OFFSET, 150MM	\$452.00	A
GZ-35462	OBV/F/200 ENGINEERS FABRICATED STEEL BENCH VISE, OFFSET, 200MM	\$870.00	A

# REVERSIBLE VISE

- A compact and convenient vise suitable for a variety of DIY applications. Unique design additionally allows it to be used as a Pen Press.
- Made from cast iron, the body and sliding jaw are aligned with two steel guide rods and the main screw for smooth action. Polypropylene jaws impart a soft yet firm grip. Under pressure these jaws deform around the work piece and return to their original shape when the work is removed.
- Jaw capacity can be doubled from 90mm (3.1/2") to 175mm (7") by removing the sliding jaw and placing it at the back of the body, making the vise reversible.
- With a 360° swivel base this is amongst the most versatile and convenient work holding tool.



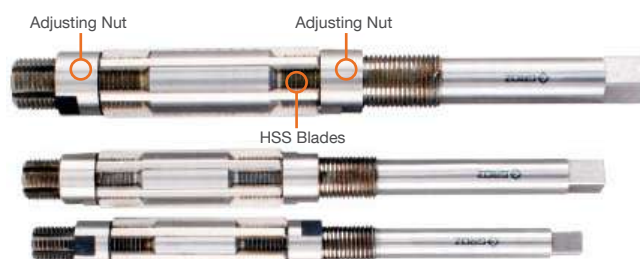
## Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-35530	RV/75-175 DIY REVERSIBLE SWIVEL BASE VISE, 90 / 175MM	\$98.00	A

# SECTION 7

# ADJUSTABLE HAND REAMERS

- The Groz range of Adjustable Hand Reamers are extremely useful precision tools for any engineering or auto-repair shop.
- Just 16 sizes cover diameters ranging from 9.5mm – 56.35mm (3/8" – 2.7/32").
- Suitable for use on ferrous or non ferrous metals.
- The reamer blades are made from High Speed Steel, accurately hardened 60 - 64 HRC and relief ground.
- Each adjustable reamer has a chamfer or lead on the front end of diameter 0.004" - 0.019" according to size, which helps to make a quick start in reaming operation.
- Reamers expand by loosening one adjusting nut and tightening the other.
- Cocentricity within : 30 microns.



## Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-11905	AHR/5 ADJUSTABLE HAND REAMER, H1, 9.5 – 10.3MM	\$48.00	A
GZ-11906	AHR/6 ADJUSTABLE HAND REAMER, H2, 10.3 – 11.1MM	\$48.75	A
GZ-11907	AHR/7 ADJUSTABLE HAND REAMER, H3, 11.11 – 11.9MM	\$49.50	A
GZ-11908	AHR/8 ADJUSTABLE HAND REAMER, H4, 11.9 – 13.5MM	\$52.00	A
GZ-11909	AHR/9 ADJUSTABLE HAND REAMER, H5, 13.5 – 15MM	\$59.00	A
GZ-11910	AHR/10 ADJUSTABLE HAND REAMER, H6, 15 – 16.6MM	\$72.00	A
GZ-11911	AHR/11 ADJUSTABLE HAND REAMER, H7, 16.6 – 18.25MM	\$85.00	A
GZ-11912	AHR/12 ADJUSTABLE HAND REAMER, H8, 18.25 – 19.8MM	\$98.00	A
GZ-11913	AHR/13 ADJUSTABLE HAND REAMER, H9, 19.8 – 21.4MM	\$108.00	A
GZ-11914	AHR/14 ADJUSTABLE HAND REAMER, H10, 21.4 – 23.8MM	\$115.00	A
GZ-11915	AHR/15 ADJUSTABLE HAND REAMER, H11, 23.8 – 26.98MM	\$132.00	A
GZ-11916	AHR/16 ADJUSTABLE HAND REAMER, H12, 23.98 – 30.16MM	\$155.00	A
GZ-11917	AHR/17 ADJUSTABLE HAND REAMER, H13, 30.16 – 34.1MM	\$185.00	A
GZ-11918	AHR/18 ADJUSTABLE HAND REAMER, H14, 34.1 – 38.1MM	\$225.00	A
GZ-11919	AHR/19 ADJUSTABLE HAND REAMER, H15, 38.1 – 46MM	\$295.00	A
GZ-11920	AHR/20 ADJUSTABLE HAND REAMER, H16, 46 – 56.3MM	\$395.00	A
<b>Sets</b>			
GZ-11930	AHR/8/ST ADJUSTABLE HAND REAMER SET, H4 – H11, 11.9 – 26.98MM	\$575.00	A
GZ-11931	AHR/11/ST ADJUSTABLE HAND REAMER SET, H4 – H14, 11.9 – 38.1MM	\$995.00	A



## SECTION 8 TAP & DIE HOLDERS

### ADJUSTABLE TAP & REAMER WRENCHES

#### FORGED STEEL & CAST IRON BAR TYPE

- The straight handle design of these tap wrenches provides greater leverage, particularly useful when working with large diameter taps.
- Extra heavy duty. Industrial quality tap wrenches - virtually unbreakable Nr. 0,00, 5 & 6 have a FORGED STEEL BODY. Nr. 7 & 8 are cast from S.G. Iron.



#### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
<b>Forged Steel Tap &amp; Reamer Wrenches</b>			
GZ-09221	ARWR/SG/00 BAR TYPE TAP WRENCH, 6MM TAP CAPACITY	\$12.50	A
GZ-09220	ARWR/SG/0 BAR TYPE TAP WRENCH, 12MM TAP CAPACITY	\$16.50	A
GZ-09222	ARWR/SG/5 BAR TYPE TAP WRENCH, 4-16MM TAP CAPACITY	\$21.00	A
GZ-09223	ARWR/SG/6 BAR TYPE TAP WRENCH, 4-20MM TAP CAPACITY	\$32.50	A
<b>Cast Iron Tap &amp; Reamer Wrenches</b>			
GZ-09224	ARWR/SG/7 BAR TYPE TAP WRENCH, 6-30MM TAP CAPACITY	\$49.00	A
GZ-09225	ARWR/SG/8 BAR TYPE TAP WRENCH, 9-45MM TAP CAPACITY	\$89.00	A

### DIE STOCK HOLDERS

#### STEEL CAST ROUND DIES

- Die holders are used for holding round dies, that are suited for efficient and clean cutting of external threads.
- Die holders have a rugged construction.



#### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-09111	DS/0-1 BUTTON DIE HOLDER, 1"OD	\$9.00	A
GZ-09113	DS/1-1-2 BUTTON DIE HOLDER, 1-1/2"OD	\$15.00	A
GZ-09114	DS/0-2 BUTTON DIE HOLDER, 2"OD	\$22.00	A

### TAP WRENCHES

#### T HANDLE TYPE

- Industrial quality Tap wrenches for the professional user.
- Designed to give the user the reach and leverage needed for accurate tapping, these are used for holding taps, drills, reamers & other small tools to be turned by hand.
- CNC machined to very close tolerances with self centring powder metallurgy hardened jaws & knurled chuck sleeve for positive grip.
- Ratchet handle can be set for right or left hand operation or locked for non ratchet use. Self centring powder metallurgy hardened jaws and knurled chuck sleeve provide positive grip on taps, reamers and small tools Sliding T – Handle for fitting into tight spaces with greater leverage.
- Also available with longer body for added leverage in hard to reach places.



#### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
<b>Tap Wrench Regular Length</b>			
GZ-09361	TW/164 "T" TYPE TAP WRENCH, 6MM CAPACITY	\$25.00	A
GZ-09362	TW/166 "T" TYPE TAP WRENCH, 12MM CAPACITY	\$29.50	A
<b>Ratchet Tap Wrench Regular Length</b>			
GZ-09371	TW/R/161 "T" TYPE RATCHET TAP WRENCH, 6MM CAPACITY	\$42.00	A
GZ-09372	TW/R/162 "T" TYPE RATCHET TAP WRENCH, 12MM CAPACITY	\$49.50	A
<b>Ratchet Tap Wrench Extra Long Length</b>			
GZ-09375	TW/R/161L "T" TYPE RATCHET TAP WRENCH, 330MM LONG, 6MM CAPACITY	\$55.00	A
GZ-09376	TW/R/162L "T" TYPE RATCHET TAP WRENCH, 330MM LONG, 12MM CAPACITY	\$65.00	A



## SECTION 9 PUNCHES

### CENTRE PUNCHES

#### HEAVY DUTY

- Manufactured from hardened and tempered carbon steel, designed for demanding industrial use. These Centre Punches are ideal for clearly marking metal in work layout & making indentations in a work piece before drilling to ensure correct location of drill points.
- The working tips are centred and ground to the correct angle (90° included angle) for increased efficiency in marking. The striking end is chamfered to prevent breakage.
- Single piece construction with hexagonal shank, these are amongst the strongest and most durable of Centre Punches. Working ends are accurately ground and the punch body is in premium powder coated finish.



