



WORKSHOP TOOLS

For the professional!

CB-04



Groz has always exceeded the expectations of tool manufacturers and users the world over. Groz carefully makes each tool under stringent quality control processes that are achieved in a hi-tech environment spread over 500,000 square feet



Total quality & control via advanced horizontal & vertical machining centres



Robotically armed & conveyORIZED double booth powder coating plant with a capacity of 15 million sq inches / month



Pressure die casting - PLC controlled semi automatic equipment



Multi-station Cold Forging Shop with equipment from NEDSCHROEF, Belgium, for manufacture of high volume automotive parts, sockets etc.



Multi-Spindle Turning Machines - Davenport for high volume production & concentricity



Design Center, with high end software & equipment to develop custom solutions

QUICK FACTS



YRS IN BUSINESS
40+



GLOBAL REACH
82 COUNTRIES



SELLING POINTS
750



SKU'S
12,000



EMPLOYEES
2,592



ENGINEERS
125



Quality Assurance Statement

The satisfaction of all customers is the fundamental principle of the GROZ corporate philosophy.

GROZ stands committed to the quality of its products and service with the assurance of complete back-up support.

With a wide range of products, prompt service and vast experience, GROZ remains dedicated to the customer.



INSIDE

I

SOCKETS & SOCKET ACCESSORIES

Hand Sockets & Sets	7
Socket Accessories	14
Ratchet Handles	17
Impact Sockets & Sets	26

II

IMPACT & RATCHET WRENCHES

Impact Wrenches	30
Ratchet Wrenches	40

III

AUTOMOTIVE TOOLS & ACCESSORIES

Tyre Levers	43
Pry Bars	43
Screw Extractor Sets	46
Oil Filter Wrench	46
Piston Ring Compressor	46
Gear Pullers	47
Hydraulic Bottle Jacks	49

IV

SCREWDRIVERS & HEX KEYS

Hexagon Key Sets	51
Screwdrivers	54
4V Insta Drive Screwdriver	55
Retra Drive Screwdrivers	56
Retra Lite Screwdriver	59

V

TORQUE TOOLS

Ratcheting Torque Wrenches	61
Classic Torque Wrenches	62
Aluminium Torque Wrenches	63
Digital Torque Wrench	64
Torque Multiplier	66

VI

TOOLS STORAGE & ASSORTMENTS

Portable Workstation	68
Tool Cart	70
Tool Chest	71
Universal Tool Kit	72
Automotive Tool Kits	74
Tool Assortments	77
Aluminium Tool Box	87
Mechanic's Tool Kit	88
5 Tray Cantilever Toolbox	90
5 Tray Cantilever Toolbox with tools	91
Nylon Tool Bags	92
Bag Pack	93

VII

SPANNERS & WRENCHES

Reversible Ratcheting Spanners	95
Double Open end Spanners	96
Ring Spanners	97
Combination Spanners	98
Deep Offset Combination Spanners	101
Slogging Wrenches	102
Box Spanners	104
Wheel Wrenches Double Ended	105
Telescopic Wheel Wrench	106

VIII

PLIERS & CUTTERS

Insulation Pliers	108
Revolving Punch Pliers	110
End Nippers	110
Concrete Nippers	111
Front Cutters	111
Slip Joint Pliers	112
Wheel Balancing Pliers	112
Circlip Pliers	113
Fencing Pliers	114
MIG Welding Pliers	115
Water Pump Pliers	116
Self Locking Pliers	117
Adjustable Wrenches	118
Adjustable Pipe wrenches	119
Retra Knife	120
Retractable Utility Knife	121

IX

STRIKING TOOLS

Indestructible Handle Club Hammers	125
Indestructible Handle Sledge Hammers	126
Indestructible Handle Sledge Hammers - DIN 6475	127
Indestructible Handle Copper Head Sledge Hammers	128
Indestructible Handle Brass Head Sledge Hammers	129
Machinist Hammers - DIN 1041	130
Indestructible Handle Ball Pein Hammers	131
Indestructible Handle Cross Pein Hammers	131
Indestructible Handle Claw Hammers	132
Indestructible Handle Tyre Bead Breaker Hammer	133
Indestructible Handle Hammer Kits	134
Centre Punches	138
Pin Punches	140
Starting Punches	144
Drift Punches	145
Hinge Centering Punch	148
Prick Punches	148
Nail Punches	149
Automatic Centre Punches	150
Steel Stamps - Letter & Numbers	151
Hollow/ Arch Punches	152
Cold Chisels	154
Bolsters	156
Wrecking Bars	157
Heavy Duty Construction Bars	157
Punch & Chisel Sets	158

X

VICES & CLAMPS

Engineer's Steel Bench Vices	163
Mechanic's Bench Vices	164
Drill Press Vices - Unigrip	166
Reversible Vice	167
Hand Vices	167
Hobbyist's Vices	168
G clamps - General Purpose	169
G Clamps - Junior	169

XI

HACKSAW FRAMES & BLADES

Handyman's Hacksaw	171
Hacksaw Frame Professional	172
Super Cut Hi-Tension Hacksaw	173
Junior Saw Frames	174
Junior Saw Frames- Baby bite	175
Fret Saw Frames	176
Coping Saw Frames	177
Piercing Saw Frames	178
Mini Saw Blades	179
Hacksaw Blades	179
Bi-Metal Hacksaw Blades	180
Piercing Saw Blades	181
Fret Saw Blades	181
Coping Saw Blades	182

XII

TAPS DIES & HOLDERS

Adjustable Tap & Reamer wrenches	184
Tap Wrenches - T Handle Type	185
Hand Taps	186
Round Dies	188
Hexagonal Dies	190
Die Stock Holders	192
Tap & Die Sets	193

XIII

MEASURING & MARKING TOOLS

Measuring Wheel	195
Tape Measure	196
Spring Calipers & Dividers	197
Craftsman's Spring Calipers & Dividers	198
Wing Compass	199
Precision Pencil Compass	199
Pencil Compass	200
Vernier Calipers	200
Brass Calipers	201
Slide Calipers	201
Precision Squares	202
Graduated Steel squares	203
Adjustable Bevel	203
Centre Square	204
Steel Rules	204
Stainless Steel Pocket Ruler	205

XIV

WOODWORKING TOOLS



Bench Planes	207
Duplex Rabbet & Fillister Plane	208
Woodworking Front Vice	208
Woodworking Vices - Plain Screw	209
Woodworking Vices - Portable	210
Woodworking Vices - Quick Release	211
Woodworking Vices - Rapid Action	212
Kwik Action woodworking Clamps	213
Duo Bar Clamps	214
T Bar Clamps	215
Cramp Head Set	215
Sash Bar Clamps	216

XV

SPECIALITY HAND TOOLS



2 Jaw Hand Riveter	218
Nut Riveter Kit	219
2 Jaw Lazy Tong Hand Riveter	220
Brass Hammers	221
Grommet Kits	222
Paint Mixers	223
Scratch Awl	224

NEW ADDITIONS

Our commitment to bring new & innovative tools with the same trust & quality that the GROZ brand stands for, continues even stronger.

This catalogue showcases an extension to the range of automotive / workshop tools with the highest number of new additions ever.

Carefully designed and manufactured to exacting standards that will continue to make GROZ tools the #1 choice for professional users worldwide.

LOOK OUT
FOR
NEW!
THROUGHOUT
THE CATALOGUE

Hand Sockets



8

Ratchet Handles



17

Impact Sockets



26

Impact Wrenches



29

Gear Pullers



48

Hexagonal Key Sets



51

Screwdrivers



55

Classic Torque Wrenches



62

Aluminium Torque Wrenches



63

Digital Torque Wrenches



64

Torque Multiplier



66

Tool Storage



68

Tool Assortments



77

Tool Bags



92

Telescopic Wheel Wrench



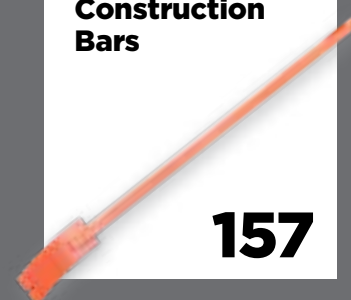
106

Retractable Knives



121

Construction Bars



157

Measuring Wheel



195

Tape Measure



196

Riveters



218

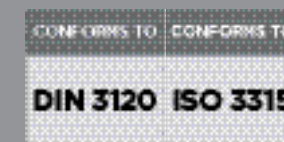
SOCKETS & SOCKET ACCESSORIES



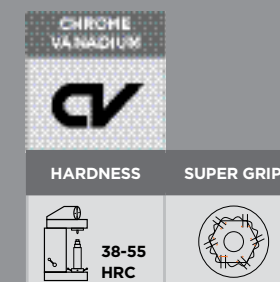
Super Grip Profile

Ultra Premium Finish

Knurled Band



All GROZ sockets meet or exceed DIN 3120 Standard by 30%



Chrome Vanadium Construction

Cold forged from high quality chrome vanadium steel, precisely hardened for increased durability

Ultra Premium Finish*

High quality attractive ultra premium finish provides a scratch proof surface with enhanced protection against corrosion.

Super Grip Profile*

GROZ Sockets incorporate the super grip profile that features round points facilitating contact between socket wall & fastener wall, keeping pressure off the corners

This ensures:

1. Transmission of higher torque
2. Firm grip & enhanced engagement
3. Increased durability: Stress concentration in corners eliminated

Knurled Band*

Provides a non-slip grip even in slippery applications found usually in workshops

Marking & Branding

Branding & size stamped on each individual socket ensures quick and convenient identification

The range includes:

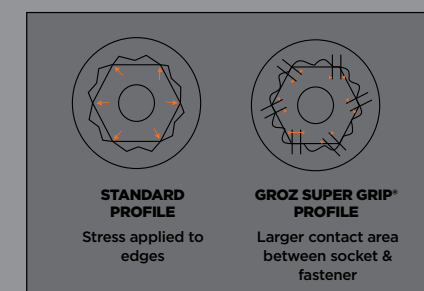
A. Hex Sockets with 6 Point Contact

Specially engineered to fit onto & securely grip fasteners. Prevents damage to fastener by gripping sides only & not the corners of the fasteners

B. Bi-Hex Sockets with 12 Point Contact

12 Point / Bi-Hex Sockets have more points of contact so there are more angles at which the socket will fit onto a fastener.

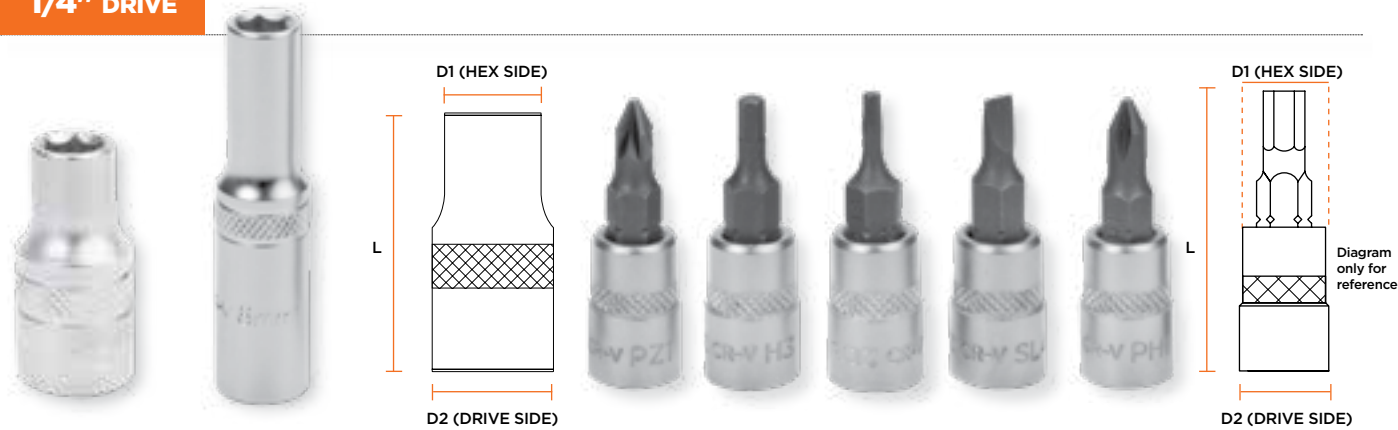
These are designed for use in professional automotive workshops, on agricultural / construction machinery & for several other industrial applications.



SUPER GRIP PROFILE

*only on 1/4", 3/8" & 1/2" sockets

1/4" DRIVE



ORDERING INFORMATION

CAT NR.	ORD NR.	SIZE	L	D1	D2
		(MM)	(MM)	(MM)	(MM)

HEX SOCKETS



SKT/H/1-4/4/UG	40600	4	25	6.80	4
SKT/H/1-4/4.5/UG	40601	4.5	25	7.10	4.5
SKT/H/1-4/5/UG	40602	5	25	8.00	5
SKT/H/1-4/5.5/UG	40603	5.5	25	8.30	5.5
SKT/H/1-4/6/UG	40604	6	25	9.30	6
SKT/H/1-4/7/UG	40605	7	25	10.50	7
SKT/H/1-4/8/UG	40606	8	25	11.85	8
SKT/H/1-4/9/UG	40607	9	25	12.85	9
SKT/H/1-4/10/UG	40608	10	25	13.85	10
SKT/H/1-4/11/UG	40609	11	25	15.85	11
SKT/H/1-4/12/UG	40610	12	25	16.85	12
SKT/H/1-4/13/UG	40611	13	25	17.85	13
SKT/H/1-4/14/UG	40612	14	25	19.65	14

HEX SOCKETS - DEEP

NEW!



SKT/H/1-4/5D/UG	40620	5	50	8.0	11.9
SKT/H/1-4/6D/UG	40621	6	50	9.3	11.9
SKT/H/1-4/7D/UG	40622	7	50	10.5	11.9
SKT/H/1-4/8D/UG	40623	8	50	11.9	11.9
SKT/H/1-4/9D/UG	40624	9	50	13.2	13.2
SKT/H/1-4/10D/UG	40625	10	50	14.6	14.6
SKT/H/1-4/11D/UG	40626	11	50	15.9	15.9
SKT/H/1-4/12D/UG	40627	12	50	17	17
SKT/H/1-4/13D/UG	40628	13	50	18	18

POZI BIT SOCKETS



SKT/1-4/PZ1/UG	40679	PZ1	37	6.35	12
SKT/1-4/PZ2/UG	40680	PZ2	37	6.35	12
SKT/1-4/PZ3/UG	40681	PZ3	37	6.35	12

ORDERING INFORMATION

CAT NR.	ORD NR.	SIZE	L	D1	D2
		(MM)	(MM)	(MM)	(MM)

HEX BIT SOCKETS



SKT/1-4/H3/UG	40660	3	37	3	12
SKT/1-4/H4/UG	40661	4	37	4	12
SKT/1-4/H5/UG	40662	5	37	5	12
SKT/1-4/H6/UG	40663	6	37	6	12
SKT/1-4/H7/UG	40664	7	37	7	12
SKT/1-4/H8/UG	40665	8	37	8	12
SKT/1-4/H10/UG	40682	10	37	10	12

TORX BIT SOCKETS



SKT/1-4/T8/UG	40666	T8	37	2.25	12
SKT/1-4/T10/UG	40667	T10	37	2.70	12
SKT/1-4/T15/UG	40668	T15	37	3.25	12
SKT/1-4/T20/UG	40669	T20	37	3.80	12
SKT/1-4/T25/UG	40670	T25	37	4.40	12
SKT/1-4/T27/UG	40683	T27	37	5.0	12
SKT/1-4/T30/UG	40671	T30	37	5.50	12
SKT/1-4/T40/UG	40672	T40	37	6.60	12

SLOTTED BIT SOCKETS



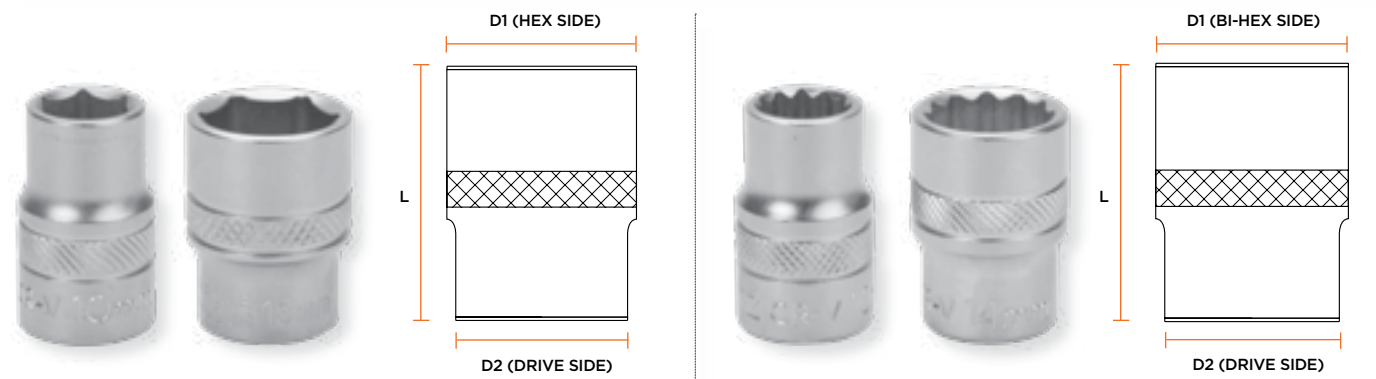
SKT/1-4/S4/UG	40673	4	37	4	12
SKT/1-4/S5.5/UG	40674	5.5	37	5.5	12
SKT/1-4/S7/UG	40675	7	37	7	12

PHILIPS BIT SOCKETS



SKT/1-4/PH1/UG	40676	PH1	37	6.35	12
SKT/1-4/PH2/UG	40677	PH2	37	6.35	12
SKT/1-4/PH3/UG	40678	PH3	37	6.35	12

3/8" DRIVE



ORDERING INFORMATION

CAT NR.	ORD NR.	SIZE	L	D1	D2
		(MM)	(MM)	(MM)	(MM)

HEX SOCKETS



SKT/H/3-8/6/UG	40700	6	28	10.20	16.9
SKT/H/3-8/7/UG	40701	7	28	10.60	16.9
★SKT/H/3-8/8/UG	40702	8	28	11.80	16.9
SKT/H/3-8/9/UG	40703	9	28	13.20	16.9
★SKT/H/3-8/10/UG	40704	10	28	14.50	16.9
SKT/H/3-8/11/UG	40705	11	28	15.70	16.9
★SKT/H/3-8/12/UG	40706	12	28	16.90	16
★SKT/H/3-8/13/UG	40707	13	28	17.90	16.5
★SKT/H/3-8/14/UG	40708	14	28	19.70	17
SKT/H/3-8/15/UG	40709	15	28	20.90	18
SKT/H/3-8/16/UG	40710	16	30	21.90	19
★SKT/H/3-8/17/UG	40711	17	30	23.45	20
SKT/H/3-8/18/UG	40712	18	30	24.65	21
★SKT/H/3-8/19/UG	40713	19	30	25.85	23
SKT/H/3-8/20/UG	40714	20	32	27.15	24
SKT/H/3-8/21/UG	40715	21	32	27.85	25
SKT/H/3-8/22/UG	40716	22	32	29.65	26

ORDERING INFORMATION

CAT NR.	ORD NR.	SIZE	L	D1	D2
		(MM)	(MM)	(MM)	(MM)

BI-HEX SOCKETS



SKT/BH/3-8/6/UG	40750	6	28	10.20	16.90
SKT/BH/3-8/7/UG	40751	7	28	10.60	16.90
★SKT/BH/3-8/8/UG	40752	8	28	11.80	16.90
SKT/BH/3-8/9/UG	40753	9	28	13.20	16.90
★SKT/BH/3-8/10/UG	40754	10	28	14.50	16.90
SKT/BH/3-8/11/UG	40755	11	28	15.70	16.90
★SKT/BH/3-8/12/UG	40756	12	28	16.90	16.00
★SKT/BH/3-8/13/UG	40757	13	28	17.90	16.50
★SKT/BH/3-8/14/UG	40758	14	28	19.70	17.00
SKT/BH/3-8/15/UG	40759	15	28	20.90	18.00
SKT/BH/3-8/16/UG	40760	16	30	21.90	19.00
★SKT/BH/3-8/17/UG	40761	17	30	23.45	20.00
SKT/BH/3-8/18/UG	40762	18	30	24.65	21.00
★SKT/BH/3-8/19/UG	40763	19	30	25.85	23.00
SKT/BH/3-8/20/UG	40764	20	32	27.15	24.00
SKT/BH/3-8/21/UG	40765	21	32	27.85	25.00
SKT/BH/3-8/22/UG	40766	22	32	29.65	26.00

★ Best Seller

★ Best Seller

Hand Sockets
(continued)

1/2" DRIVE



ORDERING INFORMATION

CAT NR.	ORD NR.	SIZE (MM)	L (MM)	D1 (MM)	D2 (MM)
HEX SOCKETS					
*SKT/H/1-2/8/UG	40800	8	38	13.20	21.80
SKT/H/1-2/9/UG	40801	9	38	13.90	21.80
*SKT/H/1-2/10/UG	40802	10	38	15.00	21.80
SKT/H/1-2/11/UG	40803	11	38	16.30	21.80
*SKT/H/1-2/12/UG	40804	12	38	17.60	21.80
*SKT/H/1-2/13/UG	40805	13	38	18.80	21.80
*SKT/H/1-2/14/UG	40806	14	38	20.40	21.80
SKT/H/1-2/15/UG	40807	15	38	21.65	20.70
SKT/H/1-2/16/UG	40808	16	38	22.90	21.50
*SKT/H/1-2/17/UG	40809	17	38	23.90	22.00
SKT/H/1-2/18/UG	40810	18	38	25.45	23.00
*SKT/H/1-2/19/UG	40811	19	38	25.85	23.00
SKT/H/1-2/20/UG	40824	20	38	27.85	24.00
*SKT/H/1-2/21/UG	40812	21	38	27.85	25.00
SKT/H/1-2/22/UG	40813	22	40	29.85	26.00
SKT/H/1-2/23/UG	40814	23	40	31.65	27.00
*SKT/H/1-2/24/UG	40815	24	42	31.85	28.00
SKT/H/1-2/25/UG	40825	25	42	33.85	30.00
SKT/H/1-2/26/UG	40816	26	42	35.45	30.00
*SKT/H/1-2/27/UG	40817	27	43	35.85	30.00
SKT/H/1-2/28/UG	40818	28	43	37.85	32.00
SKT/H/1-2/29/UG	40819	29	43	37.85	32.00
*SKT/H/1-2/30/UG	40820	30	46	39.85	34.00
*SKT/H/1-2/32/UG	40821	32	46	41.85	36.00
SKT/H/1-2/33/UG	40822	33	46	43.85	38.00
SKT/H/1-2/36/UG	40823	36	46	47.85	38.00

* Best Seller

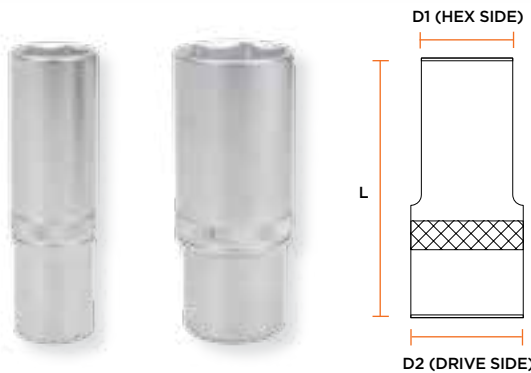


ORDERING INFORMATION

CAT NR.	ORD NR.	SIZE (MM)	L (MM)	D1 (MM)	D2 (MM)
BI-HEX SOCKETS					
*SKT/BH/1-2/8/UG	40826	8	38	13.20	21.80
SKT/BH/1-2/9/UG	40827	9	38	14.30	21.80
*SKT/BH/1-2/10/UG	40828	10	38	15.20	21.80
SKT/BH/1-2/11/UG	40829	11	38	16.40	21.80
*SKT/BH/1-2/12/UG	40830	12	38	18.00	21.80
*SKT/BH/1-2/13/UG	40831	13	38	19.00	21.80
*SKT/BH/1-2/14/UG	40832	14	38	20.20	21.80
SKT/BH/1-2/15/UG	40833	15	38	21.00	21.80
SKT/BH/1-2/16/UG	40834	16	38	21.00	21.50
*SKT/BH/1-2/17/UG	40835	17	38	23.90	22.00
SKT/BH/1-2/18/UG	40836	18	38	25.45	23.00
*SKT/BH/1-2/19/UG	40837	19	38	25.85	23.00
SKT/BH/1-2/20/UG	40838	20	38	27.85	24.00
*SKT/BH/1-2/21/UG	40839	21	38	27.85	24.00
SKT/BH/1-2/22/UG	40840	22	38	29.85	26.00
SKT/BH/1-2/23/UG	40841	23	38	31.65	28.00
*SKT/BH/1-2/24/UG	40842	24	38	31.85	28.00
SKT/BH/1-2/25/UG	40843	25	40	33.85	30.00
SKT/BH/1-2/26/UG	40844	26	42	35.45	31.00
*SKT/BH/1-2/27/UG	40845	27	42	35.85	30.00
SKT/BH/1-2/28/UG	40846	28	43	37.85	33.00
SKT/BH/1-2/29/UG	40847	29	43	37.85	33.00
*SKT/BH/1-2/30/UG	40848	30	44	39.85	34.00
*SKT/BH/1-2/32/UG	40849	32	44	41.85	36.00
SKT/BH/1-2/33/UG	40882	33	46	43.85	38.00
SKT/BH/1-2/36/UG	40883	36	46	47.85	42.00

* Best Seller

1/2" DEEP DRIVE



ORDERING INFORMATION

CAT NR.	ORD NR.	SIZE (MM)	L (MM)	D1 (MM)	D2 (MM)
HEX SOCKETS					
*SKT/H/1-2/10D/UG	40900	10	77	15	21.95
SKT/H/1-2/11D/UG	40901	11	77	16.30	21.95
*SKT/H/1-2/12D/UG	40902	12	77	17.60	21.95
*SKT/H/1-2/13D/UG	40903	13	77	18.80	21.95
*SKT/H/1-2/14D/UG	40904	14	77	20.40	21.95
SKT/H/1-2/15D/UG	40905	15	77	21.60	20.70
SKT/H/1-2/16D/UG	40906	16	77	22.85	21.50
*SKT/H/1-2/17D/UG	40907	17	77	23.85	22.00
SKT/H/1-2/18D/UG	40908	18	77	25.40	23.00
*SKT/H/1-2/19D/UG	40909	19	77	25.85	23.00
SKT/H/1-2/20D/UG	40922	20	77	27.85	24.00
SKT/H/1-2/21D/UG	40910	21	77	27.85	25.00
SKT/H/1-2/22D/UG	40911	22	77	29.85	26.00
SKT/H/1-2/23D/UG	40912	23	77	31.60	27.00
SKT/H/1-2/24D/UG	40913	24	77	31.85	28.00
SKT/H/1-2/26D/UG	40914	26	77	35.40	30.00
SKT/H/1-2/27D/UG	40915	27	77	35.85	30.00
SKT/H/1-2/28D/UG	40916	28	77	37.85	32.00
SKT/H/1-2/29D/UG	40917	29	77	37.85	32.00
SKT/H/1-2/30D/UG	40918	30	77	39.85	34.00
SKT/H/1-2/32D/UG	40919	32	77	41.85	36.00

* Best Seller

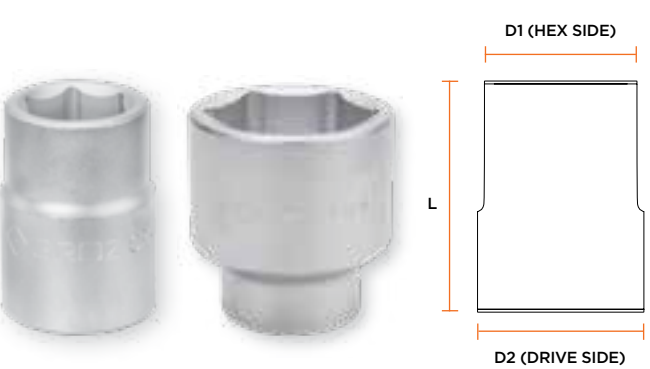


Professional Quality
SOCKETS

Designed &
manufactured to the
highest standards
for use in industrial &
automotive workshops

Hand Sockets
(continued)

3/4" DRIVE



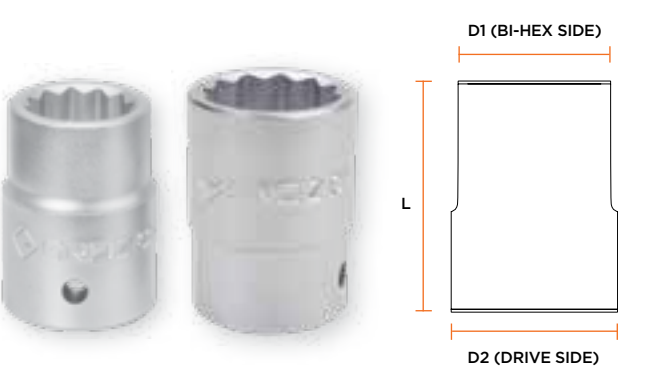
ORDERING INFORMATION

CAT NR.	ORD NR.	SIZE (MM)	L (MM)	D1 (MM)	D2 (MM)
---------	---------	-----------	--------	---------	---------

HEX SOCKETS **NEW!**

SKT/H/3-4/22/MT	40455	22	50	33	36
SKT/H/3-4/24/MT	40457	24	50	35	36
*SKT/H/3-4/27/MT	40460	27	52	38	36
*SKT/H/3-4/30/MT	40463	30	54	42	38
*SKT/H/3-4/32/MT	40465	32	56	44	38
*SKT/H/3-4/36/MT	40469	36	58	50	42
SKT/H/3-4/38/MT	40470	38	62	52	45
SKT/H/3-4/41/MT	40472	41	64	56	45
SKT/H/3-4/46/MT	40475	46	68	62	48
SKT/H/3-4/50/MT	40477	50	72	68	48

* Best Seller



ORDERING INFORMATION

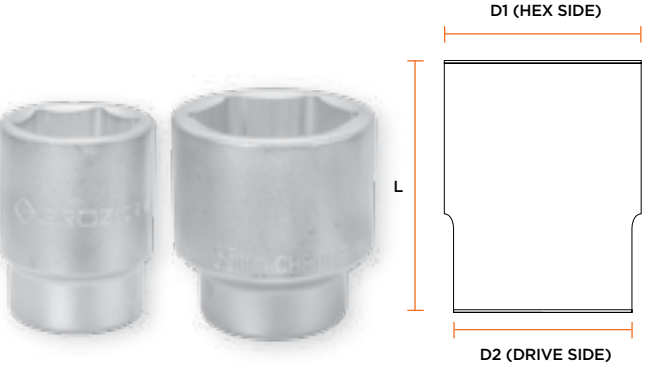
CAT NR.	ORD NR.	SIZE (MM)	L (MM)	D1 (MM)	D2 (MM)
---------	---------	-----------	--------	---------	---------

BI-HEX SOCKETS **NEW!**

SKT/BH/3-4/22/MT	40415	22	33	36	50
SKT/BH/3-4/24/MT	40417	24	35	36	50
*SKT/BH/3-4/27/MT	40420	27	38	36	52
*SKT/BH/3-4/30/MT	40423	30	42	38	54
*SKT/BH/3-4/32/MT	40425	32	44	38	56
*SKT/BH/3-4/36/MT	40429	36	50	42	58
SKT/BH/3-4/38/MT	40430	38	52	45	62
SKT/BH/3-4/41/MT	40432	41	56	45	64
SKT/BH/3-4/46/MT	40435	46	62	48	68
SKT/BH/3-4/50/MT	40437	50	68	48	72

* Best Seller

1" DRIVE



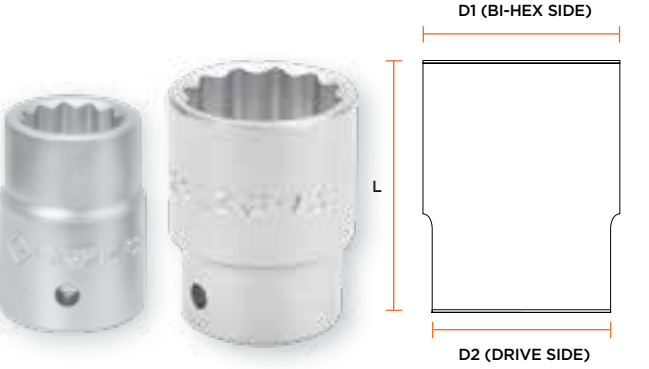
ORDERING INFORMATION

CAT NR.	ORD NR.	SIZE (MM)	L (MM)	D1 (MM)	D2 (MM)
---------	---------	-----------	--------	---------	---------

HEX SOCKETS **NEW!**

*SKT/H/O-1/36/MT	40551	36	65	51	45
*SKT/H/O-1/41/MT	40553	41	70	57	45
*SKT/H/O-1/46/MT	40554	46	75	65	50
*SKT/H/O-1/50/MT	40555	50	75	70	55
*SKT/H/O-1/55/MT	40557	55	80	76	57
*SKT/H/O-1/60/MT	40559	60	84	82	57
*SKT/H/O-1/65/MT	40561	65	87	88	57
*SKT/H/O-1/70/MT	40563	70	93	94	68
*SKT/H/O-1/75/MT	40565	75	97	100	68
*SKT/H/O-1/80/MT	40567	80	103	105	68

* Best Seller



ORDERING INFORMATION

CAT NR.	ORD NR.	SIZE (MM)	L (MM)	D1 (MM)	D2 (MM)
---------	---------	-----------	--------	---------	---------

BI-HEX SOCKETS **NEW!**

*SKT/BH/O-1/36/MT	40571	36	65	51	45
*SKT/BH/O-1/41/MT	40573	41	70	57	45
*SKT/BH/O-1/46/MT	40574	46	75	65	50
*SKT/BH/O-1/50/MT	40575	50	75	70	55
*SKT/BH/O-1/55/MT	40577	55	80	76	57
*SKT/BH/O-1/60/MT	40579	60	84	82	57
*SKT/BH/O-1/65/MT	40581	65	87	88	57
*SKT/BH/O-1/70/MT	40583	70	93	94	68
*SKT/BH/O-1/75/MT	40585	75	97	100	68
*SKT/BH/O-1/80/MT	40587	80	103	105	68

* Best Seller



Socket Merchandiser

Heavy duty steel construction in premium powder coated finish

CAT NR.	ORD NR.	CONTENTS
SKT/H/1-2/UG/ST50	40390	49 Hex Sockets of following sizes: 7 pcs: 10 mm 7 pcs: 13 mm 7 pcs: 17 mm 6 pcs: 19 mm 5 pcs: 22 mm 5 pcs: 24 mm 4 pcs: 27 mm 4 pcs: 30 mm 4 pcs: 32 mm

*Can be offered with Bi-Hex Sockets also



SLIDING T BARS

Manufactured from high quality Chrome Vanadium steel for strength & durability

Time & effort saving tool: provides right leverage for tightening nuts & bolts easily



ORDERING INFORMATION

CAT NR.	ORD NR.	DRIVE	LENGTH	
		(INCH)	(INCH)	(MM)
SLTB/1-4/UG	40106	1/4	4-1/2	115
SLTB/3-8/UG	40206	3/8	6-1/2	165
SLTB/1-2/UG	40305	1/2	10	250
SLTB/3-4/MT	40405	3/4	18	450
SLTB/0-1/MT	40505	1	22	550

EXTENSION BARS

Manufactured from high quality Chrome Vanadium steel for strength & durability

Corrosion resistant chrome plated finish

Used along with a socket to reach into confined spaces



ORDERING INFORMATION

CAT NR.	ORD NR.	DRIVE	LENGTH	
		(INCH)	(INCH)	(MM)
DRXB/1-4/2/UG	40102	1/4	2	50
DRXB/1-4/4/UG	40103	1/4	4	100
DRXB/1-4/6/UG	40109	1/4	6	150
DRXB/3-8/3/UG	40201	3/8	3	75
DRXB/3-8/6/UG	40202	3/8	6	150
DRXB/1-2/5/UG	40302	1/2	5	125
DRXB/1-2/10/UG	40303	1/2	10	250
DRXB/3-4/4/MT	40401	3/4	4	100
DRXB/3-4/8/MT	40402	3/4	8	200
DRXB/0-1/8/MT	40501	1	8	200
DRXB/0-1/16/MT	40502	1	16	400

UNIVERSAL JOINT

Manufactured from Chrome Vanadium for higher strength & durability

Hinged through 180° in both directions, helps the user to 'form corners' or to get socket onto inaccessible bolt heads



ORDERING INFORMATION

CAT NR.	ORD NR.	DRIVE (INCH)
UVJ/1-4/UG	40104	1/4
UVJ/3-8/UG	40203	3/8
UVJ/1-2/UG	40308	1/2
UVJ/3-4/UG	40406	3/4

ADAPTOR

For using a combination of square drive sockets in one application



ORDERING INFORMATION

CAT NR.	ORD NR.	SIZE
SADP/1-4F/3-8M/UG	40108	1/4" (F) to 3/8" (M)
SADP/3-8F/1-4M/UG	40204	3/8" (F) to 1/4" (M)
SADP/3-8F/1-2M/UG	40205	3/8" (F) to 1/2" (M)
SADP/1-2F/3-8M/UG	40306	1/2" (F) to 3/8" (M)
SADP/1-2F/3-4M/UG	40307	1/2" (F) to 3/4" (M)
SADP/3-4F/1-2M/UG	40404	3/4" (F) to 1/2" (M)
SADP/3-4F/0-1M/UG	40403	3/4" (F) to 1" (M)
SADP/0-1F/3-4M/UG	40504	1" (F) to 3/4" (M)

FLEX HANDLE / POWER BARS

Bars manufactured from high quality hardened & tempered Chrome Vanadium steel for strength & durability

Hinged joint head and spring-loaded ball bearing joint for secure socket retention

Chrome Molybdenum Square Drive. Replaceable on 3/4" & 1" sizes



ORDERING INFORMATION

CAT NR.	ORD NR.	DRIVE	LENGTH		DRIVE TYPE
		(INCH)	(INCH)	(MM)	
DFH/3-8/9/MT	40207	3/8	9	225	Fixed
DFH/1-2/15/MT	40316	1/2	15	375	Fixed
DFH/3-4/20/MT	40400	3/4	20	500	Replaceable
DFH/0-1/26/MT	40500	1	26	650	Replaceable

SPEEDER HANDLE

Chrome Vanadium construction with ultra premium finish

Ideal for rapid removal or insertion of fasteners, especially in repetitive work

Provides extra leverage with greater strength than ratchets



ORDERING INFORMATION

CAT NR.	ORD NR.	DRIVE (INCH)
SPDH/1-2/UG	40301	1/2

HEX SPARK PLUG SOCKET

Designed for insertion & removal of spark plugs



ORDERING INFORMATION

CAT NR.	ORD NR.	DRIVE (INCH)	HEX SIZE (MM)
SKT/1-2/SP/16/UG	40880	1/2	16
SKT/1-2/SP/21/UG	40881	1/2	21

Socket Accessories (continued)

L HANDLE

Manufactured from high quality Chrome Vanadium steel for strength & durability

Hardened & tempered with corrosion resistant chrome plated finish

Spring loaded ball bearing holds sockets securely

Fixed L Handle for applications requiring rigid set-up



ORDERING INFORMATION

CAT NR.	ORD NR.	DRIVE	LENGTH	
		(INCH)	(INCH)	(MM)
LDH/1-2/UG	40304	1/2	5	125

SPINNER HANDLE

Manufactured from high quality Chrome Vanadium steel for strength & durability

Fit on a socket & spin it for rapid installation of longer bolts.

1/4" (F) square recess allows spinner to be used with a ratchet & also works as a long extension



ORDERING INFORMATION

CAT NR.	ORD NR.	DRIVE
		(INCH)
DRSH/1-4/UG	40101	1/4

FLEXIBLE EXTENSION

Manufactured from high quality Chrome Vanadium steel for strength & durability

Hardened & tempered with corrosion resistant chrome plated finish

Flexible Extension with compressed spring for use in confined spaces



ORDERING INFORMATION

CAT NR.	ORD NR.	DRIVE
		(INCH)
FLEX/1-4/UG	40105	1/4

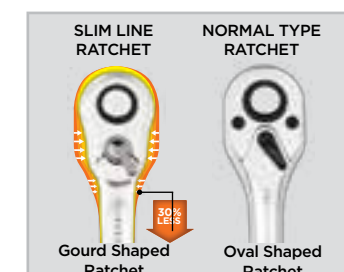
03

Slim Line Ratchet Handles

RTD-SL

Chrome Vanadium Construction:
Forged from high quality chrome vanadium steel, precisely hardened for increased durability

Unique Patented Design:
30% slimmer & lighter than normal pear head ratchet, provides higher torque & extended service life



Unique Patented Design
Gourd shaped head is 30% narrower than regular oval shaped ratchets making these most suitable for use in tight & hard to reach areas

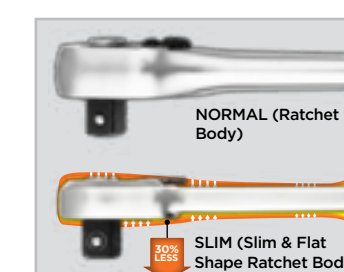


Slim Line Ratchet

More than 9 Teeth Bite of Gear is designed to transfer extremely high torque and extend the service life

Normal Type Ratchet

Only 3 teeth bite, unable to transfer the torque powerfully and efficiently



Ratchet body is 30% slimmer than regular ratchet handles. This reduces the weight of the ratchet handles & provides high torque



60 Teeth With 6 Degree Control
Provides extremely high torque for professional users



Quick Release

Simply push the release button with one thumb for replacing sockets quickly and efficiently.

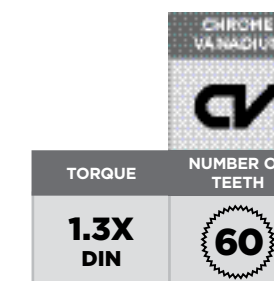


Reversible Lever Switch

Reversible lever switch makes it easy to switch direction of use

ORDERING INFORMATION

CAT NR.	ORD NR.	DRIVE	LENGTH		TORQUE	
		(INCH)	(INCH)	(MM)	(NM)	(FT-LB)
RTD/SL/1-4/UG	40107	1/4	5.70	145	80	59
RTD/SL/3-8/UG	40200	3/8	7.81	199	270	199
RTD/SL/1-2/UG	40310	1/2	10.03	255	670	494



04

Push Through Ratchet Handle

RTD-PT

Works with any standard 1/2" square drive socket

Unique push-through ratchet rotates in only one direction. To reverse, simply remove socket, push square drive out of the other side of the head & re-attach socket on the other side

Anti slip, ergonomic soft grip handle

Square Drive available as spare. No need to discard complete Ratchet Handle once the drive wears out



ORDERING INFORMATION

CAT NR.	ORD NR.	DRIVE	LENGTH			TORQUE	
		(INCH)	(INCH)	(MM)	(NM)	(FT-LB)	
RTD/PT/1-2/UG	40312	1/2	11"	280	512	377	



05

Round Head Ratchet Handle

RTD-RH

Chrome Vanadium construction for higher strength & durability

Classic round head ratchet mechanism for reliable performance

Spring loaded ball attaches onto sockets, preventing them from being dropped

Durable, corrosion resistant chrome plated finish

Knurled handle for non-slip grip



ORDERING INFORMATION

CAT NR.	ORD NR.	DRIVE	LENGTH		NUMBER OF TEETH	TORQUE	
		(INCH)	(INCH)	(MM)		(NM)	(FT-LB)
RTD/RH/3-4/MT	40407	3/4	19.6	500	43	1412	1041



06

Dual Drive Ratchet Handles

RTD-DD

World-class Ratchet Handle with twice the speed of a conventional ratchet

Dual Ratchet Mechanism
Ratchet handle can be used in two ways:
a. Conventional Ratchet
b. Twist Action Ratchet

Twist action makes it possible to tighten & remove fasteners without moving the handle, making it suitable for use in restricted space.

In 'Twist Action Mode' the drive turns in fixed direction irrespective of the way the handle is rotated

Easy to use switching mechanism for quick change of direction

52 teeth gear design
Provides optimum torque for professional users

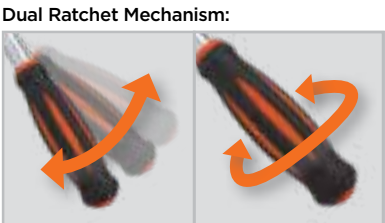
Quick Release Push Button Immediate socket release with simple press of the button



ORDERING INFORMATION

CAT NR.	ORD NR.	DRIVE	LENGTH			TORQUE	
		(INCH)	(INCH)	(MM)	(NM)	(FT-LB)	
RTD/DD/1-4/UG	40313	1/4	7-3/32	180	62	46	
RTD/DD/3-8/UG	40314	3/8	8-21/32	225	202	149	
RTD/DD/1-2/UG	40311	1/2	11-13/32	290	512	377	

◆ New



07

Pear Head Ratchet Handle

RTD-PH

Forged from high quality chrome vanadium steel for higher strength & durability

Classic pear head design for strength, durability & high performance

2 piece construction with detachable head for convenient storage

Spring loaded ball attaches onto sockets preventing them from being dropped



ORDERING INFORMATION

CAT NR.	ORD NR.	DRIVE	LENGTH			TORQUE	
		(INCH)	(INCH)	(MM)	(NM)	(FT-LB)	
RTD/PH/0-1/MT	40503	1	26 - 3/8	670	2515	1855	



08

Swivelling Gear
360° Ratchet Handle

RTD-360

360° swivelling gear Ratchet Handle with patented intelligent design features

Adjustable Square Drive
30 tooth flexible spherical gear mechanism makes the square drive adjustable 15° either side

360° Access
Angular movement for 360° access even in tight/restricted spaces without removing or readjustment of Ratchet Handle

Time Saving
Square drive automatically adjusts to the required angle during usage eliminating the need to stop working, pull out & readjust every time thus saving time

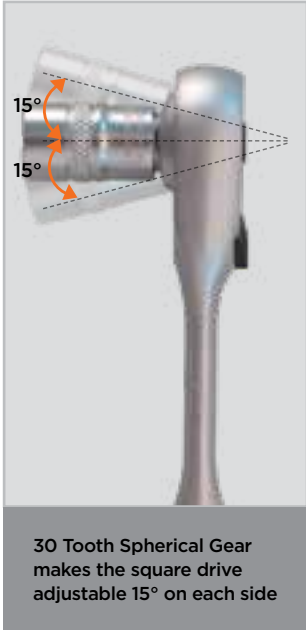
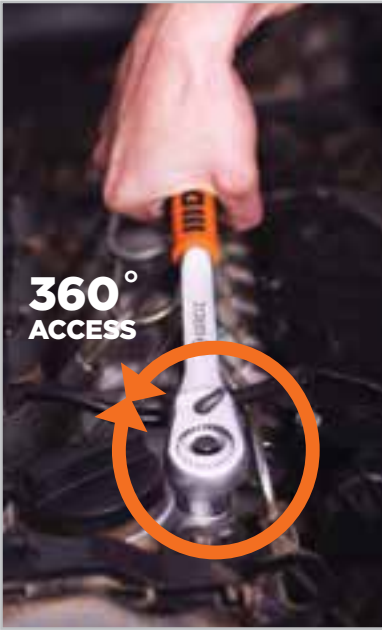
Smooth Push Through Quick Release
Simply push the release button for replacing sockets quickly & easily

Robust Construction:
Fully forged from chrome molybdenum steel makes it by far the strongest in the market

Slim Design
For easy access into tight spots

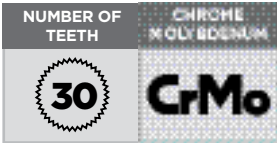
Reversible Lever Switch
Low profile reversing lever design for quick, one hand operation

NEW!



