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Workshop Equipment

Product Grading



Production

High performance industrial tooling designed for continuous use applications on machine tools where repeatability and long tool life are of critical importance.



Professional

Industrial tooling that has enhanced features and benefits demanded by craftsmen and professional users.



Industrial

Designed for regular use in industrial applications. Manufactured to stringent quality levels and international standards.



Workshop

Standard quality tooling for use by tradesmen and generally industrial use.



Maintenance

Products designed for general maintenance of machines, workshops, garages and some household applications.



Home Improver

DIY quality tooling. Designed for home use and light industrial applications.



Product Groups 400 - 495

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Our Matlock Range of blue euro stacking containers are built for industrial and commercial use. Made from high grade polypropylene these containers are food approved. They are also resistant to acid and alkaline solutions, cold and heat. Lids supplied separately.



Lids to suit euro containers

External Size (mm) (L x W x H)	Order Code
400 x 300	-1540K
600 x 400	-1550K

External Size (mm)
(L x W x H)

Order Code
MTL-404
400 x 300 x 170 -1500K
400 x 300 x 220 -1510K
600 x 400 x 220 -1520K
600 x 400 x 320 -1530K

Euro Nesting Bins with Integral Lids

High strength polypropylene Euro boxes with reinforced corners and rims and integral interlocking hinged lids. Smooth flat base allows silent movement on conveyors making them suitable for use in distribution centres or warehouse storage. All containers feature ergonomic hand grips and can be sealed using security tags.

Available in 20, 40 or 54ltr capacities.



Capacity	Size (mm) H x W x L	Colour	Order Code
20ltr	260 x 300 x 400mm	Blue	-2500K
40ltr	250 x 400 x 600mm		-2520K
54ltr	335 x 400 x 600mm		-2530K
20ltr	260 x 300 x 400mm	Grey	-2600K
40ltr	250 x 400 x 600mm		-2620K
54ltr	335 x 400 x 600mm		-2630K

Euro Containers

Practical Euro boxes, ideal for use wherever hygienic stackable plastic containers play an important role in transport and storage. Resistant to acids and alkaline solutions, cold and heat. Optimal handling due to ergonomic handles. Suitable for conveyor systems.



Lids supplied separately
(No lid available for 800mm box)



Lids to suit foldable boxes and euro containers

Size (mm) L x W	Order Code
400 x 300mm	-4400K
600 x 400mm	-4402K

Size (mm) H x W x L	Order Code
170 x 300 x 400	-4210K
220 x 300 x 400	-4212K
170 x 400 x 600	-4234K
220 x 400 x 600	-4236K
320 x 400 x 600	-4240K

Euro Foldable Boxes

Foldable storage boxes made from tough grey polypropylene. Compatible in size with the Euro containers (use the same lids) and can be stacked with or without lids. Simple to collapse for space saving storage when not in use.



Lid supplied separately
see above

Size (mm) H x W x L	Order Code
600 x 400 x 320	-4330K

MATLOCK Plastic Storage Bins

Manufactured from high strength polypropylene. Fit on standard louvre panel, interlocking design. Supplied with risers and label holders.



Size	Size (mm) H x W x D	Order Code MTL-404				Box Quantity
		Blue	Green	Red	Yellow	
No.0	53 x 85 x 130	-1000B	-1000G	-1000R	-1000Y	300
No.1	80 x 104 x 163	-1010B	-1010G	-1010R	-1010Y	100
No.2	132 x 157 x 237	-1020B	-1020G	-1020R	-1020Y	64
No.3	165 x 222 x 278	-1030B	-1030G	-1030R	-1030Y	24
No.3A	184 x 280 x 350	-1035B	-1035G	-1035R	-1035Y	8
No.4	184 x 280 x 425	-1040B	-1040G	-1040R	-1040Y	12
No.5	260 x 280 x 425	-1050B	-1050G	-1050R	-1050Y	8

For Louvred Panels
See Page 284

Heavy Duty Plastic Storage Bins

Ergonomic packing - storing one container inside another exceptionally improves the logistics of packing. Slat attachments - can be attached with screws to a wall. Module - special clasps make it possible to create a wall of module boxes. Space for a label.



Size (mm) H x W x L	Order Code MTL-404			
	Blue	Green	Yellow	Red
75 x 116 x 112	-2130K	-2140K	-2160K	-2150K
75 x 116 x 161	-2170K	-2180K	-2200K	-2190K
75 x 116 x 212	-2210K	-2220K	-2240K	-2230K
126 x 170 x 240	-2250K	-2260K	-2280K	-2270K
155 x 204 x 340	-2290K	-2300K	-2320K	-2310K
187 x 330 x 500	-2330K	-2340K	-2360K	-2350K

Heavy Duty Bin/Rack Set

Each set comes with a fixing wall, a useful, wide plate which attaches to the wall with screws and can fit several containers of different sizes. Mounting of the boxes is based on an overlap system. It enables firm and stable fastening to the fixing wall, and quick removal when needed.

10 Piece Set

Contains 1 fixing wall,
3 blue bins,
3 black bins and
3 red bins.

10
PIECES

20 Piece Set

Contains 2 fixing walls,
6 blue bins,
6 black bins and
6 red bins.

20
PIECES



Item	Overall Size (mm)	Order Code MTL-404
10 Piece Set	345 x 385 x 90	-2110K
20 Piece Set	345 x 385 x 160	-2120K

SENATOR Plastic Storage Bins

High strength polypropylene bins with label holders. Bins can stand alone, be nested on top of each other or hung on louvred panels. Available in three sizes and four colours.



Product Number	Size (mm) H x W x L	Pack Qty	Order Code SEN-404			
			Blue	Green	Yellow	Red
Sen1	75 x 110 x 165	35	-1010B	-1010G	-1010Y	-1010R
Sen2	125 x 155 x 240	35	-1020B	-1020G	-1020Y	-1020R
Sen3A	165 x 220 x 350	10	-1040B	-1040G	-1040Y	-1040R

'Anti-Bump' Locking Clips

PACK OF
10

Made from zinc plated spring steel. Designed for use with Matlock louvre panels and bins. Effectively locks the bin into place on the panel to avoid accidental 'knock-off'. Also ideal for use on panels fitted to vans to avoid bins coming dislodged due to the effects of cornering and bumpy ground/road surfaces.

new

Order Code
MTL-404
-9100K

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR

Pressed steel panels with high frequency louvres that will accept most makes of plastic storage bin. High frequency louvres allow bins to be hung in a high-density configuration in any mix of sizes/colours. The lip on the rear of the plastic storage bin sits securely over the louvre of the panel. The modular design allows storage bins to be easily removed and replaced when required. Bins supplied separately - see page 283



Type	Size (mm) H x W	Order Code MTL-404
LP450	457 x 436	-2004P
LP900	914 x 436	-2009P
LP1600	1676 x 436	-2016P
LP1800	1829 x 436	-2018P

Bench Louvre Racks

A free standing unit supporting a louvre panel for use on benches or tables. Available in one height and two widths. Kit comprises: louvre panel, support rods and fixings.

Colour: light grey.

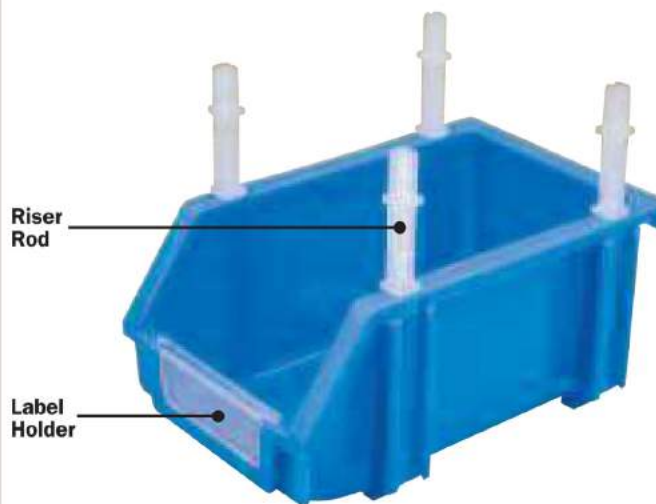


Bins supplied
separately - see page 283

Size (mm) H x W	Order Code MTL-405
457 x 436	-7250K
457 x 852	-7260K

Storage Bin Accessories

For Matlock storage bins.



Description	Order Code MTL-404
Set of 4 Riser Rods	-9010K
Single Riser rod for No.3A, 4 & 5 Bins	-9020K
Label Holder For No.0 Bins	-3500K
Label Holder For No.1 Bins	-3510K
Label Holder For No.2 Bins	-3520K
Label Holder For No.3 & 4 Bins	-3530K
Label Holder For No.3A & 5 Bins	-3540K

AVON Cardboard Storage Bins

For easy identification and storage of parts and other components on shelves. Manufactured from corrugated card with writable panels. Supplied flat in packs of 50.

Contents not included



Size (mm) H x W x L	Order Code AVN-404
115 x 76 x 152	-2010A
115 x 100 x 228	-2011B
115 x 152 x 228	-2012C
115 x 204 x 228	-2013D
115 x 100 x 304	-2014E

**MATLOCK Wall Mounting
Bin Kit 1**

Two panel kit, for vertical or horizontal mounting.

Two freestanding panels (W x H): 436 x 457mm.
8x CP1 yellow bins, 16x CP2 red bins,
6x CP3 yellow bins.
For vertical or horizontal mounting.

new

Bin Sizes	Size (mm) H x W x D
CP1	50 x 100 x 90
CP2	75 x 102 x 165
CP3	130 x 148 x 240
CP4	130 x 207 x 350
CP5	175 x 207 x 350
CP6	175 x 416 x 375



**For
vertical
or
horizontal
mounting**



Order Code
MTL-404
-0172A

Free-standing Midi Kit 2

A compact unit, to suit mechanical assembly work.

Free-standing panel (W x H): 457 x 922mm.
8x CP2 yellow bins,
6x CP3 red bins,
2x CP4 blue bins.

new



Order Code
MTL-404
-0173B

Free-standing Racks without Containers

Description	Size (mm) H x W	Order Code MTL-405
Single Sided	457 x 924	-7650K
	871 x 924	-7655K
	457 x 1838	-7660K
	871 x 1838	-7665K
Double Sided	457 x 924	-7610K
	871 x 924	-7615K
	457 x 1838	-7620K
	871 x 1838	-7625K

Free-standing Maxi Kit 3

Professional storage for maintenance and manufacture.

Free-standing panel (W x H): 871 x 1837mm.
16x CP1 yellow bins, 16x CP2 blue bins,
18x CP3 red bins, 8x CP4 green bins,
8x CP5 yellow bins, 2x CP6 red bins.

new



Order Code
MTL-404
-0174C

Double Sided Trolley Kit 4

Mobile storage for tools and components.

Double sided trolley (W x H): 457 x 1080mm.
8x CP1 yellow bins, 8x CP2 blue bins,
6x CP3 red bins, 4x CP4 green bins,
2x CP6 yellow bins.

new



Order Code
MTL-404
-0175D

Mobile Trolley without Containers

Size (mm) W x H	Order Code MTL-405
457 x 1080	-7410K
877 x 1080	-7420K

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MATLOCK

Standard Duty Racking

5 Shelves

This racking system has uprights and beams made of medium gauge steel with a corrosion resistant powder coating and rubber feet to protect the floor. It is easy to assemble, interlocking with no nuts and bolts to worry about. The shelves are easily adjustable and can take up to 100kg UDL (uniformly distributed load) with the rack being fixed to a wall.

Supplied with wooden shelves.



Shelf Capacity
100kg
Uniformly
Distributed Load

**SELF ASSEMBLY
Tools
Required**

Size (mm) H x W x D	Max. Shelf Capacity	Number of Shelves	Order Code MTL-405
1830 x 1010 x 400	100kg	5	-1760K
Shelf to suit MTL-405-1760K			-8670K

Heavy Duty Racking

5 Shelves

This racking system has two ways of assembly with uprights and beams made of heavy gauge steel with a corrosion resistant powder coating and rubber feet to protect the floor. It is easy to assemble, interlocking 'keyhole' slots, no nuts and bolts. The shelves are easily adjustable and can take up to 318kg UDL (uniformly distributed load) with the rack being fixed to a wall.



**FAST
RACK**

-1780K

Assembly options



**SELF ASSEMBLY
Tools
Required**

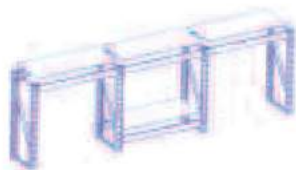
Size (mm) H x W x D	Max. Shelf Capacity	Number of Shelves	Order Code MTL-405
1830 x 915 x 460	318kg	5	-1740K
1830 x 1230 x 610	318kg	5	-1780K
Shelf to suit MTL-405-1740K			-8640K
Shelf to suit MTL-405-1780K			-8700K

Heavy Duty Racking

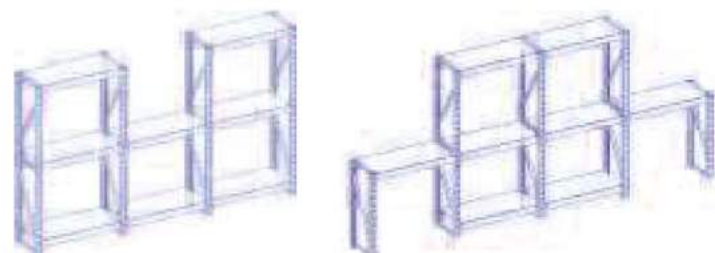
4 Shelves

This racking system can be assembled in five ways and has uprights and beams made of heavy gauge steel with a corrosion resistant powder coating and rubber feet to protect the floor. It is easy to assemble, interlocking with just two nuts and bolts joining one upright frame to the next. The 430mm deep shelves are easily adjustable and can take up to 455kg UDL (uniformly distributed load) with the rack being fixed to a wall.

Assembly options

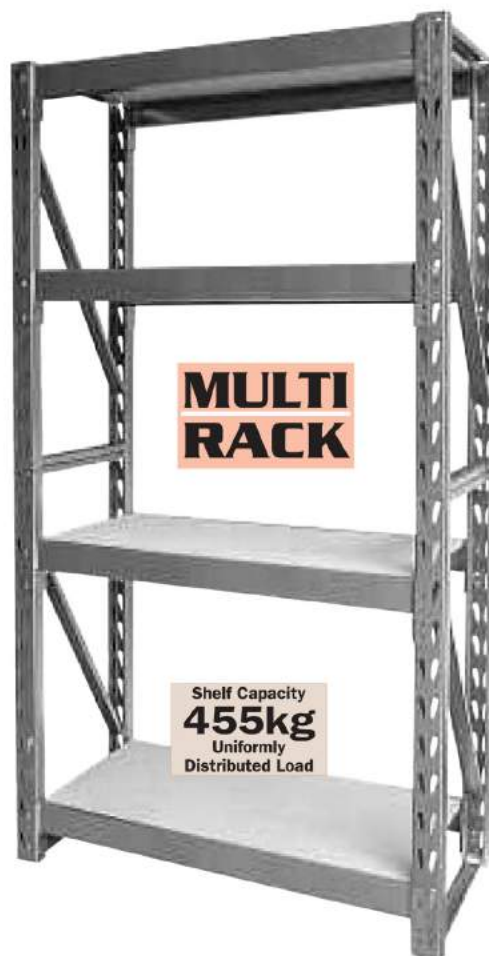


Extended assembly requires 2x -1660K



**SELF ASSEMBLY
Tools
Required**

Size (mm) H x W x D	Max. Shelf Capacity	Number of Shelves	Order Code MTL-405
1830 x 1040 x 430	455kg	4	-1660K
Shelf to suit MTL-405-1660K			-8610K



**MULTI
RACK**

Shelf Capacity
455kg
Uniformly
Distributed Load

Rapid clamping. Full graduated working surface with channelled chuck block guides. Includes four adjustable chuck blocks and 4 profile blocks. Aluminium mitre guides and lower support arm to assist power tool use. Rapid fold/unfold with quick lock and release action, compact and easy to store.


Rapid clamping

Aluminium mitre guide

Lower support arm

Mitre clamping

**Rapid fold/unfold
with auto lock**

WOODWORKING BENCHES

**GROUP
405**

Group 279

Group 959

Description	Order Code
4-in-1 portable workbench	KEN-405
Spare Parts	
Spare clamping block	-4610K
Replacement Rubber Feet (Pk 4)	-4620K

Portable Bench Top Workstation

Includes two trays to store tools & small parts. Full graduated working surface with channelled chuck block guides. Includes four adjustable chuck blocks and profile adaptor blocks. Mounting holes in the feet of the workstation allow it to be fitted to a workbench if required. Compact, portable with carry handle and easy to store.


Storage trays

Mitre clamping

**Compact, portable & easy
to store**

**Fully graduated working
surface**

Description	Order Code
4-in-1 portable workbench	KEN-405
Spare Parts	
Spare clamping block	-4610K
Spare clamping handle c/w sleeve	-4720K

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR

GROUP 413/415 GROUND FLAT STOCK/STEEL SHIMS

INDEXA Ground Flat Stock

Precision ground flat stock supplied in **1.2510 (100MnCrW1)** Tool Steel, a wide range of Metric sizes. Oil hardening tool steel supplied in annealed condition. It offers good durability, gives excellent wear resistance and holds a good cutting edge.

An excellent general purpose grade. Applications include medium run dies, press tools, drawing punches, broaches, bushings, lathe centres, chuck jaws, master cavity sinking hobs, paper cutting machine knives, plug gauges, thread gauges and precision measuring tools. It is also used in applications such as cams, cloth cutting knives, cold taps, reamers, trimmer dies, tube expander rolls, plastic moulds and woodworking knives, collets, cutting hobs and strip slitting cutters.

Top & bottom surfaces supplied in ground condition. Both ends supplied sawn cut.

Metric - Preferred Size List

Generally available from stock.

All sizes listed are 500mm long.

METRIC

Thickness x Width (mm)	Order Code IND-413	Thickness x Width (mm)	Order Code IND-413
2.0 x 10	-3300A	5.0 x 20	-3602C
2.0 x 15	-3301B	5.0 x 25	-3603D
2.0 x 20	-3302C	5.0 x 30	-3604E
2.0 x 25	-3303D	5.0 x 40	-3605F
2.0 x 40	-3305F	5.0 x 50	-3606G
2.0 x 50	-3306G	5.0 x 75	-3608J
3.0 x 10	-3400A	5.0 x 100	-3610L
3.0 x 15	-3401B	5.0 x 150	-3612N
3.0 x 20	-3402C	6.0 x 15	-3702C
3.0 x 25	-3403D	6.0 x 20	-3703D
3.0 x 30	-3404E	6.0 x 25	-3704E
3.0 x 40	-3405F	6.0 x 30	-3705F
3.0 x 50	-3406G	6.0 x 40	-3706G
3.0 x 75	-3408J	6.0 x 50	-3707H
3.0 x 100	-3410L	6.0 x 60	-3708J
3.0 x 150	-3412N	6.0 x 75	-3709K
4.0 x 15	-3501B	6.0 x 100	-3711M
4.0 x 20	-3502C	6.0 x 150	-3713P
4.0 x 25	-3503D	6.0 x 200	-3714Q
4.0 x 30	-3504E	8.0 x 15	-3802C
4.0 x 40	-3505F	8.0 x 20	-3803D
4.0 x 50	-3506G	8.0 x 25	-3804E
4.0 x 60	-3507H	8.0 x 30	-3805F
4.0 x 100	-3510L	8.0 x 40	-3806G
5.0 x 15	-3601B	8.0 x 50	-3807H

Tolerances

	Metric	Inch
Thickness:	-0/+0.005mm	-0/+0.001"
Width:	-0/+0.20mm	-0/+0.005"
Length:	-5/+5.00mm	-0.2"/+0.2"
Square Bars:	-0/+0.10mm	-0/+0.003"

Material Specification

DIN Grade..1.2510 (100MnCrW1)
Nearest AISI Standard01
Hardness230 HB
Surface Roughnessmax. 3.2µm

Chemical Composition

C Carbon.....0.90 - 1.05%
Si Silicon 0.15 - 0.35%
Mn Manganese1.00 - 1.20%
Cr Chromium0.50 - 0.70%
V Vanadium0.05 - 0.15%
W Tungsten 0.50 - 0.70%
P Phosphorous.....max. 0.035%
S Sulphur.....max. 0.035%

Inch - Preferred Size List

Generally available from stock.

All sizes listed are 18" long.

INCH

Thickness x Width (mm)	Order Code IND-413	Thickness x Width (mm)	Order Code IND-413
12 x 100	-4110L	N/A	
12 x 125	-4111M	N/A	
12 x 150	-4112N	N/A	
15 x 20	-4201B	N/A	
15 x 25	-4202C	N/A	
15 x 30	-4203D	N/A	
15 x 40	-4204E	N/A	
15 x 50	-4205F	N/A	
15 x 100	-4209K	N/A	
15 x 150	-4211M	N/A	
20 x 20	-4300A	N/A	
20 x 25	-4301B	N/A	
20 x 30	-4302C	N/A	
20 x 40	-4303D	N/A	
20 x 50	-4304E	N/A	
20 x 75	-4306G	N/A	
20 x 100	-4308J	N/A	
20 x 150	-4310L	N/A	
25 x 25	-4400A	N/A	
25 x 40	-4402C	N/A	
25 x 50	-4403D	N/A	
25 x 75	-4405F	N/A	

WORKSHOP EQUIPMENT

INDEXA Steel Shims

Metric sizes:

150mm x 2.5m roll in a range of thicknesses from 0.050mm to 0.800mm. Also available in a 8 piece pack - 150mm x 300mm covering thicknesses from 0.05mm to 0.50mm.



Thickness (mm)	Size W x L (mm x m)	Weight each	Order Code IND-415
0.050	150 x 2.5	190g	-1070A
0.100	150 x 2.5	330g	-1071B
0.150	150 x 2.5	520g	-1072C
0.200	150 x 2.5	690g	-1073D
0.250	150 x 2.5	830g	-1074E
0.300	150 x 2.5	1.02kg	-1075F
0.400	150 x 2.5	1.25kg	-1076G
0.500	150 x 2.5	1.75kg	-1077H

Assorted pack - Metric

Contains one of each of the following thickness of shim: 0.05mm - 0.50mm, 150mm x 300mm.

**8
PIECES**

Size W x L (mm x m)	Weight each	Order Code IND-415
150 x 300	6.58g	-2010A

Inch sizes:

6" x 100" roll in a range of thicknesses from 0.001" to 0.031". Also available in a 12 piece pack - 6" x 12" rolls covering thicknesses from 0.001"-0.015".

Thickness	Size W x L	Weight each	Order Code IND-415
0.001"	6" x 100"	110g	-1010A
0.002"	6" x 100"	190g	-1012C
0.003"	6" x 100"	260g	-1014E
0.004"	6" x 100"	380g	-1015F
0.005"	6" x 100"	440g	-1016G
0.006"	6" x 100"	520g	-1017H
0.007"	6" x 100"	590g	-1018J
0.008"	6" x 100"	690g	-1019K
0.009"	6" x 100"	750g	-1020L
0.0010"	6" x 100"	830g	-1021M
0.0012"	6" x 100"	1.02kg	-1022N
0.0015"	6" x 100"	1.25kg	-1023P

Assorted pack - Inch sizes

Contains one of each of the following thickness of shim: 0.001" - 0.015", 6" x 12".

**12
PIECES**

Size W x L	Weight each	Order Code IND-415
6" x 12"	6.0kg	-1050A

High grade mild steel. Available in square or rectangular sections.
Metric manufactured from: **BS4235 Part 7 1972 grade steel**
equivalent to **DIN 6885**.

Inch manufactured from:

BS46 PART 7 1958 pgrade steel.

Length: 300mm and 12".

Other sizes available on request.