#### Technical Information



Part No.	Point Size (P)	Stock Size	Overall Length
GZ-25200	2mm	6mm	90mm
GZ-25201	3mm	8mm	108mm
GZ-25202	4mm	10mm	125mm
GZ-25203	6mm	12mm	150mm
GZ-25204	10mm	16mm	160mm
GZ-25205	A set of 5 Centre Punches containing one each of 2mm, 3mm, 4mm, 6mm & 10mm packed in a vinyl pouch		



#### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-25200	CP/HD/5-64 HEAVY DUTY CENTRE PUNCH, HEX SHANK, 5/64"	\$3.75	A
GZ-25201	CP/HD/1-8 HEAVY DUTY CENTRE PUNCH, HEX SHANK, 1/8"	\$4.00	A
GZ-25202	CP/HD/5-32 HEAVY DUTY CENTRE PUNCH, HEX SHANK, 5/32"	\$4.75	A
GZ-25203	CP/HD/1-4 HEAVY DUTY CENTRE PUNCH, HEX SHANK, 1/4"	\$7.50	A
GZ-25204	CP/HD/3-8 HEAVY DUTY CENTRE PUNCH, HEX SHANK, 3/8"	\$11.00	A
Sets			
GZ-25205	CP/HD/5/ST HEAVY DUTY CENTRE PUNCH SET, 5 PCE	\$29.50	A

### STARTING PUNCHES

- These Punches are used as a starting tool prior to using Pin Punches, as they are useful for loosening frozen or tight pins and keys, or knocking out rivets. These have a single piece construction with hexagonal shank.
- Manufactured from high grade carbon steel, they are accurately hardened for extended service life. The working ends are machine ground with the body in premium powder coated finish.



#### Technical Information



Part No.	Tip Diameter (D)	Stock Size	Overall Length
GZ-25700	1.5mm	10mm	125mm
GZ-25702	3mm	10mm	125mm
GZ-25720	3mm	8mm	125mm
GZ-25703	4mm	10mm	125mm
GZ-25704	5mm	10mm	125mm
GZ-25706	6mm	10mm	125mm
GZ-25707	8mm	12mm	150mm

#### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-25700	SGP/HD/1-16 HEAVY DUTY STARTNG PUNCH, TAPERED, 1/16"	\$5.00	A
GZ-25702	SGP/HD/1-8 HEAVY DUTY STARTNG PUNCH, TAPERED, 1/8"	\$5.00	A
GZ-25703	SGP/HD/5-32 HEAVY DUTY STARTNG PUNCH, TAPERED, 5/32"	\$5.25	A
GZ-25704	SGP/HD/3-16 HEAVY DUTY STARTNG PUNCH, TAPERED, 3/16"	\$5.25	A
GZ-25706	SGP/HD/1-4 HEAVY DUTY STARTNG PUNCH, TAPERED, 1/4"	\$5.95	A
GZ-25707	SGP/HD/5-16 HEAVY DUTY STARTNG PUNCH, TAPERED, 5/16"	\$7.50	A



# PIN PUNCHES

## HEAVY DUTY

- Pin Punches are manufactured from high quality carbon steel, accurately hardened and tempered so that the Pin will withstand continuous use and the striking end will not splinter. These are induction hardened to ensure consistent hardness and a special tempering process prevents the head from fracturing, thereby preventing accidents.
- Single piece construction with hexagonal shank. Single piece construction imparts additional durability to the punch. Working ends are accurately ground and the punch body is in premium powder coated finish.



### Technical Information



Part No.	Point Diameter (D)	Stock Size	Overall Length
GZ-25601	3/32"	8mm	112mm
GZ-25602	1/8"	8mm	119mm
GZ-25603	5/32"	8mm	125mm
GZ-25604	3/16"	10mm	132mm
GZ-25606	1/4"	10mm	145mm
GZ-25607	5/16"	11mm	150mm
GZ-25612	A set of 6 Pin Punches containing one each 2.5mm, 3mm, 4mm, 5mm, 6mm & 8mm, packed in a vinyl pouch		

### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-25601	PP/HD3-32 HEAVY DUTY PIN PUNCH, HEX SHANK, 3/32"	\$4.25	A
GZ-25602	PP/HD1-8 HEAVY DUTY PIN PUNCH, HEX SHANK, 1/8"	\$4.50	A
GZ-25603	PP/HD5-32 HEAVY DUTY PIN PUNCH, HEX SHANK, 5/32"	\$4.50	A
GZ-25604	PP/HD3-16 HEAVY DUTY PIN PUNCH, HEX SHANK, 3/16"	\$5.00	A
GZ-25606	PP/HD1-4 HEAVY DUTY PIN PUNCH, HEX SHANK, 1/4"	\$5.50	A
GZ-25607	PP/HD5-16 HEAVY DUTY PIN PUNCH, HEX SHANK, 5/16"	\$6.75	A
Sets			
GZ-25612	PP/HD/6/ST HEAVY DUTY PIN PUNCH SET, HEX SHANK, 6 PCE	\$32.50	A

# EXTRA LONG PIN PUNCHES

## HEAVY DUTY

The extra Long Pin Punches are useful for all applications where added leverage is required.