ORDERING INFORMATION

CAT NR.	ORD NR.	DRIVE	TORQUE	
		(INCH)	(NM)	(FT-LB)
RTD/360/1-4	40320	1/4	62	46
RTD/360/3-8	40321	3/8	202	149
RTD/360/1-2	40322	1/2	512	377



9

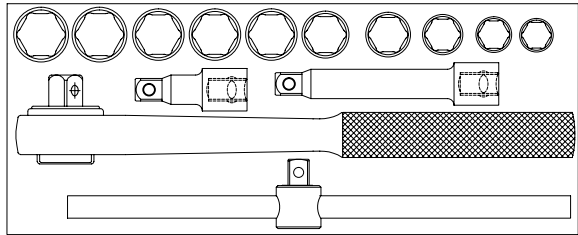
Hand Socket Sets
in Metal Cases

3/4" DRIVE

Hex Socket Set
KIT/SKT/H/3-4/14/MT
40490

Bi-Hex Socket Set
KIT/SKT/BH/3-4/14/MT
40491

14
PIECE



DESCRIPTION
10 pcs Sockets: 22, 24, 27, 30, 32, 36, 38, 41, 46, 50mm
1 pc Round Head Ratchet Handle
2 pc Extension Bar: 100 & 200 mm (4" & 8")
1 pc Sliding T Bar

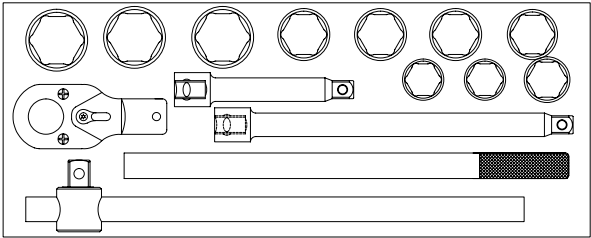


1" DRIVE

Hex Socket Set
KIT/SKT/H/O-1/14/MT
40590

Bi-Hex Socket Set
KIT/SKT/BH/O-1/14/MT
40591

14
PIECE



DESCRIPTION
10 pcs Sockets: 36, 41, 46, 50, 55, 60, 65, 70, 75, 80 mm
1 pc Ratchet Handle
2 pc Extension: 200 & 400 mm (8" & 16")
1 pc Sliding T Bar



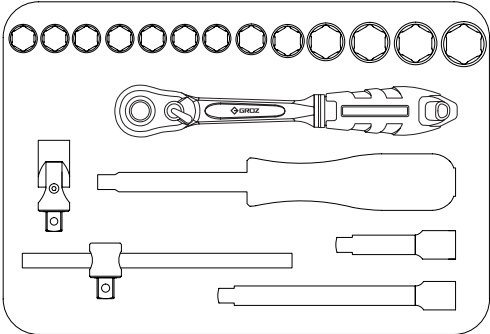
1/4" DRIVE

Hex Socket Set
KIT/SKT/H/1-4/19/UG
40193

19
PIECE

ORDERING INFORMATION

DESCRIPTION
13 pcs Hex Sockets: 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 mm
1 pc Ratchet Handle
2 pcs Extension Bars: 50 & 100 mm (2" & 4")
1 pc Universal Joint
1 pc Sliding T Bar
1 pc Spinner Handle



1/2" DRIVE

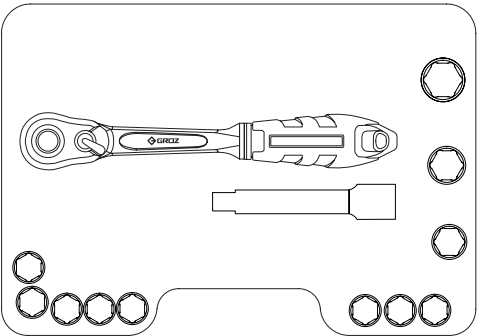
Hex Socket Set
KIT/SKT/H/1-2/13/UG
40394

Bi-Hex Socket Set
KIT/SKT/BH/1-2/13/UG
40397

13
PIECE

ORDERING INFORMATION

DESCRIPTION
11 pcs Sockets: 8, 9, 10, 11, 12, 13, 14, 15, 17, 19, 22 mm
1 pc Ratchet Handle
1 pc Extension Bar: 125 mm (5")

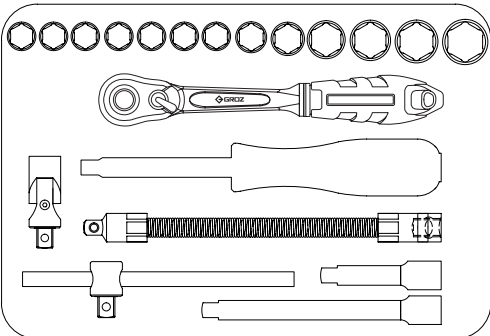
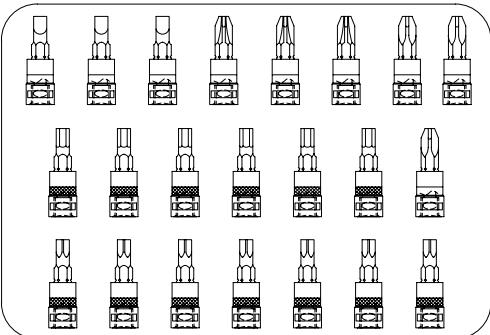


Hex Socket Set
KIT/SKT/H/1-4/42/UG
40190

42
PIECE

ORDERING INFORMATION

DESCRIPTION
13 pcs Hex Sockets: 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 mm
6 pcs Hex Bit Sockets: 3, 4, 5, 6, 7, 8 mm
3 pcs Slotted Bit Sockets: 4, 5, 5.7 mm
3 pcs Phillips Bit Sockets: PH1, PH2, PH3
3 pcs Pozi Bit Sockets: PZ1, PZ2, PZ3
7 pcs Torx Bit Sockets: T8, T10, T15, T20, T25, T30, T40
2 pcs Extension Bar: 50 & 100 mm (2" & 4")
1 pc Spinner Handle
1 pc Flexible Extension
1 pc Universal Joint
1 pc Sliding T Bar
1 pc Ratchet Handle



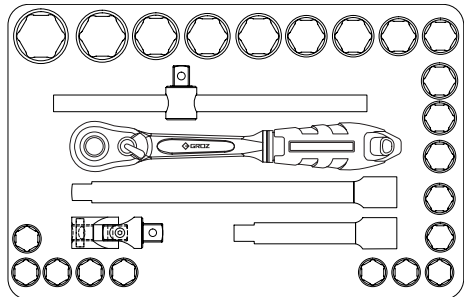
Hex Socket Set
KIT/SKT/H/1-2/27/UG
40390

Bi-Hex Socket Set
KIT/SKT/BH/1-2/27/UG
40398

27
PIECE

ORDERING INFORMATION

DESCRIPTION
22 pcs Sockets: 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 26, 27, 28, 29, 30, 32 mm
2 pcs Extension Bar: 125 & 250 mm (5" & 10")
1 pc Universal Joint
1 pc Sliding T Bar
1 pc Ratchet Handle



11 Hand Socket Sets On Rails

1/4" DRIVE

Hex Socket Set
KIT/SKT/H/1-4/9LH/UG
40192

9
PIECE



DESCRIPTION
8 pcs Hex Sockets :
4, 4.5, 5, 5.5, 6, 7, 8, 10 mm
1 pc Ratchet Handle

Hex Socket Set
KIT/SKT/H/1-4/13L/UG
40191

13
PIECE



DESCRIPTION
13 pcs Hex Sockets :
4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12,
13, 14 mm

3/8" DRIVE

Hex Socket Set
KIT/SKT/H/3-8/8L/UG
40290

8
PIECE



DESCRIPTION
8 pcs Sockets:
6, 8, 10, 12, 13, 14, 17, 19 mm

Hex Socket Set
KIT/SKT/H/3-8/9LH/UG
40291

Bi-Hex Socket Set
KIT/SKT/BH/3-8/8L/UG
40292

9
PIECE



DESCRIPTION
8 pcs Sockets:
6, 8, 10, 12, 13, 14, 17, 19 mm
1 pc Ratchet Handle

Bi-Hex Socket Set
KIT/SKT/BH/3-8/9LH/UG
40293

1/2" DRIVE

Hex Socket Set
KIT/SKT/H/1-2/9L/UG
40392

9
PIECE



DESCRIPTION
9 pcs Sockets:
8, 9, 10, 12, 13, 14, 17, 19, 22 mm

Hex Socket Set
KIT/SKT/H/1-2/11LH/UG
40393

Bi-Hex Socket Set
KIT/SKT/BH/1-2/11LH/UG
40396

11
PIECE



DESCRIPTION
10 pcs Sockets:
8, 9, 10, 12, 13, 14, 17, 19, 22, 24 mm
1 pc Ratchet Handle

1/2" DRIVE

Bit Socket Set
KIT/BIT-SKT/SPL/1-2/6/UG
40381

6
PIECE



DESCRIPTION
Spline Bit Sockets:
55mm length: M6, M8, M10
100mm length: M8, M10, M12;

Hex Bit Socket Set
KIT/BIT-SKT/H/1-2/8/UG
40380

8
PIECE



DESCRIPTION
8 pcs Hex Bit Sockets:
5, 6, 7, 8, 10, 12, 14, 17 mm

Torx Bit Socket Set
KIT/BIT-SKT/TX/1-2/9/UG
40382

9
PIECE



DESCRIPTION
Torx Bit Socket:
T20, T25, T27, T30, T40, T45,
T50, T55, T60

IMPACT SOCKETS



Pin Hole for Retaining Ring & Pin

CHROME MOLYBDENUM	TORQUE	HARDNESS
CrMo	1.5X ANSI 1.3X DIN	 38-55 HRC

New range of impact sockets from GROZ are designed to withstand high levels of torque & impact applications

Chrome Molybdenum Construction

Forged from high quality Chrome Molybdenum Steel, precision machined & heat treated to provide the best combination of hardness, tensile strength & torque

Specially designed chamfered openings make engagement with the impact tools much easier, thereby saving time and effort

Pin hole in the impact sockets facilitates use with impact tools having pin and ring retaining mechanism

Black Oxide Finish

For enhanced corrosion protection and easy identification from regular sockets

Marking & Branding

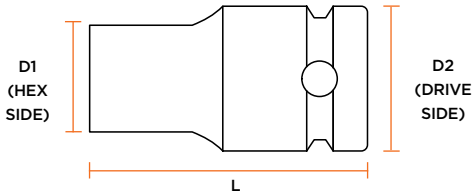
Branding & size laser etched on each individual socket ensuring quick and convenient identification

12

Impact Sockets Hex

ISKT

1/2" DRIVE

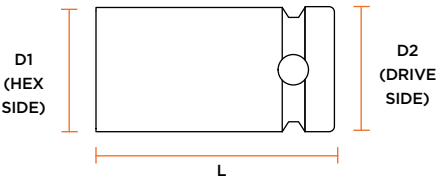


ORDERING INFORMATION

CAT NR.	ORD NR.	SIZE (MM)	L (MM)	D1 (MM)	D2 (MM)
HEX SOCKETS					
*ISKT/H/1-2/10	39930	10	38	16.7	25
ISKT/H/1-2/11	39931	11	38	18.0	25
*ISKT/H/1-2/12	39932	12	38	19.0	25
ISKT/H/1-2/13	39933	13	38	20.2	25
ISKT/H/1-2/14	39934	14	38	21.5	25
ISKT/H/1-2/15	39935	15	38	23.0	25
ISKT/H/1-2/16	39936	16	38	24.5	25
*ISKT/H/1-2/17	39937	17	38	26.0	25
ISKT/H/1-2/18	39938	18	38	27.0	25
*ISKT/H/1-2/19	39939	19	38	28.0	25
*ISKT/H/1-2/21	39940	21	38	30.0	25
ISKT/H/1-2/22	39941	22	38	32.0	30
ISKT/H/1-2/24	39942	24	38	34.0	30
ISKT/H/1-2/27	39943	27	42	40.0	30

* Best Seller

3/4" DRIVE



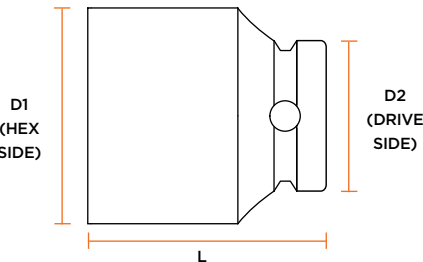
ORDERING INFORMATION

CAT NR.	ORD NR.	SIZE (MM)	L (MM)	D1 (MM)	D2 (MM)
HEX SOCKETS					
ISKT/H/3-4/17	39950	17	51	30.0	44
ISKT/H/3-4/19	39952	19	51	32.5	44
ISKT/H/3-4/21	39953	21	51	35.0	44
ISKT/H/3-4/22	39954	22	51	36.0	44
ISKT/H/3-4/24	39955	24	51	38.5	44
ISKT/H/3-4/26	39956	26	53	41.0	44
ISKT/H/3-4/27	39957	27	53	42.5	44
ISKT/H/3-4/28	39967	28	53	44	44
*ISKT/H/3-4/29	39958	29	53	45.0	44
ISKT/H/3-4/30	39959	30	53	46.0	44
*ISKT/H/3-4/32	39960	32	57	48.0	44
*ISKT/H/3-4/33	39961	33	57	50.0	44
ISKT/H/3-4/35	39962	35	57	52.0	44
ISKT/H/3-4/36	39963	36	57	53.0	44
ISKT/H/3-4/38	39964	38	57	56.0	44
ISKT/H/3-4/41	39965	41	58	59.0	44
ISKT/H/3-4/46	39966	46	62	66.0	44

* Best Seller

1" DRIVE

NEW!



ORDERING INFORMATION

CAT NR.	ORD NR.	SIZE (MM)	L (MM)	D1 (MM)	D2 (MM)
HEX SOCKETS					
ISKT/H/0-1/19	39970	19	58	35.0	54
ISKT/H/0-1/22	39971	22	58	39.0	54
ISKT/H/0-1/24	39972	24	58	41.5	54
ISKT/H/0-1/26	39973	26	60	44.0	54
ISKT/H/0-1/27	39974	27	60	45.0	54
*ISKT/H/0-1/29	39975	29	62	45.0	54
ISKT/H/0-1/30	39976	30	62	49.0	54
*ISKT/H/0-1/32	39977	32	62	51.5	54
*ISKT/H/0-1/33	39978	33	62	52.5	54
ISKT/H/0-1/35	39979	35	66	55.0	54
ISKT/H/0-1/36	39980	36	66	56.5	54
ISKT/H/0-1/38	39981	38	66	59.0	54
ISKT/H/0-1/41	39982	41	68	62.5	54
ISKT/H/0-1/46	39983	46	72	69.0	54
ISKT/H/0-1/50	39984	50	76	74.0	54
ISKT/H/0-1/55	39985	55	84	80.0	54
ISKT/H/0-1/60	39986	60	88	86.5	54
ISKT/H/0-1/65	39987	65	92	92.5	54

* Best Seller

1/2" DRIVE

KIT/ISKT/H/1-2/10
39990

NEW!

10
PIECE



ORDERING INFORMATION

10 PC HEX SOCKETS

10, 11, 12, 13, 14, 17, 19, 21, 22 &
24mm

KIT/ISKT/H/1-2/12
39991

NEW!

12
PIECE



ORDERING INFORMATION

12 PC HEX SOCKETS

10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22
& 24 mm

KIT/ISKT/H/1-2/14
39993

14
PIECE



ORDERING INFORMATION

14 PC HEX SOCKETS

10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21,
22, 24 & 27 mm

3/4" DRIVE

KIT/ISKT/H/3-4/8
39994

8
PIECE



ORDERING INFORMATION

8 PC HEX SOCKETS

26, 27, 29, 30, 32, 35, 36
& 38mm

1" DRIVE

KIT/ISKT/H/0-1/9
39995

9
PIECE



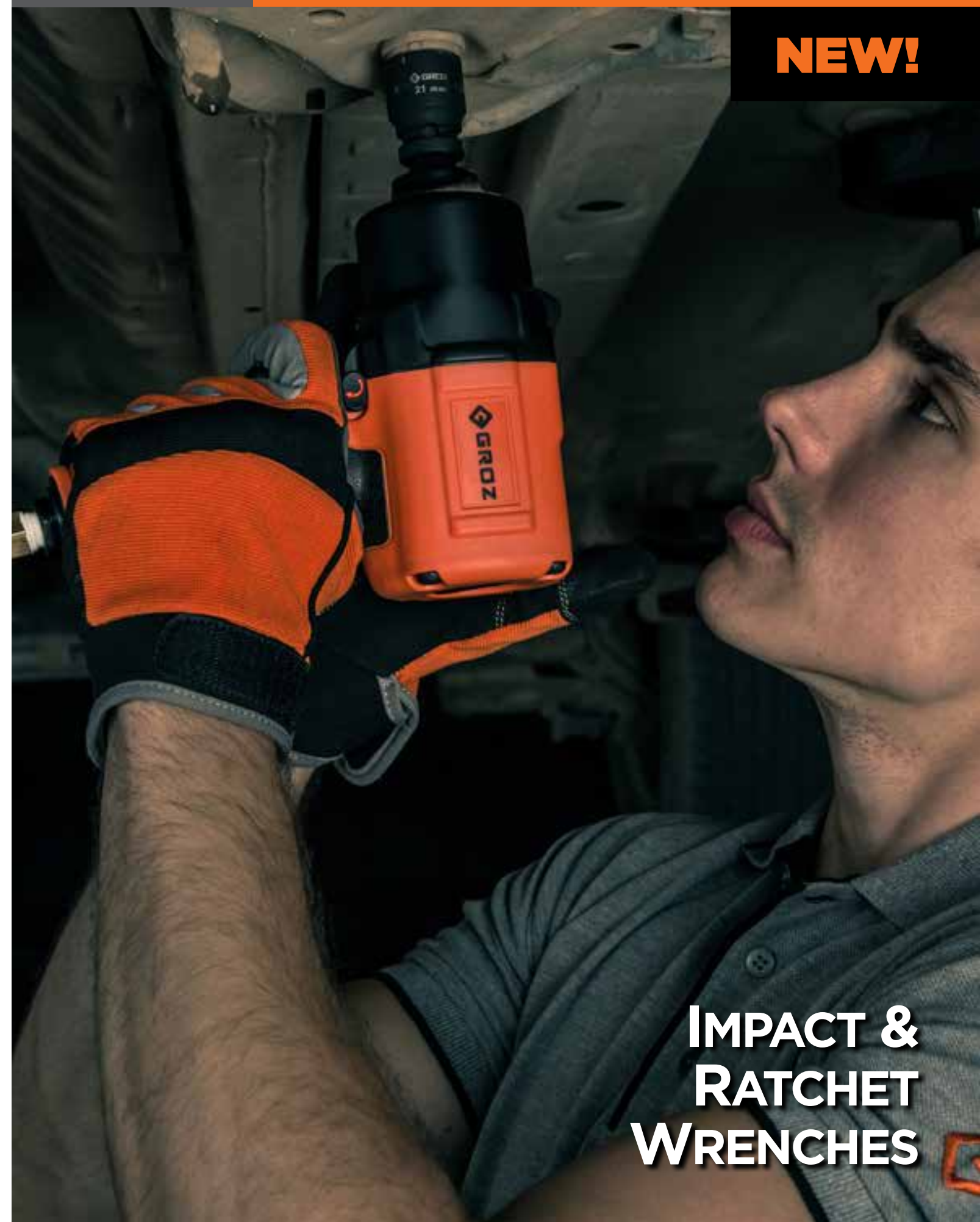
ORDERING INFORMATION

9 PC HEX SOCKETS

26, 27, 30, 32, 35, 36, 38, 41 &
46mm



NEW!



**IMPACT &
RATCHET
WRENCHES**

IMPACT WRENCHES



WATCH VIDEO

GROZ introduces professional range of Impact Wrenches for powerful, speedy and durable performance thereby improving productivity

Impact Wrenches are the most important tools in automotive and industrial applications. They are used for tightening and loosening of nuts & bolts in tyre removal, suspension, transmission, air conditioning, engine repair, body shop work, assembly lines as well as general plant maintenance

THE GROZ CLASSIFICATION



Robust & durable aluminium housing for demanding maintenance & production applications



Robust & durable aluminium housing with ergonomic TPR grip for convenience in use in demanding maintenance & production applications



Lightweight composite material construction with ergonomic TPR grip for ultimate convenience & fatigue free usage

Mechanisms



JUMBO HAMMER MECHANISM

Simplest technology which produces high torque instantly for tough applications



TWIN HAMMER MECHANISM

Balanced & powerful mechanism comprising of two fully forged hammers that work alternatively. With lower air consumption & low reaction force the system builds up torque smoothly, to its maximum level



IMPROVED TWIN HAMMER MECHANISM

An advanced version of conventional twin hammer, this system is designed for higher torque & durability. The strong reinforced hammer frame can take higher impact for a longer time & larger anvil provides a large contact area. Gives 25% more torque compared to the twin hammer & enhances tool life by upto 3 times



PIN-LESS CLUTCH MECHANISM

High torque output with excellent power to weight ratio & fast run down for less frequent high torque applications

Air Exhaust



FRONT EXHAUST

Air is blown forward towards the working area. This is normally found in the simpler design models



REAR EXHAUST

This is the most popular design. Air is discharged down the handle and blown away from the working area



SIDE EXHAUST

The air is discharged from the side of the tool

Handle Type



PISTOL TYPE



STRAIGHT D-HANDLE WITH INSIDE TRIGGER

IMPACT WRENCHES



14

3/8" Impact Wrench Standard

Robust & durable aluminium housing

Jumbo Hammer Impact Mechanism for instant high torque output for tough applications

5 speed position control to adjust tool speed for varying applications; both in forward & reverse directions

Easy to use forward/reverse switch allows operator to change direction while using the tool

Rear handle exhaust with muffler directs air away from the job & operator, ensuring safety

Ideal for use in

- a. General repair, transmission work, exhaust systems and body shops for 2 & 3 wheelers
- b. Assembly lines for 2 wheeler & 3 wheeler
- c. Assembly & repair of 4 wheeler dashboards
- d. Assembly lines for white goods (fans, washing machines etc.)
- e. Manufacturing of pumps & compressors



MAX TORQUE*	FREE SPEED	NET WEIGHT	AVG. AIR CONSUMPTION	ALUMINIUM BODY
360 Nm (266 ft-lb)	10,000 RPM	1.35 KG (2.98 LB)	2.5 CFM (71 LPM)	AI



Jumbo Hammer Mechanism



5 speed position control



Rear exhaust

ORDERING INFORMATION

CAT NR.	ORD NR.	FREE SPEED	MAX. TORQUE*		AIR INLET SIZE	AIR HOSE I.D.	AVG. AIR CONSUMPTION		OVERALL LENGTH		NET WEIGHT	
		(RPM)	(FT-LB)	(NM)	(INCH)	(INCH)	(CFM)	(LPM)	(INCH)	(MM)	(KG)	(LB)
IPW/3-8/STD	61910	10000	266	360	1/4	3/8	2.5	71	5.5	140	1.35	2.98

*@15 SEC

15

3/8" Impact Wrench
PRO+ Series

Strong yet lightweight composite construction, evenly balanced design & compact profile makes the GROZ PRO+ Series Impact Wrenches ideal to get the job done!

Ergonomic TPR grip absorbs vibration & increases comfort

Twin Hammer impact mechanism delivers balanced blows

4 speed positive control to adjust tool speed for different applications in the forward direction

Full torque output in reverse direction

One hand forward-reverse control - finger tip slide for quick change

Rear handle exhaust with muffler directs air away from the job & operator, ensuring safety

Ideal for use in

- a. Tyre service & wheel alignment
- b. Continuous fastening task in assembly lines for 2 wheelers & 3 wheelers
- c. Assembly & repair of 4 wheeler dashboards
- d. Assembly lines for white goods (fans, washing machines etc.)
- e. Manufacturing of industrial pumps & compressors

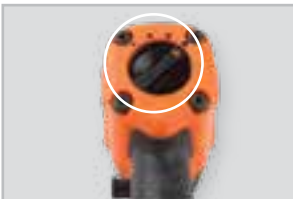


TPR Grip for convenience in use

MAX TORQUE*	FREE SPEED	NET WEIGHT	AVG. AIR CONSUMPTION	COMPOSITE BODY
745 Nm (550 ft-lb) *@15 SEC	13,500 RPM	1.23 KG (2.71 LB)	5.9 CFM (167 LPM)	



Twin Hammer Mechanism



4 speed positive control, full Power in reverse



Rear exhaust

ORDERING INFORMATION

CAT NR.	ORD NR.	FREE SPEED	MAX. TORQUE	AIR INLET SIZE	AIR HOSE I.D.	AVG. AIR CONSUMPTION	OVERALL LENGTH	NET WEIGHT
		(RPM)	(FT-LB)	(INCH)	(INCH)	(CFM)	(LPM)	(KG)
IPW/3-8/PRM	61911	13500	550	1/4	3/8	5.9	167	1.23

*@15 SEC

16

1/2" Impact Wrench
Standard

Robust & durable aluminium housing

Twin Hammer impact mechanism delivers balanced blows

6 speed position control to adjust tool speed for varying applications; both in forward & reverse directions

Easy to use forward/reverse switch allows operator to change direction while using the tool.

Front handle exhaust

Ideal for use in

- a. General automotive repair & service center for passenger vehicles
- b. Assembly lines for 4 wheeler & LCV's
- c. MRO jobs in railways
- d. Repair & maintenance of gear units & boxes
- e. Repair & maintenance of printing press machines
- f. Assembly lines for white goods (fans, washing machines etc.)



MAX TORQUE*	FREE SPEED	NET WEIGHT	AVG. AIR CONSUMPTION	ALUMINIUM BODY
1223 Nm (902 ft-lb) *@15 SEC	8,000 RPM	2.56 KG (5.64 LB)	4 CFM (113 LPM)	



Twin Hammer Mechanism



Front exhaust



6 speed position control

ORDERING INFORMATION

CAT NR.	ORD NR.	FREE SPEED	MAX. TORQUE	AIR INLET SIZE	AIR HOSE I.D.	AVG. AIR CONSUMPTION	OVERALL LENGTH	NET WEIGHT
		(RPM)	(FT-LB)	(INCH)	(INCH)	(CFM)	(LPM)	(KG)
IPW/1-2/STD	61920	8000	902	1/4	3/8	4	113	2.56

*@15 SEC

17 1/2" Impact Wrench
PRO Series

Robust & durable aluminium housing

Ergonomic TPR grip absorbs vibration & increases comfort

Twin Hammer impact mechanism delivers balanced blows

5 speed position control to adjust tool speed for varying applications both in forward & reverse

Easy to use forward/reverse switch allows operator to change direction while using the tool

Rear handle exhaust with muffler directs air away from the job & operator, ensuring safety

Ideal for use in

- a. General automotive repair & service center for passenger vehicles
- b. Assembly lines for 4 wheeler & LCV's
- c. MRO jobs in railways
- d. Repair & maintenance of gear units & boxes
- e. Repair & maintenance of printing press machines
- f. Assembly lines for white goods (fans, washing machines etc.)



TPR Grip for convenience in use

MAX TORQUE*	FREE SPEED	NET WEIGHT	AVG. AIR CONSUMPTION	ALUMINIUM BODY
1223 Nm (902 ft-lb)	8,000 RPM	2.7 KG (5.95 LB)	4 CFM (113 LPM)	AI



Twin Hammer Mechanism



Rear Exhaust



5 speed position control

ORDERING INFORMATION

CAT NR.	ORD NR.	FREE SPEED	MAX. TORQUE	AIR INLET SIZE	AIR HOSE I.D.	AVG. AIR CONSUMPTION	OVERALL LENGTH	NET WEIGHT
		(RPM)	(FT-LB)	(INCH)	(INCH)	(CFM)	(MM)	(KG)
IPW/1-2/PRO	61921	8000	902	1/4	3/8	4	184	2.7

*@15 SEC

18 1/2" Impact Wrench
PRO+Series

Strong yet lightweight composite material construction, evenly balanced design & compact profile make the GROZ PRO+ Series impact wrenches ideal to get THE JOB DONE

Ergonomic TPR grip absorbs vibration & increases comfort

Twin Hammer impact mechanism delivers balanced blows

4 speed positive control to adjust tool speed for different applications in the forward direction

Full torque output in reverse direction

One hand forward/reverse control - Finger tip slide for quick change

Rear handle exhaust with muffler directs air away from the job & operator, ensuring safety

Ideal for use in

- a. General automotive repair & service center for passenger vehicles
- b. Assembly lines for 4 wheeler & LCV's
- c. MRO jobs in railways
- d. Repair & maintenance of gear units & boxes
- e. Repair & maintenance of printing press machines
- f. Assembly lines for white goods (fans, washing machines etc.)



TPR Grip for convenience in use

MAX TORQUE*	FREE SPEED	NET WEIGHT	AVG. AIR CONSUMPTION	COMPOSITE BODY
1492 Nm (1100 ft-lb)	8,500 RPM	1.9 KG (4.19 LB)	6.7 CFM (190 LPM)	



Twin Hammer Mechanism



Rear exhaust



4 speed positive control, full power in reverse

ORDERING INFORMATION

CAT NR.	ORD NR.	FREE SPEED	MAX. TORQUE	AIR INLET SIZE	AIR HOSE I.D.	AVG. AIR CONSUMPTION	OVERALL LENGTH	NET WEIGHT
		(RPM)	(FT-LB)	(INCH)	(INCH)	(CFM)	(MM)	(KG)
IPW/1-2/PRM	61922	8500	1100	1/4	3/8	6.7	184	1.9

*@15 SEC

3/4" Impact Wrench
Standard

Robust & durable aluminium housing

Improved Twin Hammer mechanism imparts high torque and durability. The strong reinforced hammer frame can take higher impact for a longer time & larger anvil provides a large contact area. Gives 25% more torque compared to the twin hammer & enhances tool life by upto 3 times

3 speed positive control to adjust tool speed for different applications in the forward direction

Full torque output in reverse direction

Easy to use forward/reverse knob allows operator to change direction while using the tool.

Rear handle exhaust with muffler directs air away from the job & operator, ensuring safety

Ideal for use in

- a. Tyre & engine assembly on trucks, buses, tractors etc.
- b. MRO jobs in oil & gas industry
- c. Assembly work for diesel & gas engines
- d. MRO jobs in paper processing plants



MAX TORQUE*	FREE SPEED	NET WEIGHT	AVG. AIR CONSUMPTION	ALUMINIUM BODY
2522 Nm (1860 ft-lb)	6,700 RPM	4.75 KG (10.47 LB)	7 CFM (198 LPM)	AI



Improved Twin Hammer Mechanism



Rear Exhaust



3 speed positive control, full power in reverse

ORDERING INFORMATION

CAT NR.	ORD NR.	FREE SPEED	MAX. TORQUE	AIR INLET SIZE	AIR HOSE I.D.	AVG. AIR CONSUMPTION		OVERALL LENGTH		NET WEIGHT	
		(RPM)	(FT-LB)	(INCH)	(INCH)	(CFM)	(LPM)	(INCH)	(MM)	(KG)	(LB)
IPW/3-4/STD	61930	6700	1860	2522	1/4	3/8	7	198	9.2	234	4.75

*@15 SEC

1" Impact Wrench
Standard

Most powerful 1" wrench for heavy duty applications

Designed for exceptional power, durability & operators convenience

Robust & durable aluminium housing

Pin-less clutch mechanism for very high torque output

D handle with inside trigger

3 speed position power control to adjust tools speed both in forward & reverse direction

Easy to use forward/reverse switch allows operator to change direction while using the tool.

Side handle exhaust for safe usage

Ideal for use with:

- a. Truck garages, construction & mining equipment where huge impact power is required
- b. Erection & commissioning of heavy equipment in power plants, sugar mill, cement plants & steel mills
- c. MRO jobs in shipping Wards
- d. Routine maintenance of wind mills



MAX TORQUE*	FREE SPEED	NET WEIGHT	AVG. AIR CONSUMPTION	ALUMINIUM BODY
2522 Nm (1860 ft-lb)	4,000 RPM	12.06 KG (26.59 LB)	8.4 CFM (238 LPM)	AI



Pin-Less Clutch mechanism



Side exhaust



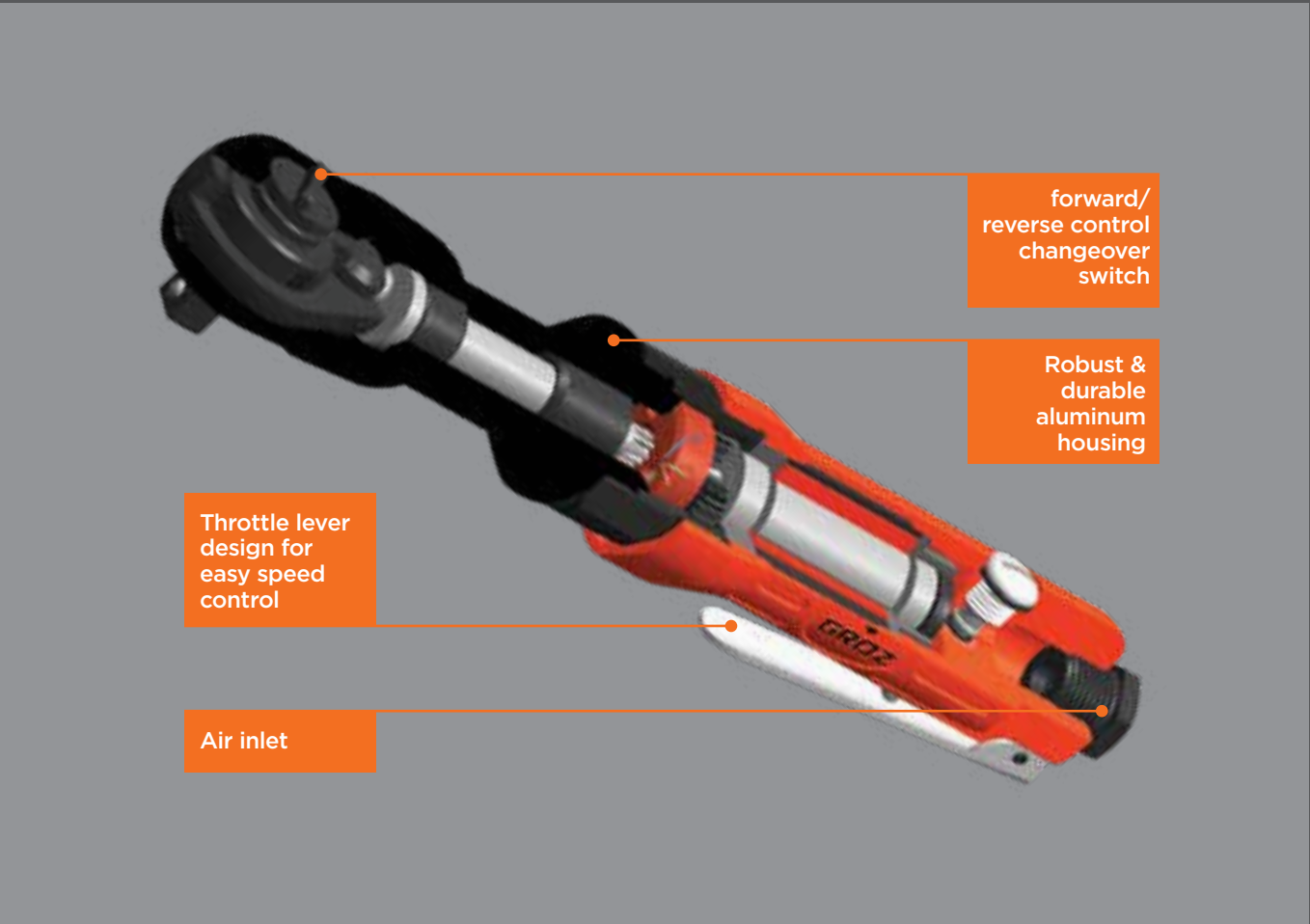
3 speed position control

ORDERING INFORMATION

CAT NR.	ORD NR.	FREE SPEED	MAX. TORQUE	AIR INLET SIZE	AIR HOSE I.D.	AVG. AIR CONSUMPTION		OVERALL LENGTH		NET WEIGHT	
		(RPM)	(FT-LB)	(INCH)	(INCH)	(CFM)	(LPM)	(INCH)	(MM)	(KG)	(LB)
IPW/0-1/STD	61940	4000	1860	2522	1/2	3/4	8.4	238	20.3	515	12.06

*@15 SEC

RATCHET WRENCHES



21

3/8" Ratchet Wrench
Standard

- Robust & durable aluminium housing

Heat treated ratchet head design provides longer life

Chrome Molybdenum anvil guarantees high performance in the toughest applications

Optimized gear ratio and air flow for reliable performance
- Easy to use forward/reverse control

Throttle lever design for easy speed control

Compact and light weight, ideal for use in confined work spaces

Excellent for body shop repair jobs and light duty work under the dashboard



MAX TORQUE	FREE SPEED	NET WEIGHT	AVG. AIR CONSUMPTION	ALUMINIUM BODY
68 Nm (50 ft-lb)	150 RPM	1.17 KG (2.58 LB)	6 CFM (170 LPM)	AI

ORDERING INFORMATION

CAT NR.	ORD NR.	FREE SPEED	MAX. TORQUE		AIR INLET SIZE	AIR HOSE I.D.	AVG. AIR CONSUMPTION		OVERALL LENGTH		NET WEIGHT	
		(RPM)	(FT-LB)	(NM)	(INCH)	(INCH)	(CFM)	(LPM)	(INCH)	(MM)	(KG)	(LB)
RTW/3-8/STD	61965	150	50	68	1/4	3/8	6	170	10.5	267	1.17	2.58

22

1/2" Ratchet Wrench
Standard

- Robust & durable aluminium housing

Heat treated ratchet head design provides longer life

Chrome Molybdenum anvil guarantees high performance in the toughest of applications

Optimized gear ratio and air flow for reliable performance

Easy to use forward/reverse control
- Throttle lever design for easy speed control

Compact and light weight, ideal for use in confined work spaces

Excellent for body shop repair jobs and light duty work under the dashboard



MAX TORQUE	FREE SPEED	NET WEIGHT	AVG. AIR CONSUMPTION	ALUMINIUM BODY
68 Nm (50 ft-lb)	150 RPM	1.17 KG (2.58 LB)	6 CFM (170 LPM)	AI

ORDERING INFORMATION

CAT NR.	ORD NR.	FREE SPEED	MAX. TORQUE		AIR INLET SIZE	AIR HOSE I.D.	AVG. AIR CONSUMPTION		OVERALL LENGTH		NET WEIGHT	
		(RPM)	(FT-LB)	(NM)	(INCH)	(INCH)	(CFM)	(LPM)	(INCH)	(MM)	(KG)	(LB)
RTW/1-2/STD	61970	150	50	68	1/4	3/8	6	170	10.5	267	1.17	2.58



23

**Tyre
Levers**

TLVR

Professional quality straight pattern tyre levers with hook & taper

Forged from Carbon Steel

Nickel plated for protection against corrosion

Designed to work without damaging the tyre, rim or inner tube



ORDERING INFORMATION

CAT NR.	ORD NR.	LENGTH	
		(INCH)	(MM)
TLVR/16	33180	16	400
TLVR/21	33181	21	530
TLVR/24	33182	24	600

24

**Roll Head
Pry Bars**

PRY

Fully forged from Chrome Steel

Hardened 38-43 HRC & tempered

Specifically designed for heavy prying & fulcrum prying in automotive applications

The tapered end is useful for aligning applications.



ORDERING INFORMATION

CAT NR.	ORD NR.	LENGTH		STOCK SIZE	
		(INCH)	(MM)	(INCH)	(MM)
PRY/6	33150	6	150	5/16	8
★PRY/12	33151	12	300	7/16	11
★PRY/16	33152	16	400	9/16	14
PRY/20	33153	20	500	11/16	17
SET					
PRY/3/ST	33155	3 Pc Set: 12"(300mm), 16" (400mm) & 20" (500mm)			
PRY/4/ST	33154	4 Pc Set: 6"(150mm), 12"(300mm), 16" (400mm) & 20" (500mm)			

★ Best Seller



**AUTOMOTIVE
TOOLS &
ACCESSORIES**

25 Cat/Aligning Bars

Heavy duty Bars forged from chrome alloy steel

Prying end is on one side with lining up end on the other

Fully hardened body resists any bending

Available with a round section or hexagonal section, in bright zinc plated finish

Sizes 48" & 54" come in powdered coated finish



ORDERING INFORMATION

CAT NR.	ORD NR.	LENGTH		STOCK SIZE/ HEX (A/F)	
		(INCH)	(MM)	(INCH)	(MM)
ROUND SECTION BARS					
CAT/16	33169	16	400	5/8	16
★CAT/18	33170	18	450	5/8	16
★CAT/24	33171	24	600	3/4	19
CAT/30	33172	30	750	7/8	22
CAT/36	33173	36	900	7/8	22
CAT/48	33176	48	1200	1	25
CAT/54	33177	54	1350	1	25
HEXAGONAL SECTION BAR					
★CAT/H/16/CP	33175	16	400	5/8	16

★ Best Seller

26 Handled Pry Bars

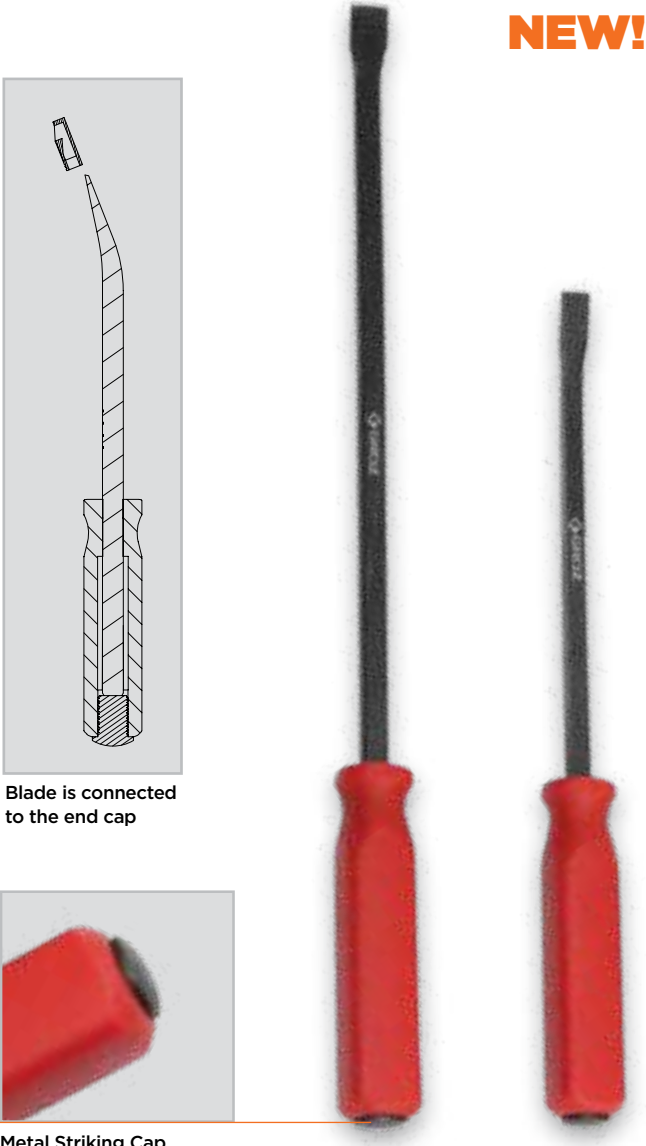
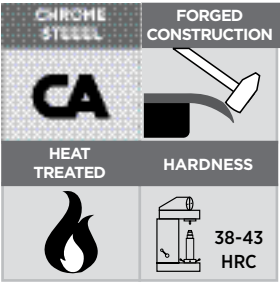
Heavy duty handled pry bars manufactured using square section steel for heavy prying applications

Blades run through the handle and form an end cap to provide a solid striking surface

Metal striking cap allows hammering without any damage to the handle

Black oxide finish for rust resistance

Composite material handle made of LDPE & EVA provides durability, comfort & reduces fatigue.



ORDERING INFORMATION

CAT. NR.	ORD NR.	LENGTH		SECTION	
		(INCH)	(MM)	(INCH)	(MM)
HPR/8	33120	8	200	1/4	6
★HPR/12	33121	12	300	7/16	11
★HPR/18	33122	18	450	7/16	11
★HPR/24	33123	24	600	1/2	13
HPR/32	33124	32	800	1/2	13
HPR/36	33125	36	900	5/8	16
SETS					
HPR/3/ST	33130	3 Pc Set: 12" (300 mm), 18" (450 mm) & 24" (600 mm)			
HPR/4/ST	33131	4 Pc Set: 8" (200 mm), 12" (300 mm), 18" (450 mm) & 24" (600 mm)			
HPR/4A/ST	33132	4 Pc Set: 12" (300 mm), 18" (450 mm), 24" (600 mm) & 32" (800 mm)			
HPR/6/ST	33133	6 Pc Set: 8" (200 mm), 12" (300 mm), 18" (450 mm), 24" (600 mm), 32" (800 mm) & 36" (900 mm)			

★ Best Seller

27

Screw Extractor Set

Manufactured from Chrome Molybdenum Steel

5 pc Screw Extractor Set with drill sizes: 1, 2, 3, 4 & 5 mm

Ideal for removing broken stubs, pipes, screws & bolts

Comes complete in a plastic box



ORDERING INFORMATION

CAT NR.	ORD NR.
SCE/5	09355

28

Oil Filter Wrench

Plated steel body

Designed to remove engine oil filters upto 4" (100 mm) diameter

Comfortable vinyl grip

Ideal for use in automotive applications



Strap Length:
20" (510 mm)

ORDERING INFORMATION

CAT NR.	ORD NR.	STRAP LENGTH		FOR FILTER DIA.
		(INCH)	(MM)	
OFW/S/8	62000	20	510	Upto 4" (100 mm)

29

Piston Ring Compressors

PRC

Made from high grade spring steel

Self locking ratchet pawl prevents premature release

Friction proof edge allows smooth & accurate piston fitting operation

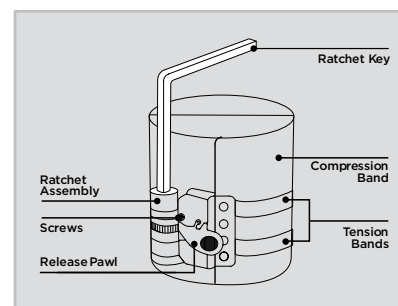
Tension band eliminates bottom flare

Ratchet key included



ORDERING INFORMATION

CAT NR.	ORD NR.	SIZE	MAX. RING DIA.		MIN. RING DIA.		HEIGHT	
			(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)
PRC/1-2/53-125-75	62010	Small	5	125	2-1/2	53	3	75
PRC/1-2/60-175-100	62011	Large	7	175	2-3/8	60	4	100
PRC/1-2/60-175-150	62012	X-Large	7	175	2-3/8	60	6	150



30

Gear Pullers

BPL

Pullers with 2 or 3 jaw options for external & internal pulling of gears, bearings etc.

Forged chrome vanadium jaws with long & short reach options

Heat treated alloy steel cross bolt & head for maximum strength

Rolled spindle threads for higher strength & smooth movement even under high stress

2 Jaw models are useful for working in compact spaces

3 Jaw option ensures equal load distribution to slide gears, pulleys & flywheels off shaft without damage



2 JAW



3 JAW

ORDERING INFORMATION

CAT NR.	ORD NR.	MAX. REACH		SPREAD RANGE		SAFE WORKING LOAD
		(INCH)	(MM)	(INCH)	(MM)	(TON)
2 JAW						
BPL/2J/3	36020	3	75	1 - 7/16	37-75	2
★BPL/2J/4	36021	4	100	2 - 4	50-100	4
★BPL/2J/6	36022	6	150	3 - 6	75-150	6
BPL/2J/8	36023	8	200	4 - 8	100-200	10
3 JAW						
BPL/3J/3	36030	3	75	1 - 7/16	37-75	3
★BPL/3J/4	36031	4	100	2 - 4	50-100	6
★BPL/3J/6	36032	6	150	3 - 6	75-150	9
BPL/3J/8	36033	8	200	4 - 8	100-200	15

★ Best Seller



3 Jaw Puller used for removing tyre hub

31

Quick Change Ratcheting Gear Pullers

BPL-RT

Quick & convenient to use Gear Puller upto **5X quick** than traditional pullers.

Speed:

Quick & convenient conversion from 2 to 3 jaw configurations. Jaws can also be reversed for internal or external pulling of gears & bearings.

Easy Access:

Slim profile of jaws enables convenient access to hard to reach bearings & gears

Strength:

Jaws forged from Chrome Molybdenum steel with accurate heat treatment for enhanced strength & wear resistance

Jaws are chrome plated with spindle in manganese phosphate finish for protection against corrosion & rust

Versatility:

Easily removable jaws for setting to required jaw configuration or internal/external setting

Ratcheting mechanism holds jaws in position while setting puller

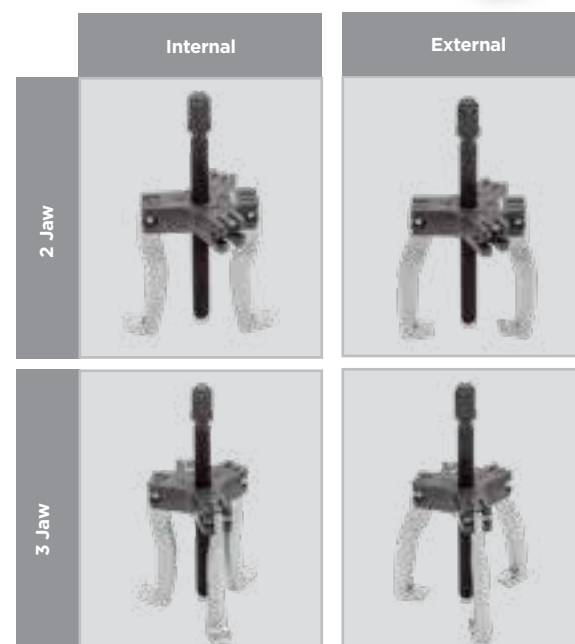
Used to pull out gears, pulleys, bearing flanges & fly wheels, shafts and housings



- ✓ **SPEED**
- ✓ **ACCESS**
- ✓ **STRENGTH**
- ✓ **VERSATILITY**



NEW!



Easy switch between 2 Jaw & 3 Jaw options
No extra tools required.

ORDERING INFORMATION

CAT NR.	ORD NR.	MAX. REACH		SPREAD		SAFE WORKING LOAD (TON)
		(INCH)	(MM)	(INCH)	(MM)	
BPL/RT/2T	36040	3.1	80	2.0 - 3.1	50 - 80	2
★BPL/RT/5T	36041	6.0	150	3.9 - 6.0	100 - 150	5
BPL/RT/7T	36042	8.6	218	4.9 - 8.6	125 - 218	7

★ Best Seller



32

Hydraulic Bottle Jacks

JACK/BT

The GROZ Hydraulic Bottle Jacks come with a "Load Limiting Device" a unique safety feature to make sure that the jack is not accidentally used beyond the rated capacity.

Leak-Proof Performance:

Welded construction ensures leak proof performance

Higher Stability:

Forged steel base plate imparts higher stability even under high load as compared to jacks with CI base plates

Increased Durability:

Due to internally machined oil passages, smooth bearing surfaces and close tolerances.

Machined and polished RAM with die cut threads that reduce wear and tear

Powder coated 2 piece lifting lever rod with pressed ends for convenient opening & closing of pressure release valve

Stronger Grip:

Knurled heat treated saddle head with non-slip surface gives stronger grip

100% factory tested

50% safety overload factor

Ideal for use on heavy duty trucks, agriculture, construction, mining, automotive, and marine applications where lifting, pushing, spreading, bending, pressing, or straightening is required.



Knurled saddle head for non-slip grip

Machined and polished ram

Leak Proof welded construction

Pump socket

Convenient carrying handle

Compact 2 pc lifting lever rod

Leak proof welded construction

Pressure release valve

Load limiting device

Base Plate

12 TON



VARIANTS



ORDERING INFORMATION

CAT NR.	ORD NR.	LIFT RANGE		CAPACITY		IDEAL FOR USE WITH
		(MM)	(INCH)	(TON)	(KG)	
◆JACK/BT/2W	61710	175 - 339	7 to 13-11/32	2	1815	Passenger Cars, Taxi's etc.
JACK/BT/4W	61711	190 - 368	7 7/16 to 14-13/16	4	3629	Passenger Cars, Taxi, Pick-Up Trucks, SUV's, MUV's, Vans, LCV's, Mini Trucks
★JACK/BT/12W	61714	230 - 465	9-1/16 to 18-5/16	12	10886	HCV, Trucks (9-24 ton), Buses
★JACK/BT/20W	61715	240 - 450	9-7/16 to 17-11/16	20	18144	HCV, Trucks (24 - 40 ton)
JACK/BT/32W	61716	260 - 420	10-5/16 to 16-9/16	32	29030	Trailers, Dumpers (40 - 60 ton), RV's
JACK/BT/50W	61717	280 - 450	11 to 17-11/16	50	45359	Dumpers (60 - 120 tons)

◆ New ★ Best Seller

NEW!