KEY STEEL/RACK CLAMPS

**GROUP
416**


Set Metric Square

Contents: 4, 5, 6, 8, 10 and 12mm Square

No. of Pieces	Weight each	Order Code	
6	850g	-0500K	N/A

Square – Metric

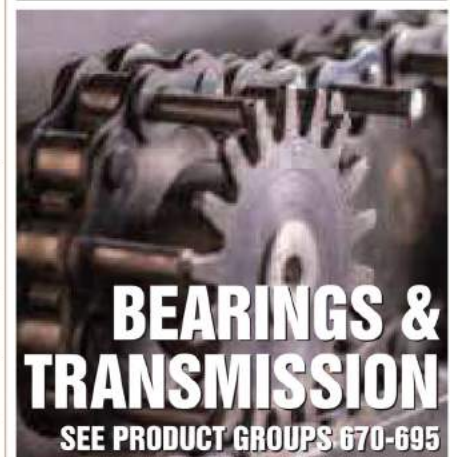
Type	Size	Order Code	
mm	2mm	-0020K	N/A
	3mm	-0030K	N/A
	4mm	-0040K	N/A
	5mm	-0050K	N/A
	6mm	-0060K	N/A
	7mm	-0070K	N/A
	8mm	-0080K	N/A
	10mm	-0100K	N/A
	12mm	-0120K	N/A
	14mm	-0140K	N/A
	16mm	-0160K	N/A
	18mm	-0180K	N/A
	20mm	-0200K	N/A
	22mm	-0220K	N/A
	25mm	-0250K	N/A

Square – Inch

Type	Size	Order Code	
inch	3/32"	-3060K	N/A
	1/8"	-3080K	N/A
	5/32"	-3100K	N/A
	3/16"	-3120K	N/A
	1/4"	-3160K	N/A
	5/16"	-3200K	N/A
	3/8"	-3240K	N/A
	7/16"	-3280K	N/A
	1/2"	-3320K	N/A
	9/16"	-3360K	N/A
	3/4"	-3480K	N/A
	5/8"	-3400K	N/A
	7/8"	-3560K	N/A
	1"	-3640K	N/A

Rectangular – Metric

Type	Size	Order Code	
mm	8 x 5mm	-0850K	N/A
	8 x 7mm	-0870K	N/A
	10 x 8mm	-1080K	N/A
	12 x 8mm	-1280K	N/A
	12 x 10mm	-1300K	N/A
	14 x 9mm	-1490K	N/A
	16 x 10mm	-1610K	N/A
	18 x 11mm	-1910K	N/A
	20 x 12mm	-2120K	N/A
	22 x 14mm	-2400K	N/A
	25 x 14mm	-2420K	N/A
	28 x 16mm	-2550K	N/A
	32 x 18mm	-2650K	N/A
	36 x 20mm	-2700K	N/A



BEARINGS & TRANSMISSION

SEE PRODUCT GROUPS 670-695

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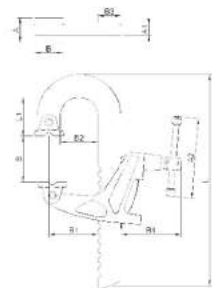
WORKSHOP EQUIPMENT

INDEXA

Industrial Rack Clamps

For various engineering and maintenance applications across all industrial sectors.
A bright yellow epoxy coating gives the sliding jaw and J-bar added protection, preventing significant deterioration and prolonging the working life of the working parts.

Features: Spring loaded jaw that stays in position when pressure removed. Jaw moves to securely clamp angled surfaces. No long screws to bend. Tightening the clamps does not impose rotation to the workpiece.



Applications:

Metal fabrication
Welding
Machining
Site maintenance
Moulding box and die holding
Toolroom
Plastic and fibreglass moulding
Plate fabrication



**Clamping Force 1000kgf
(10kN)**

Product Number	Description	Capacity (S)	Load (kN)	Weight kg	A	A1	A2	B	B1	B2	B3	B4	L	L1	Order Code
SD150	Standard Duty Rack Clamp	150	10	1.3	25	10	76	32	60	47	30	76	279	43.5	-7815K
SD300		300		1.9									429		-7830K
SD500		500		2.4									629		-7850K
SD750		750		3.1									879		-7875K

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INDEXA Indexa T-Slot Clamping Kits

Designed to save set up time and solve most T-Slot clamping problems. All components are manufactured from **S45C (JIS)/CK45 (DIN)** grade non-alloy carbon steel, heat treated to HRC 28 - 32 and have a manganese phosphate surface finish. Supplied in a robust plastic case.



T-Slot Size	Thread Size	Part Number	Weight each	Order Code
12mm	M10	TK10	9kg	-3610T
14mm	M12	TK12	10kg	-3612T
16mm	M14	TK14	11kg	-3614T
18mm	M16	TK16	14kg	-3616T
20mm	M18	TK18	20.5kg	-3618T

ATLAS
WORKHOLDERS

T-Slot Steel Clamping Sets

Designed to save set up time and solve most clamping problems. Manufactured to high standards. All step clamps are forged and hardened and the step blocks are made from high quality steel. All components (other than the studs) are heat treated and finished in black oxide. Available to suit a full range of metric and imperial T-Slot widths. Supplied in steel racks which can be wall mounted or fitted to workbenches for ease of storage (except M16 set which is supplied in wooden box).



Engineers Stud



Step Block



T-Slot Nut



Flanged Nut



Extension Nut



Step Clamp



58 Pieces Metric Sets

(Quantity of each component part given in brackets)

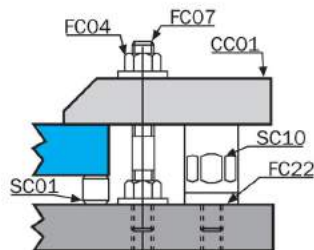
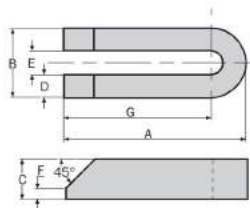
Product Number	T-Slot Nut Size x W x L (mm)	Thread Size	Weight each	Order Code
CK120100	12 x 18 x 14	M10	10kg	-1120K
CK140120	14 x 22 x 16	M12	12kg	-1140K
CK160140	16 x 25 x 18	M14	12kg	-1160K
CK180140	18 x 25 x 18	M14	12kg	-1180K
CK200160	20 x 28 x 20	M16	14kg	-1200K

58 Pieces Inch Sets

(Quantity of each component part given in brackets)

Product Number	T-Slot Nut Size x W x L (mm)	Thread Size	Weight each	Order Code
CK500375	1/2" x 1 1/16" x 1 7/32"	3/8" UNC	10kg	-1320K
CK62500	9/16" x 7/8" x 5/8"	1/2" UNC	12kg	-1360K
CK62550	5/8" x 7/8" x 5/8"	1/2" UNC	12kg	-1400K
CK750625	3/4" x 1 3/8" x 1 1/8"	5/8" UNC	12kg	-1480K

Open end permits quick and easy installation.



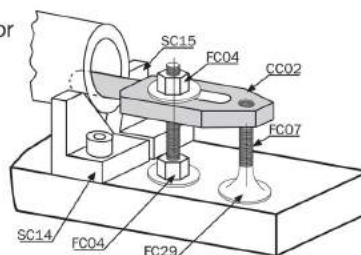
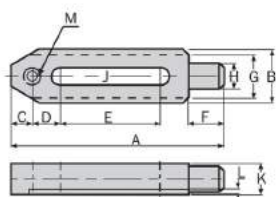
Material: Medium Carbon Steel.
Heat treated to: HRC 32 - 38.
Surface finish: Black Oxide.



Product Number	Length x Width A x B	Dimensions (mm)						Weight each	Order Code
		C	D	E	F	G			IND-425
CC010112	100 x 38mm	22	12.5	13	6	81		0.41kg	-1005D
CC010316	150 x 50mm	30	16.5	17	8	125		1.10kg	-1005J
CC010420	200 x 60mm	35	19.5	21	10	170		2.10kg	-1005M

CC02 - Bore Clamp

The cylindrical pin minimises the contact area. This clamp is for clamping inside horizontal bores and onto concave surfaces.



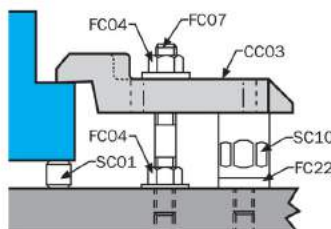
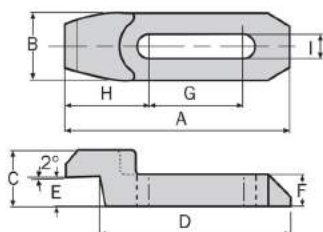
Material: Medium Carbon Steel.
Heat treated to: HR C32 - 38.
Surface finish: Black Oxide.



Product Number	Length x Width A x B	Dimensions (mm)											Weight each	Order Code
		C	D	E	F	G	H	J	K	L	M			IND-425
CC020112	150 x 38mm	15	20	70	25	30	18	13	22	4	M12		0.58kg	-1010D
CC020216	150 x 48mm	20	25	40	35	40	24	17	32	5	M16		1.12kg	-1010G
CC020316	200 x 48mm	20	25	90	35	40	24	17	32	5	M16		1.50kg	-1010J

CC03 - Swan Necked Clamp

Low profile design helps eliminate cutter interference.



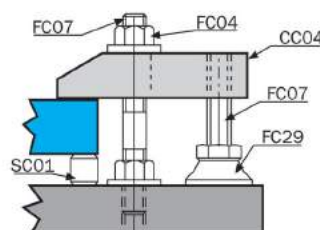
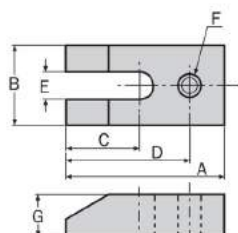
Material: Medium Carbon Steel.
Heat treated to: HRC 32 - 38.
Surface finish: Black Oxide.



Product Number	Length x Width A x B	Dimensions (mm)								Weight each	Order Code
		C	D	E	F	G	H	I			IND-425
CC030112	120 x 36mm	30	102	16	17	50	45	13		0.49kg	-1015H
CC030216	150 x 48mm	48	130	25	25	55	60	17		1.30kg	-1015K
CC030320	175 x 60mm	60	150	30	30	65	70	21		2.26kg	-1015N

CC04 - Tapped End U-Clamp

Open end design permits easy assembly.



Material: Medium Carbon Steel.
Heat treated to: HRC 32 - 38.
Surface finish: Black Oxide.

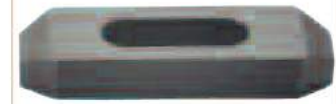
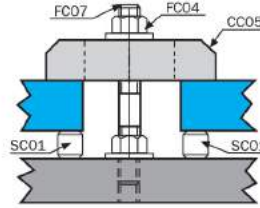
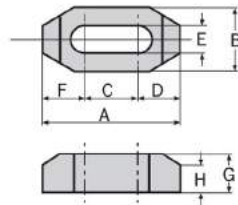


Product Number	Length x Width A x B	Dimensions (mm)						Weight each	Order Code
		C	D	E	F	G			IND-425
CC040616	150 x 50mm	95	130	17	M16	25		1.50kg	-1020R

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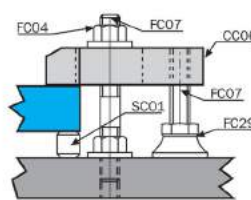
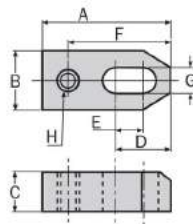
Material: Medium Carbon Steel.
Heat treated to: HRC 32 - 38.
Surface finish: Black Oxide.



Product Number	Length x Width A x B	Dimensions (mm)						Weight each	Order Code
		C	D	E	F	G	H		IND-425
CC050112	65 x 32mm	25	20.0	13	20.0	19	13	0.22kg	-1025D
CC050212	100 x 32mm	40	30.0	13	30.0	19	13	0.33kg	-1025G
CC050316	80 x 38mm	24	28.0	17	28.0	22	14	0.34kg	-1025J
CC050416	125 x 38mm	41	42.0	17	42.0	22	14	0.57kg	-1025M
CC050520	100 x 38mm	32	34.0	21	34.0	22	14	0.41kg	-1025P
CC050620	125 x 38mm	40	42.5	21	42.5	25	15	0.62kg	-1025R

CC06 - Tapped End Plain Clamp

For use with various knobs, jack screws, clamps and pads.

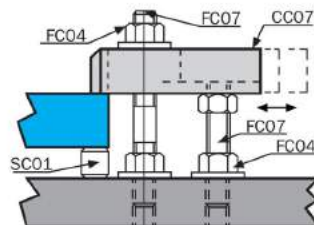
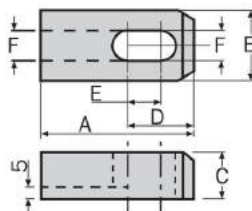


Material: Medium Carbon Steel.
Heat treated to: HRC 32 - 38.
Surface finish: Black Oxide.



Product Number	Length x Width A x B	Dimensions (mm)						Weight each	Order Code
		C	D	E	F	G	H		IND-425
CC060112	65 x 32mm	19	32	14	52	13	M12	0.22kg	-1030D
CC060212	80 x 32mm	19	48	25	69	13	M12	0.27kg	-1030F
CC060312	100 x 32mm	19	60	40	89	13	M12	0.33kg	-1030H
CC060416	80 x 38mm	19	40	17	65	17	M16	0.32kg	-1030J
CC060516	100 x 38mm	25	55	30	85	17	M16	0.53kg	-1030L
CC060616	125 x 38mm	25	70	45	110	17	M16	0.65kg	-1030N
CC060720	150 x 50mm	25	82	50	134	21	M20	1.10kg	-1030P
CC060820	200 x 50mm	25	112	80	184	21	M20	1.90kg	-1030R

CC07 - Slotted End Clamp



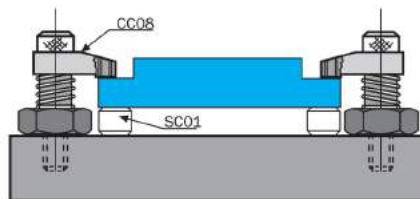
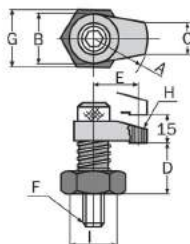
Material: Medium Carbon Steel.
Hardness: HRC 32 - 38.
Surface finish: Black Oxide.



Product Number	Length x Width A x B	Dimensions (mm)				Weight each	Order Code
		C	D	E	F		IND-425
CC070212	80 x 32mm	22	48	25	13	0.31kg	-1035F
CC070616	125 x 38mm	25	70	45	17	0.65kg	-1035N

CC08 - Swing Clamp

A small clamp with good holding power, ideal for tight spaces, full swing away feature permits easy part loading.

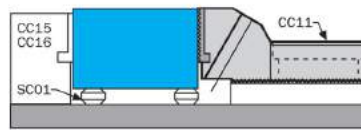
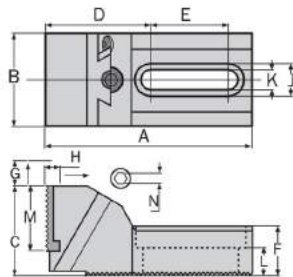


Material: Case Hardened Steel.
Hardness: HRC 38 - 42.
Surface finish: Black Oxide.

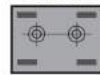


Product Number	Length x Width A x B	Dimensions (mm)							Weight each	Order Code
		C	D	E	F	G	H	I		IND-425
CC080112	30 x 28mm	16	40	-	M12	29	-	21	0.29kg	-1040D
CC080212	50 x 32mm	20	45	40	M12	36	M12	26	0.50kg	-1040G
CC080316	60 x 40mm	25	45	45	M16	41	M16	32	0.75kg	-1040J

Clamping force in two directions, with serrated jaws for holding large or irregular shapes.



Serrated



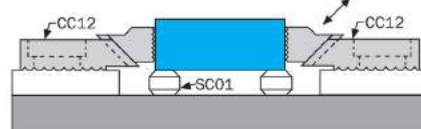
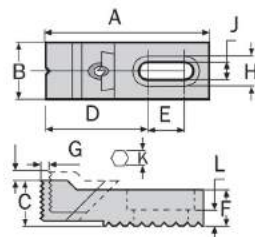
Material: Body: Grey Cast Iron.
Jaw: Medium Carbon Steel EN8D.
Hardness: Jaw Only: HRC 45 - 48.
Surface finish: Jaw: Black Oxide.



Product Number	Type	Length x Width A x B	Dimensions (mm)											Weight each	Order Code
			C	D	E	F	G	H	J	K	L	M	N		
CC110112	Serrated	133 x 60mm	54.5	68	50	32	16	6	22	13	16.8	42	10	2.0kg	IND-425 -1045D

CC12 - Adjustable Clamp

Low profile clamp that keeps top surfaces clear for machining. Ideal for rough or finished parts.



Ground

Serrated



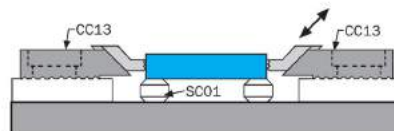
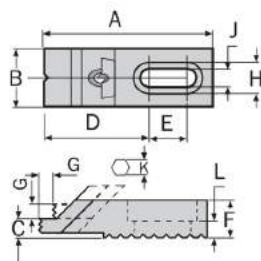
Material: Medium Carbon Steel.
Hardness: Jaw Only: HRC 38.
Surface finish: Black Oxide.
Jaws: Surface treated with high frequency quenching.



Product Number	Type	Length x Width x Height A x B x C	Dimensions (mm)								Weight each	Order Code IND-425
			D	E	F	G	H	J	K	L		
CC120108	Serrated	73.45 x 25 x 18mm	46.95	16.5	16	7	14	8.5	4	7	0.18kg	-1050D
CC120212		106.64 x 35 x 27.5mm	62.14	30.0	22	12	20	13.5	6	9	0.52kg	-1050F
CC120316		134.64 x 40 x 37.5mm	82.14	35.0	30	14	26	17.0	8	13	1.02kg	-1050H
CC120408	Ground	72.00 x 25 x 20.0mm	45.00	16.0	16	7	14	8.5	4	7	0.16kg	-1050J
CC120512		104.64 x 35 x 27.5mm	62.14	30.0	22	12	20	13.5	6	9	0.52kg	-1050M
CC120616		134.64 x 40 x 37.5mm	82.14	35.0	30	14	26	17.0	8	13	1.02kg	-1050R

CC13 - Adjustable Stepped Clamp

Low profile clamp for holding thin parts and keeping top surfaces clear for machining.



Ground

Serrated

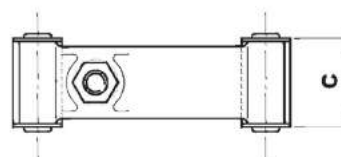
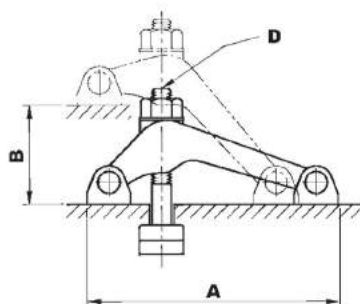


Material: Medium Carbon Steel.
Heat treated to: HRC 38.
Surface finish: Black Oxide.
Jaws: Surface treated with high frequency quenching.



Product Number	Type	Length x Width x Height A x B x C	Dimensions (mm)								Weight each	Order Code IND-425
			D	E	F	G	H	J	K	L		
CC130108	Serrated	73.45 x 25 x 18mm	46.95	16.5	16.5	7	14	8.5	5	7	0.18kg	-1055D
CC130212		106.64 x 35 x 27.5mm	64.14	30.0	22.0	12	20	13.5	6	9	0.52kg	-1055F
CC130316	Ground	133.14 x 40 x 14mm	90.00	30.0	30.0	14	26	17.0	8	13	0.85kg	-1055H
CC130512		105 x 35 x 27.5mm	64.14	26.0	22.0	12	20	13.5	6	9	0.52kg	-1055M

CC19 - Forged Swivel Clamp

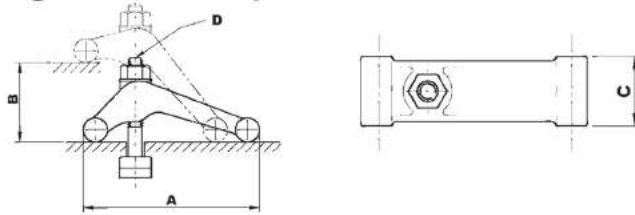


Material: Medium Carbon Steel/Steel Forging.
Heat treated to: 32 - 38°.
Surface finish: Black Oxide.



Product Number	Length x Width A x B	Dimensions (mm)		Weight each	Order Code
		C	D		
CC19-NC50	131 x 75mm	46.5	M12-125	1.50kg	IND-425 -1085D

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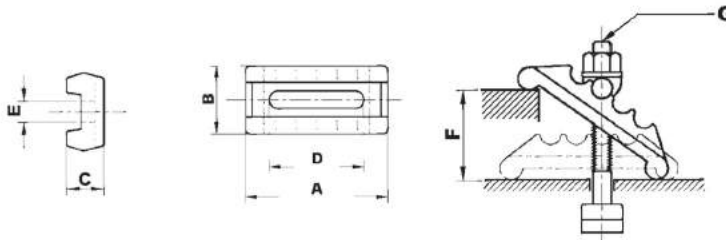
Material: Medium Carbon Steel/Steel Forging.
Heat treated to: 32 - 38°.
Surface finish: Black Oxide.



Product Number	Length x Width A x B	Dimensions (mm)		Weight each
CC20-NC6	150 x 85mm	C	D	2.42kg
CC20-NC8	194 x 105mm	52	M16-150	4.50kg
		58	M20-175	

Order Code
IND-425
-1090M
-1090T

CC21 - Swivel Rack Clamp



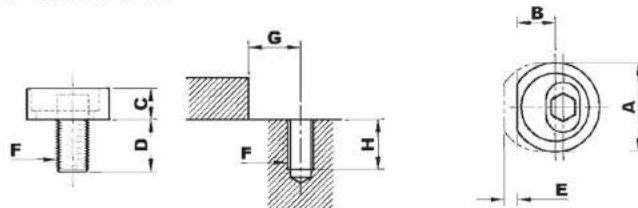
Material: Medium Carbon Steel/Steel Forging.
Surface finish: Black Oxide.



Product Number	Length x Width A x B	Dimensions (mm)					Weight each
CC21-0216	125 x 56mm	C	D	E	F	G	2.10kg
		33	84	18	65	M16	

Order Code
IND-425
-1095M

CC24 - Eccentric Cam Lock



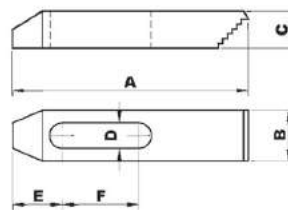
Material: Medium Carbon Steel.
Hardness: HRC 35.
Surface finish: Black Oxide.



Product Number	Dimensions (mm)								Weight each
	A	B	C	D	E	F	G	H	
CC240210	26	11.8	8	14.3	4	M10	12.5	22	.03kg
CC240312	30	13.5	9	19	5	M12	14.5	22	.06kg
CC240416	38	16.0	12	23	6	M16	17.5	26	.12kg

Order Code
IND-425
-1110C
-1110G
-1110P

CC25 - Step Clamp

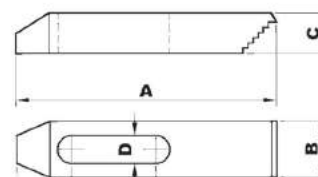


Material: Medium Carbon Steel.
Hardness: HRC 32 - 38.
Surface finish: Black Oxide.



Product Number	Length x Width A x B	Dimensions (mm)				To Suit Stud Size	Weight each
		C	D	E	F		
CC251463	63 x 25mm	13	15	20	14	M14	0.12kg
CC2514100	100 x 32mm	19	15	29	34	M14	0.38kg
CC2514150	150 x 32mm	22	15	32	50	M14	0.68kg
CC2516100	100 x 32mm	19	17	31	26	M16	0.42kg
CC2516150	150 x 30mm	22	17	40	47	M16	0.72kg

Order Code
IND-425
-1130C
-1130G
-1130J
-1135G
-1135J

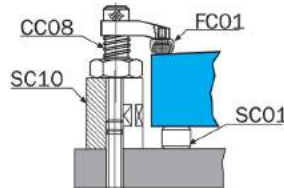
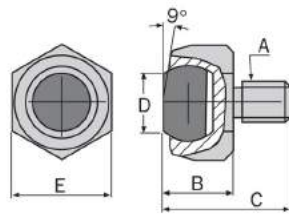
ATLAS
WORKHOLDERSStep
Clamp

Material: Medium Carbon Steel.
Hardness: HRC 32 - 38.
Surface finish: Black Oxide.