### Technical Information



Part No.	Point Diameter (D)	Stock Size	Overall Length
GZ-25650	1/8"	8mm	200mm
GZ-25651	3/16"	10mm	200mm
GZ-25652	1/4"	10mm	200mm
GZ-25653	5/16"	11mm	200mm
GZ-25654	3/8"	12mm	200mm
GZ-25655	A set of 5 extra long Pin Punches containing one each of 3mm, 5mm, 6mm, 8mm & 10mm packed in a vinyl pouch		



### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-25650	PP/HD1-8L HEAVY DUTY PIN PUNCH, HEX SHANK, 1/8" X 200MM OAL	\$6.95	A
GZ-25651	PP/HD3-16L HEAVY DUTY PIN PUNCH, HEX SHANK, 3/16" X 200MM OAL	\$7.50	A
GZ-25652	PP/HD1-4L HEAVY DUTY PIN PUNCH, HEX SHANK, 1/4" X 200MM OAL	\$7.95	A
GZ-25653	PP/HD5-16L HEAVY DUTY PIN PUNCH, HEX SHANK, 5/16" X 200MM OAL	\$8.75	A
GZ-25654	PP/HD3-8L EXTRA LONG HEAVY DUTY PIN PUNCH, HEX SHANK, 3/8" X 200MM OAL	\$11.50	A
Sets			
GZ-25655	PP/HD/5L/ST EXTRA LONG HEAVY DUTY PIN PUNCH SET, HEX SHANK, 200MM OAL, 5 PCE	\$45.00	A



## PIN PUNCHES - 4"

### GENERAL PURPOSE ROUND SHANK

These round shank pin punches have clean and well cut knurling which provides positive, non slip grip. This range of punches has rust inhibiting black oxide finish. These are available in 2 different lengths:

- Pin Punches 100mm (4") long:  
Single piece construction with a 45mm (1-3/4") long pin.
- Pin Punches 200mm (8") long:  
Two piece construction with a 90mm (3-3/4") long pin. The two piece construction allows the pin to have a separate hardness from the body which prevents "peening" and also ensures complete straightness over such a long length.



#### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
<b>Pin Punches 100mm (4")</b>			
GZ-25568	PP/4/ST PIN PUNCH SET, 100MM OAL, 4 PCE	\$17.50	A
GZ-25580	PP/8/WD/ST PIN PUNCH SET, IN ROUND WOODEN CASE, 100MM OAL, 8 PCE	\$42.50	A
<b>Pin Punches 200mm (8")</b>			
GZ-25508	DDP/5/ST PIN PUNCH SET, 200MM OAL, 5 PCE	\$36.95	A
GZ-25509	DDP/8/ST PIN PUNCH SET, 200MM OAL, 8 PCE	\$49.75	A

## DRIFT PUNCHES

- Manufactured from high grade carbon steel, these have a single piece construction. Accurately hardened and tempered for increased working life. The working ends are machine ground with the body in premium powder coated finish.
- Ideal for lining up holes in 2 or more pieces of metal and for drawing pins through various assemblies. These are also referred to as "Alignment Punches".



#### Technical Information



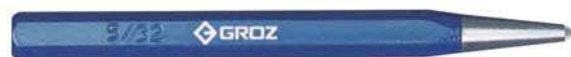
Part No.	Tip Diameter (D)	Stock Size	Overall Length
GZ-25801	1/8"	8mm	200mm
GZ-25802	5/32"	10mm	225mm
GZ-25803	3/16"	12mm	250mm

#### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-25801	DFP/HD/1-8 HEAVY DUTY DRIFT / ALIGNMENT PUNCH, TAPERED, 1/8"	\$5.75	A
GZ-25802	DFP/HD/5-32 HEAVY DUTY DRIFT / ALIGNMENT PUNCH, TAPERED, 5/32"	\$6.95	A
GZ-25803	DFP/HD/3-16 HEAVY DUTY DRIFT / ALIGNMENT PUNCH, TAPERED, 3/16"	\$11.50	A

## PRICK PUNCH

Prick Punches are used for marking metals in work layouts. These punches have a very sharp point (60° included angle), hence are highly suitable where very precise marking / scoring is required. These have a single piece construction with hexagonal shank. Manufactured from high quality carbon steel, they are accurately hardened for extended service life. The working ends are machine ground with the body in premium powder coated finish.