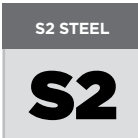
Hexagonal keys are most widely used in automotive workshops, garages & in several industrial applications

GROZ offers a wide range of hex key sets for use by mechanic's and technicians worldwide. These are available in two material types:

S2 STEEL:

Superior S2 steel construction. Hardened and tempered with corrosion resistant bright nickel plating

Hardness: 50-52 HRC

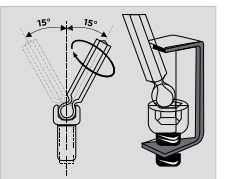
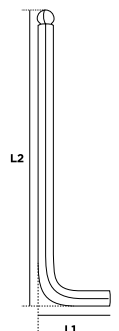
**ALN/HX-BL/7L/GRZ
36101****7 Hex Keys With Ball End -
Long - Metric**

Chamfered hex end for
convenience in usage

Ball end permits easy access
in tight, hard to reach spaces
- upto 30° angle in recess
from the screw head



HEX (MM)	L1 (MM)	L2 (MM)
2.5	20	86
3.0	22	91
4.0	27	103
5.0	32	118
6.0	37	139
8.0	43	155
10.0	49	177

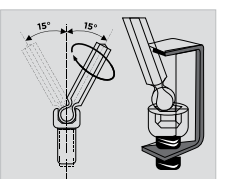
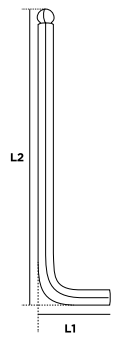
**ALN/HX-BL/7L/SAE/GRZ
36104****7 Hex Keys with Ball End -
Long - SAE**

Chamfered hex end for
convenience in usage

Ball end permits easy access
in tight, hard to reach spaces
- upto 30° angle in recess
from the screw head



HEX (INCH)	L1 (INCH)	L2 (INCH)
3/32	5/8	2-1/64
1/8	45/64	2-13/64
5/32	53/64	2-33/64
3/16	15/16	2-3/4
1/4	1-1/16	3-3/16
5/16	1-17/64	3-47/64
3/8	1-11/32	4-1/4

**ALN/HX-BL/9EL/GRZ
36103****9 Hex Keys with Ball End -
Extra Long - Metric**

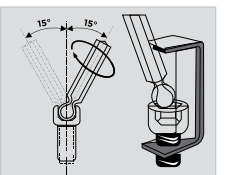
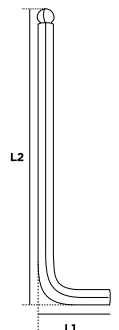
Chamfered hex end for
convenience in usage

Ball end permits easy access
in tight, hard to reach spaces
- upto 30° angle in recess
from the screw head

Extra long arm for easy
access in confined spaces



HEX (MM)	L1 (MM)	L2 (MM)
1.5	15	91
2.0	17	101
2.5	20	113
3.0	22	127
4.0	27	142
5.0	32	163
6.0	37	184
8.0	43	205
10.0	49	233



SCREWDRIVERS & HEX KEYS

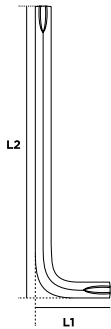
ALN/TX-TX/9L/GRZ
36102

9 Torx Star Keys - Long

Compatible with standard
TORX fixing systems



TORX	L1 (MM)	L2 (MM)
T10	18	86
T15	20	90
T20	20.5	94
T25	20.5	100
T27	21	105
T30	24	114
T40	26.5	123.5
T45	29.5	132.5
T50	32.5	151

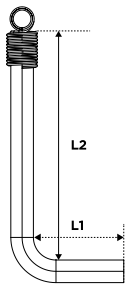


ALN/HX-HX/10/SAE/GRZ
36112

10 Hexagonal Keys - SAE

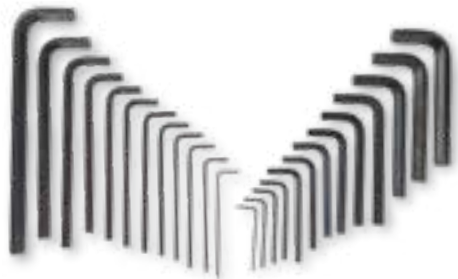


HEX (INCH)	L1 (INCH)	L2 (INCH)
1/16	35/64	1-49/64
5/64	19/32	1-57/64
3/32	5/8	2-1/64
1/8	45/64	2-13/64
5/32	53/64	2-33/64
3/16	15/16	2-3/4
7/32	1-1/32	2-61/64
1/4	1-1/16	3-3/16
5/16	1-17/64	3-47/64
3/8	1-11/32	4-1/4



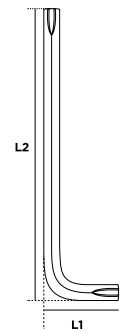
ALN/HX-HX/25/GRZ
36130

25 Hexagonal Keys - Metric & SAE



HEX (MM)	L1 (MM)	L2 (MM)
METRIC		
1.5	14	45
2	15	48
2.5	16	51
3	18	56
4	21	64
4.5	23	67
5	24	70
5.5	26	75
6	27	81
7	30	88
8	32	95
9	34	102
10	34	108

HEX (INCH)	L1 (INCH)	L2 (INCH)
SAE		
1/16	35/64	2-7/16
5/64	5/8	3
3/32	45/64	3-11/32
7/64	3/4	3-15/32
1/8	25/32	3-35/64
9/64	55/64	3-47/64
5/32	63/64	3-15/16
3/16	1-7/64	4-1/2
7/32	1-3/16	5
1/4	1-17/64	5-5/16
5/16	1-27/64	6
3/8	1-37/64	6-2/3

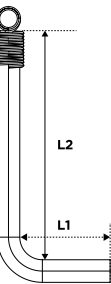


ALN/HX-HX/8/GRZ
36110

8 Hexagonal Keys - Metric



HEX (MM)	L1 (MM)	L2 (MM)
1.5	14	45
2	15	48
2.5	16	51
3	18	56
4	21	64
5	24	70
5.5	26	75
6	27	81



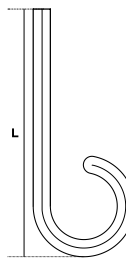
ALN/HX-HX/7/GRZ
36120

7 Hexagonal Keys - Metric

Chamfered end
for convenience
in usage



HEX (MM)	LENGTH (MM)
2.5 mm	55
3 mm	60
4 mm	65
5 mm	70
6 mm	80
8 mm	85
10 mm	90

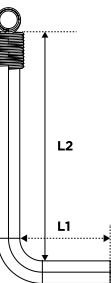


ALN/HX-HX/10/GRZ
36111

10 Hexagonal Keys - Metric



HEX (MM)	L1 (MM)	L2 (MM)
1.5 mm	14	45
2 mm	15	48
2.5 mm	16	51
3 mm	18	56
4 mm	21	64
5 mm	24	70
5.5 mm	26	75
6 mm	27	81
8 mm	32	95
10 mm	34	108

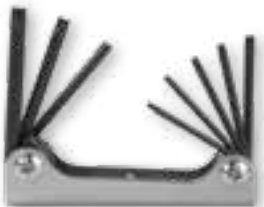


ALN/TX-TX/8/GRZ
36121

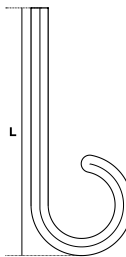
8 Tamper Torx Star Keys

Chamfered end
for convenience
in usage

Compatible with
standard TORX
fixing systems



TAMPER TORX	LENGTH (MM)
T9	58
T10	62
T15	70
T20	72
T25	79
T27	88
T30	91
T40	95



34

Screwdrivers
Hex Shank

SCDR

Premium quality screwdrivers for the professional user

Superior S2 steel hexagonal shaft for higher torque & wear resistance

Shaft extends into the handle, ensuring full transfer of force.

Multi-component injection moulded hexagonal grip is non-slip & does not roll away

Magnetised tip is accurately hardened ensuring long lasting durability

Tip has black oxide finish for enhanced corrosion resistance



S2 STEEL	HARDENED	HEX SHANK
S2	58-62 HRC	

ORDERING INFORMATION

CAT NR.	ORD NR.	TYPE	SIZE	L1 (MM)	L2 (MM)	H (MM)
SCDR/H/FL3/75	33735		0.5x3.0	75	75	4
SCDR/H/FL4/100	33736		0.8x4.0	100	98	4
SCDR/H/FL6.5/38	33734		1.2x6.5	38	55	6
SCDR/H/FL6.5/100	33737		1.2x6.5	100	108	6
SCDR/H/FL6.5/150	33738		1.2x6.5	150	108	6
SCDR/H/FL8/150	33739		1.6x8.0	150	118	8
SCDR/H/PH1/75	33731		PH1	75	98	5
SCDR/H/PH2/38	33730		PH2	38	55	6
SCDR/H/PH2/100	33732		PH2	100	108	6
SCDR/H/PH3/150	33733		PH3	150	118	8
◆SCDR/H/6/ST	33745		Set of 6: PH 1x75, PH 2x100, FL 3x75, FL 4x100, FL 6.5x150 & FL 8x150			

◆ New



Hex shaft can be tightened using a spanner for high torque applications

35

4V Insta Drive Screwdriver
with Retractable Bit Cartridge

IDR-2

Patented retractable, rotating bit cartridge design makes it easy to find, store and change bits

Standard 1" (25 mm) long x 1/4" (6.35mm) S2 Steel Bits

Smooth cartridge that never jams

Large, easy to view cartridge window

Easy to identify and use forward / reverse Switch

LED work light provides visibility when working in low light or enclosed areas

Rechargeable

Long lasting magnetic charge cable enables charging using common USB chargers

4V Lithium Power: Ideal for around-the-house jobs for professionals and DIY users

Lithium Ion Battery: Retains charge up to 18 months



SPECIFICATIONS

BATTERY	4V Lithium 1.3Ah
RPM	200
MOTOR	380 W
TORQUE	3.95-4.5 Nm (35-40 in-lbs)
SWITCH	Rocker Type
NUMBER OF BITS STORED	7
STORAGE	Rear Cartridge
CHUCK SIZE	1/4" Hex
SPINDLE LOCK	Yes
LED WORK LIGHT	Yes
WEIGHT	0.467kg (1lb)
CHARGER	Magnetic Charge Cable
INCLUDES	USB Cable, Bits
BIT COMPATIBILITY	1" (25 mm) Hex Shank Driver Bits



Led Light



Easy to view cartridge window



Charge time of only 90 minutes using USB 1A wall charger



Red light show charging on & Green light shows charging complete

ORDERING INFORMATION

CAT NR.	ORD NR.
IDR/2	33781

36 Retra Drive

Retractable Bit Cartridge - Makes it easy to find, store and change Bits

Specially designed Palm Saver Cap prevents blisters in the palm of your hand. Cap does not turn as you push on the cap and turn the handle.

Easy Guide Collar provides greater control by maintaining full contact between the Bit and the Screw

Specially Engineered ABS resin handle

Industrial grade S2 modified steel bits with Rockwell Hardness 58 - 62

Length: 2" (50 mm)



ORDERING INFORMATION

	13 IN 1		14 IN 1		15 IN 1		
	STANDARD US	STANDARD EU	HVAC	AUTOMOTIVE	STANDARD US	STANDARD EU	TAMPERPROOF
CAT NR.	RD/SD/6R	RD/SD/7R	RD/HV/3	RD/AU/5	RD/SD/1	RD/SD/2	RD/TP/4
ORD NR.	33711	33713	33714	33716	33710	33712	33715
PHILLIPS 0-3	Y	Y	Y		Y	Y	
PHILLIPS 1-2	Y	Y	Y	Y	Y	Y	
DOUBLE ENDED PHILLIPS 2-2			Y				
HEX 1/8"-5/32"	Y				Y		
HEX 4-5						Y	
POZI 1X 2		Y				Y	
FLAT / SLOTTED 3-5			Y				
FLAT / SLOTTED 4-6	Y	Y	Y		Y	Y	
FLAT SLOT 5.5 X VALVE STEM			Y	Y			
TORX 9-40				Y			
TORX 10-15	Y	Y		Y	Y	Y	
TORX 20-25	Y	Y		Y	Y	Y	
TORX 27-30				Y	Y		
SQUARE AWL			Y				
1/4" SOCKET ADAPTER				Y			
HEX PIN 1/8"- 9/64							Y
HEX PIN 5/32" - 3/16"							Y
SPANNER 6-8							Y
SPANNER 10-12							Y
TORX PIN 10-15							Y
TORX PIN 20-25							Y
TORX PIN 27-30							Y

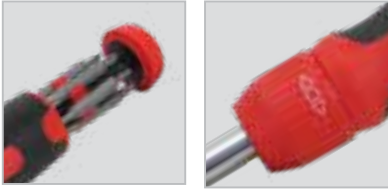
13 in 1

28-Tooth Solid core ratchet

Features ZAD 8 Zinc Alloy SOLID-CORE Ratchet that delivers over 25 Nm of Torque Strength

Precision 28 Tooth Ratchet

Design makes driving fasteners faster and easier

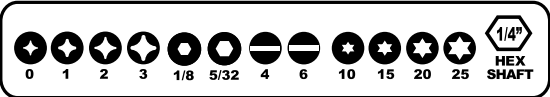


STANDARD US



RD/SD/6R
33711

RATCHETING

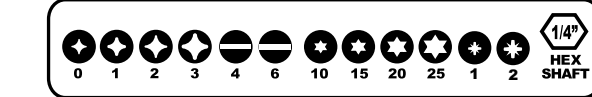


STANDARD EU



RD/SD/7R
33713

RATCHETING



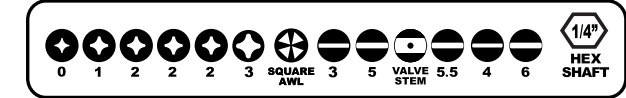
14 in 1

HVAC

14 bit tips featuring valve stem bit, Square Awl Reamer Bit and Double LOK Phillips #2 combo bit (which can be used in any 1/4" quick change chuck)



RD/HV/3
33714



AUTOMOTIVE

Loaded with the most popular bits used in automotive work, including a 1/4" socket adaptor, this driver is a must for the professional mechanic or anyone who works on their car or truck.



RD/AU/5
33716



Retra Drive
(continued)

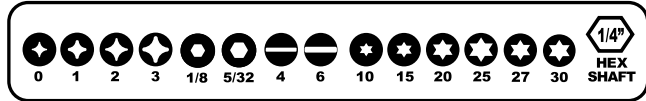
15 in 1

STANDARD US

All purpose bit load driver loaded with 7 double end professional quality bits



RD/SD/1
33710

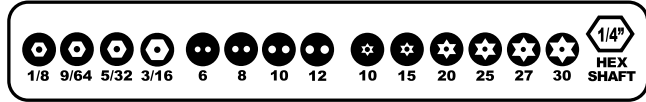


TAMPERPROOF

Must for all commercial / industrial tradesmen i.e. electricians, locksmiths, telephone technicians, maintenance personnel, etc.



RD/TP/4
33715

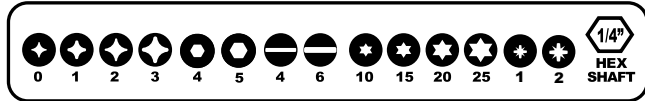


STANDARD EU

All purpose bit load driver loaded with 7 double end professional quality bits



RD/SD/2
33712



37

Retra
Lite

RTL-1

NEW!

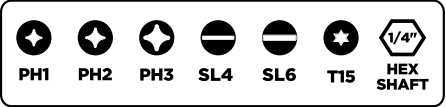
7 in 1 Retractable Cartridge Screwdriver

Retractable Bit Cartridge - Makes it easy to find, store and change Bits

2" (50 mm) long S2 modified steel bits with Rockwell Hardness 58-62

Specially designed palm saver cap prevents blisters in the palm of your hand. Cap does not turn as you push on the cap and turn the handle

Easy guide collar provides greater control by maintaining full contact between the bit and the screw



ORDERING INFORMATION

CAT NR.	ORD NR.
RTL/1	33750

High Accuracy Torque Wrench with unmatched safety & accuracy

48 teeth Ratchet allows for an engagement angle of 7-1/2° which is ideal; providing both precise adjustment & non slip use

Chrome-Molybdenum alloy Steel Square Drive

To set required torque

- press safety button & pull out adjustment ring
- Turn ring to the desired value
- Press the safety button again & push back adjustment ring
- Wrench is set at desired torque & ready for use

Fully secure locking mechanism avoids accidental/forced adjustment

To tighten fasteners, move Torque Wrench in clockwise direction. Reversing the ratchet allows the wrench to be used in anti-clockwise direction, used for loosening nuts & fasteners

Clearly audible click sound on reaching the required torque

Lightweight with a comfort grip handle & lens for clear reading of the set value

Accurate to $\pm 4\%$ of reading

Each unit is individually serial numbered & includes calibration certificate traceable to International Standards Institute

Fully serviceable, repair kits available as spare

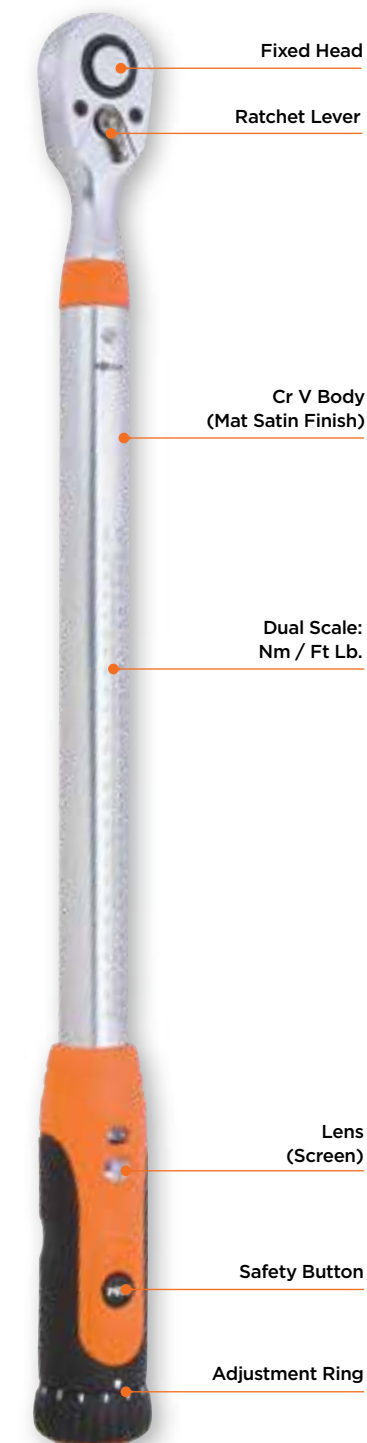
Ft-lb models can be custom manufactured

ACCURACY

$\pm 4\%$
OF
READING



D10



ORDERING INFORMATION

CAT NR.	ORD NR.	SQUARE DRIVE	TORQUE RANGE	FINE SCALE	OVERALL LENGTH		NET WT.
		(INCH)	(NM)	(NM)	(INCH)	(MM)	
TQW/RT/3-8/25	38905	3/8	5 - 25	0.1	12.7	323	0.765
TQW/RT/3-8/50	38906	3/8	10 - 50	0.5	15.7	400	0.983
TQW/RT/1-2/100	38910	1/2	20 - 100	0.5	15.7	400	0.998
TQW/RT/1-2/200	38911	1/2	40 - 200	0.5	20.4	517	1.36
TQW/RT/1-2/340	38912	1/2	60 - 340	1	24.4	620	1.73
TQW/RT/3-4/750	38922	3/4	150 - 750	2.5	47.6	1210	5.85
TQW/RT/0-1/1000	38926	1	200 - 1000	2.5	59.0	1500	7.43
D10	00509	Torque wrench merchandiser stand (Torque wrench not included)					



39

Classic Torque Wrenches

TQW/CL

Manufactured to the highest level of DIN ISO 6789 & ASME B107.14M-2004

Accurate to $\pm 4\%$ of reading

Solid steel construction for enhanced durability

Clearly Audible

Click sound on reaching the required torque

Scale reading made easy with four torque readings engraved on the steel body

Reversible Square Drive

Direction of use can be changed/reversed by pushing the square drive to the opposite side

Convenient retracting lever provides quick and easy torque adjustment

Anti-slip grip provides comfort during continuous use

Comes with calibration certificate in a safe to store & carry blow moulded case

NEW!



ACCURACY

$\pm 4\%$

CONFORMS TO

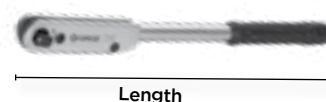
**DIN 6789
ASME B107.300-2010**

IMPULSE - SOUND TORQUE INDICATIONS



ORDERING INFORMATION

CAT NR.	ORD NR.	SQUARE DRIVE	TORQUE RANGE		OVERALL LENGTH		NET WT.
		(INCH)	(NM)	(FT-LB)	(INCH)	(MM)	
TQW/CL/3-8/33	38930	3/8	5-33	4-24	16-5/8	422	0.720
TQW/CL/3-8/68	38931	3/8	12-68	10-50	18-23/32	476	1.05
TQW/CL/1-2/135	38932	1/2	25-135	20-100	21-1/2	546	1.60
TQW/CL/1-2/225	38933	1/2	50-225	40-160	23-1/2	597	2.30
TQW/CL/1-2/330	38934	1/2	70-330	50-250	32-1/2	825	2.60
TQW/CL/3-4/800	38935	3/4	200-800	140-600	42-1/8	1070	7.58
TQW/CL/0-1/1000	38936	1	200-1000	140-740	55	1400	12.80



Comes packed in a blow moulded case

40

Aluminium Torque Wrenches

TQW/AL

World's lightest precision torque wrench with unmatched features

NEW!

50% Lighter

Lightweight yet robust aluminium construction makes this range of torque wrenches at least 50% lighter than corresponding steel models.



Perfect ergonomics & lightweight body makes these ideal for fatigue free usage in heavy workshop applications

Complete with extension bar for added leverage

Torque Indication

Progressive torque building upto the pre-set value easily detected by an audible sound & impulse

Sturdy Storage

Supplied in rugged blow moulded case for extra care and protection for your valuable tool

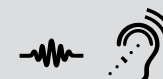
ACCURACY

$\pm 3\%$

CONFORMS TO

**DIN 6789
ASME B107.300-2010**

IMPULSE - SOUND TORQUE INDICATIONS



Integrated 3 Lever Chain Mechanism

Length independence, high accuracy and reliability every time over time



Length Independent

Irrespective of where the force is applied, whether in the middle of the handle or elsewhere, with both hands or with an extension tube, the torque value is always within an accuracy of $\pm 3\%$



Dual Scale Window

Clear window for reading in NM and lbf-ft*



Torque Adjustment

Secure push-pull knob with integrated hex key for easy setting of torque



Chrome Molybdenum

Square Drive: for higher strength and durability



Added Leverage

Supplied with an aluminium tube extension for increased leverage while tightening at high torque values

ORDERING INFORMATION

CAT NR.	ORD. NR.	SQ DRIVE	TORQUE RANGE		GRADUATION	OVERALL LENGTH		NET WT.
		(INCH)	(NM)	(LBF.FT)		(INCH)	(MM)	
TQW/AL/3-4/760	38940	3/4	140-760	100-560	10	32-1/2	827	3.0
TQW/AL/0-1/2000	38941	1	750-2000	N/A	50	93	2370	11.7

*Only on 3/4". On 1" single window with reading in N-m only

A range of superior digital torque wrenches for high productivity & accuracy

Button controls for angle setting*, torque setting, unit setting, mode setting, data storage**, data clear, data output & online calibration

Manufactured from Chrome Vanadium Steel with Chrome Molybdenum square drive for increased resistance to wear

Functions in both clockwise & anticlockwise direction

Interchangeable Head

The same wrench is suitable for use with two sizes of square drives. Heads available as spare too

Light & sound indication on reaching required torque.

Electronic display panel for clear reading of torque. Measure in NM, ft-lb, inch-lb & kg-cm

With both peak & track mode unlike most other models that come with just peak mode

Built-in overload indicator and moisture indicator

Works with 2xAAA batteries with a life of 110 hours

Each unit supplied with calibration certificate. Online calibration also provided

Comes in a safe to store and carry blow moulded case

GROZ offers 3 types of Digital Torque Wrenches

- STANDARD SERIES
- PRO SERIES
- PRO+ SERIES



NEW!

Interchangeable Head



LED Panel turns from green to red on reaching required torque level



12 LED light panel located on sides of the handle for clear visibility while working sideways

PRO+ SERIES

ORDERING INFORMATION

CAT NR.	ORD NR.	SIZE (MM)	DRIVE (INCH)	FOR USE WITH
SPARE HEAD ONLY				
HD/TQW/9-12/3-8	38850	9 x 12	3/8	TQW/DI-AM/3-8/135, TQW/DI-M/3-8/135, TQW/DI/3-8/135
HD/TQW/9-12/1-2	38851	9 x 12	1/2	TQW/DI-AM/1-2/135, TQW/DI-M/1-2/135, TQW/DI/1-2/135
HD/TQW/14-18/1-2	38852	14 x 18	1/2	TQW/DI-AM/1-2/340, TQW/DI-M/1-2/340, TQW/DI/1-2/340
HD/TQW/14-18/3-4	38853	14 x 18	3/4	TQW/DI-AM/3-4/340, TQW/DI-M/3-4/340, TQW/DI/3-4/340

TORQUE ACCURACY	ANGLE ACCURACY
±2% cw ±3% ccw	±2°

* Only on PRO+ Series

** Only on PRO & PRO+ Series

A. STANDARD SERIES

- With interchangeable head and 4 control buttons

Resolution:
0.1N-m/ 0.1 ft-lb/1 in-lb/1 kg-cm
LED Pattern:
4 red + 8 green

CAT NR.	ORD NR.	SQUARE DRIVE	TORQUE RANGE				TORQUE ACCURACY	END FITTING SIZE (HXW)
		(INCH)	(NM)	(FT-LB)	(IN-LB)	(KG-CM)		(MM)
TQW/DI/3-8/135	38800	3/8	6.8 - 135	5 - 99.5	60 - 1195	69 - 1378	± 2% CW, ± 3% CCW	9 X 12
TQW/DI/1-2/135	38801	1/2	6.8 - 135	5 - 99.5	60 - 1195	69 - 1378		9 X 12
TQW/DI/1-2/200	38802	1/2	10 - 200	7.4 - 147.5	88 - 1770	102 - 2041		14 X 18
TQW/DI/1-2/340	38803	1/2	17 - 340	12.5 - 250.7	150 - 3009	173 - 3469		14 X 18
TQW/DI/3-4/340	38804	3/4	17 - 340	12.5 - 250.7	150 - 3009	173 - 3469		14 X 18

B. PRO SERIES (WITH MEMORY FUNCTION)

- With interchangeable head, memory function that can store up to 50 readings
- Operator can store up to 9 pre-set torque values - a time saving feature in repetitive applications

Resolution:
0.1N-m/ 0.1 ft-lb/1 in-lb/1 kg-cm
LED Pattern:
2 red + 10 green

CAT NR.	ORD NR.	SQUARE DRIVE	TORQUE RANGE				TORQUE ACCURACY	END FITTING SIZE (HXW)
		(INCH)	(NM)	(FT-LB)	(IN-LB)	(KG-CM)		(MM)
TQW/DI-M/3-8/135	38810	3/8	6.8 - 135	5 - 99.5	60 - 1195	69 - 1378	± 2% CW, ± 3% CCW	9 X 12
TQW/DI-M/1-2/135	38811	1/2	6.8 - 135	5 - 99.5	60 - 1195	69 - 1378		9 X 12
TQW/DI-M/1-2/200	38812	1/2	10 - 200	7.4 - 147.5	88 - 1770	102 - 2041		14 X 18
TQW/DI-M/1-2/340	38813	1/2	17 - 340	12.5 - 250.7	150 - 3009	173 - 3469		14 X 18
TQW/DI-M/3-4/340	38814	3/4	17 - 340	12.5 - 250.7	150 - 3009	173 - 3469		14 X 18

C. PRO+ SERIES (WITH MEMORY & ANGLE FUNCTION)

- Most versatile single wrench for torque & angle tightening, eliminates the need to buy a separate angle wrench
- Angle tightening eliminates any friction issue thus ensuring complete safety
- Store up to 9 pre-set torque values - a time saving feature in repetitive applications
- Memory function that stores upto 50 readings

Resolution:
0.1N-m/ 0.1 -lb/1 in-lb/1 kg-cm & 1°
LED Pattern:
2 red + 10 green

ORDERING INFORMATION

CAT NR.	ORD NR.	SQUARE DRIVE	TORQUE RANGE				TORQUE & ANGULAR ACCURACY	END FITTING SIZE (HXW)
		(INCH)	(NM)	(FT-LB)	(IN-LB)	(KG-CM)		(MM)
TQW/DI-AM/3-8/135	38820	3/8	6.8 - 135	5 - 99.5	60 - 1195	69 - 1378	± 2% CW, ± 3% CCW & ± 2°	9 X 12
TQW/DI-AM/1-2/135	38821	1/2	6.8 - 135	5 - 99.5	60 - 1195	69 - 1378		9 X 12
TQW/DI-AM/1-2/200	38822	1/2	10 - 200	7.4 - 147.5	88 - 1770	102 - 2041		14 X 18
TQW/DI-AM/1-2/340	38823	1/2	17 - 340	12.5 - 250.7	150 - 3009	173 - 3469		14 X 18
TQW/DI-AM/3-4/340	38824	3/4	17 - 340	12.5 - 250.7	150 - 3009	173 - 3469		14 X 18

NEW!

Heavy duty torque multiplier provides mechanical advantage in applying high torque to tighten nuts & bolts

Particularly used for high torque application

Chrome Vanadium construction with Chrome Molybdenum square drive & Chrome Molybdenum reaction bar

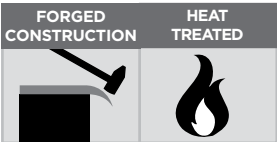
Planetary gear train mechanism multiplies the input torque as per the multiplication factor to deliver the output torque

Torque multiplicative factor reduces operator effort by upto 75%

Replaces the use of long levers, which can be potentially dangerous

Includes breakaway adaptor to prevent damage to the multiplier in case excess torque is applied

Comes complete with straight reaction bar, breakaway adaptor & hex key in a blow moulded case



SPECIFICATIONS

DESCRIPTION	1:6.5 TORQUE MULTIPLIER 1500 Nm (1100 lb ft)	1:3.3 TORQUE MULTIPLIER 2500 Nm (1840 lb ft)
Max. Torque	1500 (1100 lb ft)	2500 (1840 lb ft)
Torque ratio	1 : 6.5	1 : 3.3
Gear ratio	1 : 9	1 : 4
Max. Input torque	231 Nm (170 lb ft)	758 Nm (560 lb ft)
Max. Output torque	1500 Nm (1100 lb ft)	2500 Nm (1840 lb ft)
Input drive	1/2"	3/4"
Output drive	3/4"	1"
Accuracy	±10%	±10%

ORDERING INFORMATION

CAT NR.	ORD NR.	MAX. TORQUE	
		(NM)	(LB FT.)
TQM/1-2/3-4/15	38995	1500	1100
TQM/3-4/0-1/25	38996	2500	1840



Torque multiplier used in inaccessible areas



Torque multiplier used for lug nuts

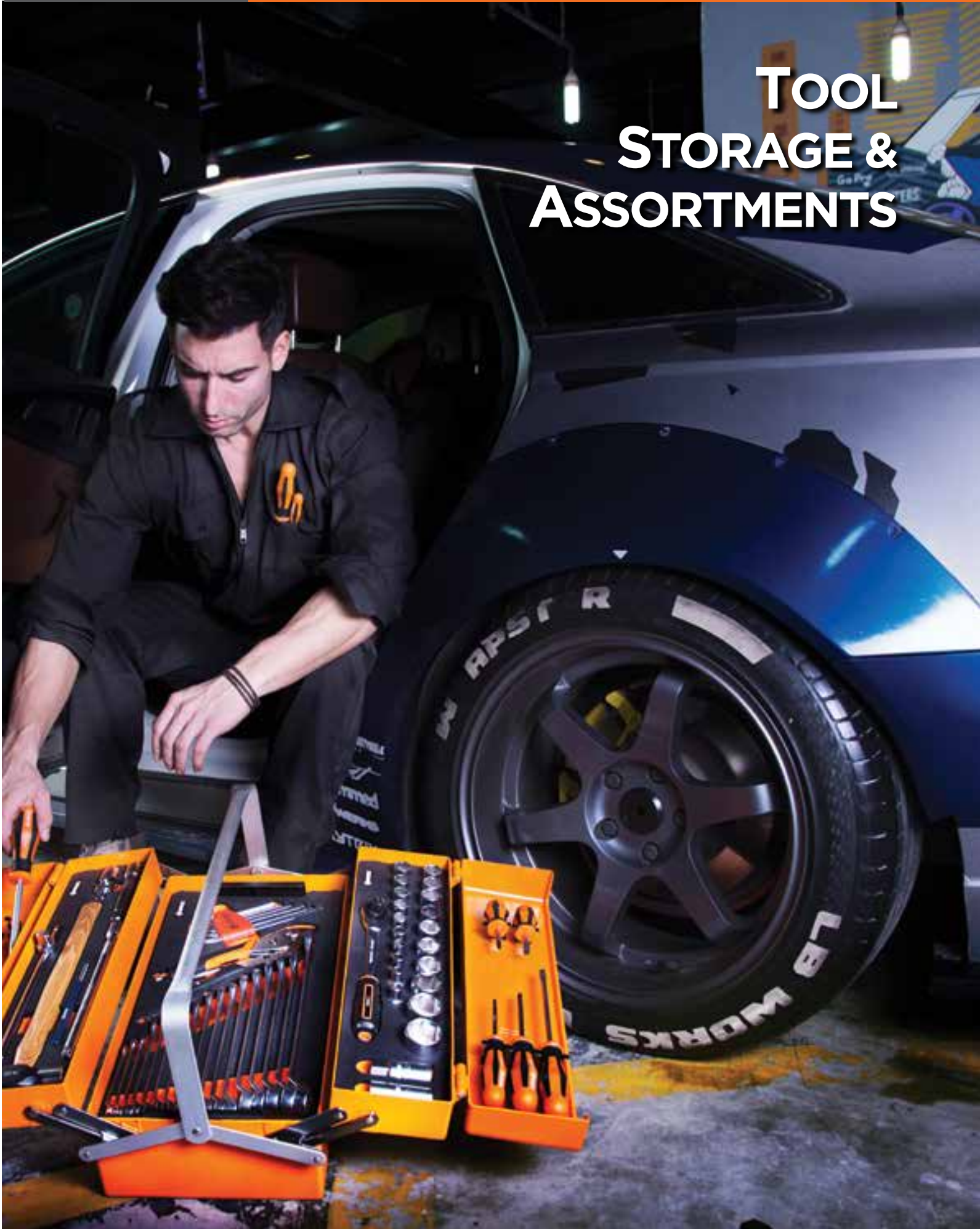


Torque multiplier used on tracks



Torque multiplier used for machine nut tightening

TOOL STORAGE & ASSORTMENTS



Manufactured from heavy gauge steel sheet

Rugged double wall construction for enhanced durability

Corrosion resistant powder coated finish

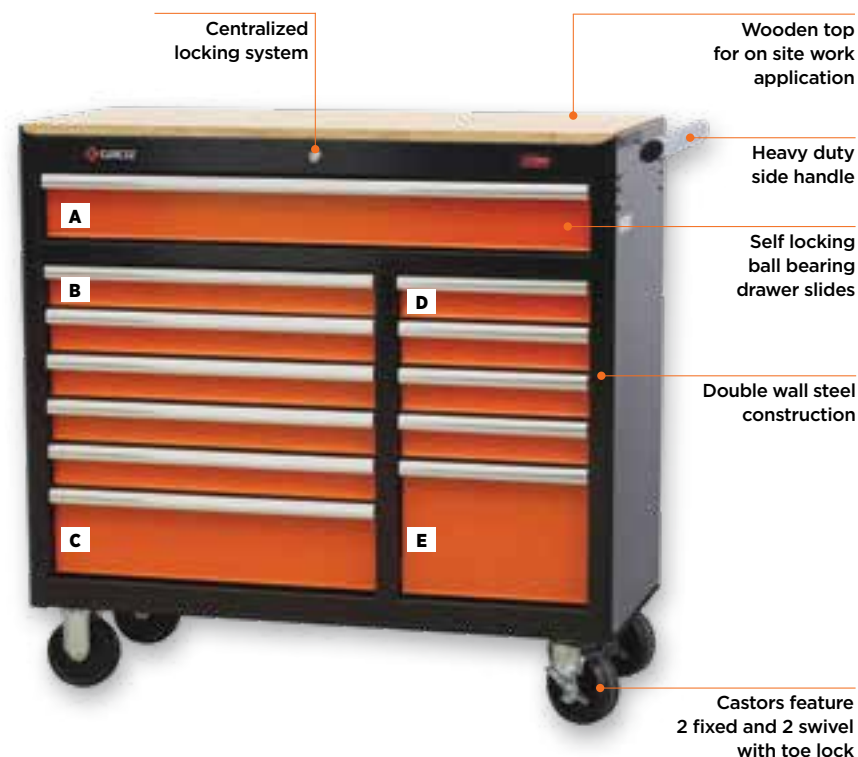
Drawers with ball bearing slides for 100% opening

All drawers lined with 2mm vinyl sheet

Integrated centralised locking system to lock/unlock all drawers in a single operations

4 heavy duty castors - 5" x 2" (125 x 50mm). Rear castors with brakes for safety

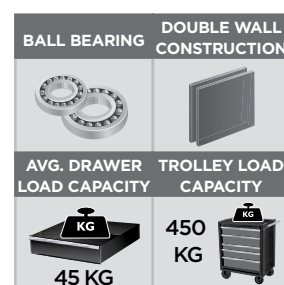
Ergonomic handle for ease of movement



MTB-12

12 Drawer Portable Workstation

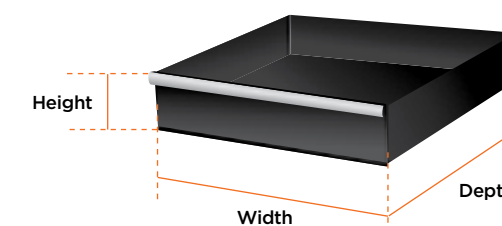
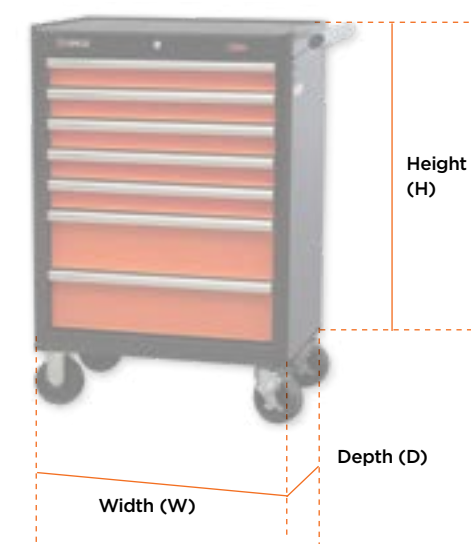
DRAWER	WIDTH		DEPTH		HEIGHT		NO. OF DRAWERS
	(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)	
A	36-5/8	928	15-1/8	385	4-3/8	112	1
B	22-3/8	568	15-1/8	385	2-7/8	74	5
C	22-3/8	568	15-1/8	385	6	153	1
D	11-5/8	297	15-1/8	385	2-7/8	74	4
E	11-5/8	297	15-1/8	385	9-1/8	232	1



MTB-7

7 Drawer Portable Workstation

DRAWER	WIDTH		DEPTH		HEIGHT		NO. OF DRAWERS
	(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)	
A	22-3/8	568	15-1/8	391	2-5/8	62	5
B	22-3/8	568	15-1/8	391	5-3/8	137	2



ORDERING INFORMATION

CAT NR.	ORD NR.	DIMENSION (WxDxH)	
		(INCH)	(MM)
MTB/12/WD	40001	42 x 18 x 39	1067 x 457 x 985
MTB/7	40005	27 x 18 x 39	686 x 457 x 985

Mobile workshop Tool Cart for moving bulky & heavy equipment

Double wall steel construction provides high durability

Three full width lockable drawers with ball bearing slides & 2mm vinyl sheet

Rubber mat protects top from damage

Centralized keyed locking system for added security with single operation for opening all drawers

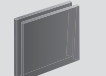
4 Heavy duty 5" x 2" (125 mm x 50 mm) castors

2 fixed and 2 swivel castors with toe lock for safety and better mobility

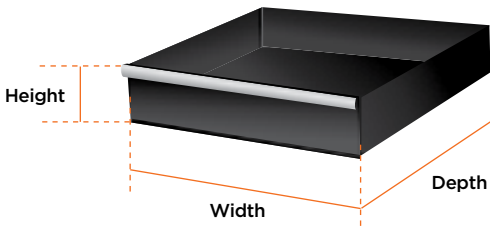
Ergonomic heavy duty side handle for easy movement



NEW!

BALL BEARING	DOUBLE WALL CONSTRUCTION
	
AVG. DRAWER LOAD CAPACITY	CART LOAD CAPACITY
 45 KG	 450 KG

DRAWER TYPE	WIDTH		DEPTH		HEIGHT		QTY
	(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)	
A	22-3/8	568	15-9/16	392	3	75	3



ORDERING INFORMATION

CAT NR.	ORD NR.	DIMENSION	
		(INCH)	(MM)
MTB/30	40009	27 x 18-9/32 x 40	686 x 465 x 1008

4 drawer tool chest manufactured from double wall steel sheet for high durability

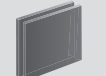
Drawers fitted with anti-slip 2mm vinyl mats

Centralized Keyed locking system with single operation for opening all drawers

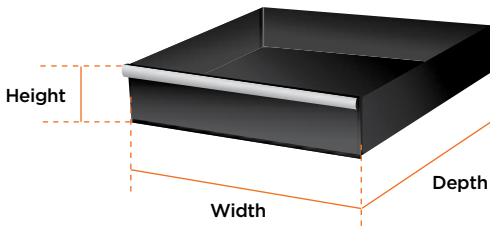
Ball bearing drawer slides with drawer liners included



NEW!

BALL BEARING	DOUBLE WALL CONSTRUCTION
	
AVG. DRAWER LOAD CAPACITY	
 45 KG	

DRAWER TYPE	WIDTH		DEPTH		HEIGHT		QTY
	(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)	
A	23-1/4	591	10	250	2	50	4



ORDERING INFORMATION

CAT NR.	ORD NR.	DIMENSION	
		(INCH)	(MM)
MTB/4	40006	27 x 12 x 15	680 x 300 x 370

46 Universal Tool Kit
154 Piece

154 Piece Automotive Tool
Kit comes in a 7 Drawer
Portable Workstation
(MTB/7)

A versatile set with an
organized layout, makes it
convenient to find tools

Ideal for maintenance and
service work on automobiles



	QTY.	CONTENT OF TOOL TROLLEY	SIZE	IMAGE
TRAY 1	7 pcs	1/4" Hex Bit Sockets	3, 4, 5, 6, 7, 8, 10 mm	
	13 pcs	1/4" Hex Sockets	4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 mm	
	3 pcs	1/4" Slotted Bit Sockets	4, 5.5, 7 mm	
	3 pcs	1/4" Philips Bit Sockets	PH1, PH2, PH3	
	8 pcs	1/4" Torx Bit Sockets	T8, T10, T15, T20, T25, T27, T30, T40	
	9 pcs	1/4" Hex Sockets Deep	5, 6, 7, 8, 9, 10, 11, 12, 13 mm	
	1 pc	1/4" Ratchet Handle		
	3 pcs	1/4" Pozi Bit Sockets	PZ1, PZ2, PZ3	
	3 pcs	1/4" Extension Bar	50, 100, 150 mm	
	1 pc	1/4" Universal Joint		
	1 pc	Spinner Handle	1/4"	
	1 pc	Sliding T Bar	1/4"	
	22 pcs	1/2" Hex Sockets	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 30, 32 mm	
	1 pc	Sliding T Bar	1/2"	
	2 pcs	1/2" Spark Plug Socket	16, 21 mm	
	1 pc	1/2" Ratchet handle		
	1 pc	1/2" Power Bar	375 mm	
	2 pcs	1/2" Extension Bar	125, 250 mm	
	1 pc	Ratcheting Torque Wrench	40-200 Nm	
	1 pc	1/2" Universal Joint		

	QTY.	CONTENT OF TOOL TROLLEY	SIZE	IMAGE
TRAY 2	1 pc	Combination Plier	200 mm	
	1 pc	Diagonal Cutting Plier	200 mm	
	1 pc	Long Nose Plier	200 mm	
	1 pc	Water Pump Plier	250 mm	
	1 pc	Circlip Plier - Internal Straight	175 mm	
	1 pc	Circlip Plier - Internal Bent	175 mm	
	1 pc	Circlip Plier - External Straight	175 mm	
	1 pc	Circlip Plier - External Bent	175 mm	
	1 pc	Adjustable Wrench	375 mm	
TRAY 3	1 pc	Locking Plier	250 mm	
	5 pcs	Offset Ratcheting Ring Spanners	6x8, 10x11, 13x14, 15x17, 19x21 mm	
TRAY 4	25 pcs	Offset Combination Spanners	6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30 mm	
	7 pcs	Flat Screwdriver	3x75, 4x100, 4x100, 6.5x38, 6.5x100, 6.5x150, 8.0x150 mm	
TRAY 5	4 pcs	Philips Screwdriver	PH1x75, PH2x100, PH2x38, PH3x150	
	Set of 8 pcs	Tamper Torx Star Keys	T9, T10, T15, T20, T25, T27, T30, T40	
	1 pc	LED Flashlight	Extends from 17-55 cm, with Telescopic Magnetic Pick-Up	
	Set of 9 pcs	Hex Key Set with Ball End - Extra Long - Metric	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm	

ORDERING INFORMATION

CAT NR.	ORD NR.
MTB/7/154/AU	40057

47 Automotive Tools Kit
84 Piece

84 Piece Automotive Tool Kit comes in a 7 Drawer Portable Workstation (MTB/7)

A versatile set with an organized layout, makes it convenient to find tools

Ideal for maintenance and service work on automobiles



Tools supplied with trolley

	QTY.	CONTENT OF TOOL TROLLEY	SIZE	IMAGE
TRAY 1	17 pcs	1/2" Hex Sockets	8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24, 27, 30, 32 mm	
	5 pcs	1/2" Hex Sockets Deep	10, 14, 17, 19, 22 mm	
	1 pc	Ratchet handle	1/2"	
	1 pc	Sliding T Bar	1/2"	
	1 pc	L Handle	1/2"	
	1 pc	Universal Joint	1/2"	
	2 pcs	1/2" Extension Bar	5", 10"	
	2 pcs	1/2" Spark Plug Socket	16, 21 mm	
	2 pcs	Adaptors	1/2 F x 3/4 M, 1/2 F x 3/8 M	
	1 pc	Combination Plier	200 mm	
	1 pc	Diagonal Cutting Plier	175 mm	
	1 pc	Long Nose Plier	175 mm	
	1 pc	Circlip Plier - Internal Straight	150 mm	
	1 pc	Circlip Plier - Internal Bent	150 mm	
	1 pc	Circlip Plier - External Straight	150 mm	
	1 pc	Circlip Plier - External Bent	150 mm	
	Set of 9 pcs	Hex Key Set with Ball End - Extra Long - Metric	1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0, 10.0 mm	
	1 pc	20 leaf - Feeler Gauge	Blade Length: 150 mm	

	QTY.	CONTENT OF TOOL TROLLEY	SIZE	IMAGE
TRAY 2	4 pcs	Pin Punch Set	1/16", 1/8", 3/16" & 5/32"	
	1 pc	Ball Pein Hammer	Head Weight: 24oz., Handle Length: 14"	
	1 pc	Plastic Mallet	Head Dia: 25mm	
	1 pc	Chisels	Blade Width: 1" (25 mm), Overall Length: 10" (250 mm)	
	1 pc	Cat Bar	16" (400 mm)	
	1 pc	Hacksaw Frame	12", with Bi-Metal Blade	
	1 pc	Adjustable Wrench	10" (250 mm)	
	1 pc	Water Pump Plier	10" (250 mm)	
	1 pc	Locking Plier	10" (250 mm)	
TRAY 3	12 pcs	Double Open End Spanner Set	6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 30 x 32 mm	
	12 pcs	Ring Spanner Set	6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 30 x 32 mm	
	1 pc	Rust Preventive Lubricant Spray - GO 20	300 gms	
	1 pc	Retra Knife	KNV/R/6	
	2 pc	Flat Screwdriver	6.5 x 100, 8 x 150 mm	
	2 pc	Phillips Screwdriver	PH 1x75, PH 2x100	

ORDERING INFORMATION		
CAT NR.	ORD NR.	IDEAL FOR
MTB/7/84/AU	40060	4 wheeler workshops

48 Automotive Tools Kit
65 Piece

65 Piece Automotive Tool Kit comes in a 7 Drawer Portable Workstation (MTB/7)

A versatile set with an organized layout, makes it convenient to find tools

Ideal for maintenance and service work on automobiles



	QTY.	CONTENT OF TOOL TROLLEY	SIZE	
TRAY 1	20 pcs	1/2" Hex Sockets	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32 mm	
	1 pc	1/2" Ratchet Handle		
	2 pcs	1/2" Extension Bars	125 & 250 mm (5" & 10")	
	1 pc	1/2" Universal Joint		
	Set of 7 pcs	Hex Key Set with Ball End - Long - Metric	2.5, 3, 4, 5, 6, 8, 10 mm	
	1 pc	1/2" Sliding T Bar		
	2 pcs	1/2" Spark Plug Socket	16 & 21 mm	
	1 pc	Heavy Duty Pin Punch	6 mm	
	1 pc	Locking Plier	250 mm (10")	
	1 pc	Ball Pein Hammer - Hickory Wood	456 gms	
TRAY 2	18 pcs	Deep Offset Combination Spanners	6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24 mm	
	4 pcs	Phillips Screwdriver	Ph 2x38 mm, Ph 1x75 mm, Ph 2x100 mm, Ph 3x150 mm	
	6 pcs	Slotted Screwdriver	6.5x38 mm, 3x75 mm, 4x100 mm, 6.5x100 mm, 6.5x150 mm, 8x150 mm	

ORDERING INFORMATION

CAT NR.	ORD NR.
MTB/7/65/AU	40059

49 Tool Assortments

INSTANT ACCESS TO TOOLS!