Product Number	To Suit Stud Size	Dimensions (mm)				Order Code
		A x B	C	D		ATL-425
SC105222	M10/3/8" UNC	55 x 25	12	13		-2020K
SC108825		88 x 25	16	11		-2040K
SC1012828		128 x 28	19	11		-2060K
SC126428	M12/1/2" UNC	64 x 28	12	13		-2120K
SC1210032		100 x 32	19	13		-2140K
SC1215032		150 x 32	22	13		-2160K
Product Number	To Suit Stud Size	Dimensions (mm)				Order Code
		A x B	C	D		ATL-425
SC146428	M14	64 x 28	12	15		-2220K
SC1410035		100 x 35	19	15		-2240K
SC1415032		150 x 32	22	15		-2260K
SC166432	M16/5/8" UNC	64 x 32	12	17		-2420K
SC1610038		100 x 38	20	17		-2440K
SC1615038		150 x 38	22	17		-2460K

Precision swivel ball that can be used either as a contact bolt or rest pad. As contact pads these swivel ball units are ideal for evenly distributing clamping pressure on sloped or uneven surfaces.



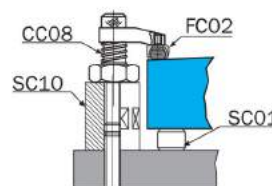
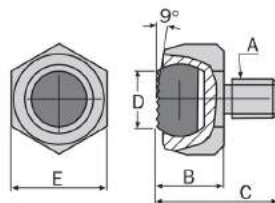
Material:
Body - Medium Carbon Steel.
Ball - Through Hardened Steel
EN 31.
Hardness:
Bolt - HRC 35.
Ball - HRC 62.
Surface finish:
Black Oxide.



Product Number	Thread A	Dimensions (mm)				Weight each	Order Code
		B	C	D	E		
FC010216	M16 x 2.00	26	42	14	27	0.14kg	IND-425 -2010R

FC02 - Serrated Ball End

Precision swivel ball that can be used either as a contact bolt or rest pad. As contact pads these swivel ball units are ideal for evenly distributing clamping pressure on sloped or uneven surfaces.

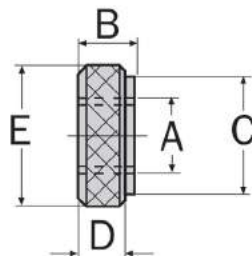


Material:
Body - Medium Carbon Steel.
Ball - Through Hardened Steel
EN 31.
Hardness:
Bolt - HRC 35.
Ball - HRC 62.
Surface finish:
Black Oxide.



Product Number	Thread A	Dimensions (mm)				Weight each	Order Code
		B	C	D	E		
FC010112	M12 x 1.75	22	35	12	22	0.070kg	IND-425 -2015J
FC010216	M16 x 2.00	26	42	14	27	0.14kg	-2015R

FC03 - Knurled Nut

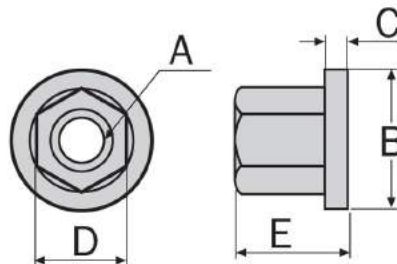


Material: Medium Carbon Steel.
Hardness: HRC 30 - 35.
Surface finish: Black Oxide.



Product Number	Thread A	Dimensions (mm)				Weight each	Order Code
		B	C	D	E		
FC030210	M10	10	20	8	25	0.030kg	IND-425 -2020K
FC030312	M12	12	24	10	28	0.040kg	-2020M
FC030416	M16	12	25	10	30	0.045kg	-2020R

FC04 - Flanged Nut



Material: Medium Carbon Steel.
Hardness: HRC 30 - 35.
Surface finish: Black Oxide.

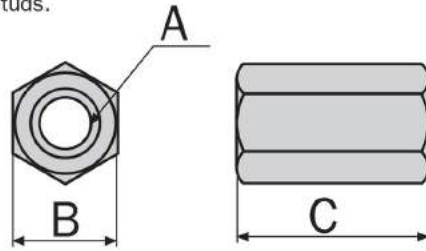


Product Number	Thread A	Dimensions (mm)				Weight each	Order Code
		B	C	D	E		
FC040110	M10	22	3	17	13	0.020kg	IND-425 -2025G
FC040212	M12	28	4	19	17	0.040kg	-2025K
FC040214	M14	28	4	22	17	0.040kg	-2025M
FC040316	M16	33	5	24	20	0.060kg	-2025P
FC040420	M20	40	6	30	25	0.110kg	-2025T

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FC05 - Extension Nut

Extends the length of clamping studs.

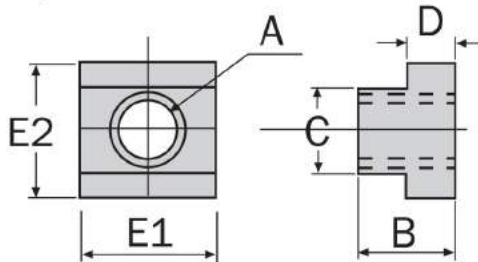


Material: Medium Carbon Steel.
Hardness: HRC 30 - 35.
Surface Finish: Black Oxide.



Product Number	Size A	Dimensions (mm)		Weight each	Order Code IND-425
		B	C		
FC050110	M10	17	30	0.030kg	-2030F
FC050212	M12	19	36	0.046kg	-2030K
FC050314	M14	22	42	0.065kg	-2030M
FC050316	M16	24	48	0.110kg	-2030N
FC050420	M20	30	60	0.220kg	-2030R

FC06 - T-Slot Nut (Milled)

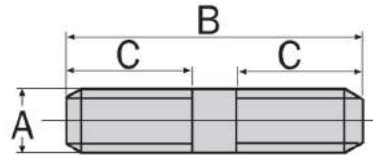


Material: Medium Carbon Steel.
Hardness: HRC 30 - 35.
Surface finish: Black Oxide.



Product Number	Size A	Dimensions (mm)					Weight each	Order Code IND-425
		B	C	D	E1	E2		
FC060110	M10	14.0	11.8	7.0	22	18.0	0.022kg	-2035G
FC060212	M12	16.0	13.8	8.0	28	22.0	0.048kg	-2035K
FC060314	M14	16.0	15.8	8.0	28	25.0	0.057kg	-2035M
FC060316	M16	20.0	17.7	10.5	30	28.5	0.085kg	-2035P
FC060420	M20	25.0	22.0	14.0	38	36.0	0.190kg	-2035T

FC07 - Engineer's Stud

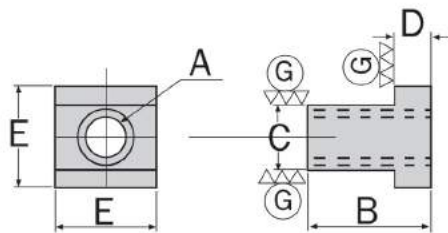


Material: Medium Carbon Steel.
Hardness: HRC 30 - 35.
Surface finish: Black Oxide.



Product Number	Size A x B	Dimension C (mm)	Weight each	Order Code IND-425
FC070110	M10 x 50mm	22	30g	-2120S
FC070210	M10 x 75mm	30	42g	-2125S
FC070310	M10 x 100mm	38	55g	-2130S
FC070510	M10 x 150mm	50	90g	-2140S
FC070612	M12 x 50mm	22	40g	-2145S
FC070712	M12 x 75mm	30	60g	-2150S
FC070812	M12 x 100mm	38	80g	-2155S
FC070912	M12 x 125mm	38	100g	-2160S
FC071012	M12 x 150mm	50	125g	-2165S
FC071112	M12 x 200mm	65	160g	-2170S
FC071212	M12 x 300mm	80	240g	-2175S
FC071214	M14 x 75mm	30	65g	-2176S
FC071214	M14 x 100mm	38	85g	-2177A
FC071214	M14 x 125mm	38	105g	-2177G
FC071214	M14 x 150mm	50	130g	-2177K
FC071214	M14 x 200mm	65	165g	-2177T
FC071316	M16 x 75mm	20	120g	-2180S
FC071416	M16 x 100mm	38	145g	-2185S
FC071516	M16 x 125mm	38	180g	-2190S
FC071616	M16 x 150mm	50	230g	-2195S
FC071616	M16 x 175mm	50	240g	-2197S
FC071716	M16 x 200mm	65	290g	-2200S
FC071816	M16 x 250mm	65	350g	-2205S
FC071916	M16 x 300mm	80	450g	-2210S
FC072016	M16 x 400mm	100	580g	-2215S
FC072116	M16 x 500mm	100	700g	-2220S
FC072220	M20 x 75mm	30	170g	-2225S
FC072320	M20 x 100mm	38	230g	-2230S
FC072420	M20 x 125mm	38	280g	-2235S
FC072520	M20 x 150mm	50	360g	-2240S
FC072620	M20 x 200mm	65	450g	-2245S
FC072720	M20 x 250mm	65	550g	-2250S
FC072820	M20 x 300mm	80	700g	-2255S
FC072920	M20 x 400mm	100	880g	-2260S
FC073020	M20 x 500mm	100	1100g	-2265S

Ground surfaces provide accurate positioning inside of T-slot.



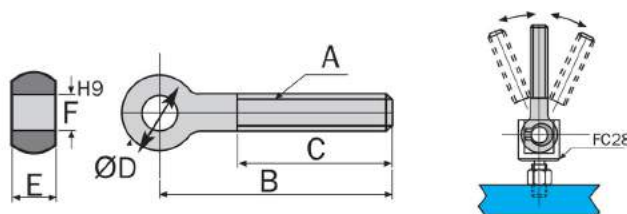
Material: Medium Carbon Steel.
Hardness: HRC 30 - 35.



Product Number	Thread A	Dimensions (mm)				Weight each	Order Code
		B	C (h6)	D	E		
FC008112	M12	22	14	8	22	45g	IND-425 -2505J
FC008216	M16	30	18	10	28	80g	-2505R

FC09 - Swing Bolt

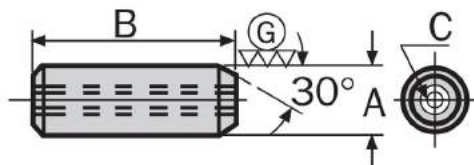
Reamed hole for smooth swivelling.



Material: Medium Carbon Steel.
Hardness: HRC 30 - 35.



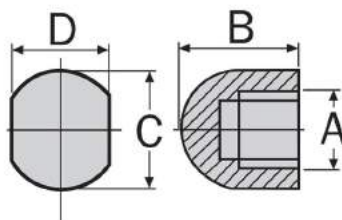
Product Number	Size A x B	Dimensions (mm)				Weight each	Order Code
		C	D	E	F		
FC040110	M10 x 75mm	40	20	12	10	60g	IND-425 -2510E
FC090210	M10 x 100mm	40	20	12	10	80g	-2510H
FC090412	M12 x 100mm	60	25	14	12	120g	-2510N
FC090516	M16 x 125mm	60	32	17	16	250g	-2510P
FC090616	M16 x 150mm	75	32	17	16	300g	-2510R

FC11 - Internal Threaded Dowel


Material: Medium Carbon Steel
EN19B.
Hardness: HRC 55 - 58.



Product Number	Size A (h6) x B	Threaded C	Weight each	Order Code
FC110108	8 x 25mm	M4	10g	IND-425 -2520E
FC110210	10 x 30mm	M5	15g	-2520H
FC110312	12 x 34mm	M6	30g	-2520K

FC15 - Domed Rest Nut


Material:
Case Hardened Steel EN19A.
Hardness:
HRC 60.
Surface finish:
Black Oxide.



Product Number	Thread A	Dimensions (mm)			Weight each	Order Code
		B	C	D		
FC150112	M12	20	22	19	42g	IND-425 -2540J
FC150216	M16	25	28	24	63g	-2540R

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**Material:**

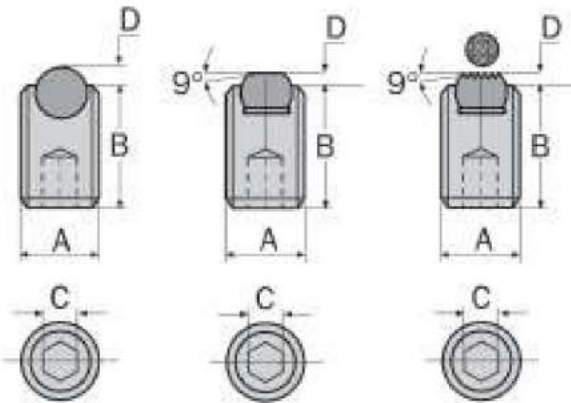
Body - Medium Carbon Steel **EN198**.
Point - Through Hardened Steel **EN 31**.

Hardness:

Body - HRC 32 - 38.
Point - HRC 62.

Surface finish:

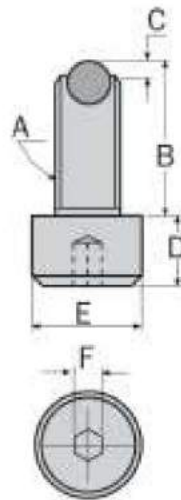
Point - Hardened and Ground.



Ball Point Dog Point Serrated Point

Ball Point					Dog Point				Serrated Point		
Thread x Length A x B	mm C	Weight each	Product Number	mm D	Order Code IND-425	Product Number	mm D	Order Code IND-425	Product Number	mm D	Order Code IND-425
M6 x 15mm	3	2.4g	FC160206	1.4	-2610H	-	-	-	-	-	-
M6 x 25mm	3	3.8g	FC160306	1.4	-2610N	-	-	-	-	-	-
M8 x 12mm	4	3.2g	FC160408	1.9	-2615D	FC162208	0.6	-2645D	-	-	-
M8 x 20mm	4	5.8g	FC160508	1.9	-2615H	FC162308	0.6	-2645H	-	-	-
M8 x 30mm	4	9.0g	FC160608	1.9	-2615N	-	-	-	-	-	-
M10 x 15mm	5	6.7g	FC160710	2.4	-2620D	-	-	-	-	-	-
M10 x 25mm	5	11.2g	FC160810	2.4	-2620H	FC162610	0.7	-2650H	-	-	-
M10 x 35mm	5	16.2g	-	-	-	FC162710	0.7	-2650N	-	-	-
M12 x 30mm	6	20.0g	-	-	-	FC162912	0.9	-2655H	-	-	-
M12 x 50mm	6	40.0g	FC161312	2.9	-2625T	-	-	-	-	-	-
M16 x 55mm	8	55.0g	-	-	-	FC163516	1.0	-2660R	-	-	-
M16 x 65mm	8	65.0g	-	-	-	-	-	-	FC165416	1.0	-2690T

FC17 - Swivel Shoulder Clamping Screw

**Material:**

Body - Medium Carbon Steel **EN198**.
Point - Through Hardened Steel **EN 31**.

Hardness:

Body - HRC 32 - 38.
Point - HRC 62.

Surface finish:

Point - Hardened and Ground.

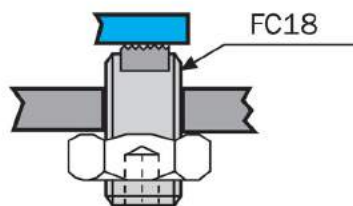
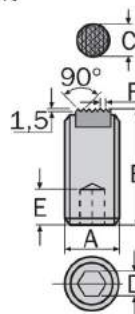


Ball Point

Ball Point					Order Code IND-425		
Thread x L A x B (mm)	Dimensions D E F	Weight each	Product Number	mm C			
M8 x 40	8 13 6	24g	FC170608	1.9	-2725N		
M12 x 65	12 18 10	70g	FC171212	2.9	-2735N		
M16 x 40	16 24 14	90g	FC171416	4.0	-2740D		

FC18 - Grip Point Screw

Multi-purpose work support
and clamping unit, ideal
for rough parts.

**Material:** Medium Carbon Steel **EN19B**.**Hardness:** HRC 32 - 38.

Tooth plate HRC 60.

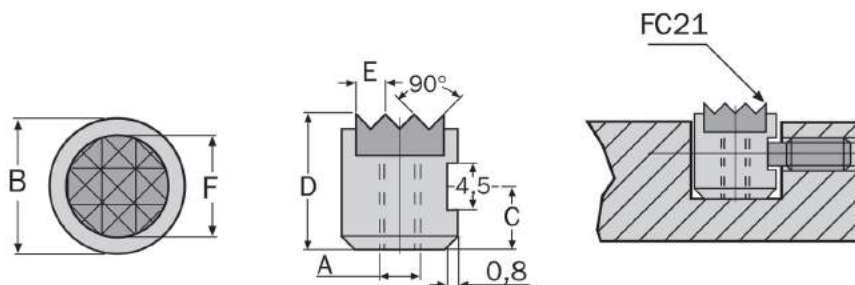
Serrated surface: Induction Hardened.**Surface finish:** Black Oxide.

Product Number	Thread x Length A x B	Dimensions (mm) C D E F	Weight each	Order Code IND-425
FC180110	M10 x 25mm	6.5 5 4 2.3	15g	-2825D
FC180616	M16 x 50mm	11.5 8 6 3.0	78g	-2825R

Multi-purpose work support and clamping unit, ideal for rough parts.



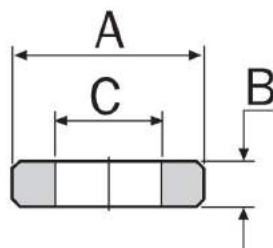
Material: Hardened Steel EN16M.
Hardness: HRC 60.
Surface finish: Black Oxide.



Product Number	Thread x Dia A x B	Dimensions (mm)				Weight each	Order Code
		C	D	E	F		IND-425
FC210110	M5 x 10mm	3.4	10	2.3	8.1	5g	-2840D
FC210212	M6 x 12mm	4.0	12	3.0	9.6	8g	-2840G
FC210525	M6 x 25mm	4.0	12	3.0	19.5	40g	-2840P

FC22 - Spacer

For use with jig components for increasing height or extending length.

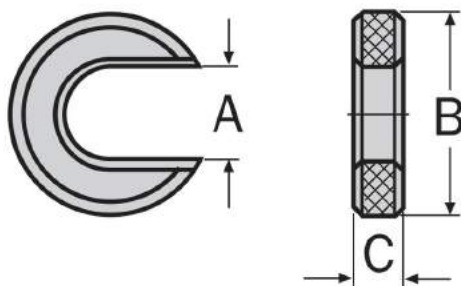


Material: Medium Carbon Steel.
Hardness: HRC 40.



Product Number	Dimensions (mm)			Weight each	Order Code
	A	B	C		IND-425
FC220616	50	5	17	70g	-2845P
FC220716	50	10	17	350g	-2845T

FC23 - 'C' Washer



Material: Medium Carbon Steel.
Hardness: HRC 40.
Surface finish: Black Oxide.

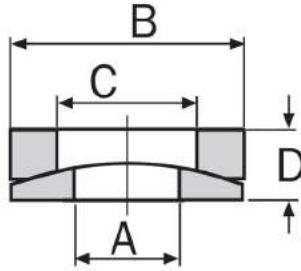


Product Number	Dimensions (mm)			Weight each	Order Code
	A	B	C		IND-425
CC010212	13	55	10	150g	-2850G

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INDEXA FC25 - Spherical
Washer Set

2 piece washer set that compensates whenever a stud and clamping surface are not exactly perpendicular.



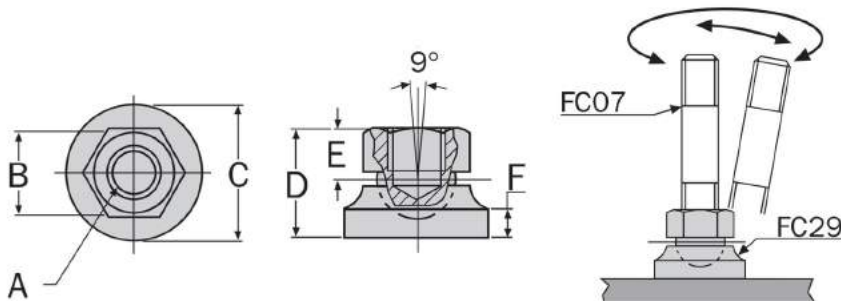
Material: Medium Carbon Steel.
Hardness: HRC 38.
Surface finish: Black Oxide.



Product Number	Dimensions (mm)				Weight each	Order Code
	A	B	C	D		
FC250112	13	26	15	7.5	20g	-2860D
FC250216	17	32	19	9.0	30g	-2860G
FC250320	21	40	23	12.0	50g	-2860L

FC29 - Swivel Foot

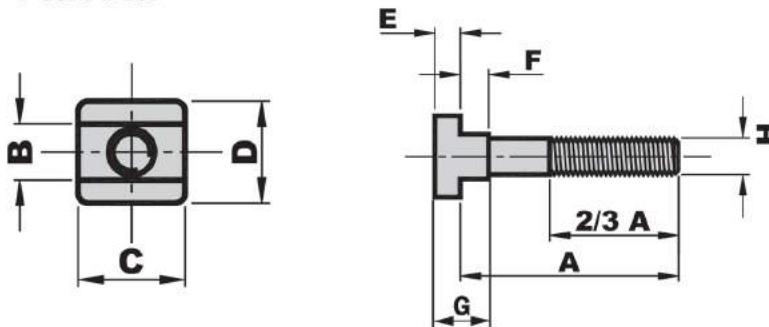
Used for supporting uneven surfaces.



Material: Medium Carbon Steel.
Hardness: HRC 32 - 38.
Surface finish: Black Oxide.



Product Number	Size A	Dimensions (mm)					Weight each	Order Code
		B	C	D	E	F		
FC290112	M12	19	35	24	11	7	80g	-2870D
FC290216	M16	24	40	29	13	8	150g	-2870G

FC40 - T-Slot Bolt

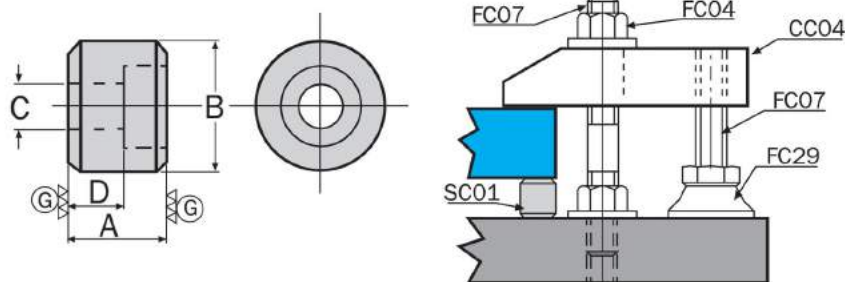
Material: Medium Carbon Steel.
Hardness: HRC 32 - 38.
Surface finish: Black Oxide.



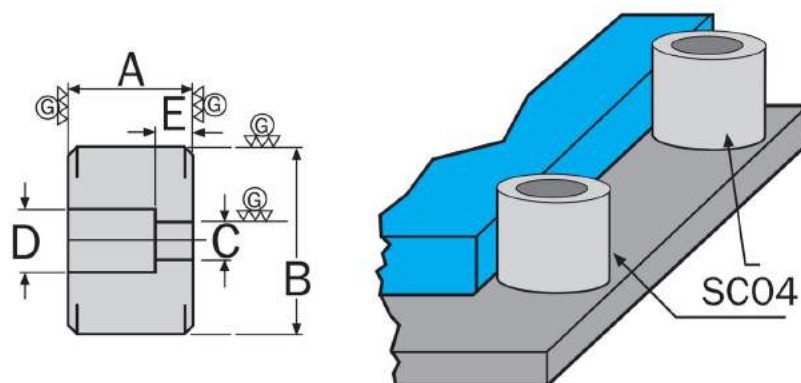
Product Number	Dimensions (mm)								Weight each	Order Code
	A	B	C	D	E	F	G	H		
FC40-1250	50								54g	-2900D
FC40-1275	75								57g	-2900F
FC40-12100	100								110g	-2900H
FC40-12125	125	12	26	22	7	6	13	M12	125g	-2900K
FC40-12150	150								140g	-2900M
FC40-12175	175								170g	-2900P
FC40-12200	200								185g	-2900R
FC40-1650	50								130g	-2910D
FC40-1675	75								160g	-2910F
FC40-16100	100								200g	-2910H
FC40-16125	125	16	32	27	8	8	16	M16	230g	-2910K
FC40-16150	150								270g	-2910M
FC40-16175	175								305g	-2910P
FC40-16200	200								325g	-2910R
FC40-2075	75								290g	-2920F
FC40-20100	100								350g	-2920H
FC40-20125	125	20	40	30	11	11	22	M20	400g	-2920K
FC40-20150	150								455g	-2920M
FC40-20175	175								505g	-2920P
FC40-20200	200								560g	-2920R
FC40-24150	150	24	50	44	16	15	31	M24	775g	-2930M
FC40-24200	200								925g	-2930R



Material: Medium Carbon Steel.
Hardness: HRC 40.
Surface finish: Black Oxide.