#### Technical Information



Part No.	Point Size (D)	Stock Size	Overall Length
GZ-25451	5/32"	10mm	125mm

#### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-25451	PKP/HD/3-8 HEAVY DUTY PRICK PUNCH, 5/32"	\$4.95	A



## NAIL PUNCHES

- Manufactured from high grade carbon steel, accurately hardened and tempered for increased service life. Clean-cut knurled round shank provides a positive non-slip grip. The 9.5mm (3/8") square head provides a larger striking area and also prevents the punch from rolling off. The striking end is chamfered to prevent breakage. This range of punches has a black oxide finish.
- Nail Punches are designed for driving nail heads below the surface of wood. The working end is cupped to follow the nail head without sliding off. These can also be used to remove nails that have an exposed point.



### Technical Information

Part No.	Tip Diameter	Stock Size	Overall Length
GZ-25360	1/32"	10mm	125mm
GZ-25361	1/16"	10mm	125mm
GZ-25362	3/32"	8mm	125mm
GZ-25363	1/8"	10mm	125mm
GZ-25366	A set of 3 Nail Punches in sizes 1/32", 1/16" & 3/32"		



### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-25360	NLP/SQ/1-32 NAIL PUNCH, SQUARE HEAD, 1/32"	\$3.75	A
GZ-25361	NLP/SQ/1-16 NAIL PUNCH, SQUARE HEAD, 1/16"	\$3.75	A
GZ-25362	NLP/SQ/3-32 NAIL PUNCH, SQUARE HEAD, 3/32"	\$3.75	A
GZ-25363	NLP/SQ/1-8 NAIL PUNCH, SQUARE HEAD, 1/8"	\$3.75	A
Sets			
GZ-25366	NLP/SQ/3/ST NAIL PUNCH SET, SQUARE HEAD, 3 PCE	\$10.95	A

## AUTOMATIC CENTRE PUNCH

### LIGHT DUTY

- Automatic single hand operated spring loaded punches.
- The built in mechanism delivers a punch just with the pressing of the head.
- The depth of the impression is variable and can be adjusted from light marking to heavy blows by turning the knurled head.
- Tips are made from hardened tool steel and can be easily removed for re-sharpening or replacement.



### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-25000	ACP/1B AUTOMATIC CENTRE PUNCH	\$14.50	A

## CENTRE PUNCHES

### ROUND HEAD

Single piece construction with round shank and round striking head. This range of punches have a rust inhibiting black oxide finish.



GZ-25120



GZ-25109

### Technical Information

Part No.	Contents
GZ-25109	A Set of 5 Centre Punches in sizes 11-16", 5/64", 3/32", 9/64" & 5/32" packed in a vinyl pouch
GZ-25120	A Set of 8 Centre Punches in sizes 1/16", 5/64", 3/32", 1/8", 9/64", 5/32", 3/16" & 7/32" packed to a wooden box

### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-25109	CP/5/ST CENTRE PUNCH SET, 5 PCE	\$17.50	A
GZ-25120	CP/8/WD/ST CENTRE PUNCH SET, IN ROUND WOODEN CASE, 8 PCE	\$45.00	A

# STEEL STAMPS

FOR HAND HELD, HAMMER STRUCK APPLICATIONS

GROZ, Letter and Number Stamps are manufactured from quality carbon steel. Punches are induction hardened, which gives durability and extended life for repeated use. The hardness at the stamping end is maintained at 58-62 HRC, the striking end is tempered to 38-43 HRC. This prevents the punch from splintering during use. The striking end is chamfered to prevent breakage.



## Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
<b>Number Stamps</b>			
GZ-25902	NP/3 NUMBER PUNCH SET, 3MM	\$9.75	A
GZ-25903	NP/4 NUMBER PUNCH SET, 4MM	\$10.50	A
GZ-25904	NP/5 NUMBER PUNCH SET, 5MM	\$13.95	A
GZ-25905	NP/6 NUMBER PUNCH SET, 6MM	\$17.95	A
GZ-25906	NP/8 NUMBER PUNCH SET, 8MM	\$25.00	A
GZ-25907	NP/10 NUMBER PUNCH SET, 10MM	\$29.95	A
GZ-25908	NP/12 NUMBER PUNCH SET, 12MM	\$54.00	A
<b>Letter Stamps</b>			
GZ-26102	LP/3 LETTER PUNCH SET, 3MM	\$29.00	A
GZ-26103	LP/4 LETTER PUNCH SET, 4MM	\$31.50	A
GZ-26104	LP/5 LETTER PUNCH SET, 5MM	\$42.00	A
GZ-26105	LP/6 LETTER PUNCH SET, 6MM	\$54.00	A
GZ-26106	LP/8 LETTER PUNCH SET, 8MM	\$75.00	A
GZ-26107	LP/10 LETTER PUNCH SET, 10MM	\$90.00	A
GZ-26108	LP/12 LETTER PUNCH SET, 12MM	\$165.00	A