GROZ offers two coloured modular system of foam tool kits designed for ultimate safety and efficiency

A solution for each usage: DIY, automotive repair, industrial maintenance etc.

Ultimate Safety
No more looking around the drawer and risking injury.

Separate space for each tool prevents them for lying around here and there

No Loss
Tools can be located immediately and replaced at the appropriate position after use ensuring no loss

Compatible with GROZ Portable Workstations, Tool Cart & Tool Chest

NEW!

Tool assortments available in 3 modular sizes:



SERIES A
FULL SIZE



SERIES B
2/3 SIZE



SERIES C
1/3 SIZE

	WIDTH		DEPTH		HEIGHT		MODULE SIZE
	(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)	
Series A	22 - 1/4	565	15 - 5/32	385	1 - 3/16	30	Full Size
Series B	15	380	15 - 5/32	385	1 - 3/16	30	2/3 Size
Series C	7 - 9/32	185	15 - 5/32	385	1 - 3/16	30	1/3 Size

*Applicable for standard trolley drawer size (internal) of 568 x 391 mm

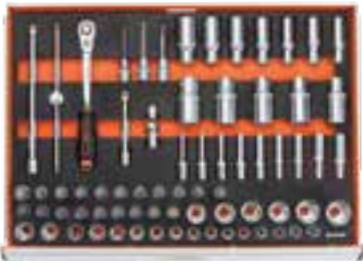
Choose your option:



Option of fitting
3 pcs of Series C Modular Kits

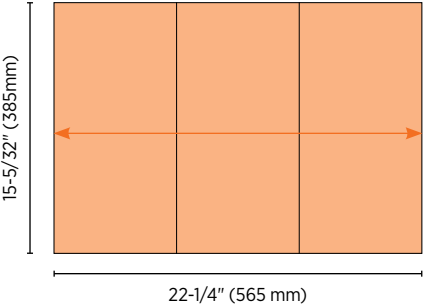


Option of fitting
1 pc of Series B Modular Kit &
1 pc of Series C Modular Kit



Option of fitting
1 pc of Series A Modular Kit

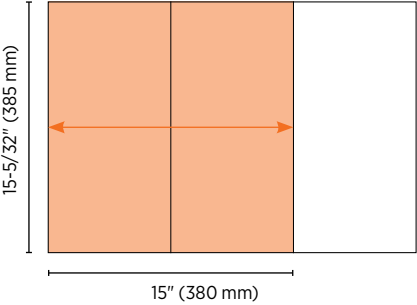
SERIES A - Full Size



QTY.	CONTENT OF TRAY	SIZE	IMAGE
CAT NR. KIT/MOD/11A ORD NR. 62511			
1 pc	Cat Bar	16"	
1 pc	Chisel	Blade Width: 1" (25 mm), Overall Length: 10" (250 mm)	
1 pc	Ball Pein Indestructible Handle Hammer	Head Weight: 24 oz. Handle Length: 14 "	
1 pc	Double Face Plastic Mallet	25 mm	
4 pcs	Pin Punch Set	1.5, 3, 4, 5 mm	
1 pc	Retra Knife		
1 pc	Hacksaw Frame	12" with Bi-metal Blade	
10 pcs	Bi-Metal Hacksaw Blade 8% Cobalt - HSS	12"	
CAT NR. KIT/MOD/13A ORD NR. 62513			
26 pcs	Deep Offset Combination Spanners	6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32 mm	
CAT NR. KIT/MOD/15A ORD NR. 62515			
1 pc	Adjustable Wrench	15"	
Set of 8 pcs	Tamper Torx Star Keys	T9, T10, T15, T20, T25, T27, T30, T40	
Set of 9 pcs	Hex Keys with Ball End - Extra Long - Metric	1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0, 10 mm	
1 pc	LED Flashlight with Telescopic Magnetic Pick Up		
1 pc	Professional Ratcheting Torque Wrench	Drive: 1/2"; Torque Range: 40 - 200 Nm	
CAT NR. KIT/MOD/19A ORD NR. 62519			
12 pcs	Ring Spanner Set	6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 30 x 32 mm	

CAT NR. KIT/MOD/35A ORD NR. 62535			
1 pc	1/2" Slim Line Ratchet Handle		
5 pcs	1/2" Hex Sockets - Deep	10, 14, 17, 19, 21 mm	
6 pcs	1/2" Spline Bit Socket	55mm length: M6, M8, M10; 100mm length: M8, M10, M12;	
9 pcs	1/2" Torx Bit Socket	T20, T25, T27, T30, T40, T45, T50, T55, T60	
8 pcs	1/2" Hex Bit Socket	5, 6, 7, 8, 10, 12, 14, 17 mm	
1 pc	Professional Ratcheting Torque Wrench	Drive: 1/2"; Torque Range: 40 - 200 Nm	
CAT NR. KIT/MOD/37A ORD NR. 62537			
22 pcs	1/2" Hex Sockets	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 30, 32 mm	
21 pcs	1/2" Hex Sockets - Deep	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28, 29, 30, 32 mm	
1 pc	1/2" Sliding T Handle		
1 pc	Professional Ratcheting Torque Wrench	Drive: 1/2", Torque Range: 40 - 200 Nm	
1 pc	1/2" Universal Joint		
2 pcs	1/2" Spark Plug Sockets	16 mm & 21 mm	
1 pc	1/2" Slim Line Ratchet Handle		
2 pcs	1/2" Extension Bars	5" & 10 "	
2 pcs	Socket Adaptors	1/2 F x 3/4 M, 1/2 F x 3/8 M	
CAT NR. KIT/MOD/40A ORD NR. 62540			
1 pc	Side Cutting Plier	7" (175 mm)	
1 pc	Long nose Plier	7" (175 mm)	
1 pc	Combination Plier	8" (200 mm)	
1 pc	Water Pump Plier	10" (250 mm)	
6 pcs	Flat Screwdrivers - Hex Shank	3 x 75, 4 x 100, 6.5 x 100, 6.5 x 150, 6.5 x 38, 8 x 150	
4 pcs	Phillips Screwdrivers - Hex Shank	PH1 x 75, PH2 x 100, PH2 x 38, PH3 x 150	
CAT NR. KIT/MOD/41A ORD NR. 62541			
22 pcs	1/2" Hex Sockets	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 30, 32 mm	
1 pc	1/2" Slim Line Ratchet Handle		
1 pc	1/2" Sliding T Handle		
2 pcs	1/2" Extension Bars	5" & 10 "	
1 pc	1/2" Universal Joint		
21 pcs	1/2" Hex Sockets - Deep	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28, 29, 30, 32 mm	
6 pcs	1/2" Spline Bit Sockets	55mm length: M6, M8, M10; 100mm length: M8, M10, M12;	
9 pcs	1/2" Torx Bit Sockets	T20, T25, T27, T30, T40, T45, T50, T55, T60	
8 pcs	1/2" Hex Bit Sockets	5, 6, 7, 8, 10, 12, 14, 17 mm	
CAT NR. KIT/MOD/42A ORD NR. 62542			
1 pc	Water Pump Plier	10" (250 mm)	
1 pc	Side Cutting Plier	7" (175 mm)	
1 pc	Long Nose Plier	7" (175 mm)	
1 pc	Combination Plier	8" (200 mm)	
1 pc	Self Locking Plier	10" (250 mm)	
1 pc	Circlip Plier - Bent External	7" (175 mm)	
1 pc	Circlip Plier - Bent Internal	7" (175 mm)	
1 pc	Circlip Plier - Straight External	7" (175 mm)	
1 pc	Circlip Plier - Straight Internal	7" (175 mm)	
1pc	End Nipper	6" (150 mm)	
1pc	Retra Knife		

SERIES B - 2/3 Size

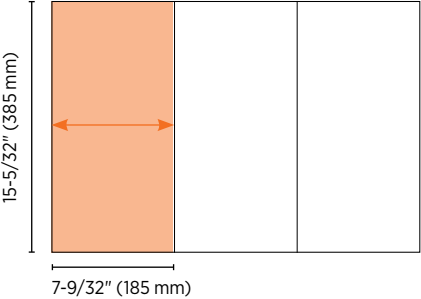


CAT NR. KIT/MOD/1B ORD NR. 62501			
22 pcs	1/2" Hex Sockets	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 30, 32 mm	
1 pc	1/2" Sliding T Bar		
2 pcs	1/2" Spark Plug Sockets	16 mm & 21 mm	
1 pc	1/2" Slim Line Ratchet Handle		
2 pcs	1/2" Extension Bars	5" & 10 "	
1 pc	1/2" Universal Joint		
2 pcs	Socket Adaptors	1/2 F x 3/4 M, 1/2 F x 3/8 M	
1 pc	1/2" Flex Handle / Power Bar		
CAT NR. KIT/MOD/9B ORD NR. 62509			
6 pcs	Flat Screwdrivers - Hex Shank	3 x 75, 4 x 100, 6.5 x 100, 6.5 x 150, 6.5 x 38, 8 x 150	
4 pcs	Phillips Screwdrivers - Hex Shank	PH1 x 75, PH2 x 100, PH2 x 38, PH3 x 150	
CAT NR. KIT/MOD/14B ORD NR. 62514			
Set of 9 pcs	Hex Keys with Ball End - Extra Long - Metric	1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0, 10 mm	
12 pcs	Double Open Ended Spanners	6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 30 x 32 mm	
5 pcs	Pin Punches - Heavy Duty	2.5, 3, 4, 5, 6 mm	
1 pc	Center Punch	6 mm	
CAT NR. KIT/MOD/16B ORD NR. 62516			
19 pcs	Deep Offset Combination Spanners	6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 mm	

CAT NR. KIT/MOD/25B ORD NR. 62525			
19 pcs	Deep Offset Combination Spanners	6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 mm	
1 pc	Self Locking Plier	10" (250 mm)	
Set of 7 pcs	Hex Keys With Ball End - Long - Metric	2.5, 3, 4, 5, 6, 8, 10 mm	
CAT NR. KIT/MOD/34B ORD NR. 62534			
1 pc	Side Cutting Plier	7" (175 mm)	
1 pc	Long nose Plier	8" (200 mm)	
1 pc	Combination Plier	8" (200 mm)	
1 pc	Water Pump Plier	10" (250 mm)	
CAT NR. KIT/MOD/36B ORD NR. 62536			
21 pcs	1/2" Hex Sockets - Deep	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28, 29, 30, 32 mm	
1 pc	1/2" Slim Line Ratchet Handle		
CAT NR. KIT/MOD/38B ORD NR. 62538			
13 pcs	1/4" Hex Sockets	4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 mm	
7 pcs	1/4" Hex Bit Sockets	3, 4, 5, 6, 7, 8, 10 mm	
3 pcs	1/4" Slotted Bit Sockets	4, 5.5, 7 mm	
3 pcs	1/4" Philips bit Sockets	PH1, PH2, PH3	
3 pcs	1/4" Pozi bit Sockets	PZ1, PZ2, PZ3	
8 pcs	1/4" Torx Bit Sockets	T8, T10, T15, T20, T25, T27, T30, T40	
1 pc	1/4" Slim Line Ratchet Handle		
2 pcs	1/4" Extension Bars	2" & 4"	
1 pc	1/4" Spinner Handle		
1 pc	1/4" Sliding T Bar		
1 pc	1/4" Universal Joint		
22 pcs	1/2" Hex Sockets	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 30, 32 mm	
1 pc	1/2" Slim Line Ratchet Handle		
2 pcs	1/2" Extension Bars	5" & 10 "	
2 pcs	1/2" Spark Plug Sockets	16 mm & 21 mm	
1 pc	1/2" Sliding T Handle		
2 pcs	Socket Adaptors	1/2 F x 3/4 M, 1/2 F x 3/8 M	
1 pc	1/2" Universal Joint		
Set of 9 pcs	Hex Keys with Ball End - Extra Long - Metric	1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0, 10 mm	

CAT NR. KIT/MOD/39B ORD NR. 62539			
22 pcs	1/2" Hex Sockets	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 30, 32 mm	
1 pc	1/2" Slim Line Ratchet Handle		
1 pc	1/2" Universal Joint		
1 pc	1/2" Sliding T Handle		
2 pcs	1/2" Extension Bars	5" & 10"	
2 pcs	1/2" Spark Plug Sockets	16 mm & 21 mm	
17 pcs	3/8" Hex Sockets	6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22 mm	
2 pcs	3/8" Extension Bars	3" & 6"	
1 pc	3/8" Sliding T Handle		
1 pc	3/8" Universal Joint		
2 pcs	Socket Adaptors	1/2 F x 3/4 M, 3/8 F x 1/4 M	

SERIES C - 1/3 Size



CAT NR. KIT/MOD/2C ORD NR. 62502			
Set of 7 pcs	Hex Keys With Ball End - Long - Metric	2.5, 3.0, 4.0, 5.0, 6.0, 8.0, 10.0 mm	
1 pc	Self Locking Plier	10" (250 mm)	

CAT NR. KIT/MOD/3C ORD NR. 62503			
1 pc	Circlip Plier - Bent External	6" (150 mm)	
1 pc	Circlip Plier - Bent Enternal	6" (150 mm)	
1 pc	Circlip Plier - Straight External	6" (150 mm)	
1 pc	Circlip Plier - Straight Internal	6" (150 mm)	

CAT NR. KIT/MOD/4C ORD NR. 62504			
1 pc	Water Pump Plier	10" (250 mm)	
1 pc	Self Locking Plier	10" (250 mm)	

CAT NR. KIT/MOD/6C ORD NR. 62506			
1 pc	Circlip Plier - Bent External	7" (175 mm)	
1 pc	Circlip Plier - Bent Internal	7" (175 mm)	
1 pc	Circlip Plier - Straight External	7" (175 mm)	
1 pc	Circlip Plier - Straight Internal	7" (175 mm)	

CAT NR. KIT/MOD/8C ORD NR. 62508			
13 pcs	1/4" Hex Sockets	4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 mm	
7 pcs	1/4" Hex Bit Sockets	3, 4, 5, 6, 7, 8, 10 mm	
3 pcs	1/4" Slotted Bit Sockets	4, 5.5, 7 mm	
3 pcs	1/4" Philips Bit Sockets	PH1, PH2, PH3	
3 pcs	1/4" Pozi Bit Sockets	PZ1, PZ2, PZ3	
8 pcs	1/4" Torx Bit Sockets	T8, T10, T15, T20, T25, T27, T30, T40	
9 pcs	1/4" Hex Sockets - Deep	5, 6, 7, 8, 9, 10, 11, 12, 13 mm	
1 pc	1/4" Slim Line Ratchet Handle		
3 pcs	1/4" Extension Bars	2", 4", 6"	
1 pc	1/4" Spinner Handle		
1 pc	1/4" Sliding T Bar		
1 pc	1/4" Universal Joint		

CAT NR. KIT/MOD/12C ORD NR. 62512			
12 pcs	Double Open Ended Spanners	6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 30 x 32 mm	

CAT NR. KIT/MOD/17C ORD NR. 62517			
1 pc	Side Cutting Plier	7" (175 mm)	
1 pc	Long Nose Plier	7" (175 mm)	
1 pc	Combination Plier	8" (200 mm)	

CAT NR. KIT/MOD/18C ORD NR. 62518			
Set of 9 pcs	Hex Keys with Ball End - Extra Long - Metric	1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0, 10 mm	
1 pc	Adjustable Wrench	10"	
1 pc	Rust Preventive Lubricant Spray - GO20	300 gms	
1 pc	Feeler Gauge	20 leaves, 150 mm	
CAT NR. KIT/MOD/21C ORD NR. 62521			
1 pc	1/2" L Handle		
1 pc	1/2" Slim Line Ratchet Handle		
5 pcs	1/2" Hex Sockets - Deep	10, 14, 17, 19, 22 mm	
CAT NR. KIT/MOD/22C ORD NR. 62522			
2 pcs	Flat Screwdrivers	6.5 x 100, 8 x 150	
2 pcs	Phillips Screwdrivers	PH1 x 75, PH2 x 100	
CAT NR. KIT/MOD/23C ORD NR. 62523			
22 pcs	1/2" Hex Sockets	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 30, 32 mm	
1 pc	1/2" Slim Line Ratchet Handle		
CAT NR. KIT/MOD/24C ORD NR. 62524			
1 pc	1/2" Sliding T Handle		
2 pcs	1/2" Extension Bars	5" & 10"	
1 pc	1/2" Universal Joint		
1 pc	1/2" Flex Handle / Power Bar		

CAT NR. KIT/MOD/26C ORD NR. 62526			
4 pcs	Flat Screwdrivers	3 x 75, 4 x 100, 6.5 x 100, 8 x 150	
2 pcs	Phillips Screwdrivers	PH2 x 100, PH3 x 150	
CAT NR. KIT/MOD/27C ORD NR. 62527			
1 pc	Side Cutting Plier	8" (200 mm)	
1 pc	Long Nose Plier	8" (200 mm)	
1 pc	Combination Plier	8" (200 mm)	
CAT NR. KIT/MOD/28C ORD NR. 62528			
5 pcs	Flat Screwdrivers - Hex Shank	3 x 75, 4 x 100, 6.5 x 100, 6.5 x 150, 8 x 150	
CAT NR. KIT/MOD/29C ORD NR. 62529			
1 pc	Flat Screwdriver - Hex Shank	6.5 x 38	
4 pcs	Phillips Screwdrivers - Hex Shank	PH1 x 75, PH2 x 38, PH2 x 100, PH3 x 150	
CAT NR. KIT/MOD/30C ORD NR. 62530			
8 pcs	Ring Spanner Set	6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22 mm	

CAT NR. KIT/MOD/31C ORD NR. 62531			
22 pcs	1/2" Hex Sockets	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 30, 32 mm	
1 pc	1/2" Slim Line Ratchet Handle		
2 pcs	1/2" Extension Bars	5" & 10 "	
1 pc	1/2" Universal Joint		
1 pc	1/2" Sliding T Bar		
CAT NR. KIT/MOD/32C ORD NR. 62532			
1 pc	Adjustable Wrench	10"	
1 pc	Water Pump Plier	10" (250 mm)	
1 pc	Tape Measure	Length - 5m, Width - 19 mm	
CAT NR. KIT/MOD/33C ORD NR. 62533			
1 pc	Ball Pein Hickory Wood Handle Hammer	Handle Length - 16"	
4 pcs	Pin Punches	1.5, 3, 4, 5 mm	
3 pcs	Octagonal Cold Chisels	Blade Width-6 mm, Overall Length-100, 125, 150 mm	
1 pc	Double Face Plastic Mallet	25 mm	

50

Aluminium Tool Box

MTB/5/AL

- ✓

Ultra Safe
- ✓

Ultra Light
- ✓

Super Strong
- ✓

Weather Proof
- ✓

Rust Proof
- ✓

Dent Proof
- ✓

Theft Proof

Full aluminium die cast construction super light yet strong and sturdy

No spot welds

No over lapping compartments

Full spread visibility

Cast-In lid hinges with non-removable pins

Extra large size for holding a whole lot of tools

Attractive powder coated finish

Lockable: Keeps contents safe

LOAD
CAPACITY

50 KG
(110 LBS)

CAT NR.	ORD NR.	DIMENSIONS		WEIGHT (KG)
		(INCH)	(MM)	
MTB/5/AL	40004	18.1 X 9.45 X 8.66	460 X 240 X 220	6.7

*Tools not included

Comprehensive Mechanic's
Tool Kit comes in an
Aluminium Tool Box
(MTB/5/AL)

Size of Tool Box:
18.1" x 9.45" x 8.66"
(460 x 240 x 220 mm)

Ideal for general purpose
repair use in automotive
workshops, garages &
service centres

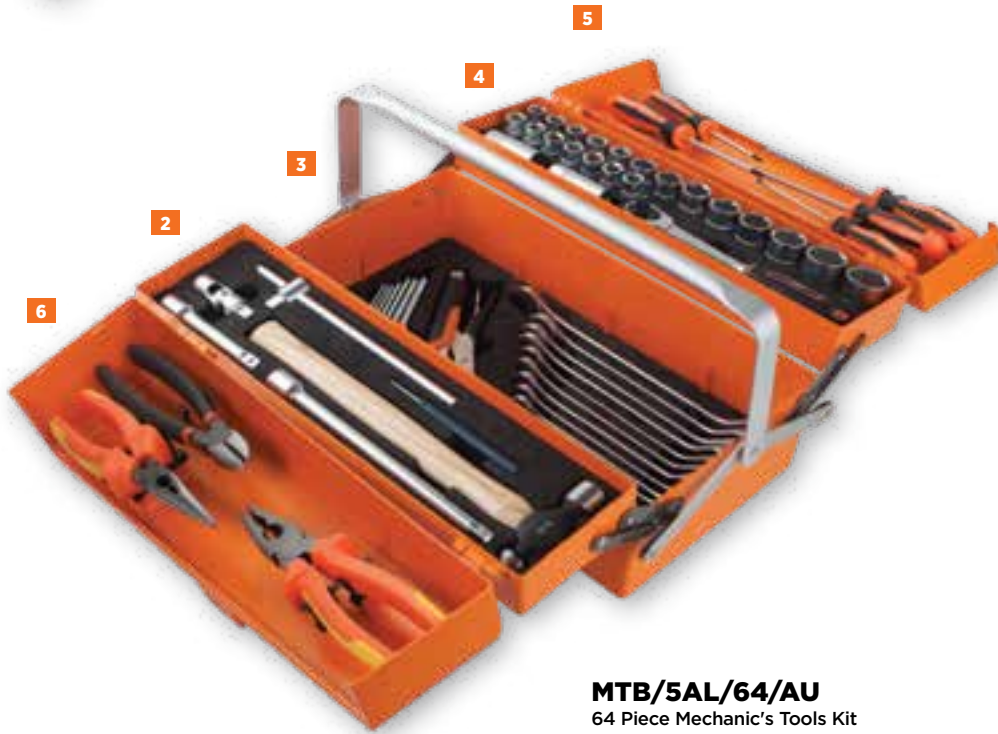
Heavy duty die cast
aluminium tool box for
increased durability

NEW!

	QTY	CONTENTS OF TRAY	SIZE	IMAGE
TRAY 1	2 pcs	Philips Screwdriver	Ph 2x38 mm, Ph 3x150 mm	
	3 pcs	Slotted Screwdriver	6.5x38 mm, 3x75 mm, 6.5x150 mm	
TRAY 2	2 pcs	1/2" Extension Bars	125 & 250 mm (5" & 10")	
	1 pc	1/2" Universal Joint		
	1 pc	1/2" Sliding T Bar		
	1 pc	Heavy Duty Pin Punch	1/4" (6 mm)	
	1 pc	Ball Pein Hammer - Hickory Wood	16 oz. (456 gms)	
TRAY 3	18 pcs	Deep Offset Combination Spanners	6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24 mm	
	Set of 7 pc	Hex Key Set with Ball End - Long - Metric	2.5, 3, 4, 5, 6, 8, 10 mm	
	1 pc	Locking Plier	250 mm (10")	
TRAY 4	20 pcs	1/2" Hex Sockets	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32 mm	
	1 pc	1/2" Ratchet Handle		
	2 pcs	1/2" Spark Plug Socket	16 & 21 mm	
TRAY 5	2 pcs	Philips Screwdriver	Ph 1x75 mm, Ph 2x100 mm	
	3 pcs	Slotted Screwdriver	4x100 mm, 6.5x100 mm, 8x150 mm	
TRAY 6	1 pc	Long Nose Plier	8" (200 mm)	
	1 pc	Combination Plier	8" (200 mm)	
	1 pc	Side Cutting Plier	8" (200 mm)	



MTB/5AL/66/AU
65 Piece Mechanic's Tools Kit



MTB/5AL/64/AU
64 Piece Mechanic's Tools Kit

ORDERING INFORMATION

CAT NR.	ORD NR.	CONTENTS
MTB/5AL/66/AU	40056	Tray 1, 2, 3, 4, 5
MTB/5AL/64/AU	40058	Tray 2, 3, 4, 5, 6

52

5 Tray Cantilever Tool Box

MTB-5

General purpose cantilever tool box

Manufactured from heavy gauge steel sheet

Corrosion resistant powder coated finish

Full spread cantilever mechanism gives quick & easy access to all stored parts

Trays open automatically when handle is depressed & close when lifted

Lid incorporates provision for padlock

Load Capacity:
35 kg (77 lbs)

Also available with 4 wheel trolley made from heavy gauge steel sheet. Heavy duty castors for convenient movement in the workshop/ garage



MTB/5



MTB/5T

Full spread cantilever mechanism



ORDERING INFORMATION

CAT NR.	ORD NR.	DESCRIPTION	TOOL BOX DIMENSIONS	
			(INCH)	(MM)
MTB/5	40002	Tool Box	17-5/16 x 7-7/8 x 7-7/8	440 x 200 x 200
MTB/5T	40003	Tool Box with Trolley		

53

5 Tray Cantilever Tool Box with Tools

MTB-5-AU

NEW!

84 pcs tool assortment in metric sizes for use in automotive workshops & service stations

Tool box manufactured from heave gauge steel sheet

Rugged construction to withstand repeated use in tough conditions



QTY.	CONTENT	SIZE
1 Set	Hexagon Key Set (set of 9 pcs)	With Ball End - Extra Long - Metric - 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0, 10 mm
12 pcs	Double Open End Spanner Set	6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 30 x 32
12 pcs	Ring Spanner Set	6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 30 x 32
4 pcs	Pin Punch Set	1.5, 2.5, 3, 4 mm
2 pcs	Flat Screwdriver	6.5 x 125 mm; 8 x 150 mm
2 pcs	Philips Screwdriver	1 x 80 mm; 2 x 100 mm
1 pc	Side Cutting Plier	7" (175 mm)
1 pc	Long Nose Plier	7" (175 mm)
1 pc	Combination Plier	8" (200 mm)
1 pc	Circlip Plier - Bent External	6" (150mm)
1 pc	Circlip Plier - Bent Internal	6" (150mm)
1 pc	Circlip Plier - Straight External	6" (150mm)
1 pc	Circlip Plier - Straight Internal	6" (150mm)
1 pc	Ball Pein Hammer	Head weight - 24oz., Handle length- 14"
1 pc	Plastic Mallet	25mm

QTY.	CONTENT	SIZE
1 pc	Chisel	Blade Width - 1"(25 mm) , Overall Length - 10" (250 mm)
1 pc	Cat Bar	16" (400 mm)
1 pc	Hacksaw frame	12" with Bi-Metal Blade
17 pcs	1/2" Hex Socket	8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24, 27, 30, 32 mm
5 pcs	1/2" Hex Socket - Deep	10, 14, 17, 19, 22 mm
1 pc	1/2" Ratchet handle	
1 pc	1/2" Sliding T Bar	
1 pc	1/2" L Handle	
2 pcs	1/2" Universal Joint	
2 pcs	1/2" Extension Bar	5" & 10"
2 pcs	1/2" Spark Plug Socket	16 mm & 21 mm
2 pcs	Socket Adaptors	1/2 F x 3/4 M, 1/2 F x 3/8 M
1 pc	Feeler Gauge	20 leaves, 150 mm
1 pc	Adjustable Wrench	10" (250 mm)
1 pc	Water Pump Plier	10" (250 mm)
1 pc	Locking Plier	10" (250 mm)
1 pc	Rust Preventive Lubricant Spray - GO20	300 gms
1 pc	Retra Knife	
1 pc	5 Tray Cantilever Tool Box	

ORDERING INFORMATION

CAT NR.	ORD NR.
MTB/5/84/AU	40053

54

Nylon Tool Bags

- NTB-1
- NTB-2
- NTB-3

Durable, high quality water and abrasion resistant denier polyester tool bags. Double layered construction for enhanced durability.

Wide opening for easy access to contents

Easy pull heavy duty zipper

Handle stitching area reinforced for maximum durability

Rigid and waterproof base with TPR knobs to prevent damage from floor

Shoulder strap with cushioned rubber reinforcement on shoulder level

Tools not included

NEW!



NTB-1
Large



NTB-2
X-Large



NTB-3
Medium

ORDERING INFORMATION

CAT NR.	ORD NR.	LOAD CAPACITY		DIMENSIONS		SIZE
		(KG)	(LBS)	(INCH)	(MM)	
NTB/1	33510	30	66	16.5 × 10.2 × 11.8	420 × 260 × 300	Large
NTB/2	33511	60	132	17.9 × 11.0 × 11.8	455 × 280 × 300	X-Large
NTB/3	33512	10	22	12 × 9 × 5.5	300 × 225 × 140	Medium

55

Back Pack

- NTB-4

Durable, high density denier fabric bag pack with foam lined back. Water and moisture proof keeping contents safe

Multiple pockets and division for organized tooling

Safe and secure laptop and A4 document compartment

Cushioned shoulder straps for ergonomic and convenient carriage

Dual zipper closure enables opening from both ends

Rigid Form: Can stand in open position enabling easy access to all contents

Comes with additional layer of waterproof covering to keep back pack safe against rain & water

NEW!



* Contents not included

ORDERING INFORMATION

CAT NR.	ORD NR.	DIMENSIONS (LxDxW)	
		(INCH)	(MM)
NTB/4	33513	19.2 × 13.7 × 16.9	490 × 350 × 430

SPANNERS & WRENCHES

56

Reversible Ratcheting Spanners

CSP-RRT

GROZ Reversible Ratcheting Spanners designed for high torque applications with outstanding quality & performance

72 teeth, strong gear ratcheting ring with 5° arc for smooth movement

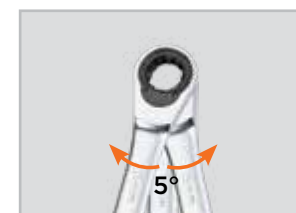
Ratcheting ring feature allows increased working speed, eliminating the need to remove the spanner from the fastener after each turn

Narrow and thin head, combined with fine gear tooth design makes the Ratcheting Spanner suitable for working in tight and hard to access areas where a ratchet and socket will not fit.

Reversible lever to change the action direction

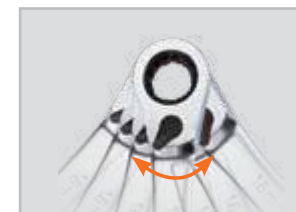
15° offset at ring end, makes it easy to gain access to the fasteners and achieve high leverage

Chrome plated for corrosion protection with ultra premium finish for scratch proof surface



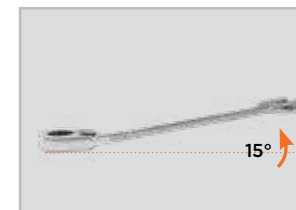
72 Teeth with 5 degree action arc:

Provide extreme high torque for professional users



Reversible Lever:

Makes it easy to switch the action direction



Higher Accessibility:

Offset at the ring end with 15° angle for easier access & higher leverage

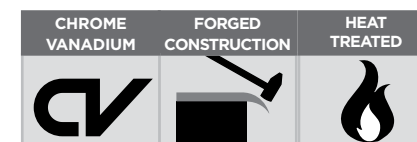


CSS/RRT/7ST/UG

Reversible Lever

72 Teeth Ratchet

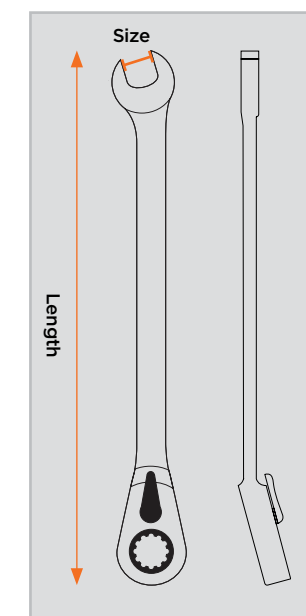
Bi-hex profile: Grips the fastener better



ORDERING INFORMATION

CAT NR.	ORD. NR.	SIZE	LENGTH		WEIGHT
		(MM)	(INCH)	(MM)	(GMS)
*CSP/RRT/8/UG	33802	8	5 - 1/2	140	40
*CSP/RRT/10/UG	33804	10	6 - 5/16	160	55
*CSP/RRT/12/UG	33806	12	6 - 11/16	170	80
*CSP/RRT/13/UG	33807	13	7 - 3/32	180	95
*CSP/RRT/14/UG	33808	14	7 - 1/2	190	110
*CSP/RRT/17/UG	33811	17	9	225	180
*CSP/RRT/19/UG	33813	19	9 - 5/8	245	235
SET					
CSS/RRT/7ST/UG	33850	7 pc set: 8, 10, 12, 13, 14, 17, 19 mm			

* Best Seller



Conforms to DIN 3110

Cold stamped from chrome
vanadium 31 CRV3 Steel

Fully heat treated to 44-48
HRC for increased work life

Elliptical pattern spanners

Rust proof matte finish

Size laser etched on both
ends for easy identification

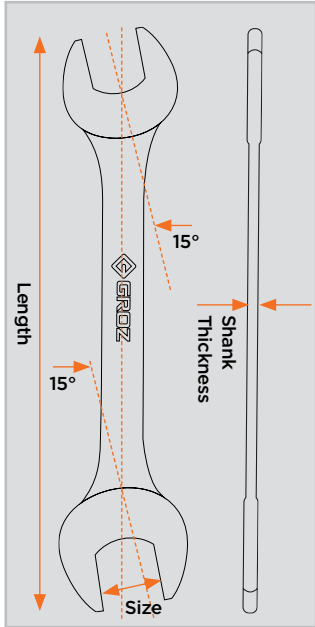
Available as loose or in sets
in metric sizes

CHROME VANADIUM	HEAT TREATED BODY	CONFORMS TO
	 44-48 HRC	DIN 3110

ORDERING INFORMATION

CAT NR.	ORD NR.	SIZE	LENGTH		SHANK THICKNESS	WEIGHT
		(MM)	(INCH)	(MM)	(MM)	(GMS)
*DOSP/SF/6-7/S	34250	6 x 7	5	126	2.60	25
*DOSP/SF/8-9/S	34252	8 x 9	5 - 19/32	142	2.60	35
DOSP/SF/8-10/S	34251	8 x 10	5 - 19/32	142	2.6	35
*DOSP/SF/10-11/S	34253	10 x 11	6 - 3/16	157	3	50
DOSP/SF/10-12/S	34254	10 x 12	6 - 3/16	157	3	50
*DOSP/SF/12-13/S	34255	12 x 13	6 - 11/16	170	3.3	70
*DOSP/SF/14-15/S	34256	14 x 15	7 - 3/8	187	3.6	95
DOSP/SF/14-17/S	34257	14 x 17	8	202	3.8	110
*DOSP/SF/16-17/S	34258	16 x 17	8	202	4	120
*DOSP/SF/18-19/S	34259	18 x 19	8 - 21/32	220	4	170
DOSP/SF/19-22/S	34260	19 x 22	9 - 1/8	232	4.4	210
*DOSP/SF/20-22/S	34261	20 x 22	9 - 1/8	232	4.4	210
DOSP/SF/21-23/S	34262	21 x 23	9 - 11/16	246	4.9	250
DOSP/SF/24-27/S	34263	24 x 27	10 - 7/16	265	5.3	330
DOSP/SF/25-28/S	34264	25 x 28	10 - 27/32	275	5.8	380
DOSP/SF/27-32/S	34265	27 x 32	11 - 19/32	295	5.7	425
DOSP/SF/30-32/S	34266	30 x 32	11 - 23/32	298	6.2	480
DOSP/SF/32-36/S	34267	32 x 36	12 - 13/32	315	7.2	680
DOSP/SF/36-41/S	34268	36 x 41	14	355	7.7	770
DOSP/SF/41-46/S	34269	41 x 46	16 - 11/32	415	10.7	1485
DOSP/SF/46-50/S	34270	46 x 50	18 - 3/32	460	11.5	1900
SETS						
*DOSS/SF/8/S/ST	34242	8 pc Metric Set, 6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22 mm				
DOSS/SF/12/S/ST	34243	12 pc Metric Set, 6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 30 x 32 mm				

* Best Seller



Ring spanners have an elliptical
pattern & are cold stamped from
chrome vanadium (31CrV3) steel

Conform to DIN 838

Spanners feature super drive
broach reducing corner rounding
& applying more torque

Fully heat treated to 42-48 HRC
for increased work life

Rust proof matte finish

Size laser etched on both ends for
easy identification

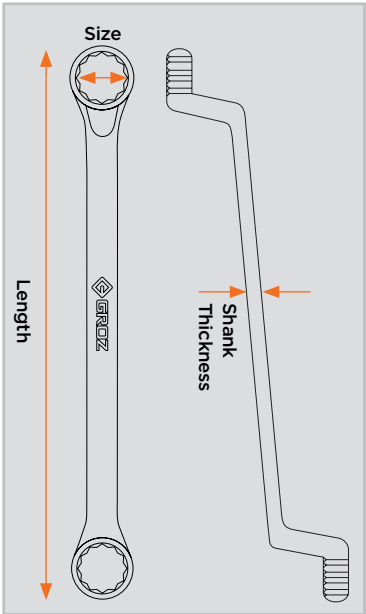
Available as loose or in sets in
metric sizes

CHROME VANADIUM	HEAT TREATED BODY	CONFORMS TO
	 42-48 HRC	DIN 838

ORDERING INFORMATION

CAT NR.	ORD NR.	SIZE	LENGTH		SHANK THICKNESS	WEIGHT
		(MM)	(INCH)	(MM)	(MM)	(GMS)
*RSP/SF/6-7/S	34350	6 x 7	6 - 7/8	175	4.4	55
*RSP/SF/8-9/S	34352	8 x 9	7 - 9/32	185	4.5	70
RSP/SF/8-10/S	34351	8 x 10	7 - 9/32	185	4.5	70
*RSP/SF/10-11/S	34353	10 x 11	7 - 13/16	198	5.2	90
RSP/SF/10-12/S	34354	10 x 12	7 - 13/16	198	5.2	90
*RSP/SF/12-13/S	34355	12 x 13	8 - 7/16	215	5.4	115
*RSP/SF/14-15/S	34356	14 x 15	9	228	5.6	150
RSP/SF/14-17/S	34357	14 x 17	9 - 7/16	240	6.2	310
*RSP/SF/16-17/S	34358	16 x 17	9 - 11/16	246	6.2	190
*RSP/SF/18-19/S	34359	18 x 19	10 - 9/16	268	6.4	235
RSP/SF/19-22/S	34360	19 x 22	11 - 1/2	292	6.9	315
*RSP/SF/20-22/S	34361	20 x 22	11 - 1/2	292	6.9	315
RSP/SF/21-23/S	34362	21 x 23	12 - 13/32	315	7.1	350
RSP/SF/24-27/S	34363	24 x 27	13	328	7.6	450
RSP/SF/25-28/S	34364	25 x 28	13 - 7/16	342	7.8	500
RSP/SF/27-32/S	34365	27 x 32	15	380	8.4	630
RSP/SF/30-32/S	34366	30 x 32	14 - 9/16	370	8.8	630
RSP/SF/36-41/S	34367	36 x 41	18 - 3/32	460	10.3	1050
SETS						
*RSS/SF/8/S/ST	34342	8 pc Metric Set, 6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22 mm				
RSS/SF/12/S/ST	34343	12 pc Metric Set, 6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 30 x 32 mm				

* Best Seller



59

Combination
Spanners / Wrenches

CSP-DIN

Conforms to DIN 3113A

Combination spanners
also referred to
combination wrenches
are cold stamped from
chrome vanadium
(31CrV3) steel

Fully heat treated to
42-48 HRC for increased
work life

Wrenches feature a super
drive broach reducing
corner rounding &
applying more torque

15° Offset - optimal for
most applications

Size stamped on
both ends for easy
identification

Available as loose or in
sets in both metric & SAE
sizes

CHROME
VANADIUM

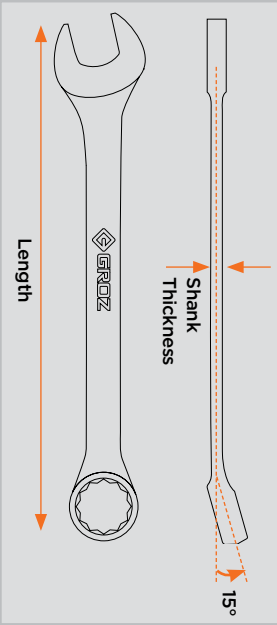
HEAT TREATED
BODY

CONFORMS
TO



 42-48
HRC

DIN 3113A



Satin Finish
Combination Spanners



Mirror Finish Combination
Wrenches (US Pattern -
Heavy Profile)

ORDERING INFORMATION

CAT NR.	ORD NR.	SIZE	LENGTH		SHANK THICKNESS	WT.
		(MM)	(INCH)	(MM)	(MM)	(GMS)
SATIN FINISH COMBINATION SPANNERS						
CSP/DIN/6G	34000	6	4	100	2.6	20
CSP/DIN/7G	34001	7	4 - 5/16	110	2.8	25
★CSP/DIN/8G	34002	8	4 - 17/32	115	3.0	30
CSP/DIN/9G	34003	9	5	125	3.3	35
★CSP/DIN/10G	34004	10	5 - 5/16	135	3.4	40
CSP/DIN/11G	34005	11	5 - 3/32	145	3.5	45
★CSP/DIN/12G	34006	12	6 - 3/32	155	3.7	60
★CSP/DIN/13G	34007	13	6 - 1/2	165	4.1	70
★CSP/DIN/14G	34008	14	6 - 23/32	171	4.3	85
CSP/DIN/15G	34009	15	7 - 9/32	185	4.4	95
CSP/DIN/16G	34010	16	7 - 21/32	195	4.4	115
★CSP/DIN/17G	34011	17	8 - 1/4	210	4.4	135
CSP/DIN/18G	34012	18	8 - 21/32	220	4.8	155
★CSP/DIN/19G	34013	19	9	230	4.9	165
CSP/DIN/20G	34014	20	9 - 7/16	240	5.0	185
CSP/DIN/21G	34015	21	9 - 5/8	245	5.1	210
CSP/DIN/22G	34016	22	9 - 25/32	248	5.4	220
CSP/DIN/23G	34017	23	10 - 1/14	260	5.5	245
★CSP/DIN/24G	34018	24	10 - 5/8	270	5.6	280
CSP/DIN/25G	34019	25	11 - 3/32	282	5.9	295
CSP/DIN/26G	34020	26	11 - 13/32	290	6.0	320
CSP/DIN/27G	34021	27	12	300	6.2	380
CSP/DIN/28G	34022	28	12 - 7/32	310	6.3	410
CSP/DIN/29G	34023	29	13	330	6.8	460
CSP/DIN/30G	34024	30	13	330	6.8	490
CSP/DIN/32G	34025	32	13 - 25/32	350	7.5	600
CSP/DIN/33G	34026	33	14 - 29/32	380	7.6	730
CSP/DIN/34G	34027	34	14 - 29/32	380	7.6	730
CSP/DIN/35G	34028	35	14 - 29/32	380	7.6	730
CSP/DIN/36G	34029	36	16	400	7.8	900
CSP/DIN/38G	34030	38	16	400	7.8	900
CSP/DIN/41G	34031	41	17 - 13/16	452	8.3	1200
CSP/DIN/46G	34032	46	19 - 9/16	497	10.6	1680
CSP/DIN/50G	34033	50	21 - 1/4	540	11.5	2000
SETS						
CSS/DIN/12G/ST	34040	12 pc Metric Set, Sizes: 6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 19, 22 mm				
CSS/DIN/14G/ST	34041	14 pc Metric Set, Sizes: 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19, 21, 22, 24 mm				

★ Best Seller

Combination
Spanners / Wrenches (continued)

ORDERING INFORMATION

CAT NR.	ORD NR.	SIZE	CAT NR.	ORD NR.	SIZE	LENGTH		SHANK THICKNESS	WT.
		(MM)			(INCH)	(INCH)	(MM)		
MIRROR FINISH COMBINATION WRENCHES (US PATTERN - HEAVY PROFILE)									
CSP/FP/6	34045	6	CSP/FP/1-4	34071	1/4	4 - 7/8	124	3.0	21
CSP/FP/7	34046	7				5 - 1/32	129	3.0	23
CSP/FP/8	34047	8	CSP/FP/5-16	34072	5/16	5 - 5/16	136	3.2	30
CSP/FP/9	34048	9	CSP/FP/3-8	34073	3/8	5 - 13/16	149	3.5	44
CSP/FP/10	34049	10				6 - 5/16	161	4.2	58
CSP/FP/11	34050	11	CSP/FP/7-16	34074	7/16	6 - 19/32	168	4.3	61
CSP/FP/12	34051	12				6 - 27/32	174	4.8	77
CSP/FP/13	34052	13	CSP/FP/1-2	34075	1/2	7 - 3/32	180	4.9	83
CSP/FP/14	34053	14	CSP/FP/9-16	34076	9/16	7 - 9/16	193	5.4	112
CSP/FP/15	34054	15				8	200	5.3	116
CSP/FP/16	34055	16	CSP/FP/5-8	34077	5/8	8 - 1/8	207	5.5	125
CSP/FP/17	34056	17	CSP/FP/11-16	34078	11/16	9	227	6.2	178
CSP/FP/18	34057	18				9 - 13/32	239	6.4	186
CSP/FP/19	34058	19	CSP/FP/3-4	34079	3/4	10	250	7.0	235
CSP/FP/20	34059	20				10 - 1/4	260	7.0	245
CSP/FP/21	34060	21	CSP/FP/13-16	34080	13/16	10 - 21/32	271	7.2	280
CSP/FP/22	34061	22	CSP/FP/7-8	34081	7/8	11 - 19/32	295	7.6	335
CSP/FP/23	34062	23				11 - 19/32	295	7.6	335
CSP/FP/24	34063	24	CSP/FP/15-16	34082	15/16	12 - 19/32	317	8.0	390
CSP/FP/25	34064	25	CSP/FP/0-1	34083	1	13 - 11/32	339	8.35	480
CSP/FP/26	34065	26				13 - 11/32	339	8.35	480
CSP/FP/27	34066	27	CSP/FP/1-1-16	34084	1-1/16	14 - 1/4	362	9.0	555
CSP/FP/28	34067	28	CSP/FP/1-1-8	34085	1-1/8	15 - 1/2	394	9.3	695
CSP/FP/29	34068	29				15 - 1/2	394	9.3	745
CSP/FP/30	34069	30				15 - 1/2	394	9.3	775
CSP/FP/32	34070	32	CSP/FP/1-1-4	34086	1-1/4	16 - 7/8	429	9.9	860
SETS									
CSS/FP/15/ST	34092	15 pc Metric Set, Sizes: 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22 mm							
CSS/FP/14-SAE/ST	34093	14 pc SAE Set, Sizes: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1-1/16", 1-1/8", 1-1/4"							
CSS/FP/16-SAE/ST	34094	16 pc SAE Set, Sizes: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1-1/16", 1-1/8", 1-1/4"							
CSS/FP/22-SM/ST	34095	22 pc SAE + Metric Set, SAE Sizes: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"; Metric Sizes: 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 mm							

60

Deep Offset
Combination Spanners

CSP-OF

Conforms to DIN 3113B

Offset combination spanners are cold stamped from Chrome Vanadium (31CrV3) steel

Fully heat treated to 42-48 HRC for increased work life

Wrenches feature a super drive broach reducing corner rounding & applying more torque

Elliptical pattern wrenches have a rust proof satin finish

Size stamped on both ends for easy identification

Available as loose or in sets

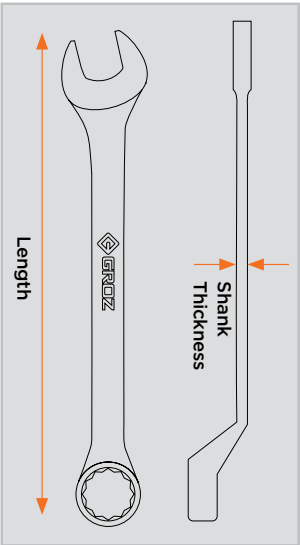
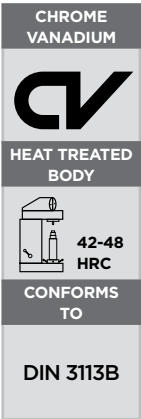


ORDERING INFORMATION

CAT NR.	ORD NR.	SIZE	LENGTH		SHANK THICKNESS	WT.
		(MM)	(INCH)	(MM)		
CSP/OF/SF/6G	34150	6	4	100	2.5	20
CSP/OF/SF/7G	34151	7	4 - 11/32	110	2.6	25
★CSP/OF/SF/8G	34152	8	4 - 23/32	120	2.9	30
★CSP/OF/SF/9G	34153	9	5 - 1/8	130	3.2	35
★CSP/OF/SF/10G	34154	10	6 - 3/32	155	3.2	50
CSP/OF/SF/11G	34155	11	6 - 3/8	162	3.5	60
★CSP/OF/SF/12G	34156	12	6 - 11/16	170	3.5	70
★CSP/OF/SF/13G	34157	13	7	178	4.0	85
★CSP/OF/SF/14G	34158	14	7 - 9/16	192	4.0	100
CSP/OF/SF/15G	34159	15	8 - 1/4	210	4.2	110
CSP/OF/SF/16G	34160	16	8 - 21/32	220	4.5	125
★CSP/OF/SF/17G	34161	17	9	226	4.5	145
CSP/OF/SF/18G	34162	18	9 - 7/16	240	4.6	165
★CSP/OF/SF/19G	34163	19	9 - 11/16	246	5.1	195
CSP/OF/SF/20G	34164	20	10 - 1/4	260	5.7	245
CSP/OF/SF/21G	34165	21	10 - 5/8	270	5.7	270
CSP/OF/SF/22G	34166	22	11	275	5.7	280
CSP/OF/SF/23G	34167	23	13 - 3/8	320	5.8	340
★CSP/OF/SF/24G	34168	24	13 - 3/8	320	5.8	340
CSP/OF/SF/25G	34169	25	16 - 1/2	343	5.9	420
CSP/OF/SF/26G	34170	26	16 - 1/2	343	6.4	420
CSP/OF/SF/27G	34171	27	20 - 1/2	370	6.4	520
CSP/OF/SF/28G	34172	28	20 - 1/2	370	6.4	520
CSP/OF/SF/29G	34173	29	26 - 3/8	395	6.4	670
CSP/OF/SF/30G	34174	30	26 - 3/8	395	6.4	670
CSP/OF/SF/32G	34175	32	30 - 1/2	418	6.5	775
JUMBO SIZES						
CSP/OF/SF/33G	34176	33	17	430	6.8	780
CSP/OF/SF/34G	34177	34	17	430	6.8	780
CSP/OF/SF/36G	34178	36	17-23/32	450	7.5	855
CSP/OF/SF/38G	34147	38	18-1/8	460	7.7	1081
CSP/OF/SF/41G	34179	41	19-3/32	485	7.8	1150
CSP/OF/SF/46G	34149	46	20-9/32	515	8.7	1480

CAT NR.	ORD NR.	SIZE
SETS		
CSS/OF/17G/ST	34184	17 pc Metric Set: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 17, 19, 20, 21, 22 mm
CSS/OF/18G/ST	34185	18 pc Metric Set: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 17, 19, 20, 21, 22, 24 mm
CSS/OF/26G/ST	34186	26 pc Metric Set: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32 mm

★ Best Seller



Acc DIN 7444

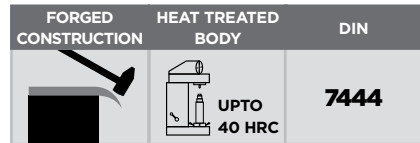
Forged from special manganese steel for higher strength as compared to conventional slogging wrenches

Accurately hardened & tempered upto 40 HRC for higher strength & durability

One end is shaped to fit a nut and the other is enlarged to receive blows from a hammer. The shock of the impact is useful in breaking rust/ paint

Phosphating on surface ensures no chipping off during hammering and also resists corrosion

Ideal for use in ship maintenance, mining, piping and other similar industrial applications



ORDERING INFORMATION

CAT NR.	ORD NR.	SIZE (MM)
RSW/22P/G	31827	22
RSW/24P/G	31828	24
★RSW/27P/G	31829	27
★RSW/30P/G	31830	30
RSW/32P/G	31831	32
RSW/34P/G	31832	34
★RSW/36P/G	31833	36
RSW/38P/G	31834	38
★RSW/41P/G	31835	41
RSW/46P/G	31836	46
RSW/50P/G	31837	50
RSW/55P/G	31838	55
RSW/60P/G	31839	60
RSW/65P/G	31840	65
RSW/70P/G	31841	70
RSW/75P/G	31842	75
RSW/80P/G	31843	80
RSW/85P/G	31844	85
RSW/90P/G	31845	90
RSW/95P/G	31846	95

★ Best Seller

NEW!