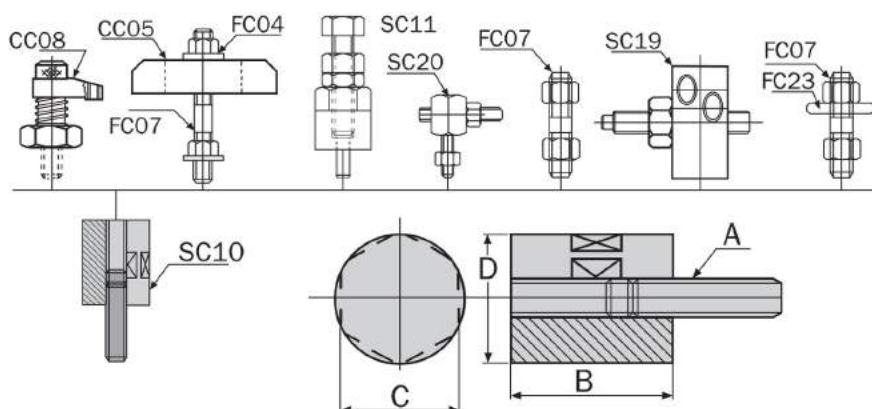
Product Number	Height x Diameter A (± 0.01) x B	Dimensions (mm)		Weight each	Order Code
		C	D		
SC010112	30 x 40mm	M12	17	240g	-3005D

SC04 - Location Collar


Material: Medium Carbon Steel.
Hardness: HRC 40.
Surface finish: Black Oxide.



Product Number	Height x Diameter A (± 0.01) x B (± 0.01)	Dimensions (mm)			Weight each	Order Code
		C	D	E		
SC040112	30 x 40mm	R 12	R 20	12	240g	-3020D
SC040212	40 x 40mm	R 12	R 20	12	320g	-3020F

SC10 - Extension Pillar


Material: Medium Carbon Steel.
Hardness: HRC 40.
Surface finish: Black Oxide.

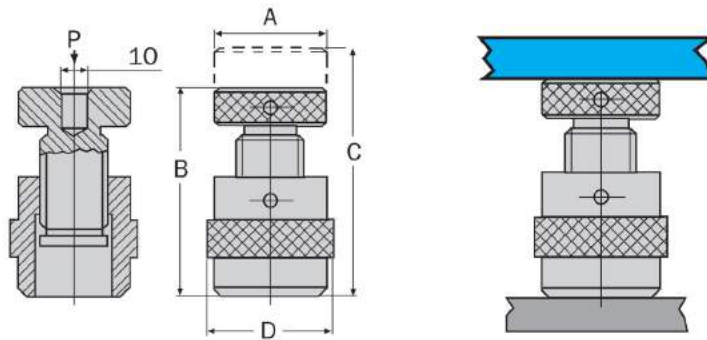


Product Number	Height x Diameter A x B	Dimensions (mm)		Weight each	Order Code
		C	D		
SC100265	M12 x 65	36	40	540g	-3050F
SC100450	M16 x 50	46	50	820g	-3050J

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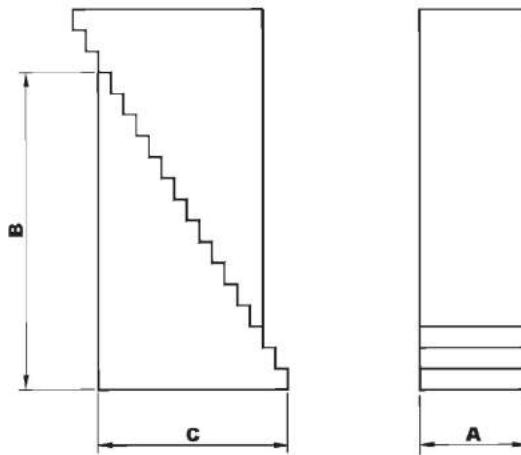


Material: Medium Carbon Steel.
Hardness: HRC 40.
Surface finish: Black Oxide.



Product Number	Diameter x Height A x B (Min)	Dimensions (mm)		Holding Load (kN)	Weight each	Order Code
SC20032050	32 x 40mm	60	32	72	230g	-3057D
SC20070140	65 x 100mm	150	70	135	274g	-3057P

SU25 - Step Block

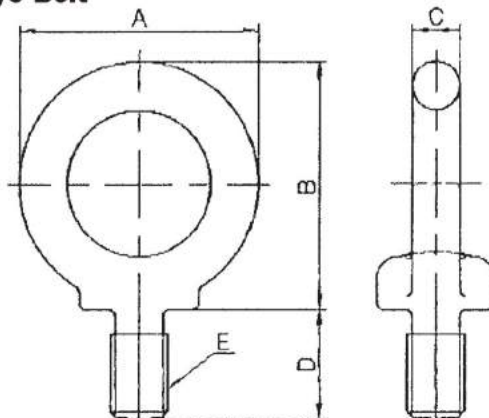


Material: Medium Carbon Steel.
Hardness: HRC 32 - 36.
Surface finish: Black Oxide.



Product Number	Supporting Height	Dimensions (mm)			Weight each	Order Code
		A	B	C		
SU252530	19 - 49		29	17	0.05kg	-3125E
SU252545	28 - 68	25	45	27	0.12kg	-3125H
SU252597	58 - 150		97.5	57	0.50kg	-3125L
SU253259	38 - 90		59	35	0.24kg	-3132J
SU253297	58 - 150	32	97.5	57	0.62kg	-3132L
SU2532139	82 - 210		139	81	1.32kg	-3132P

SEB - Shoulder Eye Bolt



Product Number	Thread (E)	Dimensions (mm)				Load	Weight each	Order Code
		A	B	C	D			
SEB1017	M10	41	41.5	8	18	150kg	0.063kg	-3210S
SEB1220	M12	50	51	10	22	220kg	0.125kg	-3212S
SEB1525	M16	60	60	12.5	27	450kg	0.216kg	-3216S
SEB2030	M20	72	71	16	30	630kg	0.4kg	-3220S

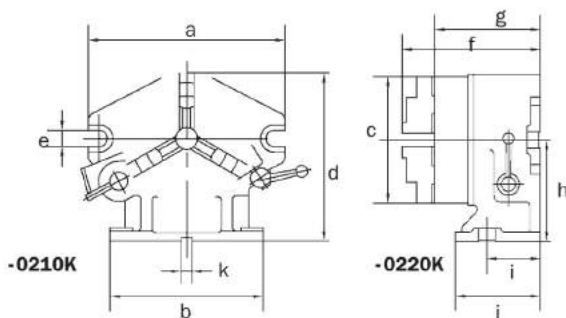


INDEXA Horizontal & Vertical Index Unit Chucks

Ideal for indexing items to be machined in pre-set or manually set incremental angles. Indexing accuracy 25 seconds. Angular indexing through the graduation ring from 0 to 360 degrees in 1 degree increments. Basic indexing by means of a catch device permitting divisions of 2, 3, 4, 6, 8, 12 and 24 without disassembly. Fitted with standard three jaw self-centring scroll chuck with set of jaws, for inside and outside clamping.

Bore diameters:

-0210K 80.00mm,
-0220K 119.77mm.



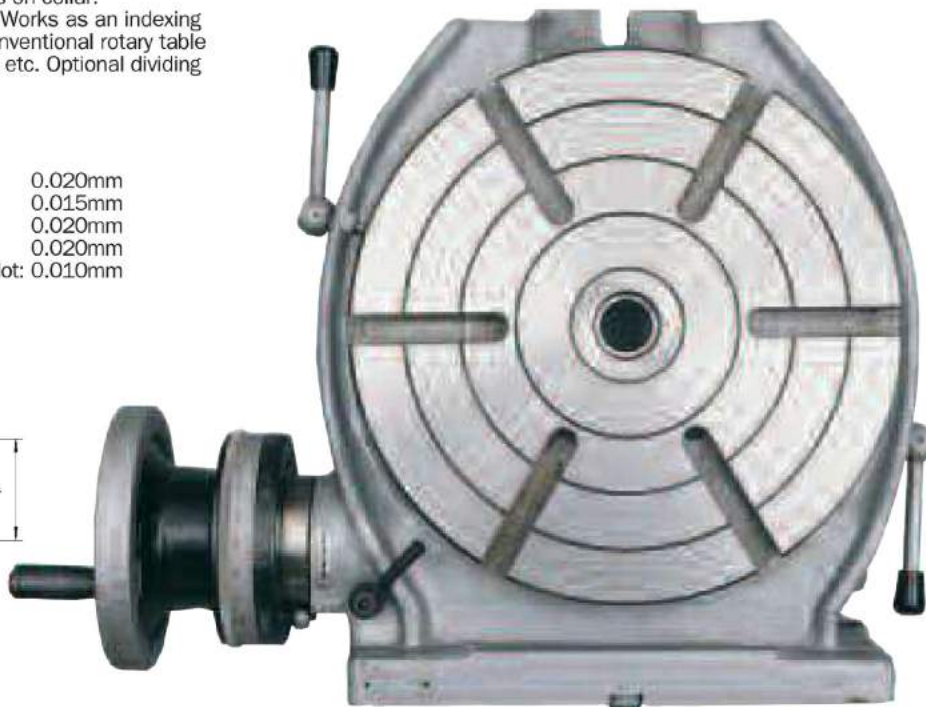
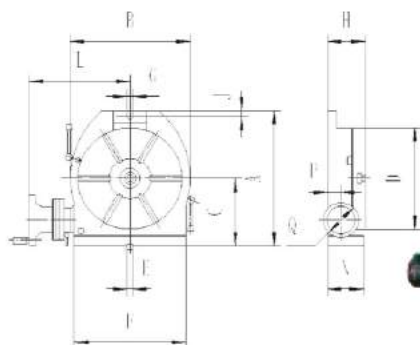
Chuck Diameter	Dimensions (mm)											Weight each	Order Code
	A	B	C	D	E	F	G	H	I	J	K		
167mm	260	220	167	220.00	18	197.5	155.5	130.00	70	130	16	17.8kg	-0210K
220mm	310	255	210	255.25	18	214.0	171.5	149.25	80	150	16	94.0kg	-0220K

Type SOPP Horizontal & Vertical Rotary Tables

With a disengageable worm gear which allows rapid indexing. One rotation of handle equals four degrees on collar. The table is made of high grade cast iron. Works as an indexing unit in the vertical position as well as a conventional rotary table for circular cutting, boring or angle setting, etc. Optional dividing plates are available separately.

Accuracy:

Parallelism of clamping surface to base: 0.020mm
Flatness of clamping surface: 0.015mm
True running cylindrical centre bore: 0.020mm
True running of tapered centre bore: 0.020mm
Squareness of clamping surface to centre slot: 0.010mm



Optional Extras

Description	Order Code
Dividing Plate for INDEXA Rotary Tables	-1000K

Rotary Tables

Rotary Tables			Dimensions (mm)												No. of T-slots	Weight each	Order Code IND-437
Diameter D	Max. Capacity C	Centre Hole M	A	B	E	F	G	H	J	L	N	P	Q				
200mm	150	3 MT	285	236	14	208	14	100	15	211	99	48	125	4	42kg	-0500K	
250mm	170	3 MT	328	286	14	253	14	110	16	241	106	48	125	6	57kg	-0510K	
320mm	210	4 MT	410	360	18	320	18	120	16	273	118	48	140	6	92kg	-0520K	

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR

GROUP 440 CHUCKS

KENNEDY
QUALITY INDUSTRIAL TOOLING

Keyless Drill Chuck

Designed for use on cordless screwdrivers, cordless and corded drills. Fully hardened and ground jaws protect against work surface abrasion. Through drilled for use on reversible drills.



Capacity (mm)	Mount	Order Code KEN-440
1.5 - 13	1/2" - 20F	-4740K
1.5 - 13	3/8" - 24F	-4760K

KOBE Drill Chuck

Fully hardened and ground for durability and wear resistance. Suitable for use with portable power tools.



Capacity (mm)	Mount	Order Code KBE-440
2.0 - 13.0	3/8" - 24F	-2020B
2.0 - 13.0	1/2" - 20F	-2030C

KENNEDY
QUALITY INDUSTRIAL TOOLING

Clamping Keyless Drill Chuck

Allows quick tool change, while maintaining high precision and high concentricity. Fully hardened jaws, sleeve and retaining ring for durability and wear resistance. Self-tightening.



Capacity (mm)	Mount	Maximum Diameter	Weight each	Order Code KEN-440
4.0	1JT	28.0	150g	-3010K
10.0	2JT	43.0	720g	-3220K
13.0	2JT	50.0	1000g	-3320K
13.0	6JT	50.0	1000g	-3340K
16.0	6JT	55.0	1200g	-3440K

Clamping Industrial Keyless Drill Chuck

Fully hardened and ground working parts. The jaws are centre ground for alignment concentricity. Unsuitable for reversing drills.



Capacity (mm)	Mount	Maximum Diameter	Weight each	Order Code KEN-440
10.0	DIN-B12	42.5	670g	-5220K
13.0	6JT	46.0	920g	-4240K
16.0	6JT	51.0	1100g	-4340K
16.0	DIN-B16	51.0	1090g	-5300K

KENNEDY
QUALITY INDUSTRIAL TOOLING

Standard Duty Industrial Keyed Drill Chuck

Fully hardened and ground for durability and wear resistance. Suitable for use with portable power tools. Supplied with key. Manufactured to DIN 6349.

*Primarily for use with hand operated machines



Capacity (mm)	Mounting	Maximum Diameter	Weight each	Order Code KEN-440
0.8 - 10.0	3/8" x 24F	34.0	240g	-2360K
0.8 - 10.0*	1/2" x 20F	34.0	220g	-2380K
1.5 - 13.0	3/8" x 24F	42.7	390g	-2460K
1.5 - 13.0	1/2" x 20F	42.7	390g	-2480K

Heavy Duty Industrial Keyed Drill Chuck

Fully hardened and ground working parts. The jaws are centre ground for alignment and concentricity. Key holes and teeth are fully hardened for durability and wear resistance. Suitable for use on machine tools and all types of industrial power tools. Supplied with key. Manufactured to DIN 6349.

* Primarily for use with hand operated machines.
† Not suitable for reversing drills.



Capacity (mm)	Mounting	Maximum Diameter	Weight each	Order Code KEN-440
0.5 - 6.5	1JT	30.0	140g	-1110K
1.0 - 10.0	2JT	42.7	430g	-1320K
0.8 - 10.0	DIN-B12	42.7	400g	-5020K
1.0 - 13.0	6JT	52.0	730g	-1440K
1.0 - 13.0	33JT	52.0	740g	-1450K
1.5 - 13.0	DIN-B12	52.7	750g	-5060K
1.0 - 13.0	DIN-B16	52.7	780g	-5080K
1.5 - 13.0	1/2"-20F	42.8	270g	-4640K
1.5 - 13.0	3/8"-24F †	42.5	420g	-1460K
1.5 - 13.0	1/2"-20F †	46.0	530g	-1480K
3.0 - 16.0	DIN-B16	56.5	890g	-5100K
3.0 - 16.0*	1/2"-20F †	50.0	610g	-1580K
5.0 - 20.0	3JT	65.0	1300g	-1630K

KOBE Drill Chuck

For use with portable power tools. Female mount. Supplied with key. UNF keyed chuck, hardened and ground for durability and wear resistance. For use with reversible drills. Excellent value for money.



Capacity (mm)	Mount	Weight each	Order Code KBE-440
1.5 - 10.0	3/8" - 24F	135g	-1010A
1.5 - 13.0	3/8" - 24F	270g	-1020B
1.5 - 13.0	1/2" - 20F	270g	-1030C

Precision machined, fully hardened and ground to give maximum surface contact.

Morse Taper Drive to Jacobs Taper



Description	Overall Length	Weight each	Order Code KEN-442
No.1 MT x 1JT	90mm	70g	-9110K
No.1 MT x 2JT	95mm	80g	-9120K
No.1 MT x 6JT	96mm	100g	-9160K
No.1 MT x 33JT	95mm	90g	-9190K
No.2 MT x 1JT	100mm	150g	-9210K
No.2 MT x 2JT	105mm	160g	-9220K
No.2 MT x 3JT	115mm	220g	-9230K
No.2 MT x 4JT	125mm	370g	-9240K
No.2 MT x 6JT	110mm	180g	-9260K
No.2 MT x 33JT	110mm	180g	-9290K
No.3 MT x 1JT	120mm	310g	-9310K
No.3 MT x 2JT	125mm	330g	-9320K
No.3 MT x 3JT	135mm	380g	-9330K
No.3 MT x 4JT	145mm	520g	-9340K
No.3 MT x 5JT	150mm	680g	-9350K
No.3 MT x 6JT	130mm	340g	-9360K
No.3 MT x 33JT	125mm	340g	-9390K
No.4 MT x 2JT	135mm	700g	-9420K
No.4 MT x 3JT	160mm	730g	-9430K
No.4 MT x 4JT	170mm	860g	-9440K
No.4 MT x 5JT	175mm	1000g	-9450K
No.4 MT x 6JT	155mm	690g	-9460K
No.4 MT x 33JT	155mm	680g	-9490K
No.5 MT x 3JT	190mm	1700g	-9530K
No.5 MT x 5JT	210mm	1900g	-9550K

KENNEDY Chuck Keys

Suitable for use with all industrial keyed chucks.



Ref No.	For Use With Chuck Number	Weight each	Order Code KEN-441
S2	440-132/440-139 440-146/440-148 440-153/440-158 440-246/440-248 440-464	50g	-0040K
S4	440-163	160g	-0080K
S8	440-506/440-508	50g	-0160K
S9	440-510	30g	-0180K
S14	440-236/440-238/440-502	20g	-0280K

CHUCK KEYS/CHUCK ARBORS **GROUP 441/442**



Morse Taper Drive to Threaded



Description	Overall Length	Weight each	Order Code KEN-442
No.1 MT 1/2 x 20	92mm	100g	-1120K
No.1 MT 3/8 x 24	95mm	80g	-1380K
No.2 MT 1/2 x 20	105mm	170g	-2120K
No.2 MT 3/8 x 24	105mm	170g	-2380K
No.2 MT 5/8 x 16	105mm	180g	-2580K
No.3 MT 1/2 x 20	125mm	360g	-3120K
No.3 MT 5/8 x 16	125mm	370g	-3580K

KD Type - Morse Taper Shank to DiN Taper Arbors

Fully hardened and ground Morse Taper to DIN 228. Chuck taper to DIN 238.



Morse Taper	Chuck Taper	Overall length	Order Code KEN-442
No.2 MT	B12	106.5mm	-5220K
No.2 MT	B16	111.5mm	-5260K
No.3 MT	B12	125.0mm	-5320K
No.3 MT	B16	134.0mm	-5360K
No.4 MT	B16	159.0mm	-5420K
No.4 MT	B22	176.0mm	-5460K

Bridgeport Drive to Jacobs Taper



Description	Overall Length	Weight each	Order Code KEN-442
R8 x 1JT	130mm	420g	-9610K
R8 x 2JT	135mm	440g	-9620K
R8 x 3JT	145mm	510g	-9630K
R8 x 6JT	135mm	450g	-9660K
R8 x 33JT	135mm	460g	-9690K

KOBE Chuck Keys



Ref No.	For Use With Chuck Number	Order Code KBE-441
KG	440-101/440-151	-2010A
KK	440-102/440-103 440-152/440-153	-2020B

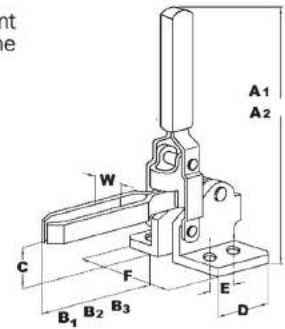
PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR

Designed to improve performance in fabrication and engineering clamping applications. The rapid clamping/unclamping made possible by the use of toggle clamps can greatly reduce machine/operator 'down-time' during all stages of production.

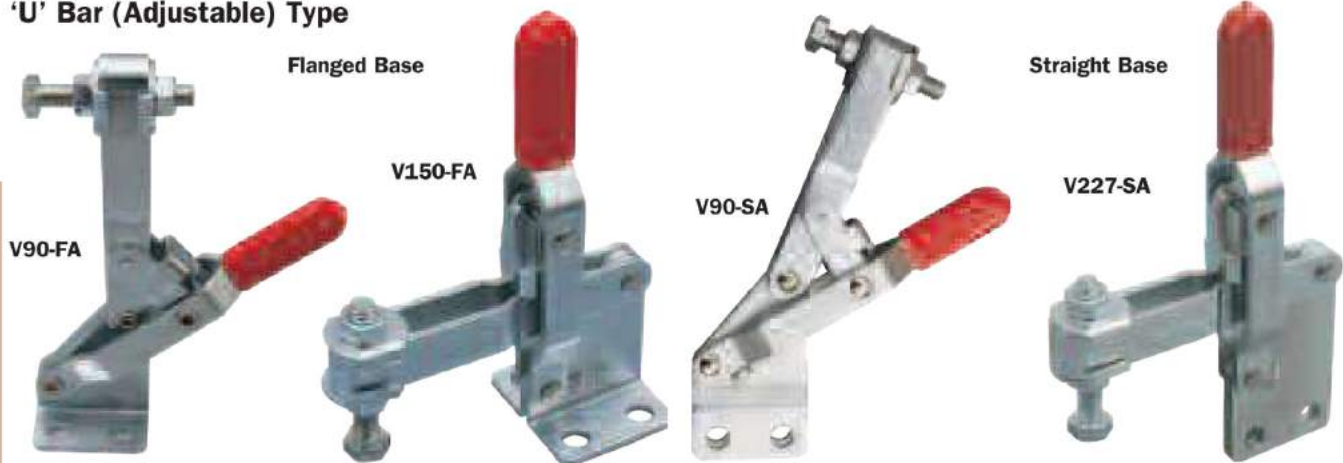
Clamping Capacity - the forces stated are the maximum loads that can be applied without causing permanent deformation. Due to leverage ratios, the holding capacity will be greatest at the point on the bar nearest to the handle of the clamp and forces stated have been achieved at this point.