# HOLLOW & ARCH PUNCHES

- Hollow & Arch Punches are used for punching round holes in gasket material, leather, rubber, canvas, cardboard, plastic & other soft material.
- Special design of the cutting edge prevents jamming of material inside the punch. Cutting edge is induction hardened for extended working life.



## Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
<b>Hollow Punches</b>			
GZ-26304	HPL/4 HOLLOW PUNCH, 4MM	\$3.60	A
GZ-26305	HPL/5 HOLLOW PUNCH, 5MM	\$3.85	A
GZ-26306	HPL/6 HOLLOW PUNCH, 6MM	\$4.50	A
GZ-26308	HPL/8 HOLLOW PUNCH, 8MM	\$5.40	A
GZ-26310	HPL/10 HOLLOW PUNCH, 10MM	\$6.40	A
GZ-26311	HPL/11 HOLLOW PUNCH, 11MM	\$7.50	A
GZ-26312	HPL/12 HOLLOW PUNCH, 12MM	\$8.75	A
GZ-26313	HPL/13 HOLLOW PUNCH, 13MM	\$8.75	A
GZ-26314	HPL/14 HOLLOW PUNCH, 14MM	\$9.25	A
GZ-26316	HPL/16 HOLLOW PUNCH, 16MM	\$10.60	A
GZ-26318	HPL/18 HOLLOW PUNCH, 18MM	\$12.40	A
GZ-26319	HPL/19 HOLLOW PUNCH, 19MM	\$13.20	A
GZ-26320	HPL/20 HOLLOW PUNCH, 20MM	\$13.20	A
GZ-26322	HPL/22 HOLLOW PUNCH, 22MM	\$16.50	A
GZ-26325	HPL/25 HOLLOW PUNCH, 25MM	\$20.75	A
<b>Arch Punches</b>			
GZ-26328	HPL/28 ARCH HOLLOW PUNCH, 28MM	\$44.00	A
GZ-26330	HPL/30 ARCH HOLLOW PUNCH, 30MM	\$44.00	A
GZ-26332	HPL/32 ARCH HOLLOW PUNCH, 32MM	\$44.00	A
GZ-26335	HPL/35 ARCH HOLLOW PUNCH, 35MM	\$44.00	A
GZ-26338	HPL/38 ARCH HOLLOW PUNCH, 38MM	\$65.80	A
GZ-26340	HPL/40 ARCH HOLLOW PUNCH, 40MM	\$65.80	A
GZ-26350	HPL/50 ARCH HOLLOW PUNCH, 50MM	\$65.80	A
<b>Sets</b>			
GZ-26391	HPL/6/ST HOLLOW PUNCH SET, 5 – 12MM, 6 PCE	\$35.00	A
GZ-26441	HPL/7/BEL/ST ARCH PUNCH SET, 6 – 25MM, 7 PCE	\$75.00	A



# SECTION 10 CHISELS & BOLSTERS

## COLD CHISELS

- Manufactured to the highest safety standards, individually forged from high quality alloy steel. The alloy content in these makes them ideal for all types of metalworking and masonry applications and also increases wear resistance significantly. The precisely ground cutting edge is induction hardened (52 – 58 HRC) to give improved performance over longer periods of time. Hardness at the striking end is maintained to under 42 HRC, so that the head will not splinter when subject to hammer blows. The shank is powder coated and cutting edge is accurately ground.
- Octagonal Chisels are used for general work on cutting and chipping of metals, and shaping, facing and cutting of stonework. The extra long chisels are useful for all cutting and shaping jobs where extra length is required. The larger size cold chisels are also available with strong impact proof polypropylene hand guards. These are designed to protect the user's hands from misplaced hammer blows.



### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
<b>Octagonal Cold Chisels</b>			
GZ-32800	CHS/ST/5/1-4 OCTAGONAL COLD CHISEL, 125MM X 6MM	\$4.25	A
GZ-32801	CHS/ST/5/5-16 OCTAGONAL COLD CHISEL, 125MM X 8MM	\$4.25	A
GZ-32802	CHS/ST/5/5-8 OCTAGONAL COLD CHISEL, 140MM X 10MM	\$5.10	A
GZ-32803	CHS/ST/6/1-2 OCTAGONAL COLD CHISEL, 150MM X 13MM	\$5.30	A
GZ-32804	CHS/ST/6/5-8 OCTAGONAL COLD CHISEL, 163MM X 16MM	\$6.70	A
GZ-32805	CHS/ST/7/3-4 OCTAGONAL COLD CHISEL, 175MM X 19MM	\$6.70	A
GZ-32818	CHS/ST/7/3-4 OCTAGONAL COLD CHISEL, 200MM X 13MM	\$6.70	A
GZ-32825	CHS/ST/8/3-4 OCTAGONAL COLD CHISEL, 200MM X 19MM	\$8.75	A
GZ-32826	CHS/ST/10/3-4 OCTAGONAL COLD CHISEL, 250MM X 19MM	\$9.90	A
GZ-32812	CHS/ST/12/3-4 OCTAGONAL COLD CHISEL, 300MM X 19MM	\$10.80	A
GZ-32823	CHS/ST/10/0-1 OCTAGONAL COLD CHISEL, 250MM X 25MM	\$16.00	A
GZ-32814	CHS/ST/12/0-1 OCTAGONAL COLD CHISEL, 300MM X 25MM	\$19.50	A
<b>Set</b>			
GZ-32830	CHS/ST/6/ST OCTAGONAL COLD CHISEL SET, 6 PCE	\$28.00	A
<b>Octagonal Cold Chisels with Grip</b>			
GZ-32841	CHS/ST/10/3-4GRP/TE OCTAGONAL COLD CHISEL WITH GRIP GUARD, 250MM X 19MM	\$16.00	A
GZ-32843	CHS/ST/12/3-4GRP/TE OCTAGONAL COLD CHISEL WITH GRIP GUARD, 300MM X 19MM	\$16.75	A
GZ-32842	CHS/ST/10/0-1GRP/TE OCTAGONAL COLD CHISEL WITH GRIP GUARD, 250MM X 25MM	\$22.50	A
GZ-32844	CHS/ST/12/0-1GRP/TE OCTAGONAL COLD CHISEL WITH GRIP GUARD, 300MM X 25MM	\$26.00	A

## PUNCH & CHISEL KITS

A range of kits carefully thought about, keeping in mind the needs of the journeyman, the farmer or rancher, the mechanic and the carpenter. This is an excellent way to keep your tools organized. These kits are packed in heavy duty vinyl rolls for easy access, organization and storage.



- GZ-33000**
- Octagonal Chisels 150mm, 163mm, 175mm
  - Centre Punches (Heavy Duty) 125mm
  - Pin Punches (Heavy Duty) 119mm, 132mm, 145mm
  - Starting Punches (Heavy Duty) 125mm



- GZ-33001**
- Octagonal Chisels 140mm, 150mm, 163mm, 175mm, 190mm
  - Centre Punches - Heavy Duty 125mm, 150mm
  - Pin Punches - Heavy Duty 100mm, 119mm, 132mm
  - Drift Punches - Heavy Duty 200mm, 225mm
  - Starting Punches - Heavy Duty 125mm, 150mm



- GZ-33002**
- Octagonal Chisels 125mm, 150mm, 163mm, 175mm, 200mm
  - Centre Punches - Heavy Duty 108mm, 138mm, 150mm
  - Pin Punches - Heavy Duty 119mm, 132mm, 145mm
  - Drift Punches - Heavy Duty (5mm width) 250mm, (6mm width) 250mm
  - Starting Punches - Heavy Duty (3mm width) 125mm, (5mm width) 125mm



- GZ-33004**
- Octagonal Chisels (6mm width) 125mm, (8mm width) 125mm, 140mm, 150mm, 163mm, 175mm, 190mm, 200mm, 300mm
  - Centre Punches - Heavy Duty 125mm, 150mm, 160mm
  - Pin Punches - Heavy Duty 100mm, 112mm, 119mm, 125mm, 132mm, 145mm, 163mm
  - Drift Punches - Heavy Duty 125mm, 200mm, 250mm, 300mm
  - Starting Punches - Heavy Duty (1.5mm width) 125mm, (3mm width) 125mm, (5mm width) 125mm, (6mm width) 125mm



- GZ-33003**
- Octagonal Chisels (6mm width) 125mm, (8mm width) 125mm, 140mm, 150mm, 163mm, 175mm, 190mm
  - Centre Punches - Heavy Duty 90mm, 125mm, 150mm
  - Pin Punches - Heavy Duty 100mm, 112mm, 119mm, 125mm, 132mm, 145mm, 150mm
  - Starting Punches - Heavy Duty (1.5mm width) 125mm, (3mm width) 125mm, (4mm width) 125mm, (5mm width) 125mm, (6mm width) 125mm, 150mm

### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-33000	KIT/8/ST PUNCH & COLD CHISEL SET, 8 PCE	\$42.00	A
GZ-33001	KIT/14/ST PUNCH & COLD CHISEL SET, 14 PCE	\$78.00	A
GZ-33002	KIT/16/ST PUNCH & COLD CHISEL SET, 16 PCE	\$90.00	A
GZ-33003	KIT/24/ST PUNCH & COLD CHISEL SET, 24 PCE	\$115.00	A
GZ-33004	KIT/26/ST PUNCH & COLD CHISEL SET, 26 PCE	\$150.00	A

## BRICK BOLSTER

- Manufactured as a single piece, forged from high quality carbon steel. Accurately hardened to BS 3066 specification.
- The cutting edge is hardened 52 - 58 HRC with the striking end maintained under 42 HRC.
- The complete Bolster is powder coated and the cutting edge is accurately ground.
- Available with polypropylene hand guards. These hand guards are designed to protect the user's hands from misplaced hammer blows.



### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-32601	BRC/75 BRICK BOLSTER, 75MM WIDE BLADE	\$26.00	A
GZ-32621	BRC/75/GRP/YE BRICK BOLSTER, 75MM WIDE BLADE WITH GRIP GUARD	\$32.50	A
GZ-32602	BRC/100 BRICK BOLSTER, 100MM WIDE BLADE	\$29.95	A
GZ-32622	BRC/100/GRP/YE BRICK BOLSTER, 100MM WIDE BLADE WITH GRIP GUARD	\$35.00	A



## ELECTRICIAN'S BOLSTER / FLOOR CHISEL

With a much thinner blade construction than a Brick Bolster, Electricians Floorboard Bolsters are used for cutting tongued joints & lifting floorboards.

### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-32642	FLR/CHS/9/2-1-2 FLOOR CHISEL, 225MM X 63MM WIDE	\$19.95	A
GZ-32643	FLR/CHS/9/2-1-2/GRP/YE FLOOR CHISEL, 225MM X 63MM WIDE WITH GRIP GUARD	\$26.00	A



## SECTION 11 HAND SCRAPERS

### HAND SCRAPERS

- Designed for removing high spots on machined surfaces for smooth and even surface on slideways, bearings, cast iron surface plates and precision marking out plates.
- Manufactured from high grade steel, hardened to 55-60 HRC and lightly tempered for lasting durability.
- All sizes have round wooden handle for comfortable grip during use.

### Price List

Part No.	Description	\$RRP ex. GST	Disc. Code
GZ-14600	ES/F/4 ENGINEERS HAND SCRAPER, FLAT 100MM	\$6.50	A
GZ-14601	ES/HR/4 ENGINEERS HAND SCRAPER, HALF ROUND 100MM	\$6.50	A
GZ-14602	ES/T/4 ENGINEERS HAND SCRAPER, TRIANGULAR 100MM	\$6.50	A
GZ-14603	ES/F/6 ENGINEERS HAND SCRAPER, FLAT 150MM	\$9.50	A
GZ-14604	ES/HR/6 ENGINEERS HAND SCRAPER, HALF ROUND 150MM	\$9.50	A
GZ-14605	ES/T/6 ENGINEERS HAND SCRAPER, TRIANGULAR 150MM	\$9.50	A
GZ-14606	ES/F/8 ENGINEERS HAND SCRAPER, FLAT 200MM	\$11.95	A
GZ-14607	ES/HR/8 ENGINEERS HAND SCRAPER, HALF ROUND 200MM	\$11.95	A
GZ-14608	ES/T/8 ENGINEERS HAND SCRAPER, TRIANGULAR 200MM	\$11.95	A



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## TERMS OF SALE

1. Prices & Specifications are subject to change without notice.
2. All prices within the GROZ pricelist Do Not Include GST, which will be shown separately on Tax Invoices as per ATO requirements.
3. Recommended Retail Prices are shown only for guidance of distributors.
4. Trading Terms are strictly 30 days to established accounts only.
5. Title does not pass on goods invoiced until payment is made in full.
6. Claims will not be recognised after 7 days from delivery of goods. Returns must be first authorised by our office, freight pre-paid, showing documents with the original invoice number. Returns are subject to 10% re-stocking fee unless prior arrangements have been made. Returns will only be accepted if goods are received in an unused and resalable condition.

## FREIGHT

Freight subsidies & F.I.S. deliveries depend on product, invoice value, delivery area and can be negotiated at the time of order.