Super Grip Profile: GROZ Ring Slogging Wrenches incorporate the super grip profile that features round points facilitating contact between ring & fastener wall, keeping pressure off the corners. The GROZ Super grip profile helps deliver more torque & provides better grip even on fasteners rounded up to 50%

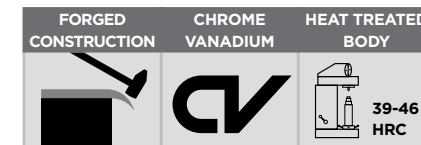
Forged from Chrome Vanadium Steel, hardened 39-46 HRC and tempered

Used for tightening and slackening large nuts & bolts in ship maintenance, mining, piping and other similar industrial applications.

One end is shaped to fit a nut and the other is enlarged to receive blows from a hammer. The shock of the impact is useful in breaking rust/ paint

These are available in 2 types:

- Ring Slogging Wrenches
- Open Jaw Slogging Wrenches



ORDERING INFORMATION

CAT. NR.	ORD NR.	SIZE (MM)
RING SLOGGING WRENCHES - METRIC		
RSW/22	31825	22
RSW/24	31800	24
★RSW/27	31801	27
★RSW/30	31802	30
RSW/32	31803	32
RSW/34	31804	34
★RSW/36	31805	36
RSW/38	31806	38
★RSW/41	31807	41
RSW/42	31814	42
RSW/46	31808	46
RSW/50	31809	50
RSW/55	31810	55
RSW/60	31811	60
RSW/65	31812	65
RSW/70	31813	70
RSW/75	31815	75
RSW/80	31816	80
RSW/85	31817	85
RSW/90	31818	90
RSW/95	31819	95
■ RSW/100	31820	100
■ RSW/105	31821	105
■ RSW/110	31822	110
■ RSW/115	31823	115
■ RSW/120	31824	120

★ Best Seller

■ Made to Order



Ring Slogging Wrenches

Open Jaw Slogging Wrenches

CAT. NR.	ORD NR.	SIZE (INCH)
RING SLOGGING WRENCHES - IMPERIAL		
◆RSW/1-1-16	31877	1-1/16
◆RSW/1-1-8	31878	1-1/8
◆RSW/1-1-4	31879	1-1/4
◆RSW/1-3-8	31880	1-3/8
◆RSW/1-7-16	31881	1-7/16
◆RSW/1-1-2	31882	1-1/2
◆RSW/1-5-8	31883	1-5/8
◆RSW/1-3-4	31884	1-3/4
◆RSW/1-13-16	31885	1-13/16
◆RSW/1-7-8	31886	1-7/8
◆RSW/2	31887	2
◆RSW/2-1-16	31888	2-1/16
◆RSW/2-1-8	31889	2-1/8
◆RSW/2-3-16	31890	2-3/16
◆RSW/2-1-4	31891	2-1/4
◆RSW/2-3-8	31892	2-3/8
◆RSW/2-1-2	31893	2-1/2
◆RSW/2-9-16	31894	2-9/16
◆RSW/2-5-8	31895	2-5/8
◆RSW/2-3-4	31896	2-3/4
◆RSW/2-15-16	31897	2-15/16
◆RSW/3	31898	3

◆ New

CAT. NR.	ORD NR.	SIZE (MM)
OPEN JAW SLOGGING WRENCHES		
OSW/22	31850	22
OSW/24	31851	24
OSW/27	31852	27
OSW/30	31853	30
OSW/32	31854	32
OSW/34	31855	34
OSW/36	31856	36
OSW/38	31857	38
OSW/41	31858	41
OSW/42	31875	42
OSW/46	31859	46
OSW/50	31860	50
OSW/55	31861	55
OSW/60	31862	60
OSW/65	31863	65
OSW/70	31864	70
OSW/75	31865	75
OSW/80	31866	80
OSW/85	31867	85
OSW/90	31868	90
OSW/95	31869	95
■ OSW/100	31870	100
■ OSW/105	31871	105
■ OSW/110	31872	110
■ OSW/115	31873	115
■ OSW/120	31874	120

63 Box Spanners (Box Wrenches)

Manufactured from high quality steel tubing, these double ended box wrenches have a different socket size on each end.

Thin and long body allows these to be used to loosen or tighten nuts and bolts in narrow, recessed areas.

Box wrenches are used with tommy bars which is passed through the holes provided in the sides of the wrench. Supplied complete with tommy bars.

These are available in 2 types:
a. Metric Sizes
Size is measured as the width of the nut across hexagon flats
b. BA Sizes
Measured in accordance with British Association specifications



ORDERING INFORMATION

CAT. NR.	ORD NR.	NOMINAL SIZE	LENGTH	TOMMY BAR	
			(MM)	LENGTH (MM)	DIA (MM)
METRIC SIZES					
BW/6-7	32000	6 mm x 7 mm	102	77	3
BW/8-9	32001	8 mm x 9 mm	102	102	6
BW/10-11	32002	10 mm x 11 mm	102	102	6
BW/12-13	32003	12 mm x 13 mm	102	102	6
BW/14-15	32004	14 mm x 15 mm	127	152	9
BW/16-17	32005	16 mm x 17 mm	127	152	9
BW/18-19	32006	18 mm x 19 mm	127	152	9
BW/20-21	32007	20 mm x 21 mm	127	152	9
BW/22-23	32008	22 mm x 23 mm	127	152	9
BW/24-25	32009	24 mm x 25 mm	152	203	12
BW/26-27	32010	26 mm x 27 mm	152	203	12
BW/30-32	32013	30 mm x 32 mm	152	256	16
SETS					
BW/6M/ST	32019	A set of 6 Box wrenches in sizes 8x9, 10x11, 12x13, 14x15, 16x17 & 18x19 with two Tommy bars, packed in a vinyl pouch.			
BA SIZES					
BW/BA/0-1	32200	0.423" x 0.368"	76.5	77	5
BW/BA/2-3	32201	0.330" x 0.283"	76.5	77	5
BW/BA/4-5	32202	0.254"x 0.222"	76.5	77	5
BW/BA/6-7	32203	0.198" x 0.173"	76.5	77	3
BW/BA/8-9	32204	0.157" x 0.134"	76.5	77	3
►BW/BA/10	32205	0.118"	76.5	77	3
SETS					
BW/BA/6/ST	32208	A set of 6 Box wrenches in sizes : 0.423" x 0.368", 0.330" x 0.283", 0.254"x 0.222", 0.198" x 0.173", 0.157" x 0.134", and 0.118" with two Tommy Bars, packed in a vinyl pouch.			

▶ Single Ended

64 Wheel Wrenches - Double Ended

Heavy Duty Double Ended Wheel Wrenches, also referred to as Truck Wrenches are used to open lug nuts on trucks, buses, farm and off-road vehicles.

Forged from alloy steel with rust inhibiting bright nickel plating.

Supplied with Tommy Bar



Alloy Steel Wheel Wrenches With Tommy Bar



ORDERING INFORMATION

CAT. NR.	ORD NR.	SIZE	OVERALL LENGTH	
		(MM)	(INCH)	(MM)
WW/D/24-27	31900	24 x 27	16	400
★WW/D/27-30	31901	27 x 30	16	400
WW/D/27-32	31902	27 x 32	16	400
WW/D/27-33	31903	27 x 33	16	400
★WW/D/30-32	31904	30 x 32	16	400
★WW/D/30-33	31905	30 x 33	16	400
WW/D/32-38	31906	32 x 38	16	400
WW/D/35-17	31907	35 x 17	16	400
WW/D/38-21	31908	38 x 21	16	400
★WW/D/41-21	31909	41 x 21	16	400
SPARE TOMMY BAR				
TMB/WW/D/430-19	31940	430mm x 19mm		

★ Best Seller

65 Telescopic Wheel Wrench

WW/TP

GROZ extending wheel nut wrench is designed to loosen out and remove even the most rusted and jammed wheel nuts.

Telescopic handle extends from 14" (350 mm) to 22" (550 mm) giving extra leverage for ease of use. Compacts to 14" for easy storage

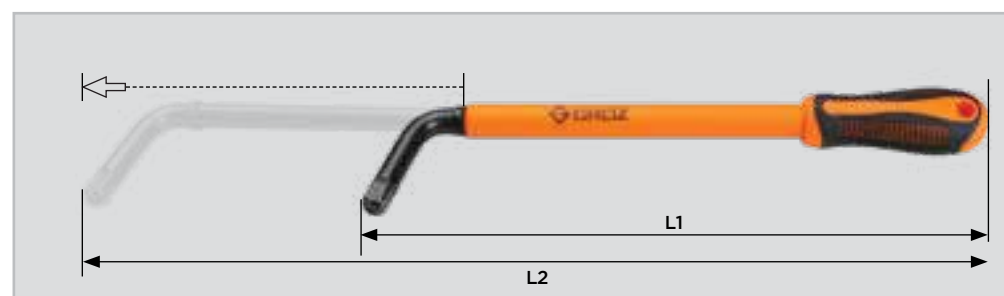
Manufactured from alloy steel, the wrench comes in premium powder coated finish

Fitted with TPR handle for ergonomic grip & comfort in use

Comes with two 1/2" square drive dual side sockets 17x19 mm & 19x21 mm to cover almost every automotive application

Compact & lightweight solution for all vehicles

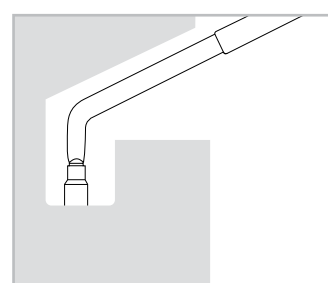
NEW!



Two dual side sockets
17x19 mm & 19x21 mm



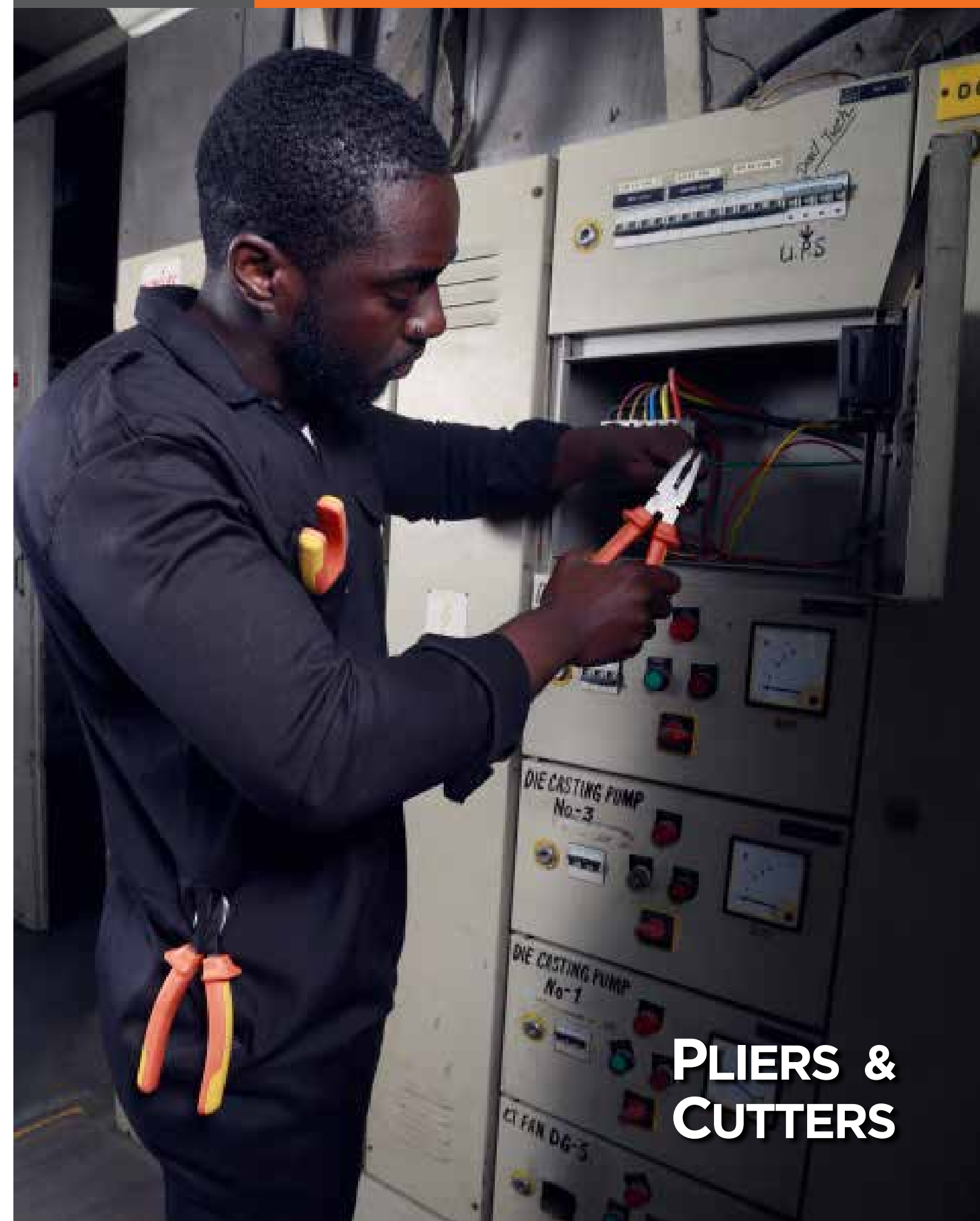
1/2" Square drive in the center of the socket permits use of both hex sides



Convenient access in difficult to reach areas

ORDERING INFORMATION

CAT NR.	ORD NR.	SQ. DRIVE	LENGTH COMPACT (L1)		LENGTH EXTENDED (L2)	
		(INCH)	(INCH)	(MM)	(INCH)	(MM)
WW/TP/17-21/ST	31950	1/2	14	350	22	550



PLIERS & CUTTERS

66 Insulation Pliers

CPL/CV LNP/CV SCP/CV

Pliers are individually forged from chrome vanadium steel, fully hardened & tempered

Addition of chrome & vanadium increases hardness & toughness of these pliers. Both these materials are rust inhibiting making pliers resistant to wear & tear thereby enhancing working life

1000V Safe
Tested in accordance with VDE standards & insulated to 1000V AC for live wire working

Heavily insulated, dual colour, ergonomically designed TPR grip is shock-proof & anti-slip making these pliers safest in use

Available in the following types
a. Combination Pliers
b. Long Nose Pliers
c. Side Cutting Pliers

CHROME VANADIUM

FORGED CONSTRUCTION

HEAT TREATED BODY



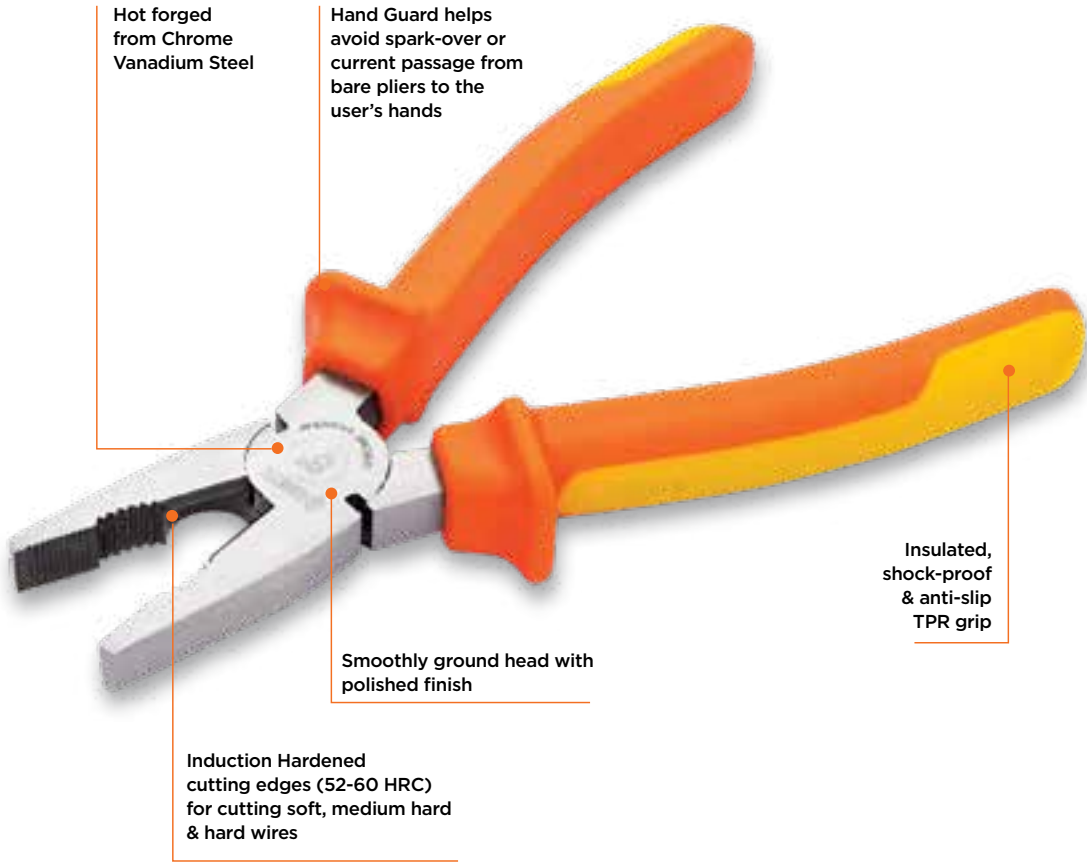
35-50 HRC

SUITABLE FOR CUTTING WIRES

SOFT

MEDIUM HARD

HARD



ORDERING INFORMATION

CAT NR.	ORD NR.	LENGTH	
		(INCH)	(MM)
COMBINATION PLIERS			
CPL/CV/6	31530	6	150
CPL/CV/7	31531	7	175
★CPL/CV/8	31532	8	200
LONG NOSE PLIERS			
★LNP/CV/6	31540	6	150
LNP/CV/7	31541	7	175
★LNP/CV/8	31542	8	200
SIDE CUTTING PLIERS			
★SCP/CV/6	31550	6	150
SCP/CV/7	31551	7	175
PLIER SETS			
PLR/CV/ST3	31570	3 piece set: Includes 8" Combination Plier, 7" Long Nose Plier & 7" Side Cutting Plier	
PLR/CV/ST3A	31571	3 piece set: Includes 8" Combination Plier, 6"Long Nose Plier & 6" Side Cutting Plier	

★ Best Seller

Available in the following variants:

a. Combination Pliers



Most suitable for gripping, bending, straightening, crushing, pulling, stripping insulation, cutting wires etc.

b. Long Nose Pliers



Most suitable for cutting & gripping wires

c. Side Cutting Pliers



Most suitable for cutting wires

67 Revolving Punch Plier

Professional quality plier, made from heavy gauge pressed steel sheet

Used to punch holes in leather, canvas, plastics, watch bands, belts etc.

Punches are precisely heat treated for extended life and are exposed to a brass anvil which prevents the edges from getting damaged in use.

Each punch locates exactly in position locking in place with the prawl and ratchet mechanism.

Spring loaded revolving head incorporates 6 punches of sizes:

- 5/64" (2 mm)
- 3/32"(2.5 mm)
- 1/8"(3.0 mm)
- 9/64" (3.5 mm)
- 5/32"(4 mm)
- 3/16" (4.5 mm)

HARDENESS



45-55 HRC

ORDERING INFORMATION

CAT NR.	ORD NR.	LENGTH	
		(INCH)	(MM)
RPL/6	31600	8.3/4	220



68 End Nippers

Forged from Chrome Vanadium Steel, hardened & tempered

Cutting Edge is hardened 52-60 HRC for clean cutting of soft and hard wires

Head in polished finish with plier body in corrosion resistant black oxide finish

Ergonomic Cushion grip handle

Designed to twist & cut binding wires, wire netting in reinforced concrete construction work

CHROME VANADIUM FORGED CONSTRUCTION



SUITABLE FOR CUTTING WIRES

SOFT

MEDIUM HARD

HARD

ORDERING INFORMATION

CAT NR.	ORD NR.	LENGTH	
		(INCH)	(MM)
EN/CV/6	32305	6	150
EN/CV/8	32306	8	200



69 Concrete Nippers

Forged from C50 Steel, fully hardened & tempered

Cutting edge is hardened 54-58 HRC for clean cutting of soft and hard wires

Head in polished finish with plier body in corrosion resistant black oxide finish

Cushion ergonomic grip handle

Designed to twist & cut binding wires, wire netting in reinforced concrete construction work



ORDERING INFORMATION

CAT NR.	ORD NR.	LENGTH	
		(INCH)	(MM)
CN/CS/9	32340	9	225
CN/CS/10	32341	10	250
CN/CS/11	32342	11	275

STEEL C50 FORGED CONSTRUCTION



SUITABLE FOR CUTTING WIRES

SOFT

MEDIUM HARD

70 Front Cutters

Forged from C50 Steel, pliers are fully hardened & tempered

Cutting edge is hardened 52-60 HRC for cutting soft and medium hard wire brands & meshes

Corrosion resistant black oxide finish

Popular in the US, these are used to twist and cut wires in a single operation



ORDERING INFORMATION

CAT NR.	ORD NR.	LENGTH	
		(INCH)	(MM)
FCT/A/CS/6	32350	6	150
FCT/A/CS/8	32351	8	200

STEEL C50 FORGED CONSTRUCTION



SUITABLE FOR CUTTING WIRES

SOFT

MEDIUM HARD

71 Slip Joint Pliers

Forged from C50 Steel, pliers are fully hardened & tempered

Pliers feature a pivot point slip joint that can be conveniently moved to increase / decrease jaw range

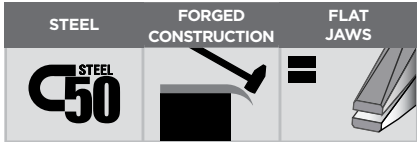
Rust inhibiting chrome plated finish

Ergonomic cushion grip for convenience in usage

Useful for adjusting nuts, pulling out small nails etc.

ORDERING INFORMATION

CAT NR.	ORD NR.	LENGTH	
		(INCH)	(MM)
SJP/CS/6DS	31642	6	150
SJP/CS/8DS	31643	8	200
SJP/CS/10DS	31644	10	250



72 Wheel Balancing Plier

Forged from Chrome Vanadium Steel, plier is hardened & tempered

Rust resistant chrome plated finish with ergonomic cushion grip handles

These are used to remove & detach wheel balancing weights. These are also useful for forming wheel balancing weights, removing & attaching wheel balancing weights from rims etc.



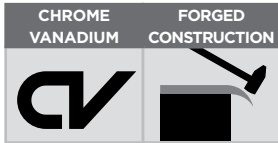
Plier being used to detach wheel balancing weights

Hammer end being used to form wheel balancing weights

Prying wheel balancing weights from the alloy rims

ORDERING INFORMATION

CAT NR.	ORD NR.	LENGTH	
		(INCH)	(MM)
WBP/CV/10	31665	10	250



73 Circlip Pliers

CLP

NEW!

Hot forged from Chrome Vanadium Steel

Fully hardened & tempered

Precise & solid contact tips prevent circlip damage

Forged non slip tips for exceptional longevity & precision

Soft cushion grip for comfort in usage



External Straight



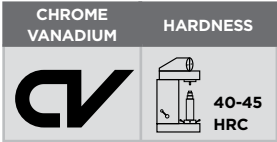
External Bent



Internal Straight



Internal Bent



ORDERING INFORMATION

CAT NR.	ORD NR.	DESCRIPTION	LENGTH	
			(INCH)	(MM)
CLP/ST/E/150	31563	External Straight	6	150
CLP/ST/E/175	31580	External Straight	7	175
CLP/ST/I/150	31564	Internal Straight	6	150
CLP/ST/I/175	31581	Internal Straight	7	175
CLP/BND/E/150	31565	External Bent	6	150
CLP/BND/E/175	31582	External Bent	7	175
CLP/BND/I/150	31566	Internal Bent	6	150
CLP/BND/I/175	31583	Internal Bent	7	175

74 Fencing Plier

Forged from C50 Steel, plier is fully hardened & tempered 35-50 HRC

Plier has a rust inhibiting polished finish with ergonomic cushion grip handle.

Multi-Use Tool
These are used to cut wires, pull out nails and staples, crimp ferrules, hammer in nails, form lops on wires , stretches barbed wire etc.

These are also used for erecting a stable fence, mark boundaries to keep animals within a designated area on farms etc.

SUITABLE FOR CUTTING WIRES		
		
SOFT	MEDIUM HARD	
STEEL	FORGED CONSTRUCTION	HEAT TREATED BODY
		
		35-50 HRC



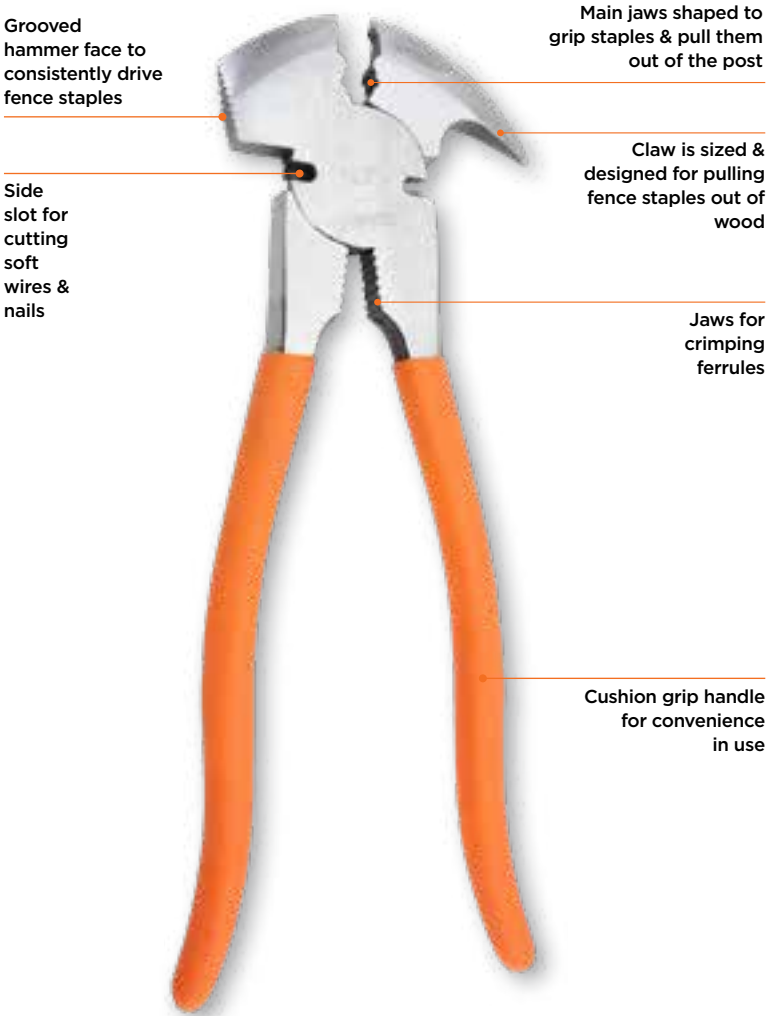
Side slot for cutting wires Main jaw for pulling out nails



Jaws for crimping ferrules Head for hammering in nails Claw for pulling out staples from wood

ORDERING INFORMATION

CAT NR.	ORD NR.	LENGTH	
		(INCH)	(MM)
FPL/10H	31612	10-1/2	265



75 MIG Welding Plier

Forged from C50 Steel, plier is fully hardened & tempered

Cutting edge is hardened 52-60 HRC for long lasting durability

Plier has a rust inhibiting polished finish with ergonomic cushion grip handle

Used for maintenance of Welding guns in MIG Welding



Welding Gun Nozzle filled with weld splatter Tapered front jaw for removal of welding splatter from inside of the welding gun nozzle



Nozzle removal & installation Tip removal and installation

STEEL	FORGED CONSTRUCTION	HEAT TREATED BODY
		
		35-50 HRC
SUITABLE FOR CUTTING WIRES		
		
SOFT	MEDIUM HARD	

ORDERING INFORMATION

CAT NR.	ORD NR.	LENGTH	
		(INCH)	(MM)
MWP/8	31660	8	200



76 Water Pump Pliers

Forged from Chrome Vanadium Steel

Fully hardened & tempered jaws clamp automatically on pipes & nuts

Serrated jaws set at 45° from the handles. Lower jaw can be moved to 7 position by sliding along a tracking section under the upper jaw. This allows adjustment to number of sizes without the distance of the handle growing too wide

Corrosion resistant black oxide finish

Ergonomic cushion grip for convenience in use

Used for turning & holding nuts & bolts, gripping irregular shaped objects, holding pipes, objects with large diameter etc.

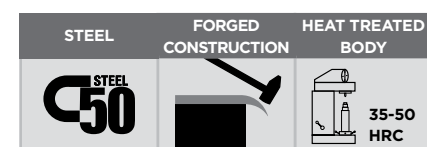


Jaws remain parallel in any position for better grip

Unique box joint adjusting system allows quick & easy one hand adjustment

Special barrier prevents accidental squeeze of fingers between plier handles

Cushion grip handle for convenience in use



ORDERING INFORMATION

CAT NR.	ORD NR.	LENGTH	
		(INCH)	(MM)
WPP/BJ/7/CV	31740	7	175
★WPP/BJ/10/CV	31741	10	250
★WPP/BJ/12/CV	31742	12	300
WPP/BJ/16/CV	31743	16	400

★ Best Seller

77 Self Locking Pliers

Forged from Chrome Molybdenum Steel for higher strength & durability

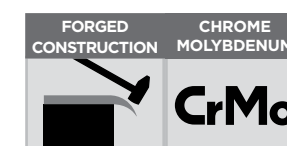
Jaws are induction hardened 45-60 HRC for maximum torque with minimum input pressure

Curved jaw design grips nut and bolt head with high pressure on four points, which provides powerful tightening for applications requiring high torque

Spring loaded release mechanism provides controlled release making it ideal for applications in restricted space.

Wide adjustment screw coupled with rolled thread spindle provides for smoother adjustment of pressure on the work-piece

Non-pinch & rubberised non-slip grip for fatigue free use



ORDERING INFORMATION

CAT NR.	ORD NR.	LENGTH	
		(INCH)	(MM)
SLP/7C	31630	7	175
★SLP/10C	31631	10	250

★ Best Seller

Adjustable Wrench is a spanner with a jaw of adjustable width. This allows the same wrench to be used with varying sizes of nuts & bolts unlike conventional fixed spanners

The same wrench can be used with both metric & imperial fasteners

Forged from Chrome Vanadium Steel, accurately hardened & tempered

Precision ground jaws for secure grip on fasteners

Ergonomic handle for comfortable grip reducing user fatigue



NOTE
Ensure that fixed jaw leads the rotation & movable jaws follows the fixed jaw. This way , there will be less stress on the movable jaw which is not supported as ruggedly as the fixed jaw

CHROME VANADIUM

FORGED CONSTRUCTION

HARDNESS

38-46 HRC

ORDERING INFORMATION

CAT NR.	ORD NR.	LENGTH		OPENING		TORQUE (KGF-M)
		(INCH)	(MM)	(INCH)	(MM)	
AWR/CV/4	31754	4	100	1/2	13	66
AWR/CV/6	31753	6	150	3/4	19	148
AWR/CV/8	31750	8	200	15/16	24	148
★AWR/CV/10	31751	10	250	1	27	245
★AWR/CV/12	31752	12	300	1-5/16	34	392
AWR/CV/15	31755	15	350	1-27/32	47	950

★ Best Seller



Manufactured from selected tool steel

Accurately hardened & tempered jaws & frame

Jaws with Vee grooves to hold round jobs securely

Accurately machined screw threads and nut with spring jaws.

NOTE
These should not be used on nuts , bots & hexagonal fittings where they could cause damage.

STEEL

FORGED CONSTRUCTION

HEAT TREATED BODY

35-40 HRC

ORDERING INFORMATION

CAT NR.	ORD NR.	LENGTH		MAX. OPENING	
		(INCH)	(MM)	(INCH)	(MM)
★SPW/10	31760	10	250	1-5/16	33
★SPW/12	31761	12	300	1-21/32	42
SPW/14	31762	14	350	1-7/8	48
SPW/18	31763	18	450	2-3/8	60
SPW/24	31764	24	600	2-7/8	73

★ Best Seller





Heavy duty Retractable knife for continuous, non-stop usage

Rugged Zinc alloy body for prolonged tool life

SK 2 steel blades are accurately hardened & have superior edge retention to handle tough cutting jobs with ease.

Each blade can be used twice. When blunt, simply pull out blade, invert it & re-install. Knife is ready to use again

Quick change blade operation

- 1. Simply press quick release button to slide out used blade
- 2. Load new blade with a squeeze of the lever

In-built storage compartment that can store up to 6 spare blades (included) gives convenient access to new blades

Ergonomic TPR handle with thumb groove for improved grip & ease of use

Suitable for cutting plastic, rubber, wood, gaskets, cardboard, fibre etc.

Blades available as spares as a pack of 12



Squeeze lever to load blade



Quick release button to slide out used blade



Squeeze lever again to load new blade



When blunt, simply pull out blade, invert it & re-install



Storage compartment for storing 6 spare blades

ORDERING INFORMATION

CAT NR.	ORD NR.	DESCRIPTION
KNV/R/6	61500	Knife
BLD/KNV/R/ST12	61510	Spare blade, pack of 12

FEATURES

OVERALL LENGTH	BLADE THICKNESS
6-3/4" (170 MM)	.02" (0.6 MM)



GROZ Retractable knife for fatigue free non-stop usage

Lightweight, yet robust Aluminium Die Cast body

SK2 Steel blades with triple cutting edge makes the blades 50% sharper compared to regular blades

Each knife comes with 5 blades

Interlock nose secures the blade firmly making it safe in use

In-built blade storage compartment

Spare blades available as a pack of 10



Press the lever down & push forward to load blade



Open screw to reach blade storage compartment



Quick & convenient blade interchange



Total 5 blades: 4 blades come as spare inside the knife, with 1 blade in use

ORDERING INFORMATION

CAT NR.	ORD NR.	DESCRIPTION
KNV/5	61501	Knife
BLD/KNV/5/ST	61511	Spare blade, pack of 10

FEATURES

OVERALL LENGTH	BLADE THICKNESS
6-3/4" (170 MM)	.02" (0.6 MM)

IX

www.groz-tools.com

STRIKING TOOLS



75X STRONGER

The Indestructible Handle Hammer Technology

STEEL LOCKING PLATE

locks head to the handle
eliminating loosening or
dislodging

HI-VISIBILITY HEAD

instant identification on
any job site

VULCANIZED RUBBER HANDLE

Absorbs impact &
vibration, reducing user
fatigue

Protects user in the event
of striking an electrical wire

Made from special grade
of ozone resistant rubber
for use in tough outside
environments

Handles on most head sizes
weigh more than the head,
allowing user to apply
double the torque on any
struck surface

DROP FORGED HEAD

with striking
ends induction
hardened
(50-58 HRC)

SPRING STEEL BARS

9/32" (7.1 mm) dia.
spring steel bars
resist overstrike
without breaking

STEEL REINFORCED LANYARD HOLE

OUTSTANDING DURABILITY

In our desire to build the world's strongest Sledge Hammer, we tested our Indestructible Handle Sledge Hammer against Sledges with different handles. We attached each Sledge to an Electronic drive machine & tested for both Direct & Overstrikes at a strike rate of 80 blows per minute

WE STOPPED COUNTING AFTER **36,000** STRIKES WITH NO INDICATION OF DEFORMATION IN BOTH DIRECT & OVERSTRIKE TESTS

WOOD HAMMER
BROKE IN
450
STRIKES IN DIRECT
STRIKE TEST &
208 STRIKES IN
OVERSTRIKE TEST

FIBRE GLASS
HAMMER BROKE IN
7,000
STRIKES IN DIRECT
STRIKE TEST &
4,126 STRIKES IN
OVERSTRIKE TEST

THE RESULT

The GROZ Indestructible Handle Hammers come with a 12 month warranty. These are designed to ensure that the hammer handle will not break/separate from the hammer head under normal wear & tear. Warranty does not cover use of the hammer other than as a hand-held striking tool, nor to breakage/mushrooming etc. of the hammer head



82

Club Hammers

CHID

Indestructible handle is made up of 4 spring steel bars that run all the way through the handle.

Bars are locked with the hammer head using steel locking plates ensuring that the head never gets dislodged.

Ergonomic rubber grip handle absorbs vibration and reduces fatigue.

Special bonding process ensures that the head never gets loose from the handle.

These are available in 2 types:

Heavy Duty 50-58 HRC Head*
Forged from special steel, the hammer head is induction case hardened 50-58 HRC. These hammers are especially useful in demolition work where the struck surface is softer than the hammer head

UTILITY

- Driving in stakes
- Metal-forming
- Setting bolts
- Minor demolition work

Soft Face 30 HRC Head
Forged from special steel, the hammer head is induction case hardened & then tempered to reduce hardness to within 30-35 HRC. Softer head is designed to mushroom when striking harder base materials. Prevents damage to struck work pieces

UTILITY

- Construction
- Metal forming
- Over ground mining
- Maintenance of cutting tools



Heavy Duty
52 HRC Head

Soft Face
30 HRC Head

PATENT
PENDING



Steel Locking Plate



4 Spring Steel Bars



Ergonomic Rubber Grip
Handle



WARNING*

Do not strike objects harder than 46 HRC. Striking items of a greater hardness is liable to cause fracture or chipping

BS 876

For material, hardness & performance

SANS 387:2014



WORKING TEMPERATURE
RANGE

-10°C TO 50°C
(14°F TO 122°F)

ORDERING INFORMATION

CAT NR.	ORD NR.	HEAD WEIGHT		OVERALL LENGTH	
		(LBS)	(KG)	(INCH)	(MM)
HEAVY DUTY 52 HRC HEAD					
★CHID/2.5/12	34500	2.5	1.1	12	300
CHID/2.5/16	34505	2.5	1.1	16	400
★CHID/4/12	34501	4	1.8	12	300
CHID/4/16	34502	4	1.8	16	400
SOFT FACE 30 HRC HEAD					
CHID/SF/2.5/12	34550	2.5	1.1	12	300
CHID/SF/4/12	34551	4	1.8	12	300

★ Best Seller

Indestructible handle is made up of 6 spring steel bars that run all the way through the handle.

Bars are locked with the hammer head using steel locking plates ensuring that the head never gets dislodged.

Ergonomic rubber grip handle absorbs vibration and reduces fatigue.

Special bonding process ensures that the head never gets loose from the handle.

These are available in 2 types:

Heavy Duty 50-58 HRC Head*

Forged from special steel, the hammer head is induction case hardened 50-58 HRC. These hammers are especially useful in demolition work where the struck surface is softer than the hammer head. These are also available with a short handle (12-16" length), especially useful in automotive applications

UTILITY

- Driving in stakes
- Heavy demolition work
- Construction: fracturing stone & concrete
- Driving fence posts
- Police, fire & rescue
- Rebar work
- Railroads
- Bending & shaping metal



Soft Face 30 HRC Head:

Forged from special steel, the hammer head is induction case hardened & then tempered to reduce hardness to within 30-35 HRC. Softer head is designed to mushroom when striking harder base materials. Prevents damage to struck work pieces.

UTILITY

- Construction
- Agriculture
- Automotive
- Overground mining
- Railroad
- Maintenance of cutting tools



BS 876

For material, hardness & performance

SANS 387:2014

ORDERING INFORMATION

CAT NR.	ORD NR.	HEAD WEIGHT		OVERALL LENGTH	
		(LBS)	(KG)	(INCH)	(MM)
HEAVY DUTY 52 HRC HEAD					
SHID/6/16	34521	6	2.7	16	400
SHID/6/24	34510	6	2.7	24	600
SHID/6/30	34511	6	2.7	30	750
SHID/8/12	34522	8	3.6	12	300
SHID/8/16	34523	8	3.6	16	400
★SHID/8/24	34512	8	3.6	24	600
★SHID/8/30	34513	8	3.6	30	750
SHID/8/36	34517	8	3.6	36	900
SHID/10/30	34514	10	4.5	30	750
SHID/10/36	34518	10	4.5	36	900
SHID/12/30	34515	12	5.5	30	750
SHID/12/36	34519	12	5.5	36	900
★SHID/14/30	34516	14	6.3	30	750
SHID/14/36	34520	14	6.3	36	900
◆SHID/20/36	34524	20	9	36	900

WARNING*

Do not strike objects harder than 46 HRC. Striking items of a greater hardness is liable to cause fracture or chipping

WORKING TEMPERATURE RANGE

-10°C TO 50°C
(14°F TO 122°F)

CAT JNR.	ORD NR.	HEAD WEIGHT		OVERALL LENGTH	
		(LBS)	(KG)	(INCH)	(MM)
SOFT FACE 30 HRC HEAD					
SHID/SF/6/30	34560	6	2.7	30	750
SHID/SF/8/30	34561	8	3.6	30	750
SHID/SF/10/30	34562	10	4.5	30	750
SHID/SF/12/30	34563	12	5.5	30	750
SHID/SF/14/36	34565	14	6.3	36	900

◆ New
* Best Seller

Indestructible handle is made up of 6 spring steel bars that run all the way through the handle.

Forged steel head is induction case hardened 50-58 HRC.

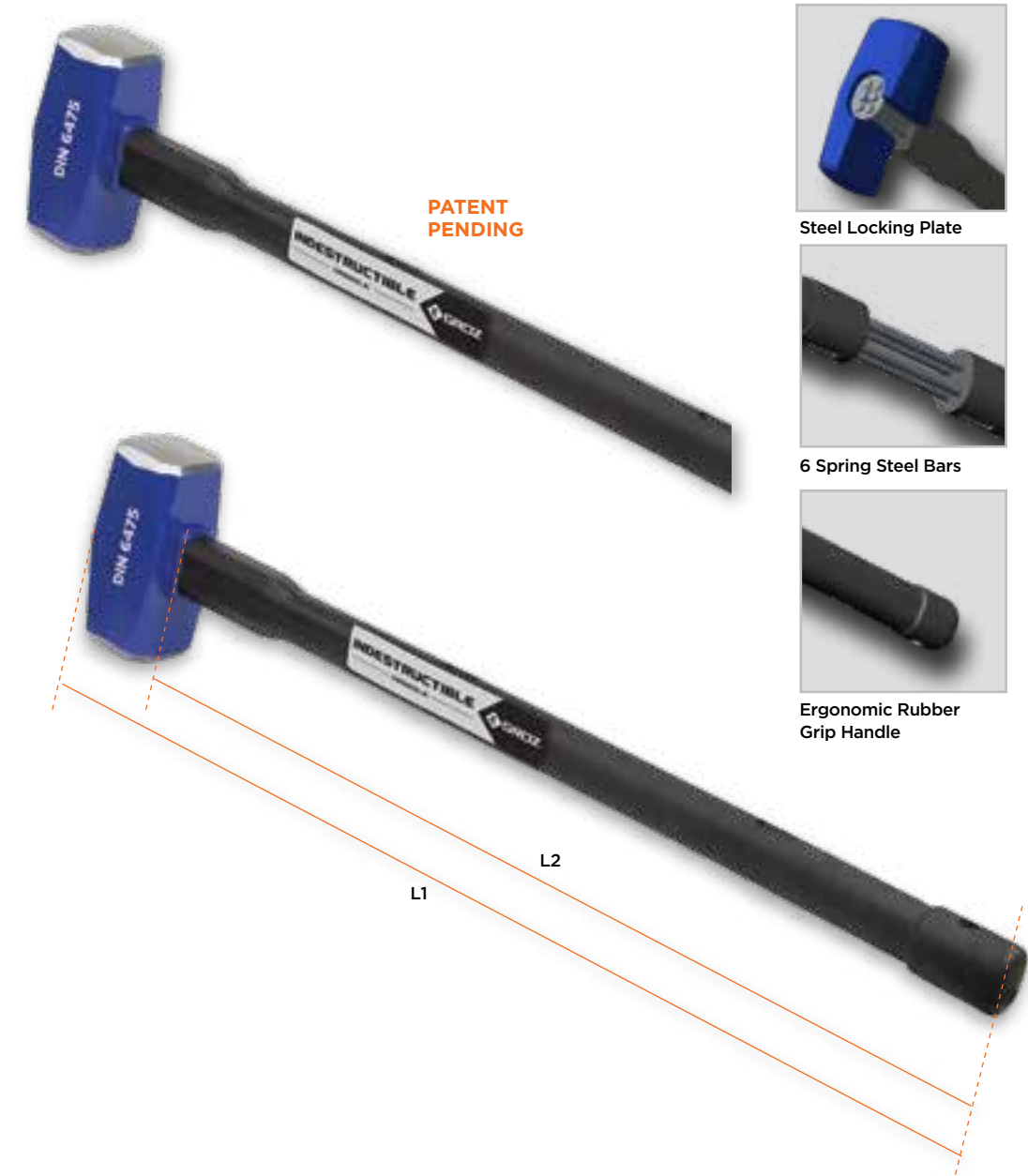
Bars are locked with the hammer head using steel locking plates ensuring that the head never gets dislodged.

Ergonomic rubber grip handle absorbs vibration and reduces fatigue.

Special bonding process ensures that the head never gets loose from the handle.

UTILITY

- Demolition
- Driving stakes & rebar
- Fracturing stone & concrete
- Driving fence posts
- Rail road
- Bending & shaping metal



CONFORMS TO

DIN 6475

WARNING

Do not strike objects harder than 46 HRC. Striking items of a greater hardness is liable to cause fracture or chipping

ORDERING INFORMATION

CAT NR.	ORD NR.	HEAD WEIGHT		HANDLE LENGTH			
		(GMS)	(KG)	L1		L2	
				(INCH)	(MM)	(INCH)	(MM)
SHID/DIN/3K/24	34720	3000	3	24	600	22	550
SHID/DIN/5K/30	34721	5000	5	30	750	28	695

WORKING TEMPERATURE RANGE

-10°C TO 50°C
(14°F TO 122°F)

85

Copper Head
Sledge Hammers

CHID-CU
SHID-CU

Indestructible handle is made with spring steel bars that run all the way through the handle.

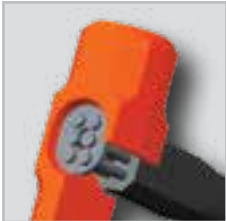
Bars are locked with the hammer head using steel locking plates ensuring that the head never gets dislodged.

Ergonomic rubber grip handle absorbs shock & vibration reducing fatigue.

Special bonding process ensures that head never gets loose from the handle.

Hammer head is forged from 99.9% pure copper for spark free use. Copper head resists sparking & reduces marring of most struck surfaces

- UTILITY
- Metal forming
 - Mining
 - Underground coal mining



Steel Locking Plate



4 - 6 Spring Steel Bars



Ergonomic Rubber Grip Handle

MATERIAL	HARDNESS	NON SPARKING	NON MARRING
Cu COPPER	 85 HV		

ORDERING INFORMATION

CAT NR.	ORD NR.	HEAD WEIGHT		OVERALL LENGTH	
		(LBS)	(KG)	(INCH)	(MM)
CHID/2.5/12/CU	34602	2.5	1.1	12	300
CHID/2.5/16/CU	34603	2.5	1.1	16	400
★CHID/4/12/CU	34600	4	1.8	12	300
CHID/4/16/CU	34604	4	1.8	16	400
★SHID/8/24/CU	34610	8	3.6	24	600
★SHID/14/30/CU	34611	14	6.3	30	750

★ Best Seller

WORKING TEMPERATURE RANGE
-10°C TO 50°C
(14°F TO 122°F)

86

Brass Head
Sledge Hammers

SHID-BR

Indestructible handle is made with spring steel bars that run all the way through the handle.