Vertical Clamp Dimensions (mm)

Holding Capacity	A ₁ Flanged Base	A ₂ Straight Base	B ₁ Adj. Bar	B ₂ Fixed Bar	B ₃ Solid Bar	C Flanged Base	D	E	F Flanged Base	W
50kg	75.0	83.8	24.5	—	—	19.0	25.4	15.9	33.3	5.2
90kg	95.2	107.1	33.2	33.2	—	23.0	25.4	12.7	39.7	6.4
150kg	139.0	160.0	63.0	—	—	38.0	43.0	33.0	50.0	11.0
227kg	139.7	154.0	71.4	—	57.2	31.8	34.9	31.8	46.0	8.3
300kg	285.0	330.0	120.0	—	—	50.0	60.0	30.0	77.0	13.5
450kg	225.4	257.5	125.4	—	—	50.8	50.8	31.8	64.2	13.5
550kg	304.8	352.4	153.0	—	153.0	82.6	76.2	50.8	95.2	16.7



'U' Bar (Adjustable) Type



Product Number	Holding Capacity	Movement Handle Bar	Base Type	Supplied With	Weight each	Order Code IND-443
V50-FA	50kg	56° 100°	Flanged	Tipped Spindle (No.10) and Flanged Washer	60g	-1020K
V90-FA	90kg	60° 100°		Spindle (1/4") and Flanged Washer	-	-1220K
V150-FA	150kg	45° 94°		Hex Head Spindle (M8) and Bolt Retainer	320g	-1320K
V227-FA	227kg	60° 100°		Tipped Spindle (5/16") and Flanged Washer	355g	-1420K
V300-FA	300kg	67° 140°		Hex Head Spindle (M10)	1250g	-1620K
V450-FA	450kg	70° 135°		Hex Head Spindle (1/2") and Flanged Washer	1140g	-1720K
V550-FA	550kg	60° 140°	Straight	Hex Head Spindle (5/8") and Flanged Washer	2540g	-1920K
V340-FA	340kg	58° 105°		Tipped Spindle (3/8") and Flanged Washer	635g	-1590K
V50-SA	50kg	56° 100°		Tipped Spindle (No.10) and Flanged Washer	60g	-1070K
V90-SA	90kg	60° 100°		Spindle (1/4") and Flanged Washer	170g	-1270K
V150-SA	150kg	45° 94°		Hex Head Spindle (M8) and Bolt Retainer	320g	-1370K
V227-SA	227kg	60° 100°		Tipped Spindle (5/16") and Flanged Washer	355g	-1470K
V300-SA	300kg	67° 140°		Hex Head Spindle (M10)	1140g	-1670K
V450-SA	450kg	70° 135°		Hex Head Spindle (5/8") and Flanged Washer	1250g	-1770K

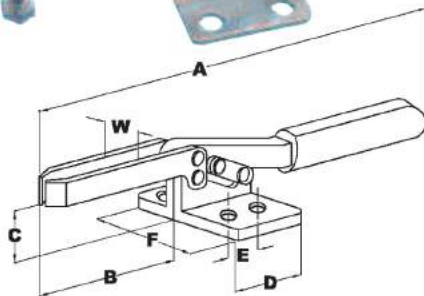
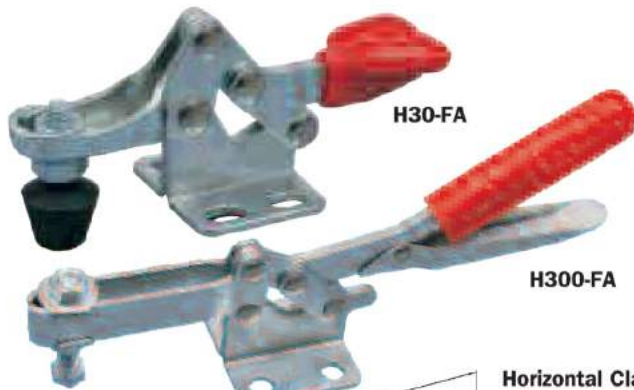
Fixed Spindle & Solid Bar Type



Product Number	Holding Capacity	Movement Handle Bar	Base Type	Supplied With	Weight each	Order Code IND-443
V100-FF	90kg	60° 100°	Flanged	Fixed Spindle (1/4")	170g	-1120K
V90-SF	90kg	60° 100°	Straight	Fixed Spindle (1/4")	170g	-1170K
V227-FS	227kg	60° 100°	Flanged	Solid Bar Hex Head (5/16") and Bolt Retainer*	340g	-1520K
V450-FS	450kg	70° 135°		Solid Bar Hex Head Spindle (1/2") and Bolt Retainer*	1250g	-1820K
V550-FS	550kg	60° 140°		Solid Bar Hex Head Spindle (5/8") and Bolt Retainer*	2540g	-1940K
V227-SS	227kg	60° 100°	Straight	Solid Bar Tipped Spindle (5/16") and Bolt Retainer*	340g	-1570K
V450-SS	450kg	70° 135°		Solid Bar Hex Head Spindle (5/8") and Bolt Retainer*	1250g	-1870K



With a low profile design suitable for use in applications requiring increased access to the actual workpiece. Available in eight sizes for general application in areas where a lower profile is required. Force applied downwards 90° to bar.


Horizontal Clamp Dimensions (mm)

Holding Capacity	A	B	C	D	E	F	W
30kg	76.5	28.0	12.5	24.0	11.5	28.5	8.5
90kg	138.0	55.0	25.4	37.0	25.4	36.0	7.4
227kg	168.0	70.0	34.9	38.0	25.4	35.0	8.3
300kg	270.0	85.0	36.5	58.0	34.0	60.0	11.0
340kg	262.0	107.5	46.9	57.1	41.3	57.2	11.0
400kg	240.0	60.0	54.0	70.0	42.0	50.0	12.6
500kg	270.0	91.2	38.0	58.0	37.0	70.0	11.0
636kg	272.0	76.2	51.0	90.0		48.0	12.7

Product Number	Holding Capacity	Movement Handle	Bar	Base Type	Supplied with	Weight each	Order Code IND-443
H65-FA	75kg	76°	94°		Hex Head Spindle (M5) Moulded PVC Handles	100g	-1960K
H86-FA	150kg	76°	94°		Hex Head Spindle (M6) Moulded PVC Handles	230g	-1970K
H217-FA	250kg	76°	94°		Hex Head Spindle (M8) Moulded PVC Handles	430g	-1980K
H30-FA	30kg	88°	80°		Tipped Spindle (M4)	40g	-2020K
H90-FA	90kg	60°	85°		Tipped Spindle (1/4") and Flanged Washer	130g	-2120K
H227-FA	227kg	65°	90°		Tipped Spindle (5/16") and Flanged Washer	255g	-2220K
H300-FA	300kg	85°	80°	Flanged	Hexagon Head Spindle (3/8") and Flanged Washer	490g	-2320K
H340-FA	340kg	50°	85°		Tipped Spindle (3/8") and Flanged Washer	640g	-2420K
H400-FA	400kg	85°	84°		Tipped Spindle (3/8") and Flanged Washer	600g	-2520K
H500-FA	500kg	85°	65°		Hexagon Head Spindle (M10) and Flanged Washer	450g	-2620K
H636-FA	636kg	94°	91°		Hexagon Head Spindle (1/2") and Flanged Washer**	1220g	-2720K

**Single mounting centre hole 13mm diameter for 'Tee' bolt mounting

Latch Type Toggle Clamp

Suitable for sealing chamber doors or mould closures. The latched bolts are threaded to allow easy adjustment and provide positive connection with latch plate.



*Optional latch plate IND-443 -8000K

Product Number	Holding Capacity	Drawing Movement	Drawing Adjust	Base Type	Description	Weight each	Order Code IND-443
L164-FU	164kg	30mm	9.9mm		U-Style Bolt	80g	-4070K
L318-FU	318kg	45mm	9.6mm		U-Style Bolt	225g	-4010K
L900-FU	900kg	80mm	23.8mm		U-Style Bolt	680g	-4130K
L1818-FU	1818kg	88.9mm	19mm		U-Style Bolt*	1260g	-4170K
L3400-FU	3400kg	55.6mm	28.6mm		U-Style Bolt*	1480g	-4210K
L170-FJ	170kg	100mm	6.5mm	Flanged	J-Style Bolt	270g	-4030K
L170-FJ	170kg	105mm	35mm		J-Style Bolt	255g	-4050K
L340-FJ	340kg	140mm	40mm		J-Style Bolt	340g	-4190K
L225-FU90	225kg	25mm	15mm		90° Angle U-Style Bolt	113g	-4090K
L450-FU90	450kg	65mm	33mm		90° Angle U-Style Bolt	250g	-4110K
L900-FU90	900kg	45mm	40mm		90° Angle U-Style Bolt	700g	-4150K

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The straight line action which gives these plunger-style clamps extremely high loading capacities whilst maintaining compactness. These clamps also lock in the open position which allows a 'pull' to be exerted (for instance, in use with foam moulds). All models have tapped spindles for use with adjustable spindles.

Base Mounted Type (Flanged)

Base Mounted
Type -
45° HandleP227-F45
P386-F45
P680-F45Base Mounted
Type -
45° Handle

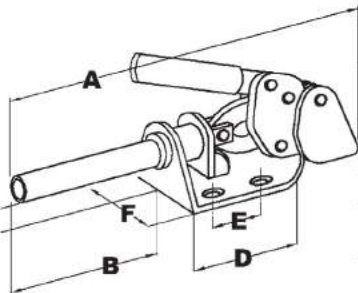
P386-180F

Base Mounted
Type -
90° HandleP227-F90
P386-F90
P680-F90Base Mounted
Type -
180° Handle

P680-180F

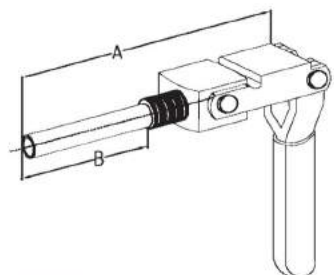
Dimensions (mm)

Holding Capacity	A – Excluding Handle	B	C	D	E	F
45kg	72.2	38.9	9.5	33.3	15.0	27.0
50kg	71.9	16.9	13.0	49.0	24.0	42.0
136kg	138.0	47.0	24.6	48.0	35.0	56.0
160kg	146.0	76.0	15.5	70.0	40.0	72.0
200kg	124.5	41.5	14.0	48.0	40.0	50.0
227kg	125.4	52.4	19.0	52.4	35.0	57.2
295kg	204.0	112.0	17.7	92.0	60.0	83.0
386kg	158.8	81.0	23.8	58.8	41.4	57.2
680kg	238.2	120.8	35.0	73.2	50.8	71.4
1136kg	178.6	50.8	12.5	127.8	34.9	56.2
1136kg	178.6	50.8	12.5	127.8	41.3 (6 holes)	56.2
1600kg	310.0	87.0	47.0	227.0	80.0	107.0



Product Number	Holding Capacity	Spindle Thread	Handle Movement	Handle Position	Base Type	Supplied With	Weight each	Order Code
P45-F45	45kg	1/4" UNC x 12 Deep	190°			Nylon Spindle	50g	IND-443
P136-F45	136kg	M8	180°			Hexagon Head Spindle	300g	-3060K
P200-F45	180kg	M8 x 1.25	144.5°			Hexagon Head Spindle	345g	-3090K
P180-FA	180kg	M8 x 1.25	145°			Hexagon Head Spindle	35g	-3100K
P227-F45	227kg	M8	180°	45°	Flanged	Hexagon Head Spindle	340g	-3120K
P386-F45	386kg	M10	180°	Extended	Flanged	Hexagon Head Spindle	580g	-3180K
P680-F45	680kg	M12	180°			Hexagon Head Spindle	1480g	-3240K
P1136-F45	1136kg	M10	180°			Hexagon Head Spindle	935g	-3300K
P1600-F45	1600kg	M8 x 1.25	180°			Hexagon Head Spindle		-3330K
P227-F90	227kg	M8 x 30 Deep	180°	90°	Flanged	Hexagon Head Spindle	340g	-3150K
P386-F90	386kg	M10 x 40 Deep	180°	Extended	Flanged	Hexagon Head Spindle	580g	-3210K
P680-F90	680kg	M12 x 50 Deep	180°			Hexagon Head Spindle	1480g	-3270K
P50-180F	50kg	M5	66°	180°	Flanged	Hexagon Head Spindle	100g	-3700K
P386-180F	160kg	M10	45°	Extended	Flanged	Hexagon Head Spindle	454g	-3730K
P680-180F	295kg	1/2" UNC	45°			Hexagon Head Spindle	1270g	-3760K

Collar Mounted Type (Threaded)



Dimensions (mm)

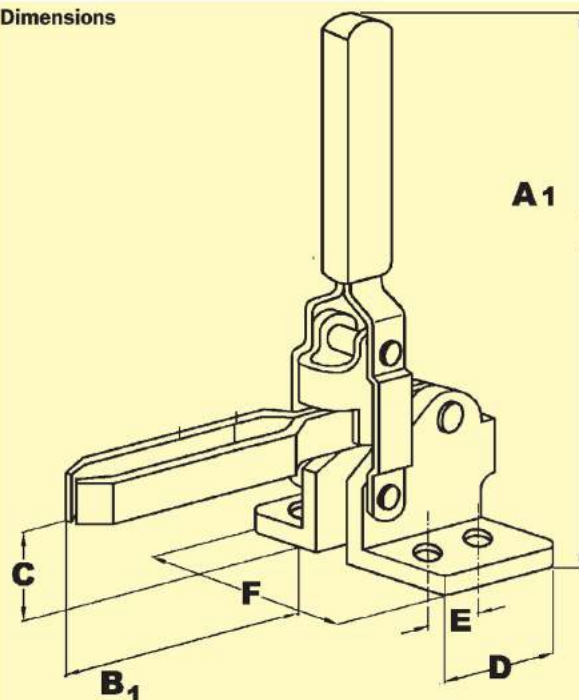
Holding Capacity	A – Excluding Handle	B
91kg	30.3	20.6
136kg	115.0	37.7
318kg	169.5	65.3

Product Number	Holding Capacity	Spindle Thread	Collar Thread	Handle Movement	Base Type	Supplied with	Weight each	Order Code
P91-FT	91kg	1/4" UNC	M16	180°		Nylon Spindle	113g	-3530K
P136-FT	136kg	5/16" UNC	M20	180°	Flanged	Hexagon Head Spindle	270g	-3560K
P318-FT	318kg	3/8" UNC	M27	180°		Hexagon Head Spindle	690g	-3590K

Designed to improve performance in fabrication and engineering clamping applications. The rapid clamping/unclamping made possible by the use of toggle clamps can greatly reduce machine/operator 'down-time' during all stages of production.


AV200-FA
**'U' Bar
(Adjustable) Type
with Flanged
Base**
AV217-FA
AV50-FA
**'U' Bar
(Adjustable) Type
with Side Facing
Flanged Base**
AV90-FA

AV150-FA

**Group
732**
AV450-FA
**Fixed
Spindle
Type
with
Flanged
Base**
**Solid Bar
Type
with
Flanged
Base**
AV217-FS
AV80-FF
Dimensions

'U' Bar (Adjustable) Type with Flanged Base

Product Number	A1 Flanged Base	B1 Flanged Base	C Flanged Base	D	E	F Flanged Base
AV50-FA	75.0	24.5	19.0	25.4	15.9	39.7
AV90-FA	93.0	39.0	23.0	29.0	14.0	28.0
AV150-FA	143.0	44.0	31.0	19.0	12.7	42.0
AV200-FA	139.0	63.0	38.0	43.0	24.0	50.0
AV217-FA	139.7	71.4	31.8	34.9	19.0	46.0
AV450-FA	272.0	125.0	62.0	70.0	40.0	70.0

Fixed Spindle Type with Flanged Base

Product Number	A1 Flanged Base	B1 Flanged Base	C Flanged Base	D	E	F Flanged Base
AV80-FF	100.0	27.0	23.8	25.4	12.7	39.7
AV217-FS	139.7	57.2	31.8	34.9	19.0	46.0

'U' Bar (Adjustable) Type with Flanged Base

Product Number	Holding Capacity	Movement Handle Bar	Base Type	Supplied With	Weight each	Order Code
AV50-FA	50kg	56° 100°	Flanged	Tipped Spindle (M5) and Flanged Washers	60g	-1020K
AV90-FA**	90kg	60° 100°		Spindle (M6) and Bolt Retainer	115g	-1220K
AV150-FA	150kg	70° 108°		Hex Head Spindle (M6) Moulded PVC Handle	230g	-1970K
AV200-FA	200kg	45° 94°		Hex Head Spindle (M8) and Flanged Washers	370g	-1320K
AV217-FA	217kg	60° 100°		Tipped Spindle (M8) and Flanged Washers	310g	-1420K
AV450-FA	450kg	70° 135°		Hex Head Spindle (M12) and Flanged Washers	1220g	-1720K

** Model AV90-FA has Side Flange - All other FA models listed have Flat Flanges

Fixed Spindle Type with Flanged Base

Product Number	Holding Capacity	Movement Handle Bar	Base Type	Supplied With	Weight each	Order Code
AV80-FF	90kg	60° 100°	Flanged	Fixed Spindle (M8)	170g	-1120K
AV217-FS	217kg	60° 100°		Solid Bar and Bolt Retainer (M8)*	310g	-1520K

*Please note that the bolt retainer supplied needs to be welded in to position by the user

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With a low profile design suitable for use in applications requiring increased access to the actual workpiece.
Available in eight sizes for general application in areas where a lower profile is required.
Force applied downwards 90° to bar.

'U' Bar (Adjustable)
Type with
Flanged Base

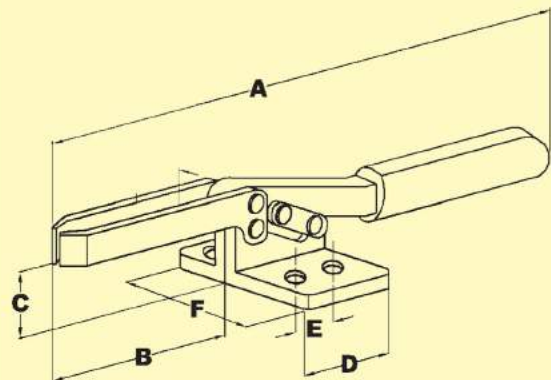
AH250-FA

AH20-FA

AH340-FA

AH80-FA

Dimensions



Product Number	A	B	C	D	E	F
AH20-FA	110.0	37.5	24.8	36.5	24.0	30.0
AH80-FA	138.1	55.0	25.4	36.5	25.4	38.0
AH217-FA	168.0	70.0	34.9	38.0	53.4	35.0
AH250-FA	274.0	108.0	45.0	59.0	41.2	59.0
AH340-FA	263.5	108.0	44.4	57.2	41.3	57.2

Product Number	Holding Capacity	Movement Handle	Bar	Base Type	Supplied with	Weight each	Order Code
AH20-FA	30kg	88°	80°	Flanged	Tipped Spindle (M6) and Flanged Washers	100g	-2020K
AH80-FA	80kg	60°	85°		Tipped Spindle (M6) and Flanged Washers	130g	-2120K
AH217-FA	217kg	65°	90°		Tipped Spindle (M8) and Flanged Washers	312g	-2220K
AH250-FA	250kg	94°	76°		Hexagon Head Spindle (M10) and Flanged Washers	500g	-2620K
AH340-FA	340kg	50°	85°		Tipped Spindle (M10) and Flanged Washers	265g	-2420K

Latch Type Toggle Clamps

Suitable for sealing chamber doors or mould closures. The latched bolts are threaded to allow easy adjustment and provide positive connection with latch plate.

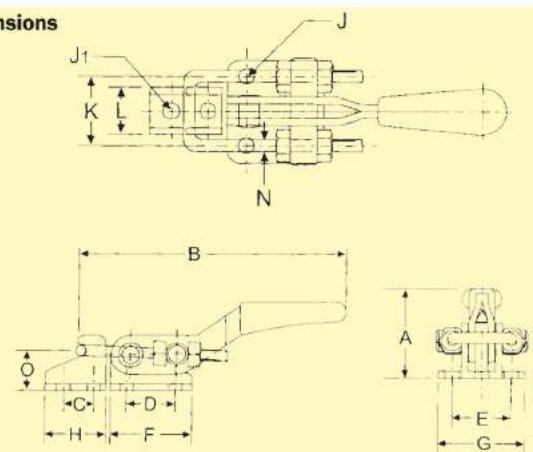
AL165-FU

AL320-FU

'U' Style Bolt
Type with
Flanged Base

AL900-FU

Dimensions

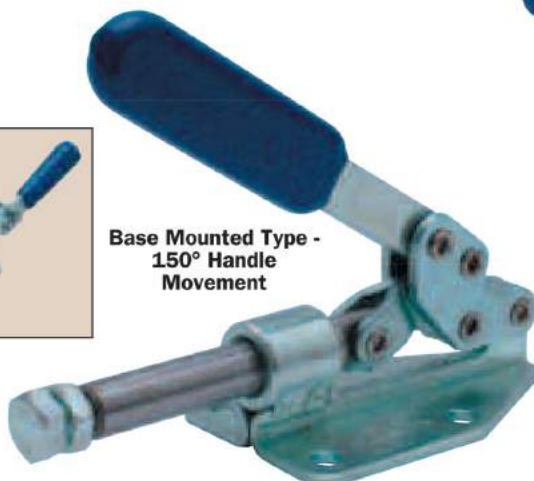
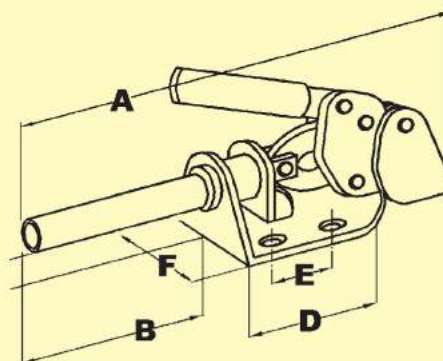


Product Number	A	B	C	D	E	F	G	H	J	J1	K	L	N	O
AL165-FU	36	88	9.9	16	19	26	28	45	4.3	4.3	19	13.2	3.3	12
AL320-FU	45	151.6	14	19	31.8	39.6	44.5	25	6.8	6.8	25.4	17.5	4	17
AL900-FU	70.6	190	19	41.4	38	60.5	54	38	8.4	8.4	44.5	30.0	8	24

Product Number	Holding Capacity	Drawing Movement	Drawing Adjust	Base Type	Description	Weight each	Order Code
AL165-FU	165kg	30mm	9.9mm	Flanged	U-Style Bolt	68g	-4070K
AL320-FU	320kg	45mm	9.6mm		U-Style Bolt	225g	-4010K
AL900-FU	900kg	80mm	23.8mm		U-Style Bolt	650g	-4130K

The straight line action which gives these plunger-style clamps extremely high loading capacities whilst maintaining compactness. These clamps also lock in the open position which allows a 'pull' to be exerted (for instance, in use with foam moulds). All models have tapped spindles for use with adjustable spindles.


**Base Mounted Type -
180° Handle**

**Base Mounted Type -
150° Handle
Movement**

**Base Mounted Type -
190° Handle Movement**
Dimensions


Product Number	A - Excl. Handle	B	C	D	E	F
AP136	138.1	49.2	24.6	88.9	34.9	55.6
AP200	124.5	41.5	14.0	83.0	40.0	50.0
AP227	151.0	63.0	15.0	88.0	32.0	63.0

Product Number	Holding Capacity	Spindle Thread	Handle Movement	Handle Position	Base Type	Supplied With	Weight each	Order Code
AP136	136kg	M8	180°			Hexagon Head Spindle	285g	-3060K
AP200	200kg	M8 x 1.25	150°	45°	Flanged	Hexagon Head Spindle	330g	-3090K
AP227	227kg	M8 x 30 Deep	190°	Extended		Hexagon Head Spindle	540g	-3150K

INDEXA
Heavy-Duty Weldable Toggle Clamps

Hold down action suitable for high production automotive type applications. Heavy duty forged components with hardened and ground pivot points. The users provide their own handle and bar and weld them to the clamp which is then welded to a base. The flexible mounting of these clamps allows them to be used in situations where standard clamps are not effective.

Holding Capacity	Base Width	Clamp Height with Handle	Weight each	Order Code
700kg	28mm	110mm	808g	-5010K
700kg	45mm	130mm	915g	-5030K
1100kg	50mm	170mm	1574g	-5070K
2200kg	63mm	205mm	2881g	-5110K


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For use with latch type toggle clamps.



Base Size	Hook Width	Order Code
80 x 55mm	22mm	-8000K

Flanged Washers

For use in conjunction with all spindles on clamps with adjustable 'U' bars.



To fit Spindle	Weight each	Order Code
5/32" (No.8/M4)	2g	-8700K
3/16" (No.10)	2g	-8720K
1/4"	4g	-8740K
5/16" (M8)	10g	-8780K
3/8" (M10)	15g	-8800K
1/2"	37g	-8820K
5/8"	49g	-8840K

Swivel Foot Spindles

As Neoprene capped but suitable for clamping onto irregular shapes or angled workpieces.



Size	Length	Weight each	Order Code
1/4" UNC	2 1/4"	018g	-8500K
5/16" UNC	2 3/4"	031g	-8520K
3/8" UNC	3"	047g	-8540K
1/2" UNC	4"	115g	-8560K

Neoprene Capped Spindles

For use with adjustable 'U' bar type clamps and solid bar type clamps that have bolt retainers.



Size	Length	Weight each	Order Code
M4 x 0.70	25mm	5g	-8020K
M8 x 1.25	63mm	34g	-8100K
M10 x 1.5	85mm	64g	-8140K
No 10UNC	1 3/8"	9g	-8200K
1/4" UNC	1 3/4"	16g	-8220K
5/16" UNC	2 1/2"	31g	-8260K
3/8" UNC	3 1/2"	58g	-8300K
1/2" UNC	3 3/4"	125g	-8340K

Neoprene Caps

For standard adjustable spindles.



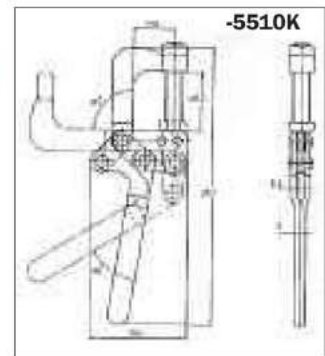
To fit Spindle	Weight each	Order Code
1/4"	08g	-8600K
5/16"	15g	-8620K
3/8"	24g	-8640K
1/2"	45g	-8660K

Cam Type Toggle G-Clamp (Pull Back Clamp)

To securely fix the clamp into position the base can be welded to the work surface.

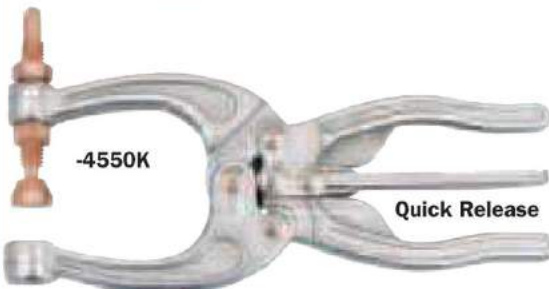


Holding Capacity	Jaw Opening	Jaw Movement	Handle Movement	Order Code
340kg	45.2mm	90°	50°	-5510K

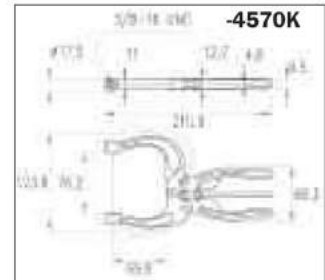
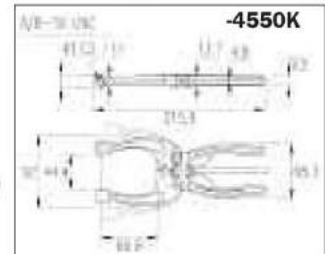
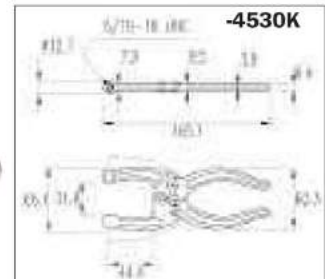
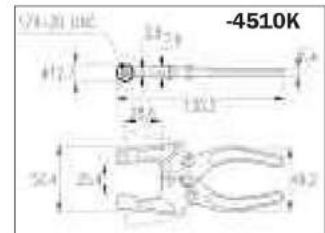


Toggle Pliers

Toggle pliers have the advantage of a pivoting jaw mechanism to allow a deep throat depth to open and close easily when clamping awkward profiles such as steel angle section. The jaw spindle can be pre-set to achieve the optimum clamping distance and pressure and so is most useful for repetitious clamping applications.



Holding Capacity	Jaw Opening Min	Jaw Opening Max	Standard Spindle Supplied	Order Code
90kg	25.4	52.4	Hex. Head	-4510K
159kg	31.8	65.1	Hex. Head	-4530K
318kg	44.4	92.0	Swivel	-4550K
318kg	76.2	123.8	Hex. Head & Swivel	-4570K

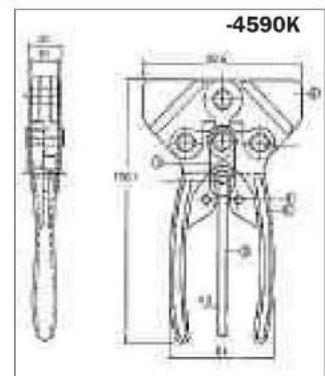


'Stub' Type Toggle Pliers

With two stub arms for easy linking to special jaw extensions.



Holding Capacity	Closed Head Width (mm)	Overall Length (mm)	Order Code
500kg	95.6	156.1	-4590K



Steel Bench Vices



These premium quality bench vices are as good as you get, made from solid steel with replaceable jaws, integral pipe jaws and anvil for versatility.

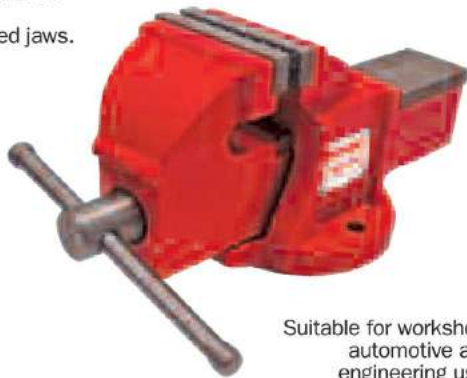
Available in
100mm (4")
150mm (6")
200mm (8").



Model Number	Opening (mm)	Jaw Width (mm)	Weight each	Order Code
VBS100	100 (4")	90 (3 ⁹ / ₁₆ ")	6.30kg	-0500K
VBS150	150 (6")	150 (6")	18.25kg	-0540K
VBS200	200 (8")	205 (8")	25.00kg	-0300K

Engineer's Vice

Manufactured from the highest quality castings with precision cut screw mechanisms and precision machined jaws.



Do Not Strike With A Hammer

Suitable for workshop, automotive and engineering use.

Model Number	Opening (mm)	Jaw Width (mm)	Weight each	Order Code
KECV75	100 (4")	75 (3")	4.50kg	-0230K
KECV100	140 (5 ⁵ / ₈ ")	100 (4")	9.50kg	-0240K
KECV125	170 (6 ³ / ₄ ")	125 (5")	18.0kg	-0250K
KECV150	190 (7 ⁵ / ₈ ")	150 (6")	25.0kg	-0260K
KECV200	210 (8 ¹ / ₄ ")	200 (8")	40.0kg	-0280K

Workshop Vice - American Pattern

American pattern, bench mounting steel vice with anvil suitable for workshop, garage and machine-shop use. Fixed base directly mounts onto work bench. Cast iron body with steel jaws and a cross drilled threaded handle with adjustable T-bar for extra leverage.



Opening (mm)	Jaw Width (mm)	Weight each	Order Code
127 (5")	100 (4")	12.3kg	-2040K
178 (7")	150 (6")	25.0kg	-2060K

Portable Bench Vice



Lightweight and portable with a swivel base and light duty anvil. Ideal for model makers, DIY and light industrial use. Can be fitted to any convenient work surface. Solid cast grey iron body with steel guide rods and main screw.



Opening (mm)	Jaw Width (mm)	Weight each	Order Code
70 (2 ³ / ₄ ")	60	2.8kg	-0600K

125mm (5") Universal Vice

Can be bench mounted either vertically or horizontally, and on either side. Unique design permits the vice to rotate a full 360° then self-lock when jaws are tightened.

Jaw height: 54mm (2¹/₈").



Opening (mm)	Jaw Width (mm)	Jaw Height (mm)	Weight each	Order Code
125 (5")	90 (3 ¹ / ₂ ")	54 (2 ¹ / ₈ ")	8.2kg	-4050K

Light Duty Bench Vice

For light workshop, engineering and automotive use. Cast iron body with precision cut screw mechanism. The base bolts directly to the work bench surface for stability.



Opening (mm)	Jaw Width (mm)	Weight each	Order Code
127 (5")	100 (4")	5.5kg	-0510K
170 (6 ¹ / ₂ ")	125 (5")	11.3kg	-0520K
190 (7 ¹ / ₂ ")	150 (6")	15.3kg	-0530K

SENATOR
QUALITY TOOLING**Drill Press
Vice**

Suitable for use on pillar/bench drills to steady the workpiece in all light duty drilling applications for the garage or small workshop. Cast construction with machined slots which are spaced to fit all popular drill stand bases. Cross drilled handle with sliding T-bar for extra leverage.



Jaw Width	Maximum Opening	Jaw Height	O/all Dimensions Length x Height	Weight each	Order Code
75mm	55	23	200 x 45	1.90kg	-0750K
100mm	95	25	250 x 55	3.25kg	-1000K

**INDEXA Quick Grip
Drill Press Vices****Fixed Jaw**

Quick acting cam can be set instantly to hold work. Fixed jaw with V-block to handle flat or round pieces, vertically or horizontally. Jaw inserts are hardened and ground. The heavy base can be clamped down to a milling machine or drill press.

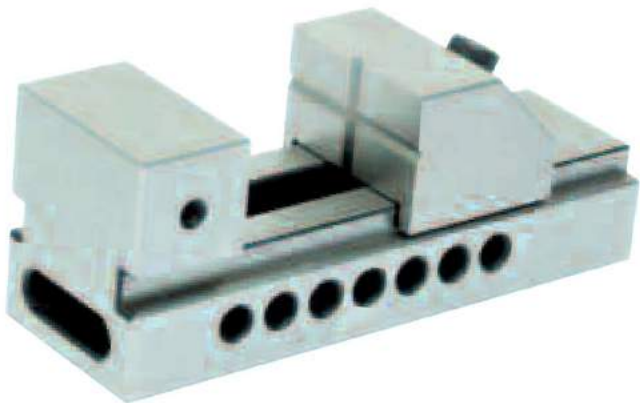


Jaw Width	Jaw Height	Maximum Opening	Weight each	Order Code
80mm	30mm	80mm	5.2kg	-0170K
100mm	35mm	100mm	8.9kg	-0180K

Toolmaker's Vice - V-Groove Jaw

Manufactured from high quality alloy steel, case hardened to HRC 58 - 62. With a rack quick release mechanism.

Accuracy: 0.003mm.



Jaw Dimensions Width x Opening x Height	Overall Length	Weight each	Order Code
50 x 78 x 30mm	155mm	3.00kg	-0310K

**ATLAS**
WORKHOLDERS**Machine
Vices****Machine Vices without Swivel Base**

Manufactured in accordance with high quality criteria. Designed for general purpose milling, planing and drilling applications.

Machine Vices with Swivel Base Type

Also available complete with a swivel base designed for milling, planing and drilling applications.

Graduated to 1°.

**Swivel
Base Type**

Jaws are fully ground in pairs

Jaw Width	Max. Opening	Jaw Height	O/all Dimensions L x W x H	Weight each	Order Code
-----------	--------------	------------	----------------------------	-------------	------------

Without Swivel Base

100mm	80	35	245 x 115 x 89	8kg	-0100K
160mm	125	51	411 x 187 x 120	34kg	-0150K
200mm	160	63	440 x 220 x 140	46kg	-0200K

With Swivel Base

100mm	80	35	195 x 145 x 110	17kg	-1100K
160mm	125	51	411 x 187 x 167	43kg	-1150K
200mm	160	63	440 x 220 x 187	57kg	-1200K

Spare Jaws to suit Atlas Machine Vices

Width	Order Code
100mm	-1040K
160mm	-1060K
200mm	-1080K

Toolmaker's Vice - V-Groove Jaw

Made from alloy steel, case hardened. With a quick release mechanism.

Accuracy: 0.005mm.



Jaw Dimensions Width x Opening x Height	Overall Length	Weight each	Order Code
50 x 65 x 25mm	135	3kg	-0310K

Toolmaker's Vices

Manufactured from high carbon steel, precision ground on all faces. Phosphor bronze bush, 90° vee on clamping jaws.

Standard Precision Toolmaker's Vices

Squareness and parallelism to within 0.005mm.



Jaw Dimensions Width x Opening x Height	Overall Length	Weight each	Order Code
63 x 85 x 32mm	185	3.80kg	-2010K
100 x 125 x 45mm	255	13.00kg	-2050K

Available in four different jaw widths. For drilling, light milling, vertical and horizontal work. One grooved and one plain replaceable jaw for square and hexagonal shapes across flats or corners, thin strips and discs. Jaws and lead screw are hardened and ground.



Jaw Width	Jaw Opening	Order Code IND-445
85mm	70mm	-0010K
100mm	85mm	-0020K
120mm	120mm	-0030K
150mm	150mm	-0040K

Toolmaker's Vices - Plain Jaw

Manufactured from high quality alloy steel, case hardened to HRC 58 - 62. For wire cutting, machining, measurement and inspection. With a dowel pin quick release mechanism with linear scale for accurate alignment.

Accuracy: 0.003mm.



Jaw Dimensions Width x Opening x Height	Overall Length	Weight each	Order Code IND-445
60 x 80 x 28mm	175mm	3.9kg	-0200K
75 x 100 x 40mm	220mm	7.9kg	-0210K

ATLAS WORKHOLDERS Bench Shears

Hand operated, compound lever action bench shears. Capable of rapidly cutting through metal plate, strip and bar. Solid steel frame for rigidity and strength. With hardened and precision ground blades for accurate cutting. Adjustable blade guard.



Group **960**



Model Number	Plate (mm)	Angle Plate	Maximum Strip	Bar (mm)	Jaw Width	Weight each	Order Code ATL-448
BS120	4	-	5 x 70	10	120	8.3kg	-1200K
BS200	6	-	7 x 70	13	200	20.1kg	-2000K
BS406	8	40 x 6	10 x 100	16	200	46.6kg	-3000K

MACHINE VICES/ BENCH SHEARS

GROUP
445/448

Precision Toolmaker's Vices

Squareness and parallelism to within **0.003mm**. Designed for precision grinding and many other tool room applications.



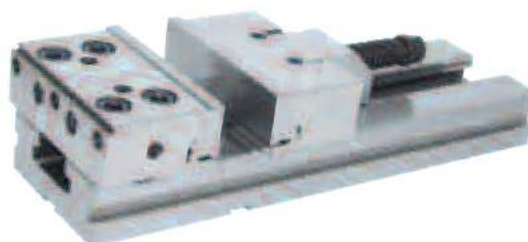
Jaw Dimensions Width x Opening x Height	Overall Length	Weight each	Order Code IND-445
50 x 65 x 25mm	150	3.00kg	-0400K
73 x 100 x 35mm	205	5.00kg	-0430K
100 x 125 x 45mm	255	13.00kg	-0450K

Modular Precision Machine Vices

Precision modular vices are designed to be used on standard and CNC machines for precision grinding and milling. The vice could be set up individually or work in multiples, on tables or palletised components depending on the machined material dimensions. Made from hardened high grade alloy steel.

Perpendicular accuracy: 0.005mm.

Parallelism: 0.005mm.



Accessories:

L-wrench, T-wrench, vice holding clamp, work stop with main bolt, positioning key-nuts etc.

Jaw Width x Opening x Height	Overall Length	Clamping Force	Weight each	Order Code IND-445
100 x 100 x 30mm	270mm	3000kg	7.00kg	-0600K
125 x 150 x 40mm	345mm	3000kg	12.70kg	-0620K
150 x 200 x 50mm	420mm	5000kg	25.60kg	-0640K
150 x 300 x 50mm	520mm	5000kg	29.50kg	-0660K
200 x 300 x 65mm	595mm	8000kg	86.00kg	-0690K

Angle Plate Cutter



Replacement Parts

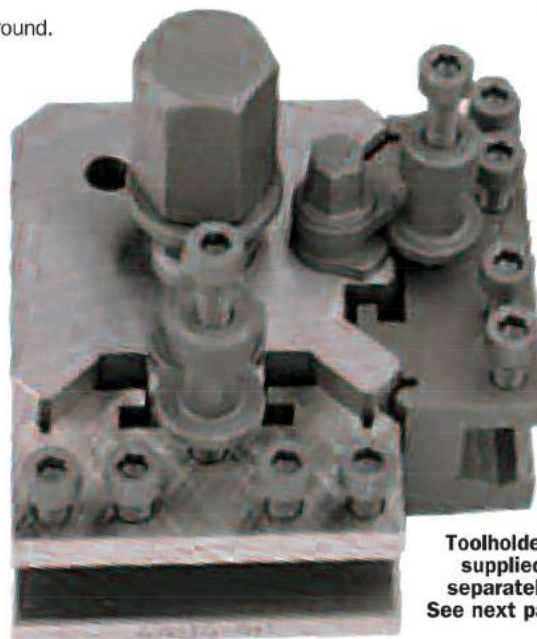
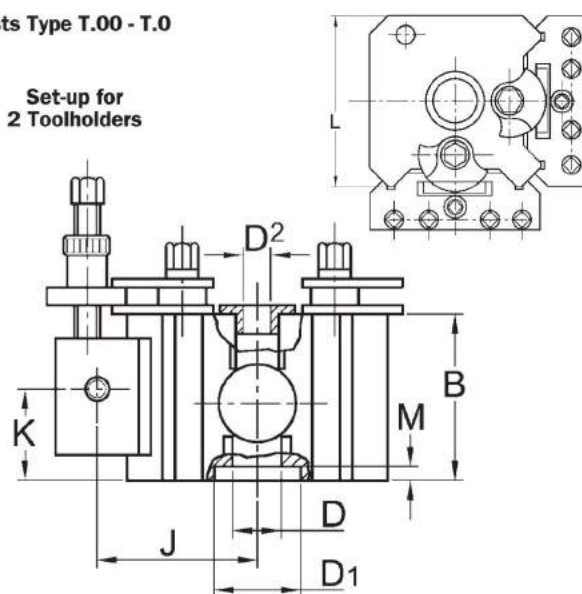
Description	Weight each	Order Code ATL-567
Top Blade for ATL-448-1200K Shear	445g	-3100K
Bottom Blade for ATL-448-1200K Shear	250g	-3110K
Top Blade for ATL-448-2000K Shear	1.4kg	-3150K
Bottom Blade for ATL-448-2000K Shear	790g	-3160K
Top Blade for ATL-448-3000K Shear	430g	-3200K
Bottom Blade for ATL-448-3000K Shear	220g	-3210K

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Made of alloy case steel. All working surfaces are hardened and precision ground.

Toolposts Type T.00 - T.0

Set-up for
2 Toolholders



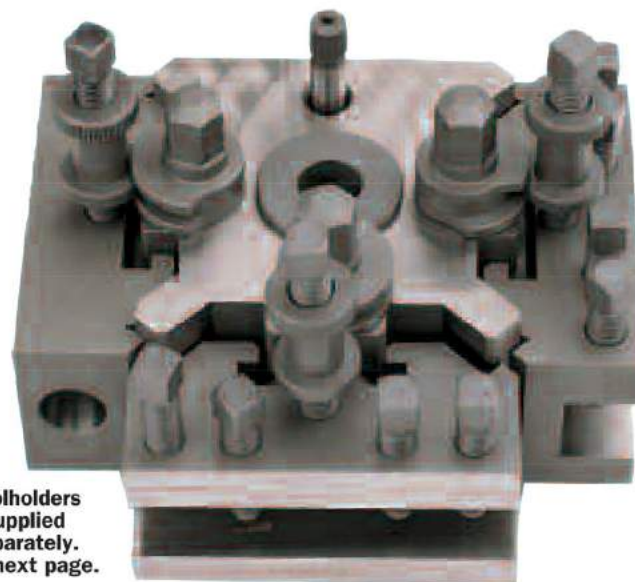
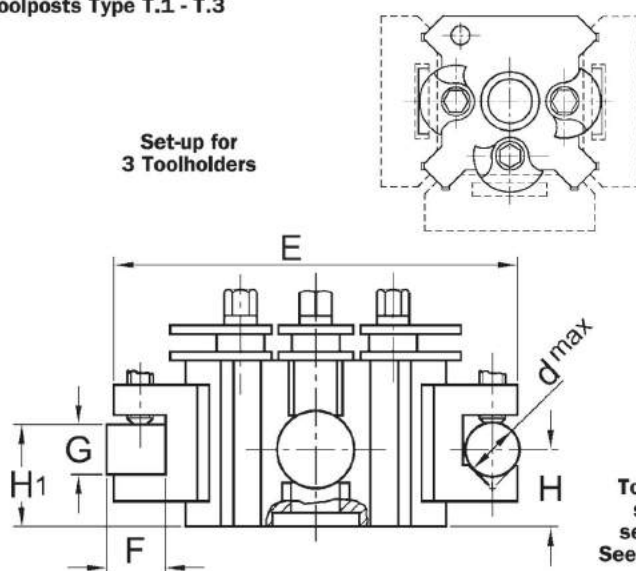
Toolholders
supplied
separately.
See next page.

Type	No. of Toolholders	Lathe Capacity	B	D ₁ Dia.	M Depth	D	E	G	F	H ₁ Max	H ₁ Min.
T.00M	2	Up to 89mm	37.0	-	-	11.2	-	10	11	27	17
T.00B	2	Up to 89mm	42.0	-	-	16.0	-	10	11	32	17
T.0	3	Up to 114mm	51.0	22.22	5.0	19.0	124	13	13	36.5	20.5

Type	Bar dia. d Max.	H Max.	H Min.	Taper	J	K Max.	K Min.	L	D ₂	Weight each	Order Code IND-445
T.00M	11.0	22.5	12.5	-	-	-	-	58.0	-	0.90kg	-4800K
T.0	16.0	32.0	16.0	1	52.5	28.5	16.0	73.0	16.0	2.00kg	-4820K

Toolposts Type T.1 - T.3

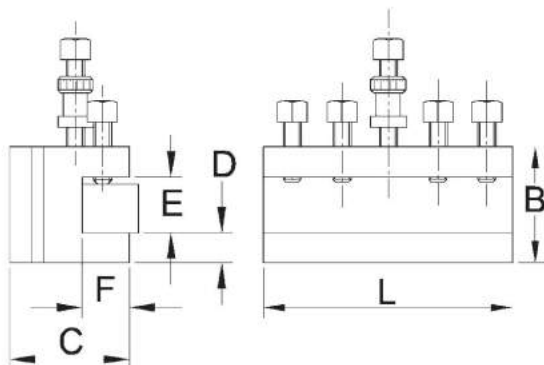
Set-up for
3 Toolholders



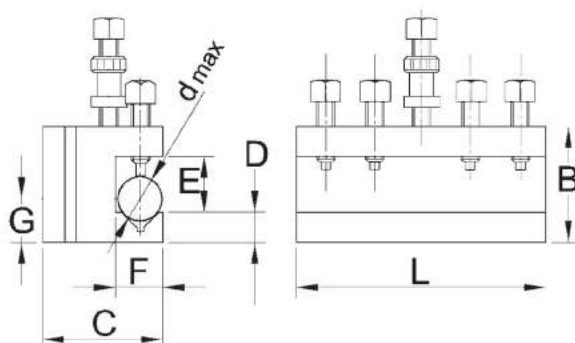
Toolholders
supplied
separately.
See next page.

Type	No. of Toolholders	Lathe Capacity	B	D ₁ Dia.	M Depth	D	E	G	F	H ₁ Max	H ₁ Min.
T.1	3	114 to 127mm	63.5	31.75	6.5	19.0	124	19	13	46	30
T.1X	3	114 to 127mm	73.0	31.75	6.5	19.0	124	19	13	57	35
T.2	3	127 to 203mm	71.5	44.45	8.0	25.5	159	19	19	54	36.5
T.2T	3	127 to 203mm	76.0	44.45	8.0	25.5	168	25.5	25.5	58.5	39.5
T.3	3	203 to 292mm	92.0	50.80	9.5	25.5	203	31.5	22.5	73	51

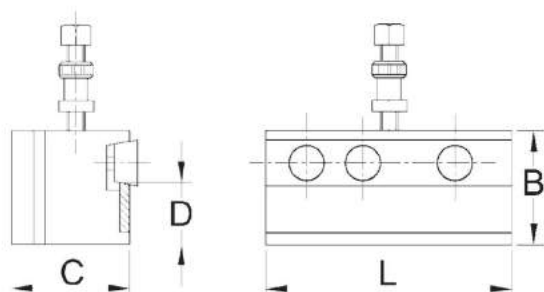
Type	Bar dia. d Max.	H Max.	H Min.	Taper	J	K Max.	K Min.	L	D ₂	Weight each	Order Code IND-445
T.1	16.0	44.5	25.5	1	52.5	41.0	22.0	73.0	16.0	2.30kg	-4830K
T.1X	16.0	54.0	32.0	1 & 2	52.5	51.0	28.5	73.0	16.0	2.60kg	-4840K
T.2	19.0	46.0	24.0	2	65.0	47.5	27.0	98.5	16.0	4.60kg	-4850K
T.2T	19.0	50.0	24.0	2 & 3	70.0	47.5	27.0	106.5	16.0	5.80kg	-4860K
T.3	25.5	51.0	28.5	3	85.5	58.5	36.5	125.5	22.0	10.8kg	-4870K


Standard Type


Used On	L (mm)	B	C	D	E	F	Order Code
T.00	58.0	27.0	28.0	7.0	13.0	11	-5010K
T.0	73.0	35.0	32.0	8.0	16.0	14	-5020K
T.1	73.0	44.5	32.0	11.0	22.0	14	-5030K
T.2	98.5	50.0	40.0	12.0	22.0	19	-5040K
T.2T	98.5	57.0	40.0	14.0	28.5	19	-5050K
T.3	124.0	70.0	48.5	17.5	35.0	23	-5060K


Vee Type


Used On	L (mm)	B	C	D	E	F	G	d Max	Order Code
T.00	58.0	27.0	28.0	8.0	13.0	11	13.5	11.0	-5110K
T.0	73.0	35.0	32.0	8.0	16.0	14	16.0	16.0	-5120K
T.1	73.0	44.5	32.0	16.0	17.0	14	24.0	16.0	-5130K
T.2	98.5	50.0	40.0	14.0	22.0	19	24.0	19.0	-5140K
T.2T	98.5	57.0	40.0	14.0	28.5	19	24.0	19.0	-5150K
T.3	124.0	70.0	48.5	17.5	35.0	23	28.5	25.5	-5160K


Parting Off Type


Used On	L (mm)	B	C	D	Order Code
T.0/T.1	73.0	47.5	32.0	27.0	-5370K
T.2	98.5	57.0	39.5	33.5	-5380K



INDEXA Modular Coolant Hose System

Modular coolant hose system is ideal for coolants, fluids and air lines. Suitable for all wet machining, spark erosion and air line operations up to 50PSI air and 30PSI liquid. Flow direction is easily and accurately positioned with no spring-back. All parts are fully interchangeable and fully replaceable if a single section is damaged. Manufactured from acetal - non-conductive and chemical resistant. Available with 1/4", 1/2" and 3/4" bore. Hose is green, all other fittings are orange.