Bars are locked with the hammer head using steel locking plates ensuring that the head never get dislodged

Ergonomic rubber grip handle absorbs shocks & vibration hence reducing fatigue

Drop forged brass head is spark resistant. It absorbs impact & reduces damage on the surface being hit. Also it can be used safely in combustible environments

- UTILITY
- Oil Rigs
 - Gas Industry
 - Automotive applications where the struck surface is soft



Steel Locking Plate



4 Spring Steel Bars



Ergonomic Rubber Grip Handle

MATERIAL	HARDNESS	NON SPARKING	NON MARRING
Br BRASS	 130 HV		



ORDERING INFORMATION

CAT NR.	ORD NR.	HEAD WEIGHT		OVERALL LENGTH	
		(LBS)	(KG)	(INCH)	(MM)
★SHID/2.5/12/BR	34700	2.5	1.1	12	300
SHID/2.5/16/BR	34701	2.5	1.1	16	400
★SHID/4/12/BR	34702	4	1.8	12	300
SHID/4/16/BR	34703	4	1.8	16	400

★ Best Seller

WORKING TEMPERATURE RANGE
-10°C TO 50°C
(14°F TO 122°F)

Indestructible handle is made up of 2 spring steel bars that run all the way through the handle.

Forged steel head is induction case hardened 50- 58 HRC.

Head features an octagonal face with bevelled edges & a 45° angular cross pein

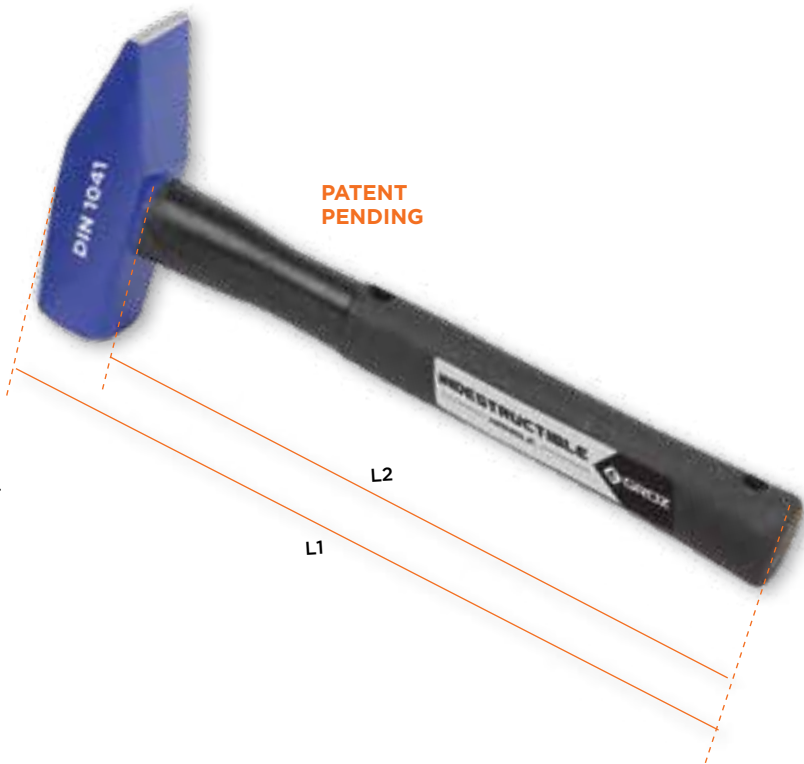
Bars are locked with the hammer head using steel locking plates ensuring that the head never gets dislodged.

Ergonomic rubber grip handle absorbs vibration and reduces fatigue.

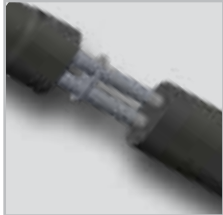
Special bonding process ensures that the head never gets loose from the handle.

UTILITY

- Riveting
- Forging
- Shaping & flattening of metal
- Embossing
- Removal of dents
- Jewellery application



Steel Locking Plate



2 Spring Steel Bars



Ergonomic Rubber Grip Handle

CONFORMS TO

DIN 1041

WARNING

Do not strike objects harder than 46 HRC. Striking items of a greater hardness is liable to cause fracture or chipping

ORDERING INFORMATION

CAT NR.	ORD NR.	HEAD WEIGHT		HANDLE LENGTH			
		(GMS)	(KG)	L1		L2	
				(INCH)	(MM)	(INCH)	(MM)
MHID/DIN/300G/13	34710	300	0.3	13	330	12	300
MHID/DIN/500G/13	34711	500	0.5	13	330	12	300
MHID/DIN/800G/14	34712	800	0.8	14	350	12-19/32	320
MHID/DIN/1000G/14	34713	1000	1	14	350	12-19/32	320

WORKING TEMPERATURE RANGE

-10°C TO 50°C (14°F TO 122°F)

Handle is made with spring steel bars that run all the way through the handle.

Bars are locked with the hammer head using steel locking plates ensuring that the head never gets dislodged.

Ergonomic rubber grip handle absorbs shock & vibration reducing fatigue. Special bonding process ensures that head never gets loose from the handle.

UTILITY

- Bending & shaping metal
- Driving punches & chisels
- Concrete & stone work
- Hand forging
- Setting rivets
- Peen riveted & welded material
- Texturing face of metal

WARNING

Do not strike objects harder than 46 HRC. Striking items of a greater hardness is liable to cause fracture or chipping

Hammer head is forged from special steel and is induction case hardened to 50-58 HRC for extended life.



2 Spring Steel Bars



BS 876

For material, hardness & performance



WORKING TEMPERATURE RANGE

-10°C TO 50°C (14°F TO 122°F)

ORDERING INFORMATION

CAT NR.	ORD NR.	HEAD WEIGHT		OVERALL LENGTH	
		(GMS)	(OZ)	(INCH)	(MM)
◆BPID/16/14	34538	450	16	14	350
◆BPID/20/14	34539	565	20	14	350
★BPID/24/14	34540	680	24	14	350
★BPID/32/14	34541	900	32	14	350
BPID/48/14	34542	1360	48	14	350

◆ New ★ Best Seller

Indestructible 16" (400 mm) long handle is made with 4 spring steel bars that run all the way through the handle.

Bars are locked with the hammer head using steel locking plates ensuring that the head never gets dislodged.

Ergonomic rubber grip handle absorbs shock & vibration reducing fatigue.

Special bonding process ensures that head never gets loose from the handle.

UTILITY

- Heavy Forging
- Bending & Shaping Metal
- Spreading Metal
- Driving Punches & Chisels
- Driving Masonry Drills
- Concrete & Stone Work
- Starting Panel Pins & Tacks

WARNING

Do not strike objects harder than 46 HRC. Striking items of a greater hardness is liable to cause fracture or chipping



4 Spring Steel Bars

ORDERING INFORMATION

CAT NR.	ORD NR.	HEAD WEIGHT		OVERALL LENGTH	
		(LBS)	(KG)	(INCH)	(MM)
CPID/2/16	34530	2.5	1.15	16	400
★CPID/3/16	34531	3.5	1.60	16	400

★ Best Seller



WORKING TEMPERATURE RANGE

-10°C TO 50°C (14°F TO 122°F)

90

Claw Hammer

CLID

Indestructible 13" (330 mm) long handle is made with 2 spring steel bars that run all the way through the handle.

Bars are locked with the hammer head using steel locking plates ensuring that the head never gets dislodged

Hammer Head is forged from special steel & induction case hardened 50-58 HRC for extended life

Well shaped, curved claw is tapered for maximum grip & higher leverage when gripping a nail

Special bonding process ensures that the head never gets loose from the handle

Ergonomic rubber grip handle absorbs shock & vibration reducing fatigue

UTILITY

- Pulling Out Nails
- Lifting Floorboards
- Carpentry Work

WARNING

Do not strike objects harder than 46 HRC. Striking items of a greater hardness is liable to cause fracture or chipping

Do not use a claw hammer for striking cold chisels or for pulling out masonry nails

ORDERING INFORMATION

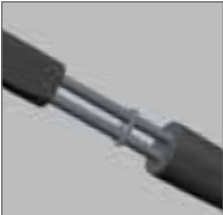
CAT NR.	ORD NR.	HEAD WEIGHT		OVERALL LENGTH	
		(OZ)	(GMS)	(INCH)	(MM)
CLID/16/13	34535	16	450	13	330



PATENT PENDING



Steel Locking Plate



2 Spring Steel Bars



Ergonomic Rubber Grip Handle

BS 876
For material, hardness & performance



WORKING TEMPERATURE RANGE

-10°C TO 50°C
(14°F TO 122°F)

91

Tyre Bead Breaker Hammer

TBID

A unique tyre & wheel service hammer used for separating tyres from wheel rims.

Often the tyre bead gets frozen/stuck to the rim due to corrosion/rust and must be broken free manually.

Tyre Bead Hammer is ideal for use in such applications.

Used like a chisel it leverages mechanical advantage to drive the bead away from the rim.

The fully forged hammer head incorporates :

- Bead breaking Wedge: Convex shape wedge penetrates the tyre bead effectively. Groove on the convex shape creates easy passage for the tyre lube into the bead.
- Top hook: is used as a wheel tipper to break the bead on the other side of the wheel
- Sledge edge: has a hook to drag the tyre into position

Indestructible handle is made from spring steel bars that runs through the handle.

Bars are locked with the hammer head using steel locking plates ensuring that the head never gets dislodged

Ergonomic rubber grip handle absorbs vibrations & reduces fatigue

Special bonding process ensures that the head never gets loose from the handle.

WORKING TEMPERATURE RANGE

-10°C TO 50°C
(14°F TO 122°F)

ORDERING INFORMATION

CAT NR.	ORD NR.	HEAD WEIGHT		OVERALL LENGTH		SPRING STEEL BARS
		(LBS)	(KG)	(INCH)	(MM)	
TBID/5/20	34750	5	2.2	20	500	4
TBID/10/32	34751	10	4.5	32	800	6

NEW!



PATENT PENDING

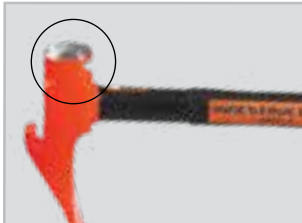
Grooves create easy passage for the tyre lube into the bead



Convex shaped wedge penetrates the tyre bead & loosens it



Top Hook used to tip wheel to change sides



Sledge Edge with a hook to drag tyre into position



Steel Locking Plate



Spring Steel Bars



Ergonomic Rubber Grip Handle

92 Indestructible Handle Hammer Kits

Our best selling hammers now available in an easy to store & carry - blow mould case.

Choice of 2 kits, ideal for automotive, construction & everyday maintenance jobs

Indestructible Handle hammers feature

- a. Spring Steel bars - Run through the hammer handle & eliminate handle breaking due to an over-strike
- b. Steel Locking Plate - Locks hammer head to the handle eliminating loosening or dislodging
- c. Non Slip Vulcanized Rubber handle - Absorbs impact & vibration reducing user fatigue
- d. Drop Forged Steel Head Induction hardened to 50-58 HRC
- e. Lanyard hole - safely secures hammer to wrist or any other surface



Blow Mould Case

KIT CONSTITUENTS

TYPE	KIT/HMID/3S/ST	KIT/HMID/3/ST
Club / Sledge Hammer	2-1/2 lb (1.1 kg) Hammer Head x 12" (300 mm) long	4 lb (1.8 kg) Hammer Head x 12" (300 mm) long
Ball Pein Hammer	24 oz. (0.684 kg) Hammer Head x 14" (350 mm) long	32 oz. (0.912 kg) Hammer Head x 14" (350 mm) long
Cross Pein Hammer	2-1/2 lb. (1.1 kg) Hammer Head x 16" (400 mm) long	2-1/2 lb. (1.1 kg) Hammer Head x 16" (400 mm) long

ORDERING INFORMATION

CAT NR.	ORD NR.
KIT/HMID/3S/ST	34575
KIT/HMID/3/ST	34576

WORKING TEMPERATURE RANGE	
-10°C TO 50°C (14°F TO 122°F)	
HARDNESS	CONFORMS TO
50-58 HRC	ANSI

WARNING

Do not strike objects harder than 46 HRC. Striking items of a greater hardness is liable to cause fracture or chipping

D7 Merchandiser Stand

3 pc Club & Sledge Hammer wooden display stand



Supplied without hammers

ORDERING INFORMATION

CAT NR.	ORD NR.	STAND DIMENSIONS	
		(INCH)	(MM)
D7	00506	16.14 x 5.91 x 3.74	410 x 150 x 95

D12 Merchandiser Stand

All metal display stand for displaying 16 hammers

Top & bottom display / branding area

Easy to bolt assembly

Supplied in CKD form



Supplied without hammers

ORDERING INFORMATION

CAT NR.	ORD NR.	STAND DIMENSIONS	
		(INCH)	(MM)
D12	00512	18.11 x 53.93 x 23.62	460 x 1370 x 600



USE THE
RIGHT HAMMER
FOR THE
RIGHT APPLICATION

	CLUB HAMMERS	SLEDGE HAMMERS (6 TO 10 LBS)		SLEDGE HAMMERS (12 TO 20 LBS)	SLEDGE HAMMERS (DIN6475)	COPPER HEAD SLEDGE HAMMERS	BRASS HEAD SLEDGE HAMMERS	MACHINIST HAMMERS DIN 1041	SOFT FACE HAMMERS	BALL PEIN HAMMERS	CROSS PEIN HAMMERS	CLAW HAMMERS	TYRE BEAD BREAKER HAMMERS
Construction: Fracturing Stone & Concrete		Y		Y	Y				Y				Y
Minor Demolition Work	Y												
Heavy Demolition Work		Y		Y	Y								
Driving Fence Posts		Y		Y	Y								
Driving in Stakes	Y	Y		Y	Y								
Setting Bolts	Y												
Rebar Work		Y		Y	Y								
Railroads		Y		Y	Y				Y				
Police , Fire & Rescue		Y		Y	Y								Y
Concrete & Stone Work													Y
Driving Masonry Drills	Y												
Mining				Y	Y	Y	Y		Y				
Underground Coal Mining						Y	Y						
Metallforming	Y					Y	Y		Y				
Heavy Forging											Y		
Hand Forging								Y	Y	Y			
Bending & Shaping Metal								Y	Y	Y	Y		
Spreading Metal											Y		
Texturing face Of Metal								Y	Y	Y			
Starting Panel pins & tacks											Y		
Setting Rivets								Y	Y	Y			
Peen Riveted & Welded Material								Y	Y	Y			
Driving Punches & Chisels	Y							Y	Y	Y	Y		
Garages - Small Scale								Y	Y	Y	Y		Y
Workshops								Y	Y	Y	Y		Y
Service Centre								Y	Y	Y	Y		Y
Off Shore						Y	Y						
Shipping & Marine						Y	Y						
Woodworking												Y	

Centre Punches
Heavy Duty

Carbon steel single piece construction with hexagonal shank

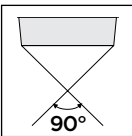
Accurately hardened and tempered so that the point will withstand continuous use and the striking end will not splinter.

Working tip centred and ground to the correct angle (90° included angle) for increased efficiency in marking

Working end accurately ground with the punch body in premium powder coated finish

Striking end is chamfered to prevent breakage

Ideal for clearly marking metal in work layout & making indentations in a work piece before drilling to ensure correct location of drill points.



CP/HD/5/ST

ORDERING INFORMATION

CAT NR.	ORD NR.	POINT SIZE (P)		STOCK SIZE		OVERALL LENGTH (L)	
		(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)
CP/HD/5-64	25200	5/64	2	1/4	6	3.1/2	90
CP/HD/1-8	25201	1/8	3	5/16	8	4.1/4	108
★CP/HD/5-32	25202	5/32	4	3/8	10	5	125
CP/HD/5-32/SPL	25206	5/32	4	5/16	8	5.1/2	138
★CP/HD/1-4	25203	1/4	6	1/2	12	6	150
CP/HD/1-4/SPL	25207	1/4	6	3/8	10	6	150
CP/HD/3-8	25204	3/8	10	5/8	16	6.1/4	160
SET							
CP/HD/5/ST	25205	A set of 5 Centre Punches packed in a vinyl pouch					
		5/64" (2mm)	1/8" (3mm)	5/32" (4mm)	1/4" (6mm)	3/8" (10mm)	

★ Best Seller

Centre Punches
Round Head

Carbon steel single piece construction with round shank and round striking head

Accurately hardened and tempered so that the point will withstand continuous use and the striking end will not splinter

Clean and well cut knurling for non-slip and positive finger grip

Working tip centred and ground to the correct angle (90° included angle) for increased efficiency in marking

Rust inhibiting black oxide finish

Ideal for clearly marking metal in work layout & making indentations in a work piece before drilling to ensure correct location of drill points.



CP/5/ST

ORDERING INFORMATION

CAT NR.	ORD NR.	POINT SIZE		BODY DIAMETER		OVERALL LENGTH (L)	
		(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)
CP/1-16	25100	1/16	1.5	1/4	6	3	75
★CP/5-64	25101	5/64	2	5/16	8	4	100
CP/3-32	25102	3/32	2.5	5/16	8	4	100
CP/1-8	25103	1/8	3	5/16	8	4	100
CP/9-64	25104	9/64	3.5	5/16	8	4	100
★CP/5-32	25105	5/32	4	3/8	10	4	100
CP/3-16	25106	3/16	5	3/8	10	4	100
CP/7-32	25107	7/32	5.5	3/8	11	4	100
★CP/1-4	25108	1/4	6	7/16	11	5	125
CP/1-4/SPL	25111	1/4	6	1/2	13	5	100
SETS							
★CP/5/ST	25109	A Set of 5 Centre Punches packed in a vinyl pouch					
		1/16" (1.5mm)	5/64" (2mm)	3/32" (2.5mm)	9/64" (3.5mm)	5/32" (4mm)	
CP/5/1-8/ST	25110	A Set of 5 Centre Punches packed in a vinyl pouch					
		1/16" (1.5mm)	5/64" (2mm)	3/32" (2.5mm)	1/8" (3mm)	5/32" (4mm)	
★CP/8/WD/ST	25120	A Set of 8 Centre Punches packed to a wooden box					
		1/16" (1.5mm)	5/64" (2mm)	3/32" (2.5mm)	1/8" (3mm)	9/64" (3.5mm)	5/32" (4mm)
		3/16" (5mm)	7/32" (5.5mm)				

★ Best Seller



CP/8/WD/ST

Pin Punches
Heavy Duty

Carbon steel single piece construction with hexagonal shank

Accurately hardened and tempered so that the Pin will withstand continuous use and the striking end will not splinter.

Induction hardened to ensure consistent hardness and a special tempering process prevents the head from fracturing, thereby preventing accidents.

Working ends are accurately ground and the punch body is in premium powder coated finish

Available in two types:

a. Regular

b. Extra long

These are especially useful for applications that require additional leverage



ORDERING INFORMATION

CAT NR.	ORD NR.	PIN DIAMETER (D)		STOCK SIZE		OVERALL LENGTH (L)	
		(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)
REGULAR							
PP/HD/1-16	25600	1/16	1.5	1/4	6	4	100
★PP/HD/3-32	25601	3/32	2.5	5/16	8	4.1/2	112
PP/HD/3-32/SPL	25609	3/32	2.5	1/4	6	4.1/4	106
★PP/HD/1-8	25602	1/8	3	5/16	8	4.3/4	119
★PP/HD/5-32	25603	5/32	4	5/16	8	5	125
★PP/HD/3-16	25604	3/16	5	3/8	10	5.1/4	132
PP/HD/3-16/SPL	25610	3/16	5	5/16	8	5.1/4	132
PP/HD/7-32	25605	7/32	5.5	3/8	10	5.1/2	138
★PP/HD/1-4	25606	1/4	6	3/8	10	5.3/4	145
PP/HD/5-16	25607	5/16	8	7/16	11	6	150
PP/HD/3-8	25608	3/8	10	1/2	12	6.1/2	163
EXTRA LONG							
★PP/HD/1-8L	25650	1/8	3	5/16	8	8	200
★PP/HD/3-16L	25651	3/16	5	3/8	10	8	200
★PP/HD/1-4L	25652	1/4	6	3/8	10	8	200
PP/HD/5-16L	25653	5/16	8	7/16	11	8	200
PP/HD/3-8L	25654	3/8	10	1/2	12	8	200
SETS - REGULAR							
PP/HD/6/ST	25612	A set of 6 Pin Punches containing packed in a vinyl pouch					
		3/32" (2.5mm)	1/8" (3mm)	5/32" (4mm)	3/16" (5mm)	1/4" (6mm)	5/16" (8mm)
★PP/HD/7/ST	25611	A set of 7 Pin Punches packed in a vinyl pouch					
		1/16" (1.5mm)	3/32" (2.5mm)	1/8" (3mm)	5/32" (4mm)	3/16" (5mm)	7/32" (5.5mm)
SETS - EXTRA LONG							
PP/HD/5L/ST	25655	A set of 5 extra long Pin Punches packed in a vinyl pouch					
		1/8" (3mm)	3/16" (5mm)	1/4" (6mm)	5/16" (8mm)	3/8" (10 mm)	

* Best Seller



PP/HD/6/ST



PP/HD/7/ST



PP/HD/5L/ST

Brass
Pin Punches

Manufactured from solid brass, these non-marring punches are ideal for delicate work on soft materials as these do not cause damage to the material being worked upon

Also used to produce a gentle initial movement with a steel punch being used later to complete the job

Available in 2 lengths:

a. 4" (100 mm)

Solid Brass construction

b. 8" (200 mm)

2pc construction with body in steel & punch in brass



ORDERING INFORMATION

BRASS PIN PUNCHES — 4" (100 MM LONG)							
CAT NR.	ORD NR.	PIN DIAMETER (D)		BODY DIAMETER			
		(INCH)	(MM)	(INCH)	(MM)		
PP/1-16B	26760	1/16	1.5	9/32	7		
PP/3-32B	26761	3/32	2.5	9/32	7		
PP/1-8B	26762	1/8	3.0	9/32	7		
PP/5-32B	26763	5/32	4.0	9/32	7		
PP/3-16B	26764	3/16	5.0	5/16	8		
PP/7-32B	26765	7/32	5.5	5/16	8		
PP/1-4B	26766	1/4	6.0	3/8	10		
PP/5-16B	26767	5/16	8.0	7/16	11		
BRASS PIN PUNCHES — 8" (200 MM LONG)							
DPP/1-8B	26752	1/8	3.0	3/8	10		
DPP/3-16B	26754	3/16	5.0	1/2	12		
DPP/1-4B	26755	1/4	6.0	1/2	12		
DPP/5-16/B	26756	5/16	8.0	1/2	12		
DPP/3-18B	26757	3/8	10.0	1/2	12		
SETS - BRASS PIN PUNCHES — 4" (100 MM LONG)							
PP/4B/ST	26768	A set of 4 brass pin punches packed to a vinyl pouch					
		1/8" (3mm)	5/32" (4mm)	3/16" (5mm)	1/4" (6mm)		
PP/8B/ST	26769	A set of 8 brass pin punches packed to a vinyl pouch					
		1/16" (1.5mm)	3/32" (2.5mm)	1/8" (3mm)	5/32" (4mm)	3/16" (5mm)	7/32" (5.5mm)
PP/8B/WD/ST	26770	A Set of 8 packed to a wooden box					
		1/16" (1.5mm)	3/32" (2.5mm)	1/8" (3mm)	5/32" (4mm)	3/16" (5mm)	7/32" (5.5mm)
BRASS PIN PUNCHES — 8" (200 MM LONG)							
DPP/5B/ST	26758	A set of 5 brass pin punches packed to a vinyl pouch					
		1/8" (3mm)	3/16" (5mm)	1/4" (6mm)	5/16" (8mm)	3/8" (10mm)	



PP/4B/ST



PP/8B/ST

97 Pin Punches Round Shank

Carbon steel construction with round shank and square striking head

Accurately hardened and tempered so that the pin will withstand continuous use and the striking end will not splinter

Clean and well cut knurling for non-slip and positive finger grip

Rust inhibiting black oxide finish

These are available in 3 different lengths:

- a. Pin Punches 4" (100 mm) long: Single piece construction with 1" (25 mm) long pin.
- b. Pin Punches 6" (150 mm) long: Single piece construction with 1.3/4" (45 mm) long pin.
- c. Pin Punches 8" (200 mm) long: Two piece construction with a 3.3/4" (90 mm) long pin. The two piece construction allows the pin to have a separate hardness from the body which prevents "peening" and also ensures complete straightness over such a long length.



Pin Punches are used for driving out and removing already loosened pins & keys after initial movement by a solid or starting punch



ORDERING INFORMATION

PIN PUNCHES — 4" (100 MM LONG)					
CAT NR.	ORD NR.	PIN DIAMETER (D)		BODY DIAMETER	
		(INCH)	(MM)	(INCH)	(MM)
★PP/1-16	25560	1/16	1.5	9/32	7
PP/3-32	25561	3/32	2.5	9/32	7
★PP/1-8	25562	1/8	3	9/32	7
★PP/5-32	25563	5/32	4	9/32	7
★PP/3-16	25564	3/16	5	5/16	8
PP/7-32	25565	7/32	5.5	5/16	8
★PP/1-4	25566	1/4	6	3/8	10
PP/5-16	25567	5/16	8	7/16	11
SETS					
★PP/4/ST	25568	A Set of 4 Pin Punches packed in vinyl pouch			
		1/8" (3mm)	5/32" (4mm)	3/16" (5mm)	1/4" (6mm)
PP/8/ST	25569	A Set of 8 Pin Punches packed in a vinyl pouch			
		1/16" (1.5mm)	3/32" (2.5mm)	1/8" (3mm)	5/32" (4mm)
		3/16" (5mm)	7/32" (5.5mm)	1/4" (6mm)	5/16" (8mm)
★PP/8/WD/ST	25580	A Set of 8 Pin Punches packed in a wooden box			
		1/16" (1.5mm)	3/32" (2.5mm)	1/8" (3mm)	5/32" (4mm)
		3/16" (5mm)	7/32" (5.5mm)	1/4" (6mm)	5/16" (8mm)

★ Best Seller



ORDERING INFORMATION

PIN PUNCHES — 6" (150 MM LONG)					
CAT NR.	ORD NR.	PIN DIAMETER (D)		BODY DIAMETER	
		(INCH)	(MM)	(INCH)	(MM)
PPR/1-16	25540	1/16	1.5	9/32	7
★PPR/3-32	25541	3/32	2.5	9/32	7
PPR/1-8	25542	1/8	3	9/32	7
★PPR/5-32	25543	5/32	4	9/32	7
★PPR/3-16	25544	3/16	5	5/16	8
PPR/7-32	25545	7/32	5.5	5/16	8
★PPR/1-4	25546	1/4	6	3/8	10
PPR/5-16	25547	5/16	8	1/2	11
PPR/3-8	25548	3/8	9.5	1/2	12
SETS					
★PPR/6/ST	25549	A Set of 6 Pin Punches packed in vinyl pouch			
		3/32" (2.5 mm)	1/8" (3mm)	5/32" (4mm)	3/16" (5mm)
		1/4" (6mm)	5/16" (8mm)		
PPR/8/ST	25550	A Set of 8 Pin Punches packed in a vinyl pouch			
		1/16" (1.5mm)	3/32" (2.5mm)	1/8" (3mm)	5/32" (4mm)
		3/16" (5mm)	7/32" (5.5mm)	1/4" (6mm)	5/16" (8mm)

★ Best Seller



ORDERING INFORMATION

PIN PUNCHES — 8" (200 MM LONG)					
CAT NR.	ORD NR.	PIN DIAMETER (D)		BODY DIAMETER	
		(INCH)	(MM)	(INCH)	(MM)
DDP/1-16	25500	1/16	1.5	23/64	9
DDP/3-32	25501	3/32	2.5	3/8	10
★DDP/1-8	25502	1/8	3	3/8	10
DDP/5-32	25503	5/32	4	3/8	10
★DDP/3-16	25504	3/16	5	1/2	12
★DDP/1-4	25505	1/4	6	1/2	12
★DDP/5-16	25506	5/16	8	1/2	12
DDP/3-8	25507	3/8	9.5	1/2	12
SETS					
★DDP/5/ST	25508	A Set of 5 Pin Punches packed in a vinyl pouch			
		1/8" (3mm)	3/16" (5mm)	1/4" (6mm)	5/16" (8mm)
		3/8" (9.5mm)			
★DDP/8/ST	25509	A Set of 8 Pin Punches packed in a vinyl pouch			
		1/16" (1.5mm)	3/32" (2.5mm)	1/8" (3mm)	5/32" (4mm)
		3/16" (5mm)	1/4" (6mm)	5/16" (8mm)	3/8" (9.5mm)

★ Best Seller

98 Starting Punches

Carbon steel single piece construction with hexagonal shank

Accurately hardened and tempered for extended service life

Working ends are machine ground with the body in premium powder coated finish

Used as a starting tool prior to using Pin Punches, these are useful for loosening frozen or tight pins and keys or knocking out rivets.



ORDERING INFORMATION

CAT NR.	ORD NR.	TIP DIAMETER (D)		STOCK SIZE		OVERALL LENGTH (L)	
		(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)
SGP/HD/1-16	25700	1/16	1.5	3/8	10	5	125
SGP/HD/3-32	25701	3/32	2.5	3/8	10	5	125
SGP/HD/1-8	25702	1/8	3	3/8	10	5	125
SGP/HD/1-8/SPL	25720	1/8	3	5/16	8	5	125
SGP/HD/5-32	25703	5/32	4	3/8	10	5	125
SGP/HD/3-16	25704	3/16	5	3/8	10	5	125
SGP/HD/7-32	25705	7/32	5.5	3/8	10	5.1/2	140
SGP/HD/1-4	25706	1/4	6	3/8	10	5	125
SGP/HD/5-16	25707	5/16	8	1/2	12	6	150
SGP/HD/3-8	25708	3/8	9.5	5/8	16	6.1/2	165
SGP/HD/1-2	25709	1/2	12	5/8	16	7	175

99 Drift Punches

Carbon steel single piece construction with hexagonal shank

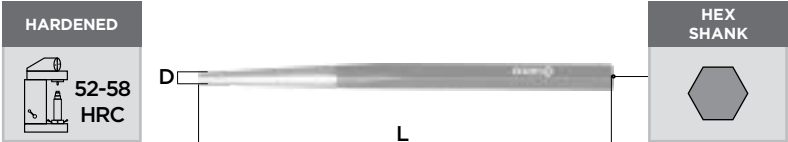
Accurately hardened and tempered for extended service life

Working ends are machine ground with the body in premium powder coated finish

Used for lining up holes in 2 or more pieces of metal and for drawing pins through various assemblies, these are also referred to as "Alignment Punches".



Insert the punch into the hole, pry or twist both into alignment. Tapping gently with the long well formed taper will ensure that the holes are in perfect alignment.



ORDERING INFORMATION

CAT NR.	ORD NR.	TIP DIAMETER (D)		STOCK SIZE		OVERALL LENGTH (L)	
		(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)
DFP/HD/3-32	25800	3/32	2.5	5/16	8	8	200
*DFP/HD/1-8	25801	1/8	3	5/16	8	8	200
*DFP/HD/5-32	25802	5/32	4	3/8	10	9	225
*DFP/HD/5-32/SPL	25822	5/32	4	1/2	13	10	250
*DFP/HD/3-16	25803	3/16	5	1/2	13	10	250
DFP/HD/3-16/SPL	25820	3/16	5	5/16	8	10	250
DFP/HD/7-32	25804	7/32	5.5	1/2	13	10	250
DFP/HD/7-32/SPL	25823	7/32	5.5	3/4	19	17.3/4	450
*DFP/HD/1-4	25805	1/4	6	5/8	16	12	300
DFP/HD/1-4/SPL	25821	1/4	6	3/8	10	10	250
DFP/HD/5-16	25806	5/16	8	3/4	19	12	300
DFP/HD/3-8	25807	3/8	9.5	3/4	19	15	375
DFP/HD/3-8/SPL	25824	3/8	9.5	5/8	16	10	250
DFP/HD/1-2	25808	1/2	12	7/8	22	18	450
SET							
DFP/HD/7/ST	25809	Set of 7 Drift Punches packed in vinyl pouch					
		1/8" (3mm)	5/32" (4mm)	3/16" (5mm)	7/32" (5.5mm)	1/4" (6mm)	5/16" (8mm) 3/8" (9.5mm)

* Best Seller

Underlined sizes find use in construction for aligning scaffoldings



DFP/HD/7/ST

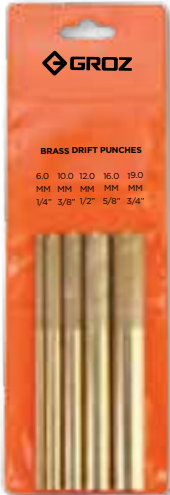
100 Brass Drift Punches

Brass Punches are ideal for delicate work on soft materials.

Non-marring, they do not cause damage to the material being worked upon. They have a single piece construction.

Brass Drift Punches are ideal for lining up holes in 2 or more pieces of metal and for drawing pins through various assemblies. These are also referred to as "Alignment Punches".

NEW!



DFP/5B/ST

ORDERING INFORMATION

CAT NR.	ORD NR.	TIP DIA (D)		OVERALL LENGTH (L)		
		(INCH)	(MM)	(INCH)	(MM)	
DFP/B/6	25840	1/4	6	5-13/16	147	
DFP/B/10	25841	3/8	10	5-13/16	147	
DFP/B/12	25842	1/2	12	5-13/16	147	
DFP/B/16	25843	5/8	16	5-13/16	147	
DFP/B/19	25844	3/4	19	5-13/16	147	
SET						
DFP/5B/ST	25850	A set of 5 Brass Drift Punches packed in a vinyl pouch				
		1/4" (6mm)	3/8" (10mm)	1/2" (12mm)	5/8" (16mm)	3/4" (19mm)

101 Roll Pin Punches

Carbon steel single piece construction with hexagonal shank

Accurately hardened and tempered for extended service life

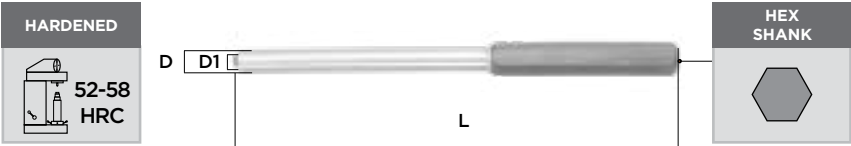
Working ends are machine ground with the body in premium powder coated finish

Chamfered striking end helps reduce mushrooming and chipping

Specifically designed to remove spring pins / roll pins. Heat treated point has a rounded ball to center the point into the pin allowing the point shoulder to maintain maximum contact with the pin during removal thus eliminating any damage to the pin or wall



Roll Pin Punch being used to remove spring pin from a gun



ORDERING INFORMATION

CAT NR.	ORD NR.	PIN DIAMETER (D)		BALL DIAMETER (D1)		OVERALL LENGTH (L)	
		(INCH)	(MM)	(INCH)	(MM)	INCH	MM
RPP/3-32	25640	3/32	2.5	1/16	1.25	3.1/2	89
RPP/1-8	25641	1/8	3	3/32	2.00	3.3/4	94
RPP/5-32	25642	5/32	4	7/64	2.75	4.1/2	114
RPP/3-16	25643	3/16	5	1/8	3.00	4.1/2	114
RPP/1-4	25644	1/4	6	5/32	4.00	5.1/2	140
RPP/5-16	25645	5/16	8	7/32	5.50	6	150
SET							
★RPP/6/ST	25646	A Set of 6 Roll Pin punches packed in a vinyl pouch					
		3/32" (2.5mm)	1/8" (3mm)	5/32" (4mm)	3/16" (5mm)	1/4" (6mm)	16" (8mm)

★ Best Seller

102 Hinge Centering Punch

Hinge Centering Punches are used for starting and centering screw holes when attaching countersunk hardware such as hinges, hangars, hasps, brackets, locks and drawer pulls.

Punch has a spring action with a hardened steel pin for convenient marking. The taper end of the punch ensures starting hole is correctly centered in the screw hole.

Ideal accessory for close quarter drilling



Punch being used to mark screw starting centres on a door frame



ORDERING INFORMATION

CAT NR.	ORD NR.	STOCK SIZE		OVERALL LENGTH	
		(INCH)	(MM)	(INCH)	(MM)
JCP/01	25004	3/8	10	3	78

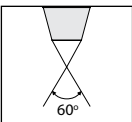
103 Prick Punches

Carbon steel single piece construction with hexagonal shank

Accurately hardened and tempered.

Working ends are accurately ground and the punch body is in premium powder coated finish

Ideal for marking metals in work layouts, these have a very sharp point (60° included angle), hence are highly suitable where very precise marking / scoring is required.



ORDERING INFORMATION

CAT NR.	ORD NR.	POINT SIZE (P)		STOCK SIZE		OVERALL LENGTH (L)	
		(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)
PKP/HD/1-4	25450	5/64	2	1/4	6	3	75
★PKP/HD/3-8	25451	5/32	4	3/8	10	5	125
PKP/HD/1-2	25452	1/4	6	1/2	12	6	150

★ Best Seller

104 Nail Punches

Carbon steel two piece construction with round shank and square striking head

Accurately hardened and tempered for extended service life

Clean and well cut knurling for non-slip and positive finger grip

3/8" (9.5 mm) square head provides a larger area for striking & also prevents the punch from rolling off.

Rust inhibiting black oxide finish

Designed for driving nail heads below the surface of wood. The working end is cupped to follow the nail head without sliding off.

These can also be used to remove nails that have an exposed point. Place the recessed tip against the point of the nail and strike the punch with a hammer to back the nail out of the hole.



NLP/SQ/3/ST



The working end is cupped to follow the nail head without sliding off



ORDERING INFORMATION

CAT NR.	ORD NR.	TIP DIAMETER		OVERALL LENGTH	
		(INCH)	(MM)	(INCH)	(MM)
★NLP/SQ/1-32	25360	1/32	0.80	4	100
★NLP/SQ/1-16	25361	1/16	1.5	4	100
★NLP/SQ/3-32	25362	3/32	2.5	4	100
★NLP/SQ/1-8	25363	1/8	3	4	100
NLP/SQ/5-32	25364	5/32	4	4	100
NLP/SQ/3-16	25365	3/16	5	4	100

SET

NLP/SQ/3/ST	25366	A set of 3 Nail Punches			
		1/32" (0.80mm)	1/16" (1.5mm)	3/32" (2.5mm)	

★ Best Seller

105 Automatic Centre Punches

Fully automatic single hand operated spring loaded punches

No Hammering - built-in mechanism delivers a punch just with the pressing of the head.

Variable depth impression simply by turning the knurled head. Screwing the cap downwards produces heavy indentation; progressively lighter marking can be obtained by screwing the cap upwards

Once the knurled cap is set to the desired position, the punch will strike the same depth every time.

Round shank with clean and well cut knurling for positive non-slip grip.

Tips are made from hardened tool steel and can be easily removed for re-sharpening or replacement.

- These are available in 3 types:
- a. **Automatic Centre Punch - Steel**
Useful for light marking jobs
 - b. **Automatic Centre Punch - Aluminium**
Useful for light marking job
 - c. **Automatic Centre Punch - Heavy Duty**
A heavy-duty version of the above steel punch. It is capable of making very deep indentations



ORDERING INFORMATION

CAT NR.	ORD NR.	BODY MATERIAL	BODY DIAMETER		OVERALL LENGTH (L)	
			(INCH)	(MM)	(INCH)	(MM)
AUTOMATIC CENTRE PUNCH - STEEL						
★ACP/1B	25000	Steel	1/2	13	4.3/4	120
AUTOMATIC CENTRE PUNCH - ALUMINIUM						
ACP/77	25005	Aluminium	1/2	13	5	128
AUTOMATIC CENTRE PUNCH - HEAVY DUTY						
ACP/78	25012	Steel	23/32	18	5.3/4	147
TH/TIP/ACP/78	25013	Steel	Spare tip holder & replacement tip set			

★ Best Seller



106 Steel Stamps

For hand held, hammer struck applications

Manufactured from select quality carbon steel.

Induction hardened, which gives durability and extended life for repeated use

Hardness at the stamping end is maintained at 58-62 HRC, the striking end is tempered to 35-42 HRC. This prevents the punch from splintering during use

The striking end is chamfered to prevent breakage and accidents due to flying splinters

These are available in two types

- a. **Plastic Case**
Standard Number stamps come in a plastic case with the exception of 1/2" (12 mm) which is packed to a metal case. Letter stamps come in a plastic case with the exception of 3/8" (10 mm) & 1/2" (12 mm) which are packed to a metal case.
- b. **Wood Case**
Both Number & Letter Stamp Sets are also available in a traditional wood case.



Indentation Actual size	E	8	E	8	E	8	E	8	E
Inch	1/16	3/32	1/8	5/32	3/16	1/4	5/16	3/8	1/2
Stamp size (mm)	1	2	3	4	5	6	8	10	12

ORDERING INFORMATION

NUMBER STAMP SET
The set contains 9 pieces, '0' - '9'. Numbers '6' & '9' are interchangeable

CAT NR.	ORD NR.	CAT NR.	ORD NR.	STAMP SIZE	
PLASTIC / METAL CASE		WOOD CASE		(INCH)	(MM)
NP/1	25900	NP/WD/1	25930	1/16	1
NP/2	25901	NP/WD/2	25931	3/32	2
★NP/3	25902	NP/WD/3	25932	1/8	3
NP/4	25903	NP/WD/4	25933	5/32	4
★NP/5	25904	NP/WD/5	25934	3/16	5
★NP/6	25905	NP/WD/6	25935	1/4	6
NP/8	25906	NP/WD/8	25936	5/16	8
NP/10	25907	NP/WD/10	25937	3/8	10
NP/12	25908	NP/WD/12	25938	1/2	12

★ Best Seller

LETTER STAMP SET
The set contains 27 pieces, alphabets 'A' through 'Z' and ampersand '&'

CAT NR.	ORD NR.	CAT NR.	ORD NR.	STAMP SIZE	
PLASTIC / METAL CASE		WOOD CASE		(INCH)	(MM)
LP/1	26100	LP/WD/1	26130	1/16	1
LP/2	26101	LP/WD/2	26131	3/32	2
★LP/3	26102	LP/WD/3	26132	1/8	3
LP/4	26103	LP/WD/4	26133	5/32	4
★LP/5	26104	LP/WD/5	26134	3/16	5
★LP/6	26105	LP/WD/6	26135	1/4	6
LP/8	26106	LP/WD/8	26136	5/16	8
LP/10	26107	LP/WD/10	26137	3/8	10
LP/12	26108	LP/WD/12	26138	1/2	12

★ Best Seller

107 Hollow & Arch Punches

Ideal for punching round holes in gasket material, leather, rubber, canvas, cardboard, plastic & other soft material.

Special design of the cutting edge prevents jamming of material inside the punch. Cutting edge is induction hardened for extended working life.

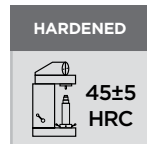
These are built in two different styles:

a. Hollow Punches

- Machined single piece steel cylindrical construction
- Designed to cut small holes ranging from 3/32" (2mm) to 1" (25mm) diameter

b. Arch Punches

- Arch / Bell Type construction
- Larger form with a long shaft for convenient holding.
- Designed to cut holes ranging from 3/16" (5mm) to 2.3/4" (70 mm)



Hollow Punches



Arch Punches



ORDERING INFORMATION

CAT NR.	ORD NR.	HOLE DIAMETER	
		(INCH)	(MM)
HOLLOW PUNCHES			
HPL/2	26302	3/32	2
★HPL/3	26303	1/8	3
HPL/4	26304	5/32	4
★HPL/5	26305	3/16	5
HPL/5.5	26371	7/32	5.5
★HPL/6	26306	1/4	6
HPL/7	26307	9/32	7
★HPL/8	26308	5/16	8
HPL/9	26309	23/64	9
★HPL/10	26310	3/8	10
HPL/10.5	26372	13/32	10.5
HPL/11	26311	7/16	11
★HPL/12	26312	1/2	12
HPL/13	26313	17/32	13
HPL/14	26314	9/16	14
HPL/15	26315	19/32	15
★HPL/16	26316	5/8	16
HPL/17	26317	11/16	17
HPL/18	26318	23/32	18
★HPL/19	26319	3/4	19
HPL/20	26320	13/16	20
HPL/21	26321	27/32	21
★HPL/22	26322	7/8	22
HPL/23	26323	29/32	23
HPL/24	26324	15/16	24
★HPL/25	26325	1	25

★ Best Seller

CAT NR.	ORD NR.	HOLE DIAMETER (D)	
		(INCH)	(MM)
ARCH PUNCHES			
★HPL/5/BEL	26400	3/16	5
★HPL/6/BEL	26401	1/4	6
★HPL/8/BEL	26402	5/16	8
★HPL/10/BEL	26403	3/8	10
HPL/11/BEL	26404	7/16	11
★HPL/12/BEL	26405	1/2	12
HPL/14/BEL	26406	9/16	14
★HPL/16/BEL	26407	5/8	16
HPL/18/BEL	26408	23/32	18
★HPL/19/BEL	26409	3/4	19
HPL/21/BEL	26410	27/32	21
★HPL/22/BEL	26411	7/8	22
HPL/24/BEL	26412	15/16	24
★HPL/25/BEL	26413	1	25
HPL/26	26326	1.1/64	26
HPL/27	26327	1.1/16	27
HPL/28	26328	1.3/32	28
HPL/29	26329	1.1/8	29
★HPL/30	26330	1.3/16	30
HPL/31	26331	1.7/32	31
★HPL/32	26332	1.1/4	32
HPL/33	26333	1.5/16	33
HPL/34	26334	1.11/32	34
HPL/35	26335	1.3/8	35
HPL/36	26336	1.13/32	36
HPL/37	26337	1.15/32	37



HPL/7/BEL/ST



HPL/6/ST



HPL/10/ST



HPL/14/ST

CAT NR.	ORD NR.	HOLE DIAMETER (D)	
		(INCH)	(MM)
ARCH PUNCHES (CONTINUED)			
★HPL/38	26338	1.1/2	38
HPL/39	26339	1.17/32	39
HPL/40	26340	1.9/16	40
HPL/41	26341	1.5/8	41
HPL/42	26342	1.21/32	42
HPL/43	26343	1.11/16	43
HPL/44	26344	1.23/32	44
HPL/45	26345	1.25/32	45
HPL/46	26346	1.13/16	46
HPL/47	26347	1.27/32	47
HPL/48	26348	1.7/8	48
HPL/49	26349	1.15/16	49
★HPL/50	26350	2	50
HPL/52	26352	2.5/64	52
HPL/54	26354	2.5/32	54
HPL/55	26355	2.3/16	55
HPL/57	26357	2.9/32	57
HPL/58	26358	2.19/64	58
HPL/60	26360	2.3/8	60
HPL/62	26362	2.15/32	62
HPL/63	26363	2.1/2	63
HPL/65	26365	2.9/16	65
HPL/67	26367	2.21/32	67
HPL/68	26368	2-11/16	68
HPL/70	26370	2.3/4	70

CAT NR.	ORD NR.	CONSTITUENTS						
SETS								
HPL/5/ST	26390	A set of 5 Hollow punches packed in a vinyl pouch:						
		3/32" (2mm)	5/32" (4mm)	1/4" (6mm)	5/16" (8mm)	3/8" (10mm)		
HPL/5/BEL/ST	26440	A set of 5 Bell type Arch punches packed in a vinyl pouch:						
		1/4" (6mm)	3/8" (10mm)	1/2" (12mm)	5/8" (16mm)	3/4" (19mm)		
★HPL/6/ST	26391	A set of 6 Hollow punches packed in a vinyl pouch:						
		3/16" (5mm)	1/4" (6mm)	5/16" (8mm)	3/8" (10mm)	7/16" (11mm)	1/2" (12mm)	
HPL/7/ST	26392	A set of 7 punches packed in a vinyl pouch						
		1/4" (6mm)	5/16" (8mm)	3/8" (10mm)	7/16" (11mm)	7/32" (13mm)	5/8" (16mm)	3/4" (19mm)
★HPL/7/BEL/ST	26441	A set of 7 Bell type Arch punches packed in a vinyl pouch:						
		1/4" (6mm)	3/8" (10mm)	1/2" (12mm)	5/8" (16mm)	3/4" (19mm)	7/8" (22mm)	1" (25mm)
HPL/7A/BEL/ST	26442	A set of 7 Bell type Arch punches packed in a vinyl pouch						
		3/16" (5mm)	5/16" (8mm)	7/16" (11mm)	9/16" (14mm)	23/32" (18mm)	27/32" (21mm)	15/16" (24mm)
★HPL/10/ST	26395	A set of 10 Hollow punches packed in a vinyl pouch:						
		1/4" (6mm)	5/16" (8mm)	3/8" (10mm)	7/16" (11mm)	17/32" (13mm)	9/16" (14mm)	5/8" (16mm)
		3/4" (19mm)	7/8" (22mm)	1" (25mm)				
★HPL/14/ST	26396	A set of 14 punches packed in a wooden box:						
		1/4" (6mm)	5/16" (8mm)	3/8" (10mm)	7/16" (11mm)	17/32" (13mm)	9/16" (14mm)	5/8" (16mm)
		3/4" (19mm)	7/8" (22mm)	1" (25mm)	1.3/16" (30mm)	1.1/4" (32mm)	1.3/8" (35mm)	1.1/2" (38mm)
HPL/16/ST	26397	A set of 16 punches in sizes packed in a wooden box:						
		1/4" (6mm)	5/16" (8mm)	3/8" (10mm)	7/16" (11mm)	17/32" (13mm)	9/16" (14mm)	5/8" (16mm)
		3/4" (19mm)	7/8" (22mm)	1" (25mm)	1.3/16" (30mm)	1.1/4" (32mm)	1.3/8" (35mm)	1.1/2" (38mm)
		1.25/32" (45mm)	2" (50mm)					

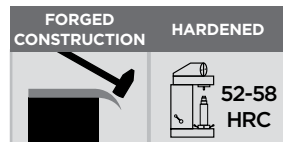
108 Cold Chisels

Individually forged from high quality steel.

Precisely ground cutting edge induction hardened (52-58 HRC) for improved performance & durability

Hardness at the striking end is maintained to under 42 HRC, so that the head will not splinter when subject to hammer blows.