**Starter Packs**

Contents	Weight each	Order Code
1/4" Bore		
12" Hose	40g	-6910K
4 Nozzles		
2 Connectors		
1/2" Bore		
13" Hose	91g	-7910K
3 Nozzles		
2 Connectors		
3/4" Bore		
14" Hose	126g	-8910K
2 Nozzles		
1 Connectors		

Tube Segments

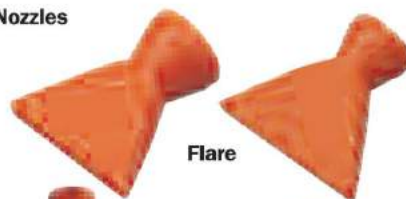
Bore Size	Weight each	Order Code
11" Lengths (Green)		
1/4"	40g	-6210K
1/2"	69g	-7210K
3/4"	102g	-8210K
11" Lengths (Blue)		
3/4"	102g	-8230K
25ft Bulk Pack (Green)		
1/4"	886g	-8250K
1/2"	1637g	-7250K
3/4"	2381g	-8250K

Modular Manifold Kits

Description	Bore Size	Weight each	Order Code
4x T-Pieces,	1/4"	109g	-6450K
2x Plug,			
1x Bracket,	1/2"	98g	-7450K
4x Screws			

Modular Coolant Hose System**Threaded Spigots****Male Spigot**

Bore Size	Inlet Size	Weight each	Order Code
1/4"	1/8" NPT Female	2g	-6710K
	1/4" NPT Female	2g	-6730K
1/4"	1/8" NPT Male	2g	-6170K
	1/4" NPT Male	2g	-6190K
1/2"	3/8" NPT Male	7g	-7170K
	1/2" NPT Male	7g	-7190K
1/2"	1/2" NPT Female	7g	-7730K
	3/4" NPT Male	10g	-8170K

Nozzles**Flare****Pointed**

Type	Size	Weight each	Order Code
1/4" Bore			
Pointed	1/16"	5g	-6610K
	1/8"	5g	-6630K
	3/16"	5g	-6640K
	1/4"	5g	-6650K
Flare	1"	5g	-6670K
1/2" Bore			
Pointed	1/4"	5g	-7610K
	3/8"	5g	-7630K
	1/2"	5g	-7650K
Flare	1 3/4"	5g	-7670K
	2 1/2"	5g	-7690K
3/4" Bore			
Pointed	5/8"	10g	-8610K
	3/4"	10g	-8630K
Flare	3"	10g	-8650K

Plastic Valves

1/4 turn fitting.



Bore Size	Inlet Type	Weight each	Order Code
1/4"	In-line	10g	-6050K
1/2"	In-line	30g	-7050K

Metal Ball Valves

Threaded fitting 1/4 turn.



NPT Threads	Weight each	Order Code
Male x Female		IND-447
1/8" x 1/8"	81g	-6070K
1/4" x 1/4"	80g	-6090K
3/8" x 3/8"	76g	-7070K
1/2" x 1/2"	114g	-7090K

Modular Coolant Hose System**Junction Pieces****L-Piece****Y-Piece**

Type	Weight each	Order Code
1/4" Bore		
Y-Piece	3g	-6310K
T-Piece	3g	-6350K
L-Piece	4g	-6370K

Type	Weight each	Order Code
1/2" Bore		
Y-Piece	9g	-7310K
T-Piece	9g	-7350K
L-Piece	12g	-7370K

Junction Reducers

Type	Weight each	Order Code
1/2" Bore		
1/2" to 2 x 1/4"	4g	-7330K
1/2" to 1/4"	3g	-7510K
3/4" Bore		
3/4" to 1/2"	5g	-8510K

INDEXA**Quick Set Machine Shields**

14" (3/4" bore) hose length. Suitable for small machine tools. Fully adjustable with magnetic base.



Visor Size	Weight each	Order Code
Shield (complete)		
6" x 8"	500g	-0250K
7 1/2" x 10"	570g	-0260K

Quick Action Assembly Pliers

Bore Size	Order Code
1/4"	-0010K
1/2"	-0020K



JHL Six Knurl Toolholder

Machine ground high grade steel, black mottle finish. Revolving head. Knurls available separately, see table below. For use with knurl size $\frac{3}{4}$ " x $\frac{3}{8}$ " x $\frac{1}{4}$ ".



Size	Knurls Fitted	Weight each	Order Code JHL-450
$\frac{1}{2}$ " x $1\frac{1}{8}$ " x $6\frac{1}{2}$ "	-1110B & -1210B	640g	-8000A

Two Knurl Toolholder

Machine ground high grade steel, black mottle finish. Self-adjusting head. Knurls available separately, see table below. For use with knurl size $\frac{3}{4}$ " x $\frac{3}{8}$ " x $\frac{1}{4}$ ".



Size	Knurls Fitted	Weight each	Order Code JHL-450
$\frac{1}{2}$ " x $\frac{7}{8}$ " x $6\frac{1}{2}$ "	-1110B & -1210B	290g	-8020C

$\frac{3}{4}$ " x $\frac{3}{8}$ " x $\frac{1}{4}$ " Knurls to suit Toolholders above

Style	Weight each	Order Code JHL-450		
		Coarse	Medium	Fine
Straight	10g	-1000A	-1010B	-1020C
Right Hand	10g	-1100A	-1110B	-1120C
Left Hand	10g	-1200A	-1210B	-1220C
Checkered	10g	-1300A	-1310B	-1320C

Two Knurl Toolholder

Side knurling up to a face or shoulder. Knurls available separately, see table below. For use with knurl size 25 x 10 x 16mm.



Size	Knurls Fitted	Weight each	Order Code JHL-450
20 x 25 x 85mm	-3110B & -3210B	900g	-8040E

25 x 10 x 16mm Knurls to suit Toolholder above

Style	Weight each	Order Code JHL-450		
		Coarse	Medium	Fine
Straight	10g	-3000A	-3010B	-3020C
Right Hand	10g	-3100A	-3110B	-3120C
Left Hand	10g	-3200A	-3210B	-3220C

TURNING & KNURLING TOOLS

Six Knurl Toolholder

Machine ground high grade steel, black mottle finish. Revolving head. Knurls available separately, see table below. For use with knurl size $\frac{5}{8}$ " x $\frac{3}{16}$ " x $\frac{1}{4}$ ".



Size	Knurls Fitted	Weight each	Order Code JHL-450
$\frac{1}{2}$ " x $\frac{7}{8}$ " x $6\frac{1}{2}$ "	-2610B & -2710B	930g	-8010B

$\frac{5}{8}$ " x $\frac{3}{16}$ " x $\frac{1}{4}$ " Knurls to suit Toolholder above

Style	Weight each	Order Code JHL-450		
		Coarse	Medium	Fine
Straight	10g	-2500A	-2510B	-2520C
Right Hand	10g	-2600A	-2610B	-2620C
Left Hand	10g	-2700A	-2710B	-2720C
Checkered	10g	-2800A	-2810B	-

Two Knurl Toolholder

Machine ground high grade steel, black mottle finish. Self-adjusting head. Knurls available separately, see table below. For use with knurl size $\frac{5}{8}$ " x $\frac{5}{16}$ " x $\frac{7}{32}$ ".



Knurls supplied separately

Size	Knurls Fitted	Weight each	Order Code JHL-450
$\frac{3}{8}$ " x $\frac{7}{8}$ " x $5\frac{1}{2}$ "	Supplied separately	390g	-8030D

$\frac{5}{8}$ " x $\frac{5}{16}$ " x $\frac{7}{32}$ " Knurls to suit Toolholder above

Style	Weight each	Order Code JHL-450		
		Coarse	Medium	Fine
Straight	10g	-2000A	-2010B	-2020C
Right Hand	10g	-2100A	-2110B	-2120C
Left Hand	10g	-2200A	-2210B	-2220C
Checkered	10g	-2300A	-2310B	-2320C

Single Knurl Toolholder

Machine ground high grade steel, black mottle finish. Knurls available separately, see table below. For use with knurl size $\frac{3}{4}$ " x $\frac{1}{4}$ " x $\frac{1}{4}$ ".



Size	Knurls Fitted	Weight each	Order Code JHL-450
$\frac{1}{2}$ " x $\frac{1}{2}$ " x 4"	-1510B	140g	-8050F

$\frac{3}{4}$ " x $\frac{1}{4}$ " x $\frac{1}{4}$ " Knurls to suit Toolholder above

Style	Weight each	Order Code JHL-450		
		Coarse	Medium	Fine
Straight	10g	-1500A	-1510B	-1520C
Right Hand	10g	-1600A	-1610B	-1620C
Left Hand	10g	-1700A	-1710B	-1720C
Checkered	10g	-1800A	-1810B	-1820C

The heat and surface treatment plus the high quality of steel used in the manufacturing process ensure the springs will bear a high number of stresses without breaking or without appreciable loss of load. Every batch of springs is subject to a rigorous testing procedure to ensure that a consistent quality is maintained. Longer springs should be guided along their course.

Light Load Springs Colour-Coded Green



Product Number	Diameter		L ₀	Rigidity	Weight	Order Code
	DH	Dd	(mm)	(N/mm)	each	IND-460
V10 x 25	10	4.5	25	10	4g	-8000A
V10 x 32	10	4.5	32	8.5	6g	-8001B
V10 x 38	10	4.5	38	6.8	7g	-8002C
V10 x 44	10	4.5	44	6.0	7g	-8003D
V10 x 51	10	4.5	51	5.0	8g	-8004E
V10 x 64	10	4.5	64	4.3	10g	-8005F
V10 x 76	10	4.5	76	3.2	11g	-8006G
V10 x 305	10	4.5	305	1.1	45g	-8007H
V13 x 25	13	7.0	25	17.9	6g	-8108J
V13 x 32	13	7.0	32	16.4	7g	-8109K
V13 x 38	13	7.0	38	13.6	9g	-8110L
V13 x 44	13	7.0	44	12.1	11g	-8111M
V13 x 51	13	7.0	51	11.4	12g	-8112N
V13 x 64	13	7.0	64	9.3	14g	-8113P
V13 x 76	13	7.0	76	7.1	16g	-8114Q
V13 x 305	13	7.0	305	1.4	63g	-8115R
V16 x 25	16	8.0	25	23.4	9g	-8216S
V16 x 32	16	8.0	32	22.9	11g	-8217T
V16 x 38	16	8.0	38	19.3	13g	-8218V
V16 x 44	16	8.0	44	17.1	17g	-8219W
V16 x 51	16	8.0	51	15.7	18g	-8220X
V16 x 64	16	8.0	64	10.7	22g	-8221Y
V16 x 76	16	8.0	76	10.0	26g	-8222Z
V16 x 102	16	8.0	102	7.8	35g	-8224B
V20 x 25	20	10.0	25	55.8	15g	-8326D
V20 x 32	20	10.0	32	45.0	20g	-8327E
V20 x 38	20	10.0	38	33.30	22g	-8328F
V20 x 44	20	10.0	44	30.0	28g	-8329G
V20 x 51	20	10.0	51	24.5	31g	-8330H
V20 x 64	20	10.0	64	20.0	40g	-8331J
V20 x 76	20	10.0	76	16.0	47g	-8332K
V20 x 89	20	10.0	89	14.0	54g	-8333L
V20 x 102	20	10.0	102	12.0	110g	-8334M
V20 x 115	20	10.0	115	10.9	123g	-8335N
V20 x 127	20	10.0	127	9.5	135g	-8336P
V20 x 152	20	10.0	152	7.5	90g	-8338R
V25 x 25	26	12.5	25	100.0	27g	-8440T
V25 x 32	26	12.5	32	80.3	35g	-8441V
V25 x 38	26	12.5	38	62.0	44g	-8442W
V25 x 51	26	12.5	51	44.0	57g	-8444Y
V25 x 64	26	12.5	64	35.2	71g	-8445Z
V25 x 76	26	12.5	76	28.0	87g	-8446A
V25 x 89	26	12.5	89	29.0	96g	-8447B
V25 x 102	26	12.5	102	21.1	110g	-8448C
V25 x 115	26	12.5	115	18.7	125g	-8449D
V25 x 127	26	12.5	127	16.7	135g	-8450E
V25 x 152	26	12.5	152	14.0	165g	-8452G
V25 x 203	26	12.5	203	10.4	215g	-8454J
V32 x 38	32	16.0	38	94.0	60g	-8557M
V32 x 76	32	16.0	76	44.0	132g	-8561R
V32 x 102	32	16.0	102	32.0	173g	-8563T
V32 x 115	32	16.0	115	29.0	190g	-8564V
V32 x 127	32	16.0	127	25.0	215g	-8565W
V32 x 152	32	16.0	152	21.5	262g	-8567Y
V32 x 178	32	16.0	178	18.2	300g	-8568Z
V32 x 203	32	16.0	203	1.40	350g	-8569K
V40 x 64	40	20.0	64	73.0	165g	-8673E
V40 x 76	40	20.0	76	63.0	188g	-8674F
V40 x 102	40	20.0	102	43.0	247g	-8676H
V50 x 64	50	25.0	64	156.0	305g	-8785S
V50 x 76	50	25.0	76	125.0	450g	-8786T
V50 x 102	50	25.0	102	94.0	470g	-8788W
V50 x 115	50	25.0	115	81.0	590g	-8789X

Medium Load Springs Colour-Coded Blue



Product Number	Diameter		L ₀	Rigidity	Weight	Order Code
	DH	Dd	(mm)	(N/mm)	each	IND-460
B10 x 25	10	4.5	25	16.0	3g	-6000A
B10 x 32	10	4.5	32	13.0	4g	-6001B
B10 x 38	10	5.0	44	11.9	4g	-6002C
B10 x 44	10	4.5	44	10.3	5g	-6003D
B10 x 51	10	4.5	51	8.9	7g	-6004E
B10 x 64	10	4.5	64	7.5	9g	-6005F
B10 x 76	10	4.5	76	5.3	11g	-6006G
B10 x 305	10	4.5	305	1.6	45g	-6007H
B13 x 25	13	7.0	25	30.0	6g	-6108J
B13 x 32	13	7.0	32	24.8	8g	-6109K
B13 x 38	13	7.0	38	21.4	10g	-6110L
B13 x 44	13	7.0	44	18.5	12g	-6111M
B13 x 51	13	7.0	51	15.5	13g	-6112N
B13 x 64	13	7.0	64	12.1	15g	-6113P
B13 x 76	13	7.0	76	10.2	17g	-6114Q
B13 x 305	13	7.0	305	2.1	73g	-6115R
B16 x 25	16	8.0	25	49.4	12g	-6216S
B16 x 32	16	8.0	32	37.1	14g	-6217T
B16 x 38	16	8.0	38	33.9	15g	-6218V
B16 x 44	16	8.0	44	30.0	19g	-6219W
B16 x 51	16	8.0	51	26.4	21g	-6220X
B16 x 64	16	8.0	64	20.5	27g	-6221Y
B16 x 76	16	8.0	76	17.8	33g	-6222Z
B16 x 102	16	8.0	102	13.5	43g	-6224B
B20 x 25	20	10.0	25	98.0	19g	-6326D
B20 x 32	20	10.0	32	72.6	23g	-6327E
B20 x 38	20	10.0	38	56.0	26g	-6328F
B20 x 44	20	10.0	44	47.5	32g	-6329G
B20 x 51	20	10.0	51	41.7	35g	-6330H
B20 x 64	20	10.0	64	32.3	46g	-6331J
B20 x 76	20	10.0	76	25.1	55g	-6332K
B20 x 89	20	10.0	89	22.0	61g	-6333L
B20 x 102	20	10.0	102	19.8	68g	-6334M
B20 x 127	20	10.0	127	16.6	85g	-6336P
B20x152	20	10.0	152	1.30	103g	-6338R
B25 x 25	26	12.5	25	147.0	33g	-6440T
B25 x 32	26	12.5	32	118.0	42g	-6441V
B25 x 38	26	12.5	38	93.0	48g	-6442W
B25 x 44	26	12.5	44	80.8	56g	-6443X
B25 x 51	26	12.5	51	68.6	65g	-6444Y
B25 x 64	26	12.5	64	53.0	90g	-6445Z
B25 x 76	26	12.5	76	43.2	96g	-6446A
B25 x 89	26	12.5	89	38.2	118g	-6447B
B25 x 102	26	12.5	102	33.0	131g	-6448C
B25 x 152	26	12.5	152	20.8	190g	-6452G
B32 x 38	32	16.0	38	185.0	80g	-6557M
B32 x 44	32	16.0	44	158.0	90g	-6558N
B32 x 51	32	16.0	51	134.0	100g	-6559P
B32 x 64	32	16.0	64	99.0	130g	-6560Q
B32 x 76	32	16.0	76	80.5	152g	-6561R
B32 x 102	32	16.0	102	58.8	203g	-6563T
B32 x 115	32	16.0	115	51.5	223g	-6564V
B32 x 127	32	16.0	127	44.8	252g	-6565W
B32 x 152	32	16.0	152	37.8	292g	-6567Y
B32 x 178	32	16.0	178	32.5	320g	-6568Z
B40 x 51	40	20.0	51	181.6	157g	-6672D
B40 x 64	40	20.0	64	140.0	194g	-6673E
B40 x 89	40	20.0	89	90.7	265g	-6675G
B40 x 102	40	20.0	102	81.0	300g	-6676H
B50 x 64	50	25.0	64	209.0	340g	-6785S
B50 x 76	50	25.0	76	168.0	395g	-6786T



The heat and surface treatment plus the high quality of steel used in the manufacturing process ensure the springs will bear a high number of stresses without breaking or without appreciable loss of load. Every batch of springs is subject to a rigorous testing procedure to ensure that a consistent quality is maintained. Longer springs should be guided along their course.

**Heavy-Load Springs
Colour Coded Red**

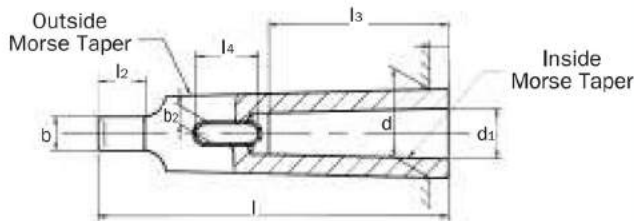

Product Number	Diameter		L ₀ (mm)	Rigidity (N/mm)	Weight each	Order Code
	D _H	D _d				IND-460
R10 x 25	10	4.5	25	22.10	4g	-1000A
R10 x 32	10	4.5	32	17.50	5g	-1001B
R10 x 38	10	4.5	38	17.10	6g	-1002C
R10 x 44	10	5.0	180	15.00	8g	-1003D
R10 x 51	10	4.5	51	12.80	8g	-1004E
R10 x 64	10	4.5	64	10.7	11g	-1005F
R13 x 25	13	7.0	25	42.1	12g	-1108J
R13 x 38	13	7.0	38	29.3	13g	-1110L
R13 x 44	13	7.0	44	24.6	15g	-1111M
R13 x 51	13	7.0	51	19.6	17g	-1112N
R13 x 64	13	7.0	64	15.0	21g	-1113P
R13 x 76	13	7.0	76	13.2	24g	-1114Q
R16 x 25	16	8.0	25	75.7	12g	-1216S
R16 x 32	16	8.0	32	52.8	14g	-1217T
R16 x 38	16	8.0	38	48.5	17g	-1218V
R16 x 44	16	8.0	44	42.8	20g	-1219W
R16 x 51	16	8.0	51	37.1	23g	-1220X
R16 x 64	16	8.0	64	30.3	27g	-1221Y
R16 x 76	16	8.0	76	25.7	34g	-1222Z
R20 x 25	20	10.0	25	216.0	20g	-1326D
R20 x 32	20	10.0	32	168.0	28g	-1327E
R20 x 38	20	10.0	38	129.0	32g	-1328F
R20 x 44	20	10.0	44	112.0	38g	-1329G
R20 x 51	20	10.0	51	94.0	44g	-1330H
R20 x 64	20	10.0	64	72.1	54g	-1331J
R20 x 76	20	10.0	76	59.7	63g	-1332K
R20 x 89	20	10.0	89	50.5	75g	-1333L
R20 x 102	20	10.0	102	44.2	88g	-1334M
R20 x 127	20	10.0	127	34.1	107g	-1336P
R25 x 32	26	12.5	32	297.0	48g	-1441V
R25 x 38	26	12.5	38	219.0	56g	-1442W
R25 x 44	26	12.5	44	187.0	57g	-1443X
R25 x 51	26	12.5	51	156.0	63g	-1444Y
R25 x 64	26	12.5	64	123.0	85g	-1445Z
R25 x 76	26	12.5	76	99.0	110g	-1446A
R25 x 89	26	12.5	89	84.0	139g	-1447B
R25 x 102	26	12.5	102	73.0	144g	-1448C
R25 x 115	26	12.5	115	65.0	168g	-1449D
R25 x 127	26	12.5	127	57.7	182g	-1450E
R25 x 152	26	12.5	152	47.8	222g	-1452G
R25 x 178	26	12.5	178	41.0	256g	-1453H
R32 x 38	32	16.0	38	388.0	93g	-1557M
R32 x 44	32	16.0	44	324.0	105g	-1558N
R32 x 51	32	16.0	51	272.0	117g	-1559P
R32 x 64	32	16.0	64	212.0	148g	-1560Q
R32 x 76	32	16.0	76	172.0	178g	-1561R
R32 x 89	32	16.0	89	141.0	204g	-1562S
R32 x 102	32	16.0	102	122.0	230g	-1563T
R32 x 152	32	16.0	152	78.0	380g	-1567Y
R32 x 178	32	16.0	178	67.2	410g	-1568Z
R40 x 51	40	20.0	51	350.0	181g	-1672D
R40 x 64	40	20.0	64	269.0	220g	-1673E
R40 x 76	40	20.0	76	219.0	261g	-1674F
R40 x 89	40	20.0	89	190.0	315g	-1675G
R40 x 102	40	20.0	102	163.0	341g	-1676H
R40 x 127	40	20.0	127	128.0	420g	-1678K
R40 x 152	40	20.0	152	105.0	500g	-1680M
R50 x 64	51	25.0	64	413.0	416g	-1785S
R50 x 76	51	25.0	76	339.0	438g	-1786T

**Extra Heavy-Load Springs
Colour Coded Yellow**


Product Number	Diameter		L ₀ (mm)	Rigidity (N/mm)	Weight each	Order Code
	D _H	D _d				IND-460
G10 x 25	10	4.5	25	36.8	5g	-3000A
G10 x 32	10	4.5	32	27.9	7g	-3001B
G10 x 38	10	4.5	38	23.7	8g	-3002C
G10 x 44	10	4.5	44	19.2	9g	-3003D
G10 x 51	10	4.5	51	16.5	10g	-3004E
G10 x 64	10	5.0	64	13.2	11g	-3005F
G13 x 25	13	7.0	25	58.5	11g	-3108J
G13 x 32	13	7.0	32	43.9	11g	-3109K
G13 x 38	13	7.0	38	3.70	13g	-3110L
G13 x 44	13	7.0	44	30.3	15g	-3111M
G13 x 51	13	7.0	51	26.2	80g	-3112N
G13 x 64	13	7.0	64	21.2	22g	-3113P
G16 x 32	16	8.0	32	89.0	17g	-3217T
G16 x 38	16	8.0	38	72.1	22g	-3218V
G16 x 44	16	8.0	44	60.9	25g	-3219W
G16 x 51	16	8.0	51	52.3	29g	-3220X
G16 x 64	16	8.0	64	41.2	36g	-3221Y
G16 x 76	16	8.0	76	34.1	42g	-3222Z
G20 x 25	20	10.0	25	293.0	23g	-3326D
G20 x 32	20	10.0	32	224.0	28g	-3327E
G20 x 38	20	10.0	38	177.0	33g	-3328F
G20 x 44	20	10.0	44	149.0	39g	-3329G
G20 x 51	20	10.0	51	128.0	45g	-3330H
G20 x 64	20	10.0	64	99.0	56g	-3331J
G20 x 76	20	10.0	76	81.7	64g	-3332K
G20 x 89	20	10.0	89	69.5	73g	-3333L
G20 x 102	20	10.0	102	60.6	86g	-3334M
G25 x 32	26	12.5	32	374.4	48g	-3441V
G25 x 38	26	12.5	38	346.0	60g	-3442W
G25 x 44	26	12.5	44	244.0	70g	-3443X
G25 x 51	26	12.5	51	207.5	80g	-3444Y
G25 x 64	26	12.5	64	161.0	99g	-3445Z
G25 x 76	26	12.5	76	130.8	114g	-3446A
G25 x 89	26	12.5	89	110.5	134g	-3447B
G25 x 102	26	12.5	102	96.3	151g	-3448C
G25 x 115	25	12.5	115	85.7	174g	-3449D
G25 x 127	26	12.5	127	76.3	190g	-3450E
G32 x 38	32	16.0	38	528.2	98g	-3557M
G32 x 44	32	16.0	44	424.4	115g	-3558N
G32 x 51	32	16.0	51	353.0	131g	-3559P
G32 x 64	32	16.0	64	269.2	163g	-3560Q
G32 x 76	32	16.0	76	218.5	200g	-3561R
G32 x 89	32	16.0	89	180.3	226g	-3562S
G32 x 102	32	16.0	102	155.0	252g	-3563T
G32 x 140	32	16.0	140	112.3	350g	-3566X
G32 x 152	32	16.0	152	102.0	380g	-3567Y
G40 x 51	40	20.0	51	628.0	190g	-3672D
G40 x 64	40	20.0	64	487.0	238g	-3673E
G40 x 76	40	20.0	76	379.0	275g	-3674F
G40 x 89	40	20.0	89	321.0	330g	-3675G
G50 x 64	50	25.0	64	709.0	410g	-3785S
G50 x 89	51	25.0	89	475.0	593g	-3787V

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A range of quality traditional workholding equipment. Manufactured from high quality steel and case hardened all over. All sleeves and sockets are fully hardened and ground internally and externally.
ISO 238 BS 1660 : 2.

Morse Taper Sleeve Data


MT		l	d	b	l2	d1	l3	l4	b2
Inside	Outside								
1	2	92.00	17.780	6.350	11.112	12.065	52.388	19.050	5.410
1	3	99.00	23.825	7.938	14.288	12.065	52.388	19.050	5.410
2	3	112.00	23.825	7.938	14.288	17.780	63.500	22.225	6.604
1	4	124.00	31.267	11.906	15.875	12.065	52.388	19.050	5.410
2	4	124.00	31.267	11.906	15.875	17.780	63.500	22.225	6.604
3	4	140.00	31.267	11.906	15.875	23.825	77.788	30.162	8.179
1	5	156.00	44.399	15.875	19.050	12.065	52.388	19.050	5.410
2	5	156.00	44.399	15.875	19.050	17.780	63.500	22.225	6.604
3	5	156.00	44.399	15.875	19.050	23.825	77.788	30.162	8.179
4	5	171.00	44.399	15.875	19.050	31.267	98.425	31.750	12.141
1	6	218.00	63.348	19.050	28.575	12.065	52.388	19.050	5.410
2	6	218.00	63.348	19.050	28.575	17.780	63.500	22.225	6.604
3	6	218.00	63.348	19.050	28.575	23.825	77.788	30.162	8.179
4	6	218.00	63.348	19.050	28.575	31.267	98.425	31.750	12.141
5	6	218.00	63.348	19.050	28.575	44.399	125.412	38.100	16.129

Drill Sleeves


Taper Inside x Outside	Length (mm)	Weight each	Order Code KEN-482
1 x 2 MT	95	110g	-2120K
1 x 3 MT	97	220g	-2130K
1 x 4 MT	120	560g	-2140K
1 x 5 MT	152	1500g	-2150K
2 x 3 MT	110	200g	-2230K
2 x 4 MT	123	490g	-2240K
2 x 5 MT	155	1500g	-2250K
3 x 4 MT	140	430g	-2340K
3 x 5 MT	155	1200g	-2350K
4 x 5 MT	170	1100g	-2450K
4 x 6 MT	215	3600g	-2460K
5 x 6 MT	225	2800g	-2560K

Extension Sockets


Taper	Length (mm)	Weight each	Order Code
Inside x Outside			KEN-482
1 x 1 MT	145	275g	-4110K
1 x 2 MT	160	290g	-4120K
2 x 1 MT	175	300g	-4210K
2 x 2 MT	175	390g	-4220K
2 x 3 MT	194	710g	-4230K
3 x 2 MT	194	620g	-4320K
3 x 3 MT	230	750g	-4330K
3 x 4 MT	255	1400g	-4340K
4 x 3 MT	255	1500g	-4430K
4 x 5 MT	300	3000g	-4450K
5 x 4 MT	300	2500g	-4540K

Drill Drifts

To release Morse Taper Tooling without damaging machine socket or tools.



To Release Morse Taper	Weight each	Order Code
		KEN-482
0	40g	-9500K
1 & 2	80g	-9520K
3	220g	-9530K
3 & 5	380g	-9540K
5 & 6	760g	-9560K

Drill Sleeve & Drift Set

Set of three drill sleeves 1 - 2, 2 - 3, 3 - 4 MT. Fully hardened and ground inside and out. Two drill drifts to release 1 - 2 and 3 - 4 MT.



Weight Set	Order Code
	KEN-482
995g	-9900K

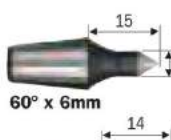
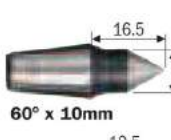
Standard Duty Interchangeable Revolving Centre Sets

Manufactured from high alloy steel, precision ground internally and externally with pre-lubricated bearings. A versatile revolving centre with interchangeable points for a wide variety of applications. Ideal for toolroom or manufacture of small turned components. Points fit into body by means of a taper and are removed by use of the drift key supplied. All mating surfaces are precision ground and the set is supplied in a varnished wooden storage box.



Morse Taper	Axial Load at 100rpm	Radial Load at 100rpm	Max rpm	Max Runout
No. 2	200Kgf	100Kgf	4000	0.005mm
No. 3	400Kgf	200Kgf	3000	0.005mm



				
70° Cone	60° x 6mm	60° x 10mm		
				
60° x 5.5mm Int.	60° x 7.5mm	60° x 12.7mm (2 off)		
				
Drift Key				
Morse Taper	Length (mm)	Diameter (mm)	Weight each	Order Code
No.2	124	33	0.85kg	KEN-488
No.3	152	42	1.10kg	-1320K
				-1330K

Replacement Interchangeable Points

A complete range of interchangeable points to complement the revolving centre sets.

Description	Weight each	Order Code KEN-489
60° Point x 6mm Dia.	20g	-1020K
60° Point x 7.5mm Dia.	20g	-1030K
60° Point x 10mm Dia.	25g	-1040K
60° Point x 12.7mm Dia.	20g	-1050K

ATLAS WORKHOLDERS Standard Duty Revolving Centres

Manufactured from high alloy steel hardened and tempered then precision ground externally. Precision bearings are fitted as standard and the centres have a 60° point.

Maximum runout: 0.005mm.



Morse Taper	Max rpm	Radial Load (rpm) @100 (kgf)	Radial Load (rpm) @max (kgf)	Axial Load (rpm) @100 (kgf)	Axial Load (rpm) @3000 (kgf)	Weight each	Order Code ATL-488
No.2	7000	200	50	250	50	0.50kg	-1020K
No.3	6000	300	80	380	90	0.80kg	-1030K
No.4	5000	800	220	900	270	2.30kg	-1040K

REVOLVING & SOLID CENTRES

INDEXA Heavy Duty Revolving Centres



Manufactured from high alloy steel, heat treated and precision ground. Fitted with heavy duty precision taper roller and thrust bearings to support both radial and axial loads. The 60° point is ground after assembly for absolute concentricity. Designed for heavy load and high production applications where durability is the main criteria. Mounting Tapers are accurate to **DIN228** Form A, Tolerance Class AT5.

Maximum runout:

No.2 to 5 taper: 0.005mm.

No.6 taper: 0.010mm.



Morse Taper	Max rpm	Radial Load (rpm) @100 (kgf)	Radial Load (rpm) @max (kgf)	Axial Load (rpm) @100 (kgf)	Axial Load (rpm) @3000 (kgf)	Weight each	Order Code IND-488
No.1	5000	35	10	190	50	0.25kg	-2010K
No.2	5000	85	20	350	100	0.35kg	-2020K
No.3	4000	175	50	700	200	0.92kg	-2030K
No.4	3000	350	125	700	200	1.45kg	-2040K
No.5	2500	800	350	1200	500 ⁽¹⁾	3.55kg	-2050K
No.6	2000	1250	600	3000	1000 ⁽²⁾	11.40kg	-2060K
No.7	1000	3500	2000	4500	1800 ⁽³⁾	22.80kg	-2070K

⁽¹⁾@2500rpm; ⁽²⁾@2000rpm; ⁽³⁾@1000rpm

KENNEDY Standard Duty Revolving Centres



Manufactured from high alloy steel hardened and tempered then precision ground externally. Precision bearings are fitted as standard and the centres have a 60° point.

Mounting Tapers are accurate to **DIN228** Form A, Tolerance Class AT5.

Maximum runout:

No.1 to 4 taper: 0.005mm.

No.5 to 6 taper: 0.010mm.



Morse Taper	Max rpm	Radial Load (rpm) @100 (kgf)	Radial Load (rpm) @max (kgf)	Axial Load (rpm) @100 (kgf)	Axial Load (rpm) @3000 (kgf)	Weight each	Order Code KEN-488
No.1	7000	80	32	250	50	0.37kg	-1010K
No.2	7000	200	55	275	60	0.43kg	-1020K
No.3	6000	300	70	400	70	0.67kg	-1030K
No.4	5000	600	75	500	125	1.23kg	-1040K
No.5	4000	800	280	570	230	3.00kg	-1050K

Industrial Solid Centres

Manufactured from high quality tool steel, hardened and ground with 60° point and spanner flats as standard. Mounting Tapers are accurate to **DIN228** Form A, Tolerance Class AT5.



Morse Taper	Diameter (mm)	Across Flats	Length (mm)	Weight each	Order Code KEN-487
No.1	12.20	10	78	60g	-1010K
No.2	18.00	13	90	200g	-1020K
No.3	24.10	19	138	300g	-1030K
No.4	31.60	24	138	450g	-1040K

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INDEXA Industrial Lathe Carriers

Available with straight or bent tail. Manufactured from high grade, malleable cast iron with high tensile strength. Smooth action square head clamping screw.

Straight



Type	Capacity	Weight each	Order Code IND-445
Straight	12.5mm	0.10kg	-9000K
	19.0mm	0.15kg	-9010K
	25.0mm	0.30kg	-9020K
	38.0mm	0.70kg	-9040K
	50.0mm	1.50kg	-9060K

Bent



Type	Capacity	Weight each	Order Code IND-445
Bent	12.5mm	0.10kg	-9200K
	19.0mm	0.15kg	-9210K
	25.0mm	0.30kg	-9220K
	38.0mm	0.70kg	-9240K
	50.0mm	1.50kg	-9260K

INDEXA Self-Centring Geared Scroll Lathe Chucks

Universal. Scrolls are forged, balanced and hardened. Thread flanks are ground on both sides. All models have grease nipples for easy lubrication and are supplied with two sets of solid jaws - internal and external stepped.

Cast Iron 3 Jaw Plain Back Chuck
DIN 6350 (form A).
Three jaw plain back with adaptor recess.
Model 003-204
Rear mounting.
Model 003-274
Front mounting.



Chuck Size (mm)	Through Hole	Weight each	Order Code IND-475	
			003-204 Rear Mount	003-274 Front Mount
80	16	1.51kg	-1010K	-
80	18	1.70kg	-	-1220K
100	20	2.98kg	-1030K	-1230K
125	32	4.84kg	-1040K	-1240K
160	42	9.78kg	-1060K	-1260K
200	55	16.0kg	-1070K	-1270K
250	76	27.9kg	-1080K	-1280K
315	103	47.5kg	-1090K	-1290K

Steel 3 Jaw Plain Back Chuck
DIN 6350 (form A).
Three jaw plain back with adaptor recess.
Model 003-504
Rear mounting.



Chuck Size (mm)	Through Hole	Weight each	Order Code IND-475
100	20	3.0kg	-1630K
125	35	5.0kg	-1640K
160	42	8.5kg	-1660K
200	55	16.0kg	-1670K
250	76	32.0kg	-1680K
315	103	50.0kg	-1690K

Cast Iron 3 Jaw Plain Back Chuck
DIN 6350 (form A).
Three jaw plain back with adaptor recess.
Model 003-275
Front mounting, reversible jaws.



Chuck Size (mm)	Through Hole	Weight each	Order Code IND-475
125	32	5.0kg	-1450K
160	42	10.8kg	-1460K
200	55	17.5kg	-1470K
250	76	29.2kg	-1480K
315	103	50.0kg	-1490K

Independent Jaw Lathe Chucks

Cast Iron 4 Jaw Plain Back Chuck Type 004-304
Front mounted. Independently adjustable jaws. Allows firm gripping of irregular shaped work and the four jaws allow a square component to be perfectly centred to the chuck while achieving maximum gripping force. Steel body (sizes 85 - 160mm) or high quality cast iron (sizes 200 - 800mm). Carbon steel hardened jaws. Supplied with reversible solid jaws. With T-Slots. **DIN 6531.**



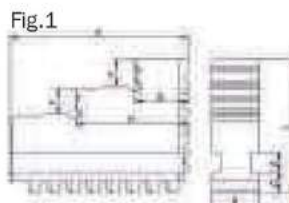
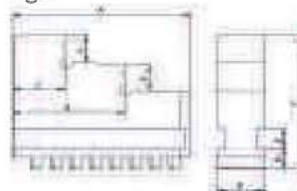
Chuck Jaws available on request



Chuck Size (mm)	Through Hole	Weight each	Order Code IND-475
200	50	14kg	-5050K
250	65	25kg	-5060K
315	80	39kg	-5070K

For self-centring lathe chucks (IND-475) - Indexa 3200 and 3500.
Chuck jaws supplied in sets of three.

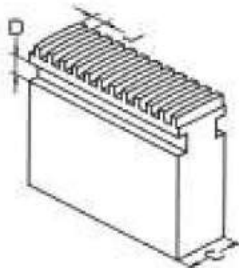
Hard Jaws

Outside

Fig.1
Fig.2

Inside


Size (mm)	Dimensions (mm)								Order Code IND-490	
	A	B	C	D	E	F	G	H	Outside (fig.1)	Inside (fig.2)
100	42	15	32	6	6	7	11	27	-1220K	-1020K
125	51	20	40	8	8	8	13	33.5	-1230K	-1030K
160	70	20	53	8	8	10	19	45	-1250K	-1050K
200	85	25	54	9	10	12	23	57	-1260K	-1060K
250	105	28	63	11	12	14	28	69.5	-1270K	-1070K
315	125	32	73	12.7	12	18	34.5	83	-1280K	-1080K

**KENNEDY Scroll
Jaws**
To Suit Pratt Burnard Chucks

For Standard, Super Precision, Griptru, all steel (type 78), Pratt Burnard old type (Inch) and Hardinge chucks.



Chuck Type	Jaw Code (Refer to Diameter)
Standard, Griptru, Super Precision	B, C, E, G, J, M, P, Q, R
All Steel (Type 78)	L, O
Burnard	I, K, N
Pratt Old Type	H
Hardinge/Pratt Type	F

3 Jaw Sets


4 and 6 jaw sets available on request

Jaw Code	Dimensions (mm)				Order Code KEN-490
	Chuck Diameter	C	D	J	
EJC	100mm	14.10	4.85	5.08	-1030K
EJE	125mm	15.75	8.03	6.35	-1050K
EJF	125mm	14.10	4.85	6.35	-1060K
EJG	160mm	18.79	8.03	6.35	-1070K
EJJ	200mm	20.62	9.53	8.46	-1100K
EJL	230mm	25.40	9.52	8.46	-1120K
EJM	250mm	25.40	11.10	8.46	-1130K
EJP	315mm	28.19	12.88	8.46	-1160K

Scroll Jaws

To suit Pratt Burnard metric chucks (Standard Accuracy and Super Precision).

3 Jaw Sets

**4 and 6 jaw sets
available on request**

Jaw Code	Dimensions (mm)				Order Code KEN-490
	Chuck Diameter	C	D	J	
EK16	160mm	18	7	6	-6030K
EK20	200mm	22	8	8	-6040K
EK25	250mm	25	8	8	-6050K
EK32	315mm	32	12	10	-6060K

Soft Scroll Jaws

To suit Index/Bison lathe chucks.

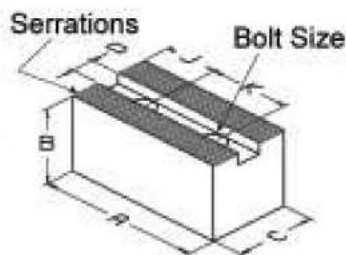
3 Jaw Sets


Jaw Code	Dimensions (mm)				Order Code KEN-490
	Chuck Diameter	C	D	J	
EN08	80mm	11	6	4	-6180K
EN10	100mm	15	6	6	-6200K
EN13	125mm	20	8	7	-6220K
EN16	160mm	20	8	8	-6230K
EN20	200mm	25	10	8	-6240K
EN25	250mm	28	12	9	-6250K
EN32	315mm	32	12	10	-6260K

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KENNEDY Serrated
Soft Jaws

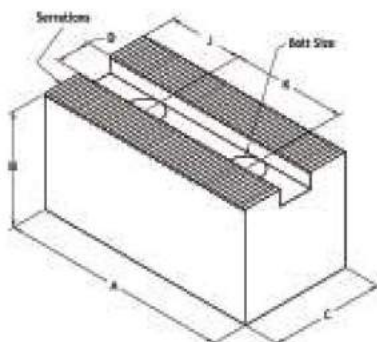
To suit metric serrated power chucks (Kitagawa, Howa, Matsumoto, Pratt Burnard, SMW and Autoblok etc.).



Jaw Code	Chuck Diameter	Dimensions (mm)				K/J Bolt	Serrations	Order Code
		A	B	C	D			
B006	165mm	72	38	32	12	20/15/M10	1.5mm x 60	-5560K
DJ06	165mm	72	57	32	12	20/15/M10	1.5mm x 60	-5860K
PT06	165mm	82	30	32	12	20/15/M10	1.5mm x 60	-2060K
B008	210mm	95	40	32	14	25/25/M12	1.5mm x 60	-5580K
DJ08	210mm	95	70	32	14	25/25/M12	1.5mm x 60	-5880K
PT08	210mm	102	40	32	14	25/20/M12	1.5mm x 60	-2080K
B010	254mm	110	40	40	16	30/30/M12	1.5mm x 60	-5600K
DJ10	254mm	110	80	40	16	30/30/M12	1.5mm x 60	-5900K
DK10	254mm	90	60	40	16	30/21/M12	1.5mm x 60	-5970K
PT10	254mm	125	40	40	16	30/30/M12	1.5mm x 60	-2100K
DK11	254mm	110	60	40	16	30/21/M12	1.5mm x 60	-5980K
B012	315mm	130	50	50	18	30/40/M14	1.5mm x 60	-5620K
DJ12	315mm	130	80	50	18	30/40/M14	1.5mm x 60	-5920K
BR13	315mm	130	50	50	21	30/40/M16	1.5mm x 60	-5700K
DJ13	315mm	130	80	50	21	30/40/M16	1.5mm x 60	-5930K
B015	380mm	165	76	64	22	43/37/M20	1.5mm x 60	-5650K
DJ15	380mm	165	127	64	22	43/37/M20	1.5mm x 60	-5950K
B018	454/530/610mm	180	76	64	25	60/40/M20	3mm x 60	-5660K

Serrated Soft Jaws

To suit inch serrated power chucks (Berg, Forkardt, Rohm, Pratt Burnard, SMW and Autoblok etc.).

3 Piece Set


Jaw Code	Chuck Diameter	Dimensions (mm)				K/J Bolt	Serrations	Order Code
		A	B	C	D			
BN90	165/200mm	90	60	40	17.0	22/15/M12	1/16" x 90	-5090K
BN12	250/315mm	120	80	50	21.0	28/20/M16	1/16" x 90	-5120K
BN23	400/500/630mm	155	89	64	25.5	35/30/M20	3/32" x 90	-5230K

INDEXA Lathe
Chuck Keys

Supplied as standard with all Indexa lathe chucks manufactured from high quality steel, ground finish body, sliding T-bar and spring return fitted to square drive. Suitable for use with all other makes of square drive adjusting lathe chucks.



Square (AF) Size (mm)	Length (mm)	Key to suit Chuck size (mm)	Weight each	Order Code
11	95	160/200	347g	-5930K
14	120	250/315	756g	-5950K



Huntington Type Wheel Dressers

With improved quick release cutter wheel design which reduces down-time when changing wheels. Ergonomically designed cast iron handle and case hardened, polished cutters. Suitable for cleaning, sharpening and truing grinding wheels.



Type	For Wheel Diameter	Weight each	Order Code KEN-495
No.0	Up to 510mm (20")	0.85kg	-0100K
No.1	Up to 760mm (30")	1.00kg	-0110K
No.2	Over 760mm (30")	2.50kg	-0120K



Replacement Wheel Sets



Description	Weight per 10 Sets	Order Code KEN-495
Spare Wheels for Type No.0	0.45kg	-1000K
Spare Wheels for Type No.1	0.53kg	-1010K
Spare Wheels for Type No.2	2.90kg	-1020K

Replacement Parts

Description	Weight per 10	Order Code KEN-495
Side Bush for Type No.0	79g	-2000K
Cutter Bush for Type No.1	110g	-2010K
Cutter Bush for Type No.2	234g	-2020K
Spare Spindle for Type No.0	130g	-3000K
Spare Spindle for Type No.1	310g	-3010K
Spare Spindle for Type No.2	310g	-3020K
Side Washer for Type No.1	70g	-4010K
Side Washer for Type No.2	50g	-4020K

Diamond Point Wheel Dressing Tools

Single-Point Tools

For general use. The diamond point can be reset when it 'flats', giving extended tool life (resetting prices available on request). 1/2" x 6" holder size.



Product Number	Diamond Size, Carat	For use on Wheel	Weight each	Order Code KEN-496
SP50	0.50	180mm (7")	160g	-0050K
SP75	0.75	255mm (10")	160g	-0070K
SP100	1.00	355mm (14")	170g	-0100K
SP150	1.50	460mm (18")	170g	-0150K
SP200	2.00	600mm (24")	170g	-0200K

Chisel-Point Tools

Designed for dressing formed wheels. Similar to single point tools but more robust and no resetting required. 3/8" x 3" holder size.



Product Number	Included Angle	Nose Radius	Weight each	Order Code KEN-496
D605	60°	0.005"	160g	-1000K
D405	40°	0.005"	170g	-1100K



Diamond Dressers



For truing and dressing grinding wheels. Truing is the process of aligning the periphery of the grinding wheel so that it runs concentric with its axis of rotation. This allows accurate and precise relative motion between the grinding wheel and the part being ground. Dressing removes dulled abrasives and foreign material that has been embedded into the wheel. This allows the wheel to cut properly. These tools are mainly used to true straight-faced wheels.

3 Piece Set

For medium duty use. 1/2" dia. x 6" (-9100K).



Wheel Size (mm)	Carat Size	Weight each	Order Code SEN-496
Up to 150	0.25	149g	-0250K
Up to 180	0.50	150g	-0500K
Up to 250	0.75	150g	-0750K
Up to 350	1.00	151g	-1000K
Up to 500	1.50	149g	-1500K
Up to 600	2.00	150g	-2000K
3 Piece Set 0.5, 0.75 & 1 Carat Set			-9100K

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