Powder coated shank with accurately ground cutting edge



These are available in the following types:

a. Octagonal Cold Chisels

- Used for general purpose work on cutting and chipping of metals, and shaping, facing and cutting of stonework
- Extra long chisels are useful for all cutting and shaping jobs where extra length is required
- Larger sizes are also available with strong impact proof polypropylene hand guards designed to protect the user's hands from misplaced hammer blows



b. Concrete Point Chisels

- Useful for breaking up concrete floors, sidewalks etc.
- Channels in concrete floors should be marked out with a flat chisel before using the Concrete Point Chisel for stock removal.
- Larger sizes are also available with strong impact proof polypropylene hand guards designed to protect the user's hands from misplaced hammer blows



Octagonal Cold Chisels



Octagonal Cold Chisels With Guard



Concrete Point Chisels



ORDERING INFORMATION

CAT NR.	ORD NR.	BLADE WIDTH (W)		OVERALL LENGTH (L)	
		(INCH)	(MM)	(INCH)	(MM)
OCTAGONAL COLD CHISELS					
CHS/4/1-4	32827	1/4	6	4	100
CHS/5/1-4	32800	1/4	6	5	125
CHS/6/1-4	32828	1/4	6	1/4	150
CHS/5/5-16	32801	5/16	8	5	125
CHS/4/3-8	32817	3/8	10	4	100
CHS/5/3-8	32829	3/8	10	5	125
CHS/5.5/3-8	32802	3/8	10	5.1/2	140
★CHS/6/1-2	32803	1/2	13	6	150
CHS/8/1-2	32818	1/2	13	8	200
CHS/10/1-2	32831	1/2	13	10	250
CHS/12/1-2	32810	1/2	13	12	300
CHS/6.5/5-8	32804	5/8	16	6.1/2	163
CHS/7/5-8	32819	5/8	16	7	175
CHS/12/5-8	32811	5/8	16	12	300
CHS/18/5-8	32820	5/8	16	18	450
CHS/7/3-4	32805	3/4	19	7	175
★CHS/8/3-4	32825	3/4	19	8	200
★CHS/10/3-4	32826	3/4	19	10	250
★CHS/12/3-4	32812	3/4	19	12	300
CHS/18/3-4	32815	3/4	19	18	450
CHS/24/3-4	32832	3/4	19	24	600
CHS/7.5/7-8	32806	7/8	22	7.1/2	190
CHS/8/7-8	32821	7/8	22	8	200
CHS/12/7-8	32813	7/8	22	12	300

CAT NR.	ORD NR.	BLADE WIDTH (W)		OVERALL LENGTH (L)	
		(INCH)	(MM)	(INCH)	(MM)
CHS/8/0-1	32807	1	25	8	200
CHS/9/0-1	32833	1	25	9	225
★CHS/10/0-1	32823	1	25	10	250
★CHS/12/0-1	32814	1	25	12	300
CHS/15/0-1	32824	1	25	15	380
CHS/18/0-1	32816	1	25	18	450
CHS/24/0-1	32834	1	25	24	600
SET - OCTAGONAL COLD CHISEL					
CHS/6/ST	32830	A set of 6 Chisels packed in a vinyl pouch:			
		5"x 1/4" (125 x 6mm)			
		5" x 5/16"(125 x 8mm)			
		5.5"x 3/8" (140 x 10mm)			
		6"x1/2"(150 x 13mm)			
		6.5"x 5/8" (163 x 16mm)			
7" x 3/4" (175 x 19mm)					
OCTAGONAL COLD CHISELS WITH GRIP GUARD					
★CHS/10/3-4/GRP/YE	32841	3/4	19	10	250
★CHS/12/3-4/GRP/YE	32843	3/4	19	12	300
CHS/18/3-4/GRP/YE	32845	3/4	19	18	450
CHS/8/0-1/GRP/YE	32840	1	25	8	200
★CHS/10/0-1/GRP/YE	32842	1	25	10	250
★CHS/12/0-1/GRP/YE	32844	1	25	12	300
CHS/18/0-1/GRP/YE	32846	1	25	18	450

* Best Seller

CAT NR.	ORD NR.	POINT SIZE (P)		OVERALL LENGTH (L)	
		(INCH)	(MM)	(INCH)	(MM)
CONCRETE POINT CHISELS					
CRP/150-13	32650	5/32	4	6	150
CRP/200-13	32651	5/32	4	8	200
CRP/250-16	32652	7/32	5	10	250
★CRP/250-19	32653	1/4	6	10	250
★CRP/300-19	32654	1/4	6	12	300
CONCRETE POINT CHISELS WITH GUARD					
CRP/250-19/GRP	32661	1/4	6	10	250
CRP/300-19/GRP	32662	1/4	6	12	300

* Best Seller

109 Bolsters

Single piece forging from high quality carbon steel, accurately hardened to BS 3066 specification.

Precisely ground cutting edge induction hardened (52-58 HRC) for improved performance & durability

Hardness at the striking end is maintained to under 42 HRC, so that the head will not splinter when subject to hammer blows

Powder coated bolster with accurately ground cutting edge

Safety warning permanently etched on each bolster

Bolsters are also available with strong impact proof polypropylene hand guards designed to protect the user's hands from misplaced hammer blows



a. Brick Bolsters
Brick Bolsters are used for cutting brick, stone & paving slabs. These should not be used on concrete containing reinforcing bars



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



ORDERING INFORMATION

CAT NR.	ORD NR.	BLADE WIDTH (W)		STOCK SIZE		OVERALL LENGTH (L)	
		(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)
BRICK BOLSTERS							
★BRC/75	32601	3	75	7/8	22	9	230
★BRC/100	32602	4	100	7/8	22	9	230
BRICK BOLSTERS WITH GUARD							
★BRC/75/GRP/YE	32621	3	75	7/8	22	9	230
★BRC/100/GRP/YE	32622	4	100	7/8	22	9	230
ELECTRICIAN'S BOLSTER / FLOOR CHISELS							
★FLR/CHS/9/2-1-2	32642	2.1/2	63	5/8	16	9	230
FLOOR CHISELS / ELECTRICIAN BOLSTERS WITH GUARD							
★FLR/CHS/9/2-1-2/GRP/YE	32643	2.1/2	63	5/8	16	9	230

★ Best Seller

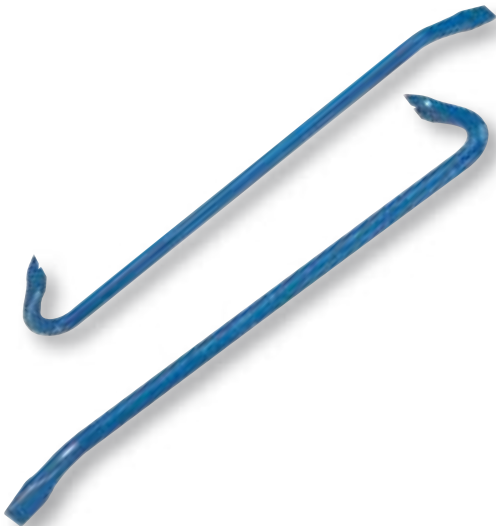
110 Wrecking Bars

WB

Forged from octagonal section steel

Attractive powder coated finish

Suited for leveraging timber and for pulling out nails from timber, dismantling wooden crates etc.



CAT NR.	ORD NR.	LENGTH		SECTION	
		(INCH)	(MM)	(INCH)	(MM)
WB/000	33100	12	300	5/8	16
WB/00	33101	16	400	5/8	16
★WB/01	33102	18	450	5/8	16
WB/02	33103	20	500	5/8	16
★WB/03	33104	24	600	3/4	19
WB/04	33105	28	700	3/4	19
WB/05	33106	30	750	3/4	19
WB/07	33108	36	900	3/4	19
WB/06	33107	40	1000	3/4	19

★ Best Seller

111 Heavy Duty Construction Bars

HDPR

Forged Chrome Steel blade welded to tubular steel bar

Extra-long bar provides higher leverage reducing effort for performing heavier jobs

Heat treated blade hardened 35-45 HRC

Designed for heavy duty prying applications & demolition work. Used to pull, lift, scrape & wedge metal, wood & stone with less effort

Powder coated for increased resistance to corrosion



NEW!

ORDERING INFORMATION

CAT NR.	ORD NR.	LENGTH (L)		BLADE WIDTH		BLADE THICKENSS		HANDLE CROSS SECTION		WEIGHT	
		(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)	(KGS)	(LBS)
HDPR/46	33140	46	1170	3.35	85	0.27	7	1-1/2 x 1 x 0.078	38 x 25 x 2	3.1	6.85
HDPR/56	33141	56	1425	3	76	1/2	13	2 x 1 x 1/8	51 x 25 x 3	6.2	13.65

112 Punch & Chisel Sets

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



KIT/24/ST
24 pc punch & chisel set

ORDERING INFORMATION

CAT NR. KIT/24/ST		ORD NR. 33003				
CONSTITUENTS	BLADE WIDTH		STOCK SIZE		OVERALL LENGTH	
	(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)
OCTAGONAL COLD CHISELS						
CHS/5/1-4	1/4	6	1/4	6	5	125
CHS/5/5-16	5/16	8	1/4	6	5	125
CHS/5.5/3-8	3/8	10	5/16	8	5.1/2	140
CHS/6/1-2	1/2	13	7/16	11	6	150
CHS/6.5/5-8	5/8	16	1/2	13	6.1/2	163
CHS/7/3-4	3/4	19	5/8	16	7	175
CHS/7.5/7-8	7/8	22	3/4	19	7.1/2	190
CENTRE PUNCHES – HEAVY DUTY						
CP/HD/1-4	1/4	6	1/2	12	6	150
CP/HD/5-32	5/32	4	3/8	10	5	125
CP/HD/5-64	5/64	2	1/4	6	3.1/2	90
PIN PUNCHES – HEAVY DUTY						
PP/HD/1-16	1/16	1.5	1/4	6	4	100
PP/HD/3-32	3/32	2.5	5/16	8	4.1/2	112
PP/HD/1-8	1/8	3	5/16	8	4.3/4	119
PP/HD/5-32	5/32	4	5/16	8	5	125
PP/HD/3-16	3/16	5	3/8	10	5.1/4	132
PP/HD/1-4	1/4	6	3/8	10	5.3/4	145
PP/HD/5-16	5/16	8	7/16	11	6	150
STARTING PUNCHES – HEAVY DUTY						
SGP/HD/1-16	1/16	1.5	3/8	10	5	125
SGP/HD/1-8	1/8	3	3/8	10	5	125
SGP/HD/5-32	5/32	4	3/8	10	5	125
SGP/HD/3-16	3/16	5	3/8	10	5	125
SGP/HD/1-4	1/4	6	3/8	10	5	125
SGP/HD/5-16	5/16	8	1/2	12	6	150
ACP/1B	Automatic Center Punch, Black Powder Coated – Length 4.3/4" (120 mm), Body Diameter 33/64" (13 mm)					



KIT/26/ST
26 pc punch & chisel set

CAT NR. KIT/26/ST		ORD NR. 33004				
CONSTITUENTS	BLADE WIDTH		STOCK SIZE		OVERALL LENGTH	
	(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)
OCTAGONAL COLD CHISELS						
CHS/ST/5/1-4	1/4	6	1/4	6	5	125
CHS/5/5-16	5/16	8	1/4	6	5	125
CHS/5.5/3-8	3/8	10	5/16	8	5.1/2	140
CHS/6/1-2	1/2	13	7/16	11	6	150
CHS/6.5/5-8	5/8	16	1/2	13	6.1/2	163
CHS/7/3-4	3/4	19	5/8	16	7	175
CHS/7.5/7-8	7/8	22	3/4	19	7.1/2	190
CHS/8/0-1	1	25	1/2	13	8	200
CHS/12/1-2	1/2	13	7/16	11	12	300
CENTRE PUNCHES – HEAVY DUTY						
CP/HD/1-4	1/4	6	1/2	12	6	150
CP/HD/3-8	3/8	10	5/8	16	6.1/4	160
CP/HD/5-32	5/32	4	3/8	10	5	125
PIN PUNCHES – HEAVY DUTY						
PP/HD/3-32	3/32	2.5	5/16	8	4.1/2	112
PP/HD/1-8	1/8	3	5/16	8	4.3/4	119
PP/HD/5-32	5/32	4	5/16	8	5	125
PP/HD/3-16	3/16	5	3/8	10	5.1/4	132
PP/HD/1-4	1/4	6	3/8	10	5.3/4	145
PP/HD/3-8	3/8	10	1/2	12	6.1/2	163
STARTING PUNCHES – HEAVY DUTY						
SGP/HD/1-16	1/16	1.5	3/8	10	5	125
SGP/HD/1-8	1/8	3	3/8	10	5	125
SGP/HD/3-16	3/16	5	3/8	10	5	125
SGP/HD/1-4	1/4	6	3/8	10	5	125
DRIFT PUNCHES – HEAVY DUTY						
DFP/HD/1-8	1/8	3	5/16	8	8	200
DFP/HD/3-16	3/16	5	1/2	12	10	250
DFP/HD/1-4	1/4	6	5/8	16	12	300
DRIFT PUNCHES – HEAVY DUTY						
PKP/HD/3-8	5/32	4	3/8	10	5	125



KIT/14/ST
14 pc punch & chisel set

CAT NR. KIT/14/ST		ORD NR. 33001				
CONSTITUENTS	BLADE WIDTH		STOCK SIZE		OVERALL LENGTH	
	(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)
OCTAGONAL COLD CHISELS						
CHS/5.5/3-8	3/8	10	5/16	8	5.1/2	140
CHS/6/1-2	1/2	13	7/16	11	6	150
CHS/6.5/5-8	5/8	16	1/2	13	6.1/2	163
CHS/7/3-4	3/4	19	5/8	16	7	175
CHS/7.5/7-8	7/8	22	3/4	19	7.1/2	190
CENTRE PUNCHES - HEAVY DUTY						
CP/HD/5-32	5/32	4	3/8	10	5	125
CP/HD/1-4	1/4	6	1/2	12	6	150
PIN PUNCHES - HEAVY DUTY						
PP/HD/1-16	1/16	1.5	1/4	6	4	100
PP/HD/1-8	1/8	3	5/16	8	4.3/4	119
PP/HD/3-16	3/16	5	3/8	10	5.1/4	132
DRIFT PUNCHES - HEAVY DUTY						
DFP/HD/1-8	1/8	3	5/16	8	8	200
DFP/HD/5-32	5/32	4	3/8	10	9	225
STARTING PUNCHES - HEAVY DUTY						
SGP/HD/5-16	5/16	8	1/2	12	6	150
SGP/HD/1-8	1/8	3	3/8	10	5	125

Punch & Chisel Sets (continued)



KIT/8/ST
24 pc punch & chisel set

CAT NR. KIT/8/ST		ORD NR. 33000				
CONSTITUENTS	BLADE WIDTH		STOCK SIZE		OVERALL LENGTH	
	(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)
OCTAGONAL COLD CHISELS						
CHS/6/1-2	1/2	13	7/16	11	6	150
CHS/6.5/5-8	5/8	16	1/2	13	6.1/2	163
CHS/7/3-4	3/4	19	5/8	16	7	175
CENTRE PUNCHES - HEAVY DUTY						
CP/HD/5-32/ SPL	5/32	4	5/16	10	5.1/2	125
PIN PUNCHES - HEAVY DUTY						
PP/HD/1-8	1/8	3	5/16	8	4.3/4	119
PP/HD/3-16/SPL	3/16	5	5/16	8	5.1/4	132
PP/HD/1-4	1/4	6	3/8	10	5.3/4	145
STARTING PUNCHES - HEAVY DUTY						
SGP/HD/3-16	3/16	5	3/8	10	5	125



KIT/16/ST
16 pc punch & chisel set

CAT NR. KIT/16/ST		ORD NR. 33002				
CONSTITUENTS	BLADE WIDTH		STOCK SIZE		OVERALL LENGTH	
	(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)
OCTAGONAL COLD CHISELS						
CHS/5/5-16	5/16	8	1/4	6	5	125
CHS/6/1-2	1/2	13	7/16	11	6	150
CHS/6.5/5-8	5/8	16	1/2	13	6.1/2	163
CHS/7/3-4	3/4	19	5/8	16	7	175
CHS/8/7-8/SPL	7/8	22	5/8	16	8	200
CENTRE PUNCHES - HEAVY DUTY						
CP/HD/1-8	1/8	3	5/16	8	4.1/4	108
CP/HD/5-32/SPL	5/32	4	5/16	8	5.1/2	138
CP/HD/1-4/SPL	1/4	6	3/8	10	6	150
PIN PUNCHES - HEAVY DUTY						
PP/HD/1-8	1/8	3	5/16	8	4.3/4	119
PP/HD/3-16/SPL	3/16	5	5/16	8	5.1/4	132
PP/HD/1-4	1/4	6	3/8	10	5.3/4	145
DRIFT PUNCHES - HEAVY DUTY						
DFP/HD/3-16/ SPL	3/16	5	5/16	8	10	250
DFP/HD/1-4/SPL	1/4	6	3/8	9.5	10	250
STARTING PUNCHES - HEAVY DUTY						
SGP/HD/1-8/SPL	1/8	3	5/16	8	5	125
SGP/HD/3-16	3/16	5	3/8	10	5	125
SGP/HD/1-4	1/4	6	3/8	10	5	125



KIT/7/ST
7 pc punch & chisel set

CAT NR. KIT/7/ST		ORD NR.33005				
CONSTITUENTS	BLADE WIDTH		STOCK SIZE		OVERALL LENGTH	
	(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)
OCTAGONAL COLD CHISELS						
CHS/6/1-2	1/2	13	7/16	11	6	150
CHS/6.5/5-8	5/8	16	1/2	13	6.1/2	163
CHS/7/3-4	3/4	19	5/8	16	7	175
CENTRE PUNCHES - HEAVY DUTY						
CP/HD/5-32	5/32	4	5/16	8	5.1/2	138
PIN PUNCHES - HEAVY DUTY						
PP/HD/1-8	1/8	3	5/16	8	4.3/4	119
PP/HD/3-16/SPL	3/16	5	5/16	8	5.1/4	132
DRIFT PUNCHES - HEAVY DUTY						
DFP/HD/5-32	5/32	4	3/8	10	9	230



KIT/13/ST
13 pc punch & chisel set

CAT NR. KIT/13/ST		ORDNR. 33006				
CONSTITUENTS	BLADE WIDTH		STOCK SIZE		OVERALL LENGTH	
	(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)
OCTAGONAL COLD CHISELS						
CHS/6/1-2	1/2	13	7/16	11	6	150
CHS/6.5/5-8	5/8	16	1/2	13	6.1/2	163
CHS/7/3-4	3/4	19	5/8	16	7	175
CENTRE PUNCHES – HEAVY DUTY						
CP/HD/1-4	1/4	6	1/2	13	6	150
PIN PUNCHES – HEAVY DUTY						
PP/HD/1-8	1/8	3	5/16	8	4.3/4	119
PP/HD/3-16/SPL	3/16	5	5/16	8	5.1/4	132
PP/HD/1-4	1/4	6	3/8	10	5.3/4	145
PP/HD/5-16	5/16	8	7/16	11	6	150
PP/HD/3-32/SPL	3/32	2.5	1/4	6	4.1/4	108
DRIFT PUNCHES – HEAVY DUTY						
DFP/HD/3-16	3/16	5	1/2	13	10	250
DFP/HD/5-32/SPL	5/32	4	1/2	13	10	250
DFP/HD/3-8/SPL	3/8	10	5/8	16	10	250
PRICK PUNCHES – HEAVY DUTY						
PKP/HD/3-8	3/8	10	3/8	10	5	125

Built to withstand the shocks of hammering, chipping and other tough applications

All steel construction

Fixed base vices with an integrated anvil for shaping and beating

Extra heavy-duty sliding jaw and large diameter screw.

Forged tommy bar along with the steel main screw helps in effective transmission of pressure on the work piece.

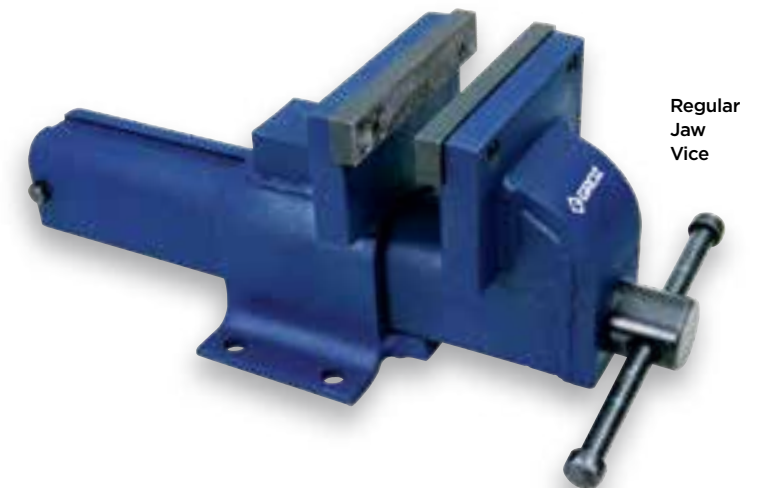
Carbon Steel jaws are hardened 50 ± 5 HRC to withstand tough use and are serrated for non-slip grip.

Safety stopper provided at the end of slide prevents slide from fall during usage.

Also available is the Offset Jaw Vice: Offset jaw design allows for unlimited vertical depth for holding long jobs without any obstruction from the vice slide



Offset jaws hold long & bulky jobs without obstruction from the vice slide



Regular
Jaw
Vice



Offset
Jaw
Vice

ORDERING INFORMATION

CAT NR.	ORD NR.	JAW WIDTH		JAW OPENING		THROAT DEPTH		NET WT
		(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)	(KGS)
REGULAR JAW VICES								
EBV/F/100	35450	4	100	4.3/4	120	3.5/32	80	6.30
★EBV/F/150	35451	6	150	6	150	3.5/8	90	18.00
★EBV/F/200	35452	8	200	8	200	4.3/8	110	37.500
EBV/F/250	35458	10	250	10	250	4-23/32	120	43.00
EBV/F/300	35459	12	300	12	300	6	150	46.50
OFFSET JAW VICES								
OBV/F/100	35460	4	100	4.3/4	120	—	—	7.00
★OBV/F/150	35461	6	150	7	175	—	—	20.00
OBV/F/200	35462	8	200	8	200	—	—	40.00

★ Best Seller

VICES & CLAMPS

ALL STEEL



Rigid & robust cast vices with excellent shock bearing capacity and high strength under compression

Fully machined front jaw beam fully encloses vice spindle protecting threads from contaminants & damage

Unbreakable SG Iron nut ensures maximum thread surface contact and constant alignment between body and the sliding jaw.

Perfect alignment of main screw and nut reduces wear and gives long trouble free service

Jaws hardened 45± 5 HRC for increased resistance to wear.

Knurling on jaws ensures a firm grip of the work piece

Vice body has an attractive powder coated finish with main screw and handle chrome plated. The anvil has a ground finish

Available with:

1. Fixed Base
2. Swivel Base

Vice can rotate 360° making it useful in confined spaces or in applications where the angle of the vice has to be changed frequently to accept work of varying lengths. The swivel base can be conveniently removed and the vice converted back to a regular fixed base vice

These are available in 2 types:

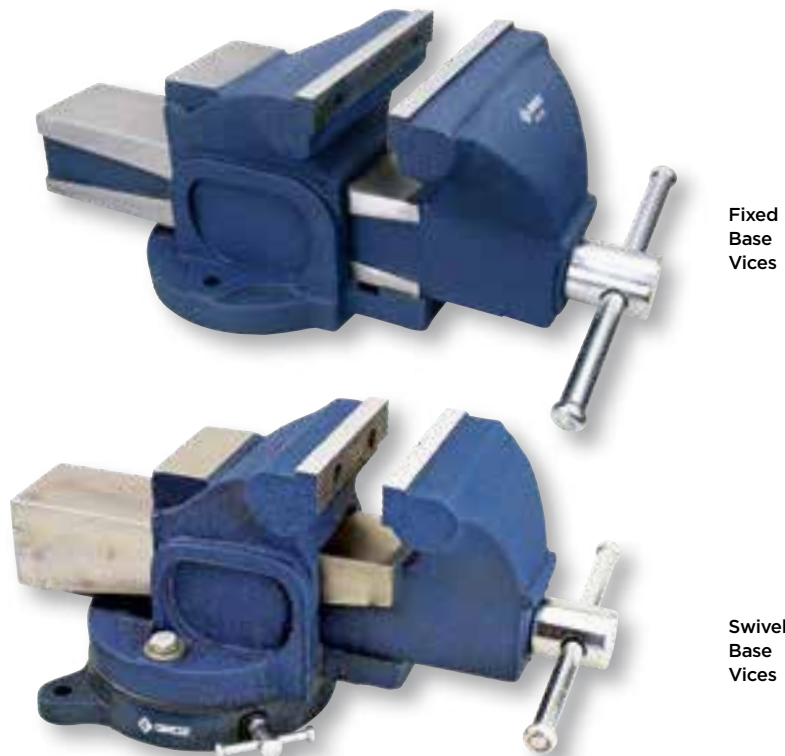
a. Heavy Duty Mechanic's BV Series Vices

Amongst the heaviest and most sturdy vices in the market place. The strong body, heavy slide jaw and large diameter main screw are designed to withstand tough usage in industrial applications and training workshops. Swivel bases are available as spares

b. Mechanic's BNV Series Vices

- Though lighter in weight than the Heavy Duty model, these are extremely sturdy and very useful in general purpose workshop applications
- These vices are designed for gripping / holding jobs and should not be used where heavy hammering is anticipated

Heavy Duty Mechanic's BV Series Vices



Fixed Base Vices

Swivel Base Vices

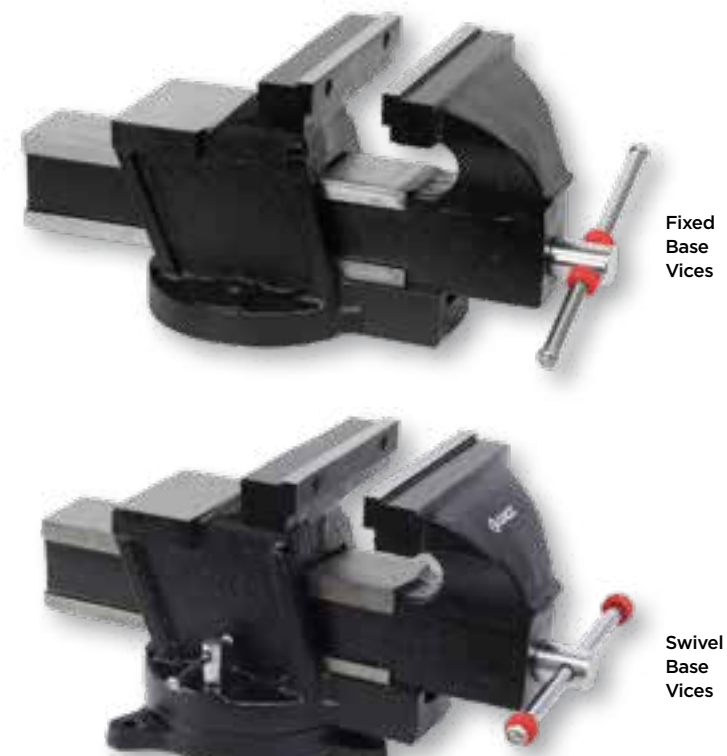
ORDERING INFORMATION

CAT NR.	ORD NR.	JAW WIDTH		JAW OPENING		THROAT DEPTH		NET WT. EACH
		(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)	
FIXED BASE VICES								
BV/F/75	35400	3	75	4	100	2	50	5.500
★BV/F/100	35401	4	100	5	125	2.5/32	55	9.700
BV/F/125	35402	5	125	6	150	2.3/4	70	14.700
★BV/F/150	35403	6	150	7	175	3.5/32	80	18.200
BV/F/200	35404	8	200	8	200	4	100	30.400
SWIVEL BASE VICES								
BV/S/75	35405	3	75	4	100	2	50	6.500
BV/S/100	35406	4	100	5	125	2.5/32	55	11.800
★BV/S/125	35407	5	125	6	150	2.3/4	70	18.000
★BV/S/150	35408	6	150	7	175	3.5/32	80	22.000
BV/S/200	35409	8	200	8	200	4	100	36.400

CAT NR.	ORD NR.	SUITABLE FOR VICE WITH JAW WIDTH	
		(INCH)	(MM)
SWIVEL BASES			
SWB/75	35420	3	75
SWB/100	35421	4	100
SWB/125	35422	5	125
SWB/150	35423	6	150
SWB/200	35424	8	200

★ Best Seller

Mechanic's BNV Series Vices



Fixed Base Vices

Swivel Base Vices

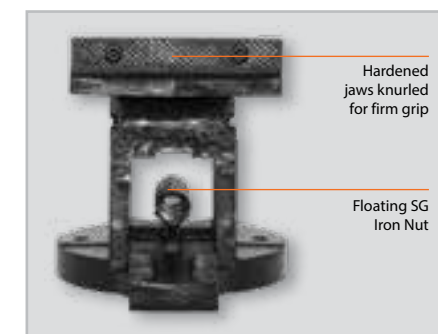
ORDERING INFORMATION

CAT NR.	ORD NR.	JAW WIDTH		JAW OPENING		THROAT DEPTH		NET WT EACH
		(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)	(KG)
FIXED BASE								
★BNV/F/100	35471	4	100	4	100	2-9/32	58	7.00
BNV/F/125	35472	5	125	5	125	2-7/8	72	10.50
★BNV/F/150	35473	6	150	6	150	3-1/8	79	13.50
BNV/F/200	35474	8	200	8	200	3-9/64	80	21.50
SWIVEL BASE								
BNV/S/100	35481	4	100	4	100	2-9/32	58	8.00
BNV/S/125	35482	5	125	5	125	2-7/8	72	12.00
★BNV/S/150	35483	6	150	6	150	3-1/8	79	15.50
BNV/S/200	35484	8	200	8	200	3-9/64	80	24

★ Best Seller

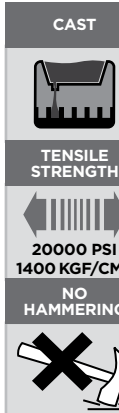


Forged Spindle with Square Threads



Hardened jaws knurled for firm grip

Floating SG Iron Nut



115 Drill Press Vices Unigrip

Low profile & compact vices are suitable for use with drill stands, bench drills and drill presses in metal and woodworking applications

Graded cast iron construction with precision ground base and vice bed

Fixed jaw with 3 longitudinal and 1 transversal prisms for firm gripping of round stock both horizontally and vertically

Special seat in jaws for clamping of low height work pieces

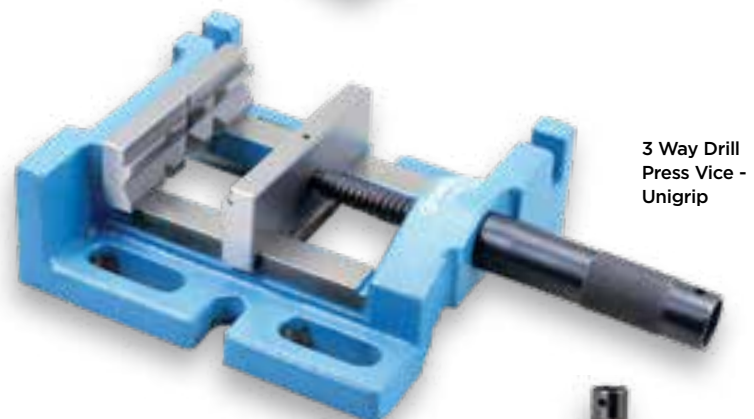
Spindle moves inside the hollow hand grip making the vice usable on any position across the table. Elongated clamping slots for rapid adjustment of the vice on the work table help save time

3 Way Drill Press Vice:

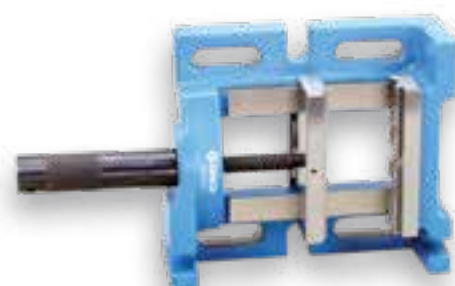
Also available with 3 mounting options via 2 additional precisely ground surfaces: end face and side face. This allows for drilling along all axes with a single setting of the job and holding of long workpieces which are cumbersome and difficult to manage in regular vices



Drill Press Vice - Unigrip



3 Way Drill Press Vice - Unigrip



Fully ground side face allows for right angle machining with the same jaw setting. The jaw width acts as jaw height facilitating longer workpieces to be held



Fully ground end face allows for right angle machining with the same machine setting

ORDERING INFORMATION

CAT NR.	ORD NR.	JAW WIDTH		JAW OPENING		JAW DEPTH	
		(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)
DRILL PRESS VICES - UNIGRIP							
DPV/UG/75	35120	3.3/16	80	2.3/4	70	1.3/16	30
★DPV/UG/100	35121	4	100	3.5/8	92	1.3/16	30
★DPV/UG/125	35122	5	120	4.3/8	110	1.3/8	35
3 WAY DRILL PRESS VICE – UNIGRIP							
DPV/UG/3/100	35125	4	100	3.1/2	88	1.3/16	30

★ Best Seller

116 Reversible Vice

Cast Iron construction with 360° swivel base

Body & sliding jaw aligned with two steel guide rods and main screw for smooth action

Polypropylene jaws impart a soft yet firm grip. Under pressure jaws reshape to grip work piece securely and return to their original shape when the job is removed



V Grooved polypropylene jaws help in holding round and thin materials gently but firmly

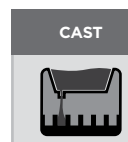


Pipe jaws for holding pipes upto 7/8" (22 mm)

REVERSIBLE: Jaw capacity can be doubled from 3.1/2" (90mm) to 7" (175mm) by removing the sliding jaw and placing it at the back of the body

ORDERING INFORMATION

CAT NR.	ORD NR.	JAW WIDTH		JAW OPENING		THROAT DEPTH		PIPE JAW CAPACITY	
		(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)
RV/75-175	35530	3.1/2	90	3.1/2	90	1.1/2	40	7/8	22
				Reversed					
				7	175				



117 Hand Vices

Manufactured from high quality grey iron castings these vices are best suited for working on small jobs

Vice can either be gripped in one hand or held between the jaws of a larger vice thus allowing better access to the work piece

Jaws tightened via large wing nut

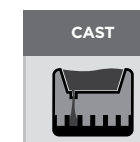
Attractive enamelled finish with plated main screw



ORDERING INFORMATION

CAT NR.	ORD NR.	OVERALL LENGTH		JAW WIDTH	
		(INCH)	(MM)	(INCH)	(MM)
HV/75	35500	3	75	1.3/8	35
★HV/100	35501	4	100	1.9/16	40
HV/125	35502	5	125	2	50

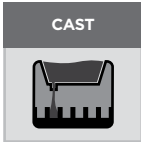
★ Best Seller



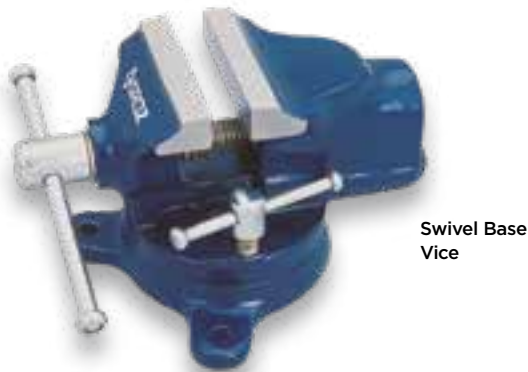
118 Hobbyist Vices

A range of compact vices for a wide variety of metal and woodworking applications. Ideal for use by model makers and DIY enthusiasts, these can also be used by the serious craftsman for light duty jobs.

Manufactured from high quality grey iron castings and machined to close tolerances results in smooth operation and reliability. Attractive enamelled finish with main screw and handle in chrome plated finish.



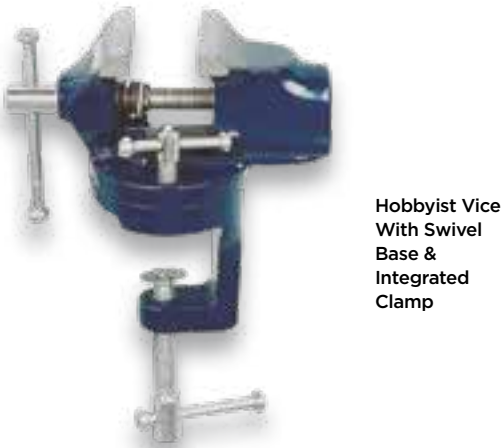
- These are available in 3 types:
- a. **Hobbyist Vices with fixed and swivel bases:** For applications that involve working in confined spaces, the swivel base vice is the ideal answer.
 - b. **Hobbyist Vices with an integrated clamp:** The integrated clamp renders portability to the vice allowing it to be clamped conveniently onto any working surface.
 - c. **Hobbyist Vice with swivel base and integrated clamp:** Portable and compact, the built in clamp allows the vice to be clamped onto any surface 1.1/2" (38 mm) deep easily. The swiveling base further enhances the versatility of the vice.



ORDERING INFORMATION

CAT NR.	ORD NR.	JAW WIDTH		INTEGRATED CLAMP CAPACITY	
		(INCH)	(MM)	(INCH)	(MM)
FIXED BASE					
★TBV/FB/32	35510	1.1/4	32	--	--
TBV/FB/40	35511	1.5/8	40	--	--
TBV/FB/50	35512	2	50	--	--
TBV/FB/60	35513	2.3/8	60	--	--
TBV/FB/75	35514	3	75	--	--
SWIVEL BASE					
TBV/SB/32	35515	1.1/4	32	--	--
TBV/SB/40	35516	1.5/8	40	--	--
TBV/SB/50	35517	2	50	--	--
★TBV/SB/60	35518	2.3/8	60	--	--
★TBV/SB/75	35519	3	75	--	--
WITH INTEGRATED CLAMP					
TBV/C/32	35521	1.1/4	32	1.1/8	29
TBV/C/40	35522	1.5/8	40	1.3/8	35
TBV/C/50	35523	2	50	1.3/8	35
★TBV/C/60	35524	2.3/8	60	1.11/16	43
TBV/C/75	35525	3	75	1.3/4	45
TBV/C/100	35526	4	100	1.3/4	45
WITH SWIVEL BASE AND INTEGRATED CLAMP					
TBV/RC/50	35520	2	50	1.1/2	38

★ Best Seller



119 G Clamps General Purpose

Most superior and popular amongst various G clamps of this category

Manufactured from SG iron with a tensile strength of over 60,000 PSI these are guaranteed unbreakable under normal usage. Handle is designed to bend before the frame is overstressed

Steel main screw has ACME threads for smooth operation.

ORDERING INFORMATION

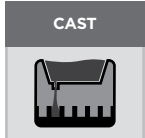
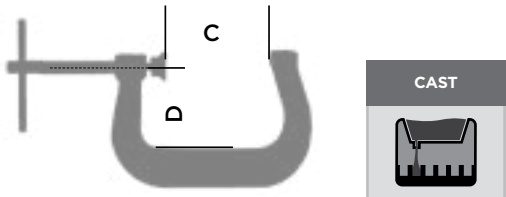
CAT NR.	ORD NR.	CAPACITY (C)		THROAT DEPTH (D)		FRAME PROOF LOAD	
		(INCH)	(MM)	(INCH)	(MM)	(KGS)	(LBS)
GCL/13D/50	35807	2	50	1.5/8	42	363	800
GCL/13D/75	35800	3	75	1.11/16	44	455	1000
*GCL/13D/100	35801	4	100	2.11/32	59	545	1200
*GCL/13D/150	35802	6	150	3	75	635	1400
GCL/13D/200	35803	8	200	3.1/8	80	775	1700
GCL/13D/250	35804	10	250	3.1/2	90	1000	2200
GCL/13D/300	35805	12	300	4	100	1135	2500

★ Best Seller

Swivelling pad adopts the correct angle and applies even pressure on the work piece

Textured powder coated finish with spindle in black oxide finish for increased resistance to corrosion

These are useful for a variety of metal and woodworking applications



120 G Clamps Junior

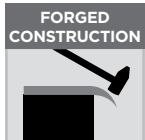
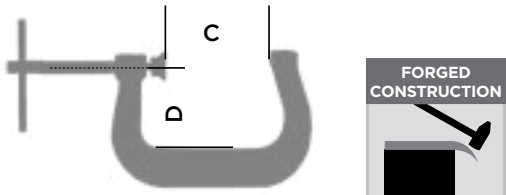
Clamps are individually forged making them amongst the strongest junior G Clamps

Frames are powder coated & steel screws are zinc plated for increased resistance to corrosion

ORDERING INFORMATION

CAT NR.	ORD NR.	CAPACITY (C)		THROAT DEPTH (D)		FRAME PROOF LOAD	
		(INCH)	(MM)	(INCH)	(MM)	(KGS)	(LBS)
GCL/FSJ/1/N	35730	1	25	1	25	225	500
*GCL/FSJ/1-1-2/N	35732	1-1/2	38	1-1/2	38	385	850
*GCL/FSJ/0-2/N	35733	2	50	1-1/4	31	400	875
GCL/FSJ/2-1-2/N	35734	2-1/2	63	2-1/2	63	385	850
GCL/FSJ/0-3/N	35735	3	75	1-3/8	35	500	1100

★ Best Seller



Rectangular section of the tubular bow ensures perfect combination of rigidity and balance.

Aluminium die cast handle, unbreakable in normal use provides comfortable grip and directs pressure in the correct line of thrust for maximum efficiency

Adjustable for 10" (250 mm) & 12" (300 mm) blades.

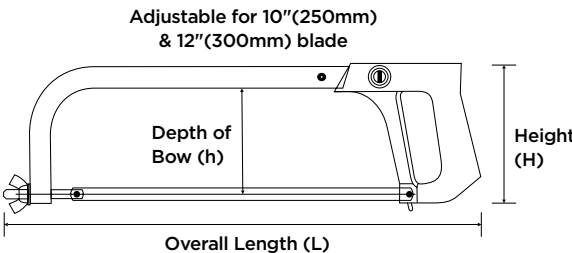
Blade can also be set for sawing at 90o.

Storage compartment in the tubular bow for storing spare blades

Lightweight design makes it very useful for overhead cutting or use from a ladder or scaffolding.



HF/15/BS



ORDERING INFORMATION

CAT NR.	ORD NR.	OVERALL LENGTH (L)		HEIGHT (H)		DEPTH OF BOW (h)	
		(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)
HF/15/BS	30010	17	430	5.1/8	130	4.15/64	106

**HACKSAW
FRAMES
& BLADES**

122 Hacksaw Frame Professional

Rugged & heavy-duty hacksaw designed for the professional.

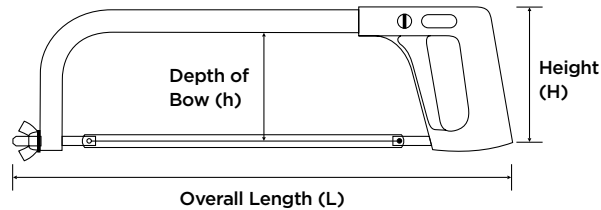
Strong aluminium die cast handle provides comfort and control

Guarded grip design protects knuckles from grazing

Square section tubular frame provides the perfect combination of balance and rigidity Curved front end designed for comfortable two hand usage.

Easy to use blade tensioning device helps to set the blade correctly.

Saw comes complete with a 12" (300 mm) chrome steel hacksaw blade



ORDERING INFORMATION

CAT. NR.	ORD NR.	DETAILS	OVERALL LENGTH (L)		HEIGHT (H)		DEPTH OF BOW (h)	
			(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)
★HF/12/BC	30000	Chrome Plated frame with blue handle	17-5/16	440	5-1/8	130	4	103
HF/12/RB	30001	Black frame with red handle	17-5/16	440	5-1/8	130	4	103

★ Best Seller

123 Super Cut Hi-Tension Hacksaw

HF-40

Amongst the world's strongest & fastest cutting hacksaw frame

Blade can be tensioned up to 5X more than conventional Hacksaw Frames to achieve 30,000 PSI tension, giving a super fast cutting action

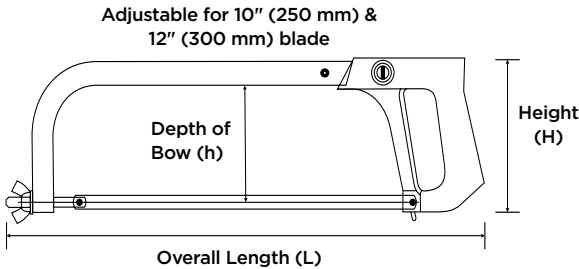
Rugged aluminum die cast handle & tubular steel frame

Adjustable for use with 10" (250 mm) & 12" (300 mm blades)

Blade can be mounted at 45° for flush cutting jobs

Storage space in the frame for spare blades

Comes complete with 12" (300 mm) Bi-metal blade



ORDERING INFORMATION

CAT NR.	ORD NR.	OVERALL LENGTH (L)		HEIGHT (H)		DEPTH OF BOW (h)	
		(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)
HF/40/BL	30041	16-23/32	425	6-1/2	165	4	100

124 Junior Saw Frames

Superior quality steel wire junior saw frame

Designed to ensure correct alignment and perfect blade tension during use.

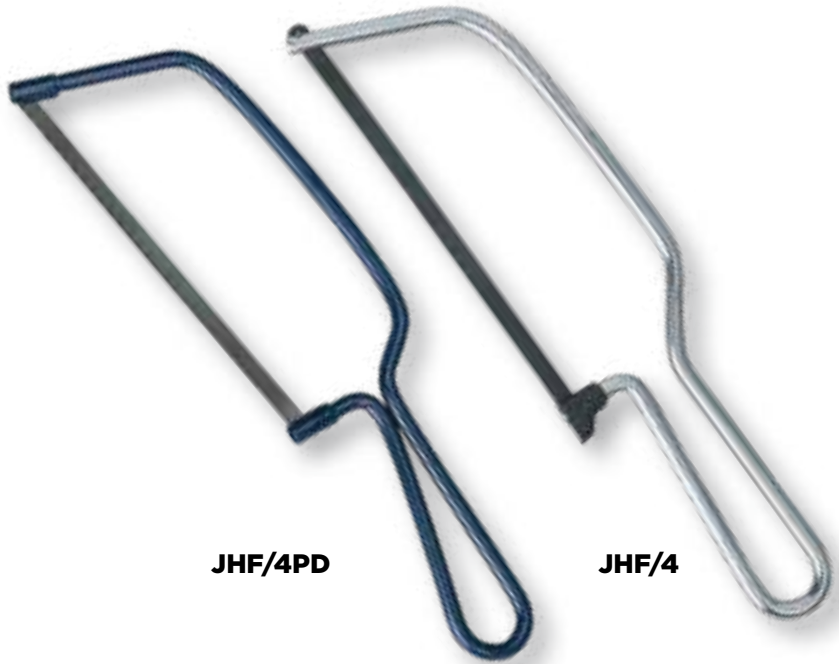
Blade holders intrinsic in the frame avoid protrusion of the blade from the ends.

Blade replacement is simply by compressing the front end of the frame against any solid surface.

Complete with a 6" (150 mm) all hard blade

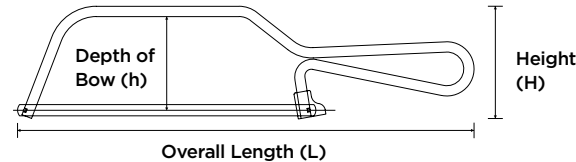
- Available in two types:
- a. Junior Hacksaw Frame Powder Coated: Steel wire frame has rust inhibiting powder coated finish.

- b. Junior Hacksaw Frame - Plated Plated steel wire frame has a finger guard preventing injury to the user.



JHF/4PD

JHF/4



ORDERING INFORMATION

CAT NR.	ORD NR.	FRAME	OVERALL LENGTH (L)		HEIGHT (H)		DEPTH OF BOW (h)	
			(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)
JUNIOR SAW FRAME — POWDER COATED								
★JHF/4PD	30130	Blue	9.7/16	240	2.3/4	70	2.3/8	60
JHF/4PD/GY	30131	Grey	9.7/16	240	2.3/4	70	2.3/8	60
JUNIOR SAW FRAME — PLATED								
★JHF/4	30120	Plated	9.7/16	240	2.3/8	60	2.1/8	53

★ Best Seller

125 Junior Saw Baby Bite

Tough junior saw designed for the handyman and the professional

Compact steel frame is light, yet strong

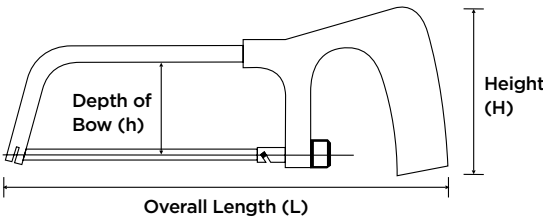
Blade tensioning device locks when the correct blade tension is reached. Ergonomically designed pistol grip handle is made from high quality ABS plastic

Complete with a 6" (150 mm) all hard blade



JHF/P/12/RD/BL

JHF/P/12/GY5/BL



ORDERING INFORMATION

CAT NR.	ORD NR.	HANDLE	OVERALL LENGTH (L)		HEIGHT (H)		DEPTH OF BOW (h)	
			(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)
JHF/P/12/RD/BL	30100	Red	10	250	4	100	2	50
JHF/P/12/GY5/BL	30101	Grey	10	250	4	100	2	50
JHF/P/12/BL/BL	30105	Black	10	250	4	100	2	50

126 Fret Saw Frames

Exceptionally rigid and well designed saw, very useful for fine cutting work in most materials.

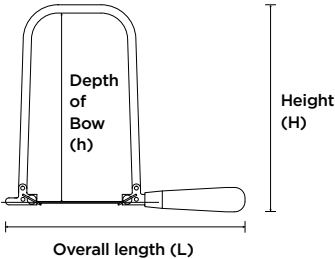
Design of the bow allows the blade to be tensioned as it is clamped in the frame.

Serrated clamps operated via the screw and wing nut maintain firm grip on the blade.

Well designed wooden handle provides comfortable grip.

Complete with a standard fret saw blade

- Available in two finishes:
- 1. Blue powder coated
 - 2. Premium chrome plated



CAT NR.	ORD NR.	DETAILS	OVERALL LENGTH (L)		HEIGHT (H)		DEPTH OF BOW (h)	
			(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)
FSF/9	30223	Blue Powder Coated Frame	12	300	12	300	11-3/8	285
★FSF/9/CP	30222	Chrome Plated Frame	12	300	12	300	11-3/8	285

★ Best Seller

127 Coping Saw Frames

An ideal saw for the discerning craftsman and DIY enthusiasts

Used for cutting intricate shapes in wood.

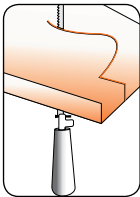
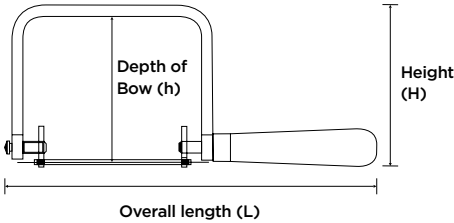
Blade can be turned to cut at any angle

Required tension is achieved by turning the handle.

Well designed wooden handle provides comfortable grip.

Complete with a well set coping saw blade

- Available in two finishes:
- 1. Blue powder coated
 - 2. Premium chrome plated



CAT NR.	ORD NR.	DETAILS	OVERALL LENGTH (L)		HEIGHT (H)		DEPTH OF BOW (h)	
			(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)
CSF/10	30220	Blue Powder Coated Frame	12-3/4	320	5-7/16	136	5	125
★CSF/10/CP	30221	Chrome Plated Frame	12-3/4	320	5-7/16	136	5	125

★ Best Seller

128 Piercing Saw Frames

Piercing saws are used by skilled craftsmen in metalworking, jewellery and dentistry applications for precision profile cutting of thin metals, plastics etc.

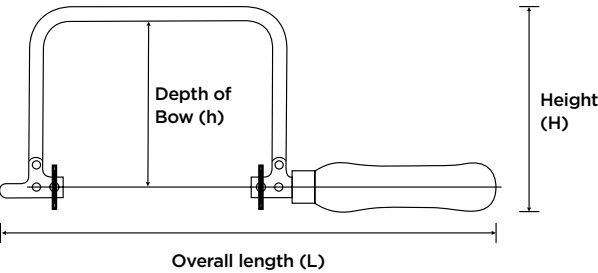
These are available in 2 types:

a. Adjustable Piercing Saw Frame:

Adjustable for different blade lengths, it is able to accommodate even broken blades thus extending blade life

b. Deep Bow Piercing Saw Frame:

Specially designed with a deeper bow, allowing use on applications that require larger depth



ORDERING INFORMATION

CAT. NR.	ORD NR.	DETAILS	OVERALL LENGTH (L)		HEIGHT (H)		DEPTH OF BOW (h)	
			(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)
PSF/A/11	30200	Adjustable	13	325 (Max.)	3-11/32	85	2-3/4	70
PSF/8	30201	Deep Bow	12	300	4-1/2	115	3-3/4	95

129 Mini Saw Blades

Standard 6"(150mm) long all hard mini saw blades
Unbreakable in normal use
these provide a handy and efficient means for cutting metals and other materials.



ORDERING INFORMATION

CAT NR.	ORD NR.	TPI (THREADS PER INCH)	SPECIFICATIONS
MSB/H/55/ST-10	30303	32	All hard blades. Useful for all metalworking applications

130 Hacksaw Blades

Manufactured from high grade chrome alloy steel
Useful for light and medium sawing work.

Available in two lengths:
10" (250 mm) and 12" (300 mm), both with 18 TPI and 24 TPI

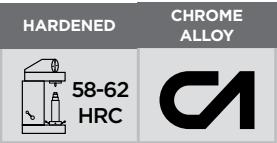
Sold as a pack of 10 Blades



ORDERING INFORMATION

CAT NR.	ORD NR.	LENGTH		TPI (THREADS PER INCH)
		(INCH)	(MM)	
HB/C/01/ST	30324	10	250	18
HB/C/02/ST	30325	10	250	24
★HB/C/03/ST	30326	12	300	18
★HB/C/04/ST	30327	12	300	24

★ Best Seller



131 Bi-Metal Hacksaw Blades
8% Cobalt - HSS

Super efficient, shatter proof bi-metal blades for superior cutting performance, wear resistance & safety. Ideal for use on tough materials

Blades comprise of a high speed steel cutting edge electron beam welded to a tough spring steel back. Bi-metal construction provides optimum tool life, together with high resistance to breakage

High speed steel cutting edge with well formed tooth profile is precisely milled, hardened & tempered providing quicker, cleaner & efficient cuts

Addition of Cobalt enhances the hardness of these blades to 66-68 HRC, thus providing higher wear resistance. Very useful for Nickel based alloys, high hardness steels & other solids

6 teeth chip removal cycle & individual tooth setting, promises nearly 30% more cutting power, cleaner cutting & also prevents teeth from binding in with material being cut

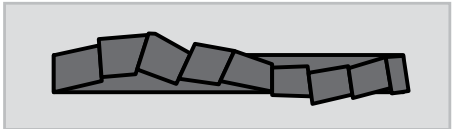
Blade Width
1/2" (12.5 mm)

Blade Thickness
0.025" (0.63 mm)

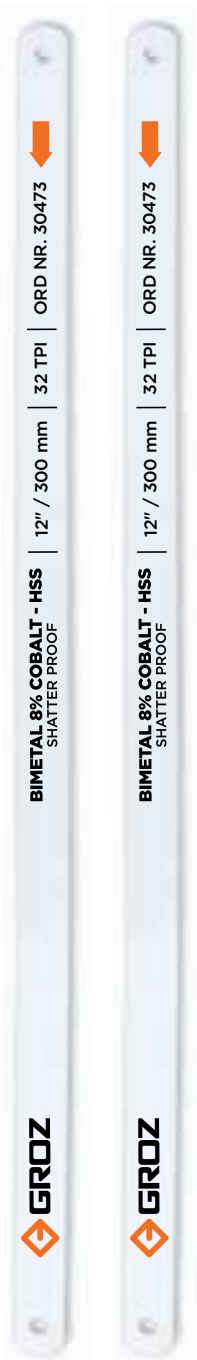
Available in a choice of 14, 18, 24 & 32 TPI and Blade Length 10" (250 mm) & 12" (300 mm)



Flexible, shatter proof blades - for quick, clean & safe usage even on tough materials



Wavy Teeth Pattern with 6 teeth chip removal cycle



ORDERING INFORMATION

CAT NR.	ORD NR.	LENGTH (CENTRE TO CENTRE)		TPI
		(INCH)	(MM)	
HB/BC/10/14/ST-10	30460	10	250	14
HB/BC/10/18/ST-10	30461	10	250	18
HB/BC/10/24/ST-10	30462	10	250	24
HB/BC/10/32/ST-10	30463	10	250	32
HB/BC/12/14/ST-10	30480	12	300	14
HB/BC/12/18/ST-10	30481	12	300	18
HB/BC/12/24/ST-10	30482	12	300	24
HB/BC/12/32/ST-10	30483	12	300	32

132 Piercing
Saw Blades

Ideal for hand and light machine sawing of gold, silver, steel, copper, brass, aluminium, nickel etc.

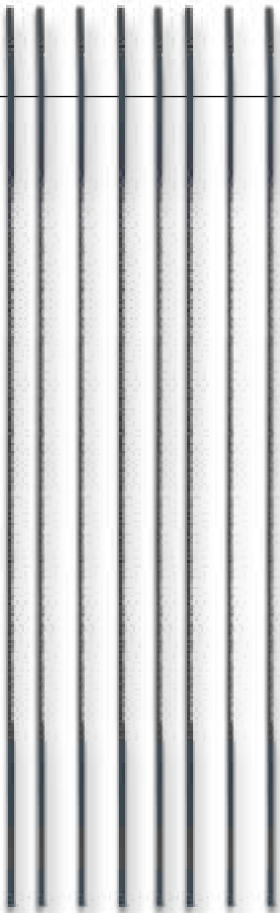
Designed for use with the Groz Piercing Saw Frames, these will also conveniently fit onto standard Piercing Saw Frames of other makes. Overall length 5" (125 mm)

Sold as a pack of 12 blades

ORDERING INFORMATION

CAT NR.	ORD NR.	BLADE NR.	TPI (THREADS PER INCH)
PSB/G2/0/ST	30343	2/0	58
PSB/G1/0/ST	30344	1/0	58
PSB/G/0/ST	30345	0	52
★PSB/G/1/ST	30346	1	48
★PSB/G/2/ST	30342	2	42
PSB/G/3/ST	30347	3	42
▶PSB/G/4/ST	30348	4	32
PSB/G/5/ST	30349	5	32
PSB/G/6/ST	30380	6	32

★ Best Seller ▶ Comes as Standard with GROZ Piercing Saw Frames



133 Fret
Saw Blades

These are ideal for hand and light machine sawing of wood, bone, vulcanite, fibre, horn and plastics etc.

Whilst designed for use with the Groz Fret Saw Frame these will also conveniently fit onto standard Fret Saw Frames of other makes. Overall length 5" (125 mm)

Sold as a pack of 12 blades

ORDERING INFORMATION

CAT NR.	ORD NR.	BLADE NR.	TPI (THREADS PER INCH)
FSB/3/ST	30357	3	18
★FSB/4/ST	30358	4	18
FSB/5/ST	30359	5	16
▶FSB/6/ST	30360	6	16
★FSB/8/ST	30361	8	14
FSB/10/ST	30362	10	12
FSB/12/ST	30363	12	10

★ Best Seller ▶ Comes as Standard with GROZ Piercing Saw Frames



134 Coping Saw Blades

These are manufactured from high quality steel and are accurately heat treated to give the correct combination of hardness and toughness. Teeth are properly shaped & set to ensure speed of cutting and ease of turning

Whilst designed for use with the Groz Coping Saw Frames, these will also conveniently fit onto Standard Coping Saw Frames of other makes

Sold as a pack of 10 blades



ORDERING INFORMATION

CAT NR.	ORD NR.	LENGTH		TPI (THREADS PER INCH)
		(INCH)	(MM)	
CSB/170/ST	30314	6-1/2	165	14

TAPS, DIES & HOLDERS



135 Adjustable Tap & Reamer Wrenches Bar Type

The straight handle design of these tap wrenches provides greater leverage, particularly useful when working with large diameter taps.

These are manufactured in two types.

a. Professional
Professional quality tap wrenches with an all steel body, these provide a positive grip combined with the sensitivity required when tapping a blind hole

Jaws are hardened and tempered for increased resistance to wear.

The wrench body is black powder coated with attractive chrome plated handles

b. Industrial
Extra heavy duty, industrial quality tap wrenches - virtually unbreakable.

Nr. 0, 5 & 6 have a forged body.

Nr. 00, 7 & 8 have die cast body.



ORDERING INFORMATION

CAT NR.	ORD NR.	LENGTH		JAW HOLDING CAPACITY			
				SQUARE SIZE		TAP SIZE	
		(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)
PROFESSIONAL							
ARWR/1/SPL	09210	5	125	7/64-5/32	2.5-4	1/8-3/16	M3-M5
★ARWR/2/SPL	09211	8.17/64	210	1/8-1/4	3.15-6.3	3/16-5/16	M4-M8
★ARWR/3/SPL	09212	12.13/64	310	1/8-3/8	3.15-9.5	3/16-9/16	M4-M14
ARWR/44/SPL	09213	16	400	7/32-5/8	5.6-16	7/16-1.1/8	M7-M27
INDUSTRIAL							
ARWR/SG/0	09221	8	200	3/32-1/2	2.5-12	1/8-3/8	M1-M12
ARWR/SG/00	09220	5.11/32	133	5/64-9/32	2-7.35	1/8-1/4	M1-M6
ARWR/SG/5	09222	10.8	270	11/64-9/16	4.25-14.4	3/16-5/8	M4-M16
ARWR/SG/6	09223	14.8	370	11/64-11/16	4.25-17.7	3/16-7/8	M4-M20
ARWR/SG/7	09224	19.6	490	1/4-29/32	6.8-23.35	1/4-1.1/8	M6-M30
ARWR/SG/8	09225	29.6	740	3/8-1.13/32	9.2-36.0	1/2-1.3/4	M9-M45

★ Best Seller

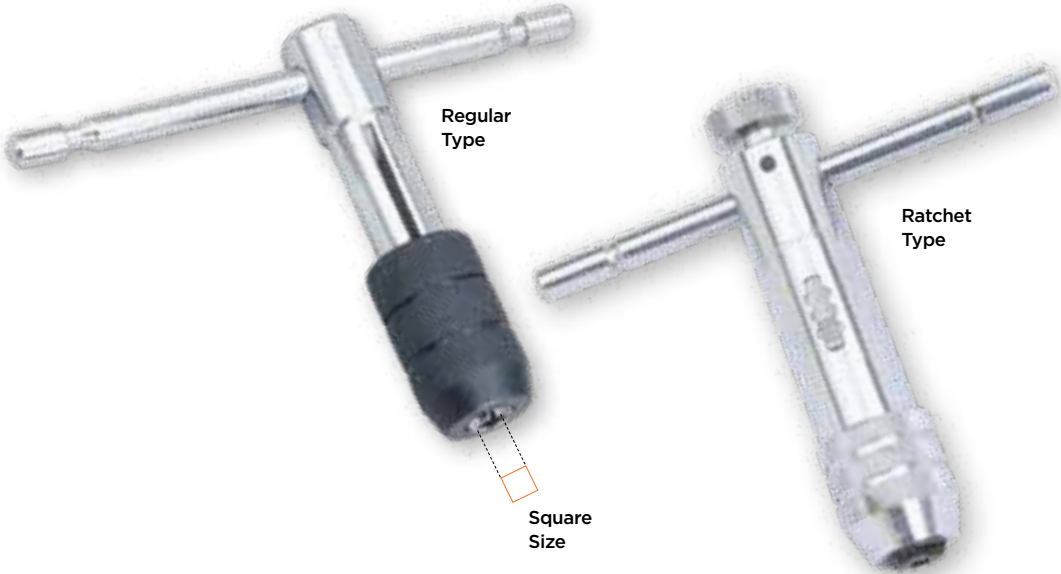
136 Tap Wrenches T Handle Type

This range of tap wrenches are ideal for holding taps, reamers, screw extractors and other such small hand turned tools. All wrenches have a sliding T handle frictionally held, that allows these tap wrenches to be used even in confined spaces.

These are available in two types:

a. Regular T Handle Type -
Self-centering hardened steel jaws provide a positive grip on taps, reamers and other such small tools.

b. Ratchet Type
These tap wrenches have self centering hardened steel jaws and knurled chuck sleeve, which provide positive grip on taps, reamers and other such small tools. The ratchet can be set left or right, or direct engagement in neutral position. This feature allows them to be used in confined areas with ease



ORDERING INFORMATION

CAT. NR.	ORD NR.	OVERALL LENGTH (L)		JAW HOLDING CAPACITY			
				SQUARE SIZE		TAP SIZE	
		(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)
REGULAR							
TW/3-16	09300	2.23/64	60	5/64 - 5/32	2 - 4	1/16 - 3/16	M2 - M5
TW/1-4/SPL	09301	2.3/4	70	5/64 - 13/64	2 - 5	1/16 - 1/4	M2 - M6
★TW/1-4	09302	2.3/4	70	1/8 - 13/64	3.15 - 5	5/32 - 1/4	M4 - M6
TW/5-16	09303	3.9/64	80	5/32 - 1/4	4 - 6.3	3/16 - 5/16	M5 - M8
★TW/1-2	09304	3.35/64	90	13/64 - 5/16	5 - 8	1/4 - 1/2	M6 - M10
RATCHET TYPE							
★TW/R/1-4	09322	3.3/8	86	7/64 - 7/32	2.6 - 5.5	5/32 - 1/4	M4 - M6
★TW/R/5-16	09323	4.3/8	111	3/16 - 5/16	4.6 - 8	1/4 - 1/2	M6 - M12

★ Best Seller

137

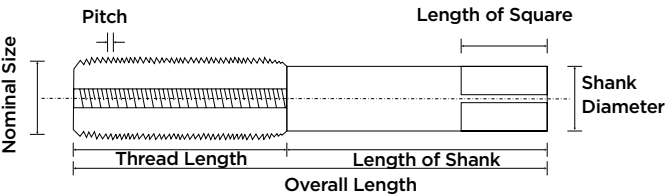
Hand Taps
Carbon Steel

Taps are used for cutting internal threads in predetermined holes. These perform best in materials where the cutting action results in chips which break up readily and do not present problems of chip disposal. Taps are usually used in sets of 3 (taper, second and bottom).

Taper
Used to provide a quick & easy start, but this will not cut the thread down to the bottom of the hole.

Second
Used to increase the size of cut.

Bottom
Used for follow through right to the bottom to obtain full depth of thread. As opposed to straight threads such as BSW, UNC, UNF, Metric etc; taps with parallel threads are shorter in length and are used for parallel threading. These are used in sets of 2. All taps are right hand taps.



BRITISH STANDARD WHITWORTH (BSW) 55° - SET OF 3			
CAT NR.	ORD NR.	NOMINAL SIZE (INCH)	TPI (THREAD PER INCH)
TAP/1-16	09400	1/16	60
TAP/3-32	09401	3/32	48
TAP/1-8	09402	1/8	40
TAP/5-32	09403	5/32	32
TAP/3-16	09404	3/16	24
TAP/7-32	09405	7/32	24
TAP/1-4	09406	1/4	20
TAP/9-32	09407	9/32	20
TAP/5-16	09408	5/16	18
TAP/3-8	09409	3/8	16
TAP/7-16	09410	7/16	14
TAP/1-2	09411	1/2	12
TAP/9-16	09412	9/16	12
TAP/5-8	09413	5/8	11
TAP/11-16	09414	11/16	11
TAP/3-4	09415	3/4	10
TAP/13-16	09416	13/16	10
TAP/7-8	09417	7/8	9
TAP/15-16	09418	15/16	9
TAP/0-1	09419	1	8
TAP/1-1-8	09420	1.1/8	7
TAP/1-1-4	09421	1.1/4	7
TAP/1-3-8	09422	1.3/8	6
TAP/1-1-2	09423	1.1/2	6
TAP/1-3-4	09424	1.3/4	5
TAP/0-2	09425	2	4.1/2

BRITISH STANDARD FINE (BSF) 55° - SET OF 3			
CAT NR.	ORD NR.	NOMINAL SIZE (INCH)	TPI (THREAD PER INCH)
TAP/BSF/3-16	09800	3/16	32
TAP/BSF/7-32	09801	7/32	28
TAP/BSF/1-4	09802	1/4	26
TAP/BSF/9-32	09803	9/32	26
TAP/BSF/5-16	09804	5/16	22
TAP/BSF/3-8	09805	3/8	20
TAP/BSF/7-16	09806	7/16	18
TAP/BSF/1-2	09807	1/2	16
TAP/BSF/9-16	09808	9/16	16
TAP/BSF/5-8	09809	5/8	14
TAP/BSF/11-16	09810	11/16	14
TAP/BSF/3-4	09811	3/4	12
TAP/BSF/13-16	09812	13/16	12
TAP/BSF/7-8	09813	7/8	11
TAP/BSF/15-16	09814	15/16	11
TAP/BSF/0-1	09815	1	10
TAP/BSF/1-1-8	09816	1.1/8	9
TAP/BSF/1-1-4	09817	1.1/4	9
TAP/BSF/1-3-8	09818	1.3/8	8
TAP/BSF/1-1-2	09819	1.1/2	8
TAP/BSF/1-3-4	09820	1.3/4	7
TAP/BSF/0-2	09821	2	7



UNIFIED COARSE (UNC) 60° - SET OF 3

CAT NR.	ORD NR.	NOMINAL SIZE (INCH)	TPI (THREAD PER INCH)
TAP/UNC/1-4	09900	1/4	20
TAP/UNC/9-32	09909	9/32	20
TAP/UNC/5-16	09901	5/16	18
TAP/UNC/3-8	09902	3/8	16
TAP/UNC/7-16	09903	7/16	14
TAP/UNC/1-2	09904	1/2	13
TAP/UNC/9-16	09910	9/16	12
TAP/UNC/5-8	09905	5/8	11
TAP/UNC/11-16	09911	11/16	11
TAP/UNC/3-4	09906	3/4	10
TAP/UNC/13-16	09912	13/16	10
TAP/UNC/7-8	09907	7/8	9
TAP/UNC/15-16	09913	15/16	9
TAP/UNC/0-1	09908	1	8
TAP/UNC/1-1-8	09914	1.1/8	7
TAP/UNC/1-1-4	09915	1.1/4	7
TAP/UNC/1-3-8	09916	1.3/8	6
TAP/UNC/1-1-2	09917	1.1/2	6
TAP/UNC/1-3-4	09918	1.3/4	5
TAP/UNC/0-2	09919	2	4.1/2

UNIFIED FINE (UNF) 60° - SET OF 3

TAP/UNF/1-4	10100	1/4	28
TAP/UNF/5-16	10101	5/16	24
TAP/UNF/3-8	10102	3/8	24
TAP/UNF/7-16	10107	7/16	20
TAP/UNF/1-2	10103	1/2	20
TAP/UNF/9-32	10117	9/32	
TAP/UNF/9-16	10108	9/16	18
TAP/UNF/5-8	10104	5/8	18
TAP/UNF/11-16	10109	11/16	18
TAP/UNF/3-4	10105	3/4	16
TAP/UNF/13-16	10110	13/16	16
TAP/UNF/7-8	10111	7/8	14
TAP/UNF/15-16	10112	15/16	14
TAP/UNF/0-1	10106	1	12
TAP/UNF/1-1-8	10113	1.1/8	12
TAP/UNF/1-1-4	10114	1.1/4	12
TAP/UNF/1-3-8	10115	1.3/8	12
TAP/UNF/1-1-2	10116	1.1/2	12

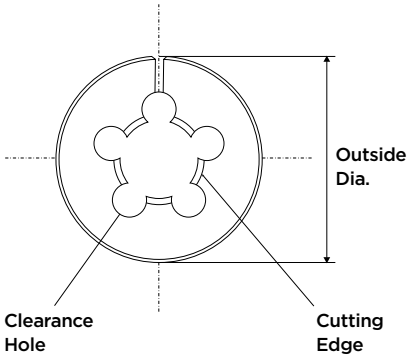
BRITISH STANDARD PARALLEL (BSP) 55° - SET OF 2

TAP/2/BSP/1-8	09500	1/8	28
TAP/2/BSP/1-4	09501	1/4	19
TAP/2/BSP/3-8	09502	3/8	19
TAP/2/BSP/1-2	09503	1/2	14
TAP/2/BSP/5-8	09504	5/8	14
TAP/2/BSP/3-4	09505	3/4	14
TAP/2/BSP/7-8	09507	7/8	14
TAP/2/BSP/0-1	09506	1	11
TAP/2/BSP/1-1-4	09508	1.1/4	11
TAP/2/BSP/1-1-2	09509	1.1/2	11
TAP/2/BSP/1-3-4	09511	1.3/4	11
TAP/2/BSP/0-2	09510	2	11

METRIC -SET OF 3

CAT. NR.	ORD NR.	NOMINAL SIZE (INCH)	PITCH
TAP/2M	09602	2	0.40
TAP/3M	09603	3	0.50
TAP/4M	09604	4	0.70
TAP/5M	09605	5	0.80
TAP/6M	09606	6	1.00
TAP/7M	09607	7	1.00
TAP/8M/SPL	09660	8	1.00
TAP/8M	09608	8	1.25
TAP/9M/SPL	09661	9	1.00
TAP/9M	09609	9	1.25
TAP/10M/SPL1	09663	10	1.00
TAP/10M/SPL	09662	10	1.25
TAP/10M	09610	10	1.50
TAP/11M	09611	11	1.50
TAP/12M/SPL2	09666	12	1.00
TAP/12M/SPL	09664	12	1.25
TAP/12M/SPL1	09665	12	1.50
TAP/12M	09612	12	1.75
TAP/14M/SPL	09667	14	1.25
TAP/14M/SPL1	09668	14	1.50
TAP/14M	09614	14	2.00
TAP/16M/SPL	09669	16	1.50
TAP/16M	09616	16	2.00
TAP/18M/SPL	09670	18	1.50
TAP/18M/SPL1	09671	18	2.00
TAP/18M	09618	18	2.5
TAP/20M/SPL	09672	20	1.5
TAP/20M/SPL1	09673	20	2.00
TAP/20M	09620	20	2.50
TAP/22M/SPL1	09674	22	1.50
TAP/22M	09622	22	2.50
TAP/24M	09624	24	3.0
TAP/27M	09627	27	3.0
TAP/30M	09630	30	3.5
TAP/33M	09633	33	3.5
TAP/36M	09636	36	4.0
TAP/39M	09639	39	4.0
TAP/42M	09642	42	4.5
TAP/45M	09645	45	4.5
TAP/48M	09648	48	5.0
TAP/52M	09652	52	5.0

Dies are used for cutting external threads. These are used as individual pieces, the same die being passed over the job many times to obtain clean threading. Manufactured from carbon steel.



BRITISH STANDARD ROUND DIES

CAT NR.	ORD NR.	CAT NR.	ORD NR.	NOMINAL SIZE	OUTER DIA.
BRITISH STANDARD WHITWORTH 55° (BSW)		BRITISH STANDARD FINE 55° (BSW)		(INCH)	(INCH)
DI/O-1	10201	DI/BSF/O-24	14900	1/16	13/16
DI/O-2	10202	DI/BSF/O-25	14901	3/32	13/16
DI/O-3	10203	DI/BSF/O-26	14902	1/8	13/16
DI/O-4	10204	DI/BSF/O-27	14903	5/32	13/16
DI/O-5	10205	DI/BSF/O-28	14904	3/16	13/16
DI/O-6	10206	DI/BSF/O-29	14905	7/32	13/16
DI/O-7	10207	DI/BSF/O-30	14906	1/4	1
DI/O-7/SPL	10224	DI/BSF/O-30/SPL	14907	1/4	13/16
DI/O-8	10208	DI/BSF/O-31	14908	5/16	1
DI/O-9	10209	DI/BSF/O-32	14909	3/8	1
DI/O-10	10210	DI/BSF/O-33	14910	5/16	1.1/2
DI/O-11	10211	DI/BSF/O-34	14911	3/8	1.1/2
DI/O-12	10212	DI/BSF/O-35	14912	7/16	1.1/2
DI/O-13	10213	DI/BSF/O-36	14913	1/2	1.1/2
DI/O-14	10214	DI/BSF/O-37	14914	9/16	1.1/2
DI/O-15	10215	DI/BSF/O-38	14915	5/8	1.1/2
DI/O-16	10216	DI/BSF/O-39	14916	11/16	1.1/2
DI/O-17	10217	DI/BSF/O-40	14917	3/4	1.1/2
DI/O-18	10218	DI/BSF/O-41	14918	7/8	2
DI/O-19	10219	DI/BSF/O-42	14919	1	2
DI/O-20	10220	DI/BSF/O-43	14920	1.1/8	2.1/4
DI/O-20/SPL	10225	DI/BSF/O-43/SPL	14921	1.1/8	2.1/2
DI/O-21	10221	DI/BSF/O-44	14922	1.1/4	2.1/4
DI/O-21/SPL	10226	DI/BSF/O-44/SPL	14923	1.1/4	2.1/2
DI/O-22	10222	DI/BSF/O-45	14924	1.3/8	3
DI/O-23	10223	DI/BSF/O-46	14925	1.1/2	3

UNIFIED ROUND DIES

CAT NR.	ORD NR.	CAT NR.	ORD NR.	NOMINAL SIZE	OUTER DIA.
UNIFIED FINE 60° (UNF)		UNIFIED COARSE 60° (UNC)		(INCH)	(INCH)
DI/UNF/O-47	15000	DI/UNC/O-70	15100	1/16	13/16
DI/UNF/O-48	15001	DI/UNC/O-71	15101	3/32	13/16
DI/UNF/O-49	15002	DI/UNC/O-72	15102	1/8	13/16
DI/UNF/O-50	15003	DI/UNC/O-73	15103	5/32	13/16
DI/UNF/O-51	15004	DI/UNC/O-74	15104	3/16	13/16
DI/UNF/O-52	15005	DI/UNC/O-75	15105	7/32	13/16
DI/UNF/O-53	15006	DI/UNC/O-76	15106	1/4	1
DI/UNF/O-53/SPL	15007	DI/UNC/O-76/SPL	15107	1/4	13/16
DI/UNF/O-54	15008	DI/UNC/O-77	15108	5/16	1
DI/UNF/O-55	15009	DI/UNC/O-78	15109	3/8	1
DI/UNF/O-56	15010	DI/UNC/O-79	15110	5/16	1.1/2
DI/UNF/O-57	15011	DI/UNC/O-80	15111	3/8	1.1/2
DI/UNF/O-58	15012	DI/UNC/O-81	15112	7/16	1.1/2
DI/UNF/O-59	15013	DI/UNC/O-82	15113	1/2	1.1/2
DI/UNF/O-60	15014	DI/UNC/O-83	15114	9/16	1.1/2
DI/UNF/O-61	15015	DI/UNC/O-84	15115	5/8	1.1/2
DI/UNF/O-62	15016	DI/UNC/O-85	15116	11/16	1.1/2
DI/UNF/O-63	15017	DI/UNC/O-86	15117	3/4	1.1/2
DI/UNF/O-64	15018	DI/UNC/O-87	15118	7/8	2
DI/UNF/O-65	15019	DI/UNC/O-88	15119	1	2
DI/UNF/O-66	15020	DI/UNC/O-89	15120	1.1/8	2.1/4
DI/UNF/O-66/SPL	15021	DI/UNC/O-89/SPL	15121	1.1/8	2.1/2
DI/UNF/O-67	15022	DI/UNC/O-90	15122	1.1/4	2.1/4
DI/UNF/O-67/SPL	15023	DI/UNC/O-90/SPL	15123	1.1/4	2.1/2
DI/UNF/O-68	15024	DI/UNC/O-91	15124	1.3/8	3
DI/UNF/O-69	15025	DI/UNC/O-92	15125	1.1/2	3

METRIC ROUND DIES

CAT NR.	ORD NR.	NOMINAL SIZE	OUTER DIA.
		(INCH)	(INCH)
DI/2M	10402	2x0.4	13/16
DI/3M	10403	3x0.5	13/16
DI/4M	10404	4x0.7	13/16
DI/4M/SPL	10440	4 X 0.75	13/16
DI/5M	10405	5x0.8	13/16
DI/5M/SPL	10441	5 X 0.90	13/16
DI/6M	10406	6x1.0	1
DI/6M/SPL	10442	6 x 1.0	1.1/2
DI/7M	10407	7x1.0	1
DI/8M/SPL1	10443	8x1.0	1
DI/8M	10408	8x1.25	1
DI/8M-SPL	10444	8x1.25	1.1/2
DI/9M-SPL	10445	9 x 1.0	1
DI/9M	10409	9x1.25	1
DI/10M/SPL1	10447	10 X 1.25	1
DI/10M	10410	10x1.5	1
DI/10M/SPL	10446	10x1.5	1.1/2
DI/11M	10411	11 X 1.5	1.1/2
DI/12M/SPL	10448	12 X 1.5	1.1/2
DI/12M	10412	12x1.75	1.1/2
DI/13M	10413	13x1.75	1.1/2
DI/14M	10414	14x2.0	1.1/2
DI/16M	10416	16x2.0	1.1/2
DI/18M	10418	18x2.5	1.1/2
DI/20M	10420	20x2.5	2
DI/22M	10422	22x2.5	2
DI/24M	10424	24x3.0	2
DI/27M	10427	27x3.0	2.1/2
DI/30M	10430	30x3.5	2.1/2

BRITISH STANDARD PARALLEL 55° (BSP) ROUND DIES

CAT NR.	ORD NR.	NOMINAL SIZE	OUTER DIA.
		(INCH)	(INCH)
DI/BSP/O-93	15200	1/8	1
DI/BSP/O-94	15201	1/4	1.1/2
DI/BSP/O-95	15202	3/8	1.1/2
DI/BSP/O-96	15203	1/2	2
DI/BSP/O-97	15204	5/8	2
DI/BSP/O-98	15205	3/4	2
DI/BSP/O-99	15206	1	2.1/4
DI/BSP/O-100	15207	1	2.1/2
DI/BSP/O-101	15208	1.1/4	3

Also referred to as Die Nuts, Hexagonal Dies are used for cutting external threads. These are used as individual pieces, the same die being passed over the job to obtain clean threading. Manufactured from Carbon Steel, these can be tightened using a spanner



(BSF) 55° HEXAGONAL DIES

CAT. NR.	ORD NR.	NOMINAL SIZE	A/F (ACROSS FLATS)	THICKNESS
		(INCH)	(INCH)	(INCH)
DI/H/BSF/1-8	10600	1/8	0.710	1/4
DI/H/BSF/5-32	10607	5/32	0.710	1/4
DI/H/BSF/7-32	10608	7/32	0.710	1/4
DI/H/BSF/1-4	10601	1/4	0.710	1/4
DI/H/BSF/9-32	10609	9/32	0.820	5/16
DI/H/BSF/5-16	10610	5/16	0.820	5/16
DI/H/BSF/3-8	10602	3/8	0.920	3/8
DI/H/BSF/7-16	10611	7/16	1.010	7/16
DI/H/BSF/1-2	10603	1/2	1.100	1/2
DI/H/BSF/9-16	10612	9/16	1.300	5/8
DI/H/BSF/5-8	10604	5/8	1.300	5/8
DI/H/BSF/3-4	10605	3/4	1.480	11/16
DI/H/BSF/7-8	10613	7/8	1.670	13/16
DI/H/BSF/0-1	10606	1	2.050	15/16
DI/H/BSF/1-1-8	10614	1.1/8	2.220	1.1/16
DI/H/BSF/1-1-4	10615	1.1/4	2.220	1.1/16
DI/H/BSF/1-3-8	10616	1.3/8	2.580	1.1/8
DI/H/BSF/1-1-2	10617	1.1/2	2.760	1.1/4
DI/H/BSF/1-5-8	10618	1.5/8	2.760	1.1/4
DI/H/BSF/1-3-4	10619	1.3/4	3.150	1.3/8
DI/H/BSF/1-7-8	10620	1.7/8	3.150	1.3/8
DI/H/BSF/0-2	10621	2	3.330	1.3/4

(BSW) 55° HEXAGONAL DIES

CAT. NR.	ORD NR.	NOMINAL SIZE	A/F (ACROSS FLATS)	THICKNESS
		(INCH)	(INCH)	(INCH)
DI/H/1-8	10800	1/8	0.710	1/4
DI/H/5-32	10809	5/32	0.710	1/4
DI/H/7-32	10810	7/32	0.710	1/4
DI/H/3-16	10823	3/16	0.710	1/4
DI/H/1-4	10802	1/4	0.710	1/4
DI/H/9-32	10811	9/32	0.820	5/16
DI/H/5-16	10812	5/16	0.820	5/16
DI/H/3-8	10803	3/8	0.920	3/8
DI/H/7-16	10813	7/16	1.010	7/16
DI/H/1-2	10804	1/2	1.100	1/2
DI/H/9-16	10814	9/16	1.300	5/8
DI/H/5-8	10805	5/8	1.300	5/8
DI/H/3-4	10806	3/4	1.480	11/16
DI/H/7-8	10807	7/8	1.670	13/16
DI/H/0-1	10808	1	2.050	15/16
DI/H/1-1-8	10815	1.1/8	2.220	1.1/16
DI/H/1-1-4	10816	1.1/4	2.220	1.1/16
DI/H/1-3-8	10817	1.3/8	2.580	1.1/8
DI/H/1-1-2	10818	1.1/2	2.760	1.1/4
DI/H/1-5-8	10819	1.5/8	2.760	1.1/4
DI/H/1-3-4	10820	1.3/4	3.150	1.3/8
DI/H/1-7-8	10821	1.7/8	3.150	1.3/8
DI/H/0-2	10822	2	3.330	1.3/4

(UNC) 60° HEXAGONAL DIES

CAT. NR.	ORD NR.	NOMINAL SIZE	A/F (ACROSS FLATS)	THICKNESS
		(INCH)	(INCH)	(INCH)
DI/H/UNC/1-8	14808	1/8	0.710	1/4
DI/H/UNC/5-32	14810	5/32	0.710	1/4
DI/H/UNC/7-32	14811	7/32	0.710	1/4
DI/H/UNC/1-4	14800	1/4	0.710	1/4
DI/H/UNC/9-32	14812	9/32	0.820	5/16
DI/H/UNC/5-16	14801	5/16	0.820	5/16
DI/H/UNC/3-8	14802	3/8	0.920	3/8
DI/H/UNC/7-16	14813	7/16	1.010	7/16
DI/H/UNC/1-2	14803	1/2	1.100	1/2
DI/H/UNC/9-16	14814	9/16	1.300	5/8
DI/H/UNC/5-8	14804	5/8	1.300	5/8
DI/H/UNC/3-4	14805	3/4	1.480	11/16
DI/H/UNC/7-8	14809	7/8	1.670	13/16
DI/H/UNC/0-1	14806	1	2.050	15/16
DI/H/UNC/1-1-8	14807	1.1/8	2.220	1.1/16
DI/H/UNC/1-1-4	14815	1.1/4	2.220	1.1/16
DI/H/UNC/1-3-8	14816	1.3/8	2.580	1.1/8
DI/H/UNC/1-1-2	14817	1.1/2	2.760	1.1/4
DI/H/UNC/1-5-8	14818	1.5/8	2.760	1.1/4

(UNF) 60° HEXAGONAL DIES

CAT. NR.	ORD NR.	NOMINAL SIZE	A/F (ACROSS FLATS)	THICKNESS
		(INCH)	(INCH)	(INCH)
DI/H/UNF/1-8	10911	1/8	0.710	1/4
DI/H/UNF/5-32	10912	5/32	0.710	1/4
DI/H/UNF/7-32	10913	7/32	0.710	1/4
DI/H/UNF/1-4	10900	1/4	0.710	1/4
DI/H/UNF/9-32	10914	9/32	0.820	5/16
DI/H/UNF/5-16	10901	5/16	0.820	5/16
DI/H/UNF/3-8	10902	3/8	0.920	3/8
DI/H/UNF/7-16	10915	7/16	1.010	7/16
DI/H/UNF/1-2	10903	1/2	1.100	1/2
DI/H/UNF/9-16	10916	9/16	1.300	5/8
DI/H/UNF/5-8	10904	5/8	1.300	5/8
DI/H/UNF/3-4	10905	3/4	1.480	11/16
DI/H/UNF/7-8	10910	7/8	1.670	13/16
DI/H/UNF/0-1	10906	1	2.050	15/16
DI/H/UNF/1-1-8	10908	1.1/8	2.220	1.1/16
DI/H/UNF/1-1-4	10909	1.1/4	2.220	1.1/16
DI/H/UNF/1-3-8	10917	1.3/8	2.580	1.1/8
DI/H/UNF/1-1-2	10918	1.1/2	2.760	1.1/4
DI/H/UNF/1-5-8	10919	1.5/8	2.760	1.1/4

METRIC HEXAGONAL DIES

CAT. NR.	ORD NR.	NOMINAL SIZE	A/F (ACROSS FLATS)	THICKNESS
		MM	INCH	INCH
DI/H/3M	10503	3	0.710	1/4
DI/H/4M	10504	4	0.710	1/4
DI/H/5M	10505	5	0.710	1/4
DI/H/6M	10506	6	0.710	1/4
DI/H/7M	10507	7	0.820	5/16
DI/H/8M	10508	8	0.820	5/16
DI/H/9M	10509	9	0.920	3/8
DI/H/10M	10510	10	0.920	3/8
DI/H/11M	10511	11	1.010	7/16
DI/H/12M	10512	12	1.100	1/2
DI/H/14M	10514	14	1.300	5/8
DI/H/16M	10516	16	1.300	5/8
DI/H/18M	10518	18	1.300	5/8
DI/H/18M/SPL	10519	18	1.480	11/16
DI/H/20M	10520	20	1.480	11/16
DI/H/22M	10522	22	1.670	13/16
DI/H/24M	10524	24	2.050	15/16
DI/H/27M	10527	27	2.220	1.1/16
DI/H/30M	10530	30	2.220	1.1/16
DI/H/33M	10533	33	2.580	1.1/8

55° BSP HEXAGONAL DIES

CAT. NR.	ORD NR.	NOMINAL SIZE	A/F (ACROSS FLATS)	THICKNESS
		INCH	INCH	INCH
DI/H/BSP/1-8	10700	1/8	0.920	3/8
DI/H/BSP/1-4	10701	1/4	1.100	1/2
DI/H/BSP/3-8	10702	3/8	1.300	5/8
DI/H/BSP/1-2	10703	1/2	1.670	13/16
DI/H/BSP/5-8	10704	5/8	1.670	13/16
DI/H/BSP/3-4	10705	3/4	2.050	15/16
DI/H/BSP/7-8	10707	7/8	2.220	1.1/16
DI/H/BSP/0-1	10706	1	2.580	1.1/8
DI/H/BSP/1-1-4	10708	1.1/4	2.760	1.1/4
DI/H/BSP/1-1-2	10709	1.1/2	3.150	1.1/4
DI/H/BSP/1-3-4	10710	1.3/4	3.330	1.1/4

140 Dies Stock Holders for Round Dies

This range of die holders is best suited for applications requiring efficient and clean cutting of external threads. Die holders have a rugged construction with heavy duty set screws that hold the die firmly in place.

These are manufactured in two types:

- a. Acc DIN 225
These have steel bodies with chrome plated handles.
- b. Professional
This range of die holders have an all steel construction with black powder coated body. Handles have knurled ends, the ends being black powder coated.



ORDERING INFORMATION

CAT. NR.	ORD NR.	SUITABLE FOR DIE SIZE	LENGTH
		(MM)	
ACC DIN 225			
DS/D/20-5	09100	20x5	200 mm
DS/D/20-7	09101	20x7	200 mm
★DS/D/25-9	09102	25x9	224 mm
★DS/D/30-11	09103	30x11	280 mm
DS/D/38-14	09104	38x14	315 mm
PROFESSIONAL			
DS/13-16	09110	13/16"	6.1/2"
★DS/0-1	09111	1"	8.1/4"
DS/1-5-16	09112	1.5/16"	10"
★DS/1-1-2	09113	1.1/2"	12.3/8"
★DS/0-2	09114	2"	15.3/8"
DS/2-1-2	09116	2.1/2"	19"
DS/0-3	09117	3"	22.1/2"
DS/3-1-2	09118	3.1/2"	29.3/4"
DS/0-4	09119	4"	33"

★ Best Seller

141 Tap & Die Sets

A complete range of taps and dies along with suitable tap wrenches and die holders packed in strong, attractive and convenient to store boxes. Contents are housed in a well fitted inserts.



TDE/41/M/ST



TDE/1/ST

ORDERING INFORMATION

CAT NR.	ORD NR.	CONSTITUENTS
41 PCS TAP & DIE SET		
TDE/41/I/ST	10015	T handle Tap Wrench 0 - 1/4" T handle Tap Wrench 1/4" - 1/2" Bar Type Tap Wrench 0 - 1/2" Die Holders for Round Dies of dia. 13/16" Die Holders for Round Dies of dia. 1" Die Holders for Round Dies of dia. 1.1/2" Thread Pitch Gage (18 leaves, #8 to #44)
		17 individual Hand Taps & Round Dies in sizes: 4-40 NC, 6-32 NC, 8-32 NC, 10-24 NC, 10-32 NF, 12-24 NC, 1/8"-27 NPT, 1/4"-20 NC, 1/4"-28 NF, 5/16"-18 NC, 5/16"-24 NF, 3/8"-16 NC, 3/8"-24 NF, 7/16"-14 NC, 7/16"-20 NF, 1/2"-13 NC, 1/2"-20 NF
TDE/41/M/ST	10014	T handle Tap Wrench 0 - 1/4" T handle Tap Wrench 1/4" - 1/2" Bar Type Tap Wrench 0 - 1/2" Die Holders for Round Dies of dia. 13/16" Die Holders for Round Dies of dia. 1" Die Holders for Round Dies of dia. 1.1/2" Thread Pitch Gage (16 leaves, 0.35mm to 3mm)
		17 individual Hand Taps & Round Dies in sizes: 3mm - 0.50mm, 4mm - 0.70mm, 4mm - 0.75mm, 5mm - 0.80mm, 5mm - 0.90mm, 6mm - 1.00mm, 7mm - 1.00mm, 8mm - 1.00mm, 8mm - 1.25mm, 9mm - 1.00mm, 9mm - 1.25mm, 10mm - 1.25mm, 10mm - 1.50mm, 11mm - 1.50mm, 12mm - 1.50mm, 12mm - 1.75mm, 1/8" - 28mm BSP

CAT NR.	ORD NR.	CONSTITUENTS
37 PCS METRIC TAP & DIE SET		
TDE/1/ST	10000	Bar Type Tap Wrench 2 mm - 6.3 mm Bar Type Tap Wrench 4.9 mm - 12 mm
		Die Holders for Round Dies of dia. 1"
		Die Holders for Round Dies of dia. 1.1/2"
		Die Holders for Round Dies of dia. 2"
		8 Round Dies: 6mm , 8mm, 10mm, 12mm, 14mm, 16mm, 18mm, 20mm
		8 Metric Tap Sets: (3 Taps each) 6mm , 8mm, 10mm, 12mm, 14mm, 16mm, 18mm, 20mm

142 Measuring Wheel

Perfect for outdoor usage
In real estate, landscaping, municipal & construction work etc.

Accurately measures on a wide variety of terrain
Both on paved and unpaved surfaces

Durable enough for outdoor use. It also has a composite tread for improved traction on smooth surfaces

Strong yet light weight aluminum handle and wheel for convenient usage & durability

Adjustable height with 3 section telescopic and snap lock handle

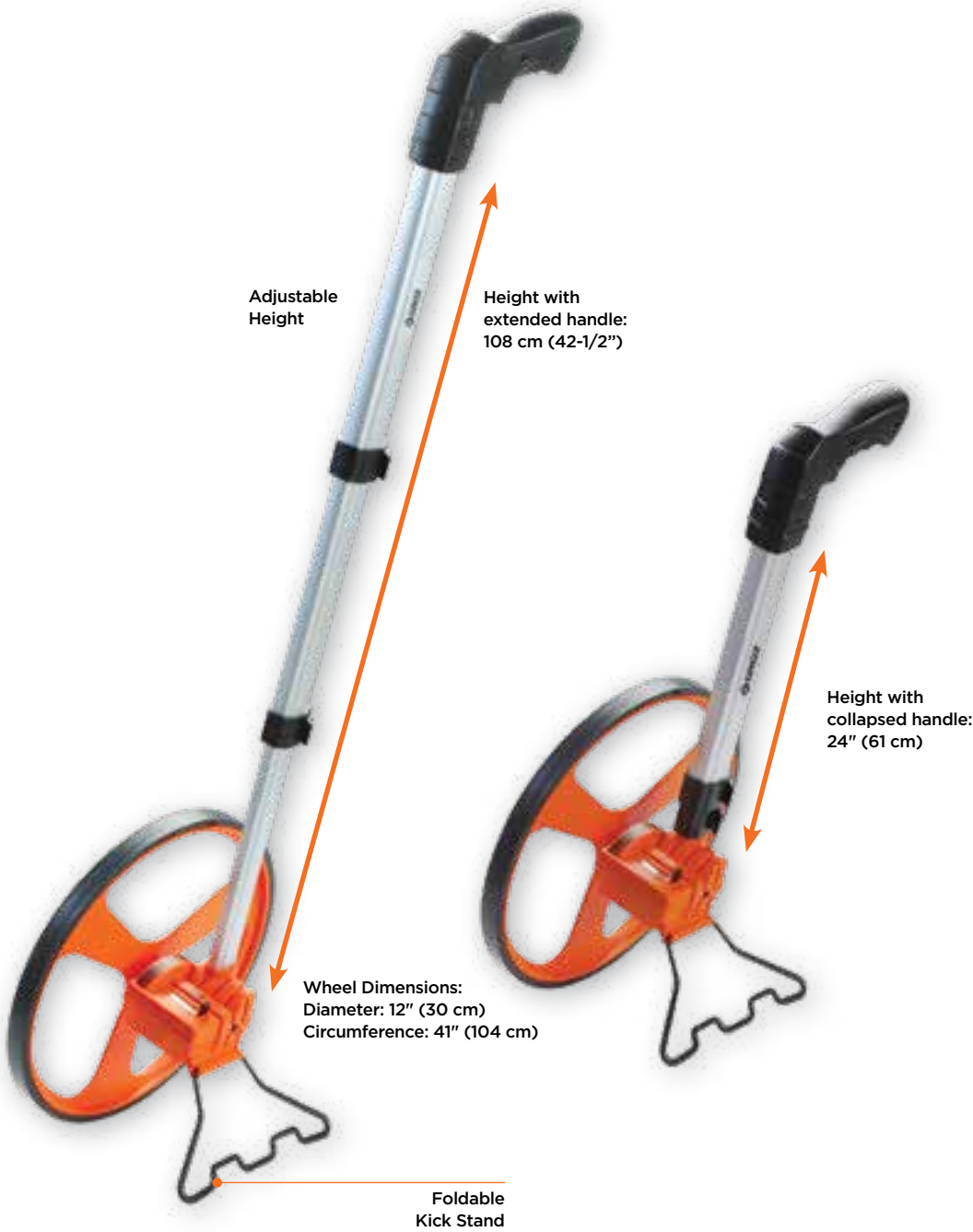
12" rubber coated wheel for smooth operation.

Single counter with push button reset, measures in meters

Comes with built-in fold down kick stand

Available in 2 variants
a. Meter
b. Feet

Comes with a strong and durable nylon bag



ORDERING INFORMATION

CAT NR.	ORD NR.	WHEEL SIZE		MEASURING RANGE
		(INCH)	(CM)	
MWL/1/M	01360	12	30	Upto 9999.9 meter
MWL/1/F	01361	12	30	Upto 9999.9 feet

MEASURING & MARKING

143 'Measure Master' Tape Measure

GROZ "High Performance" Professional Tape Measure

Sturdy Construction:
Tough & impact resistant
ABS/TPR casing survives
drops & shocks easily

10X
STRONGER BLADE

Nylon coated S50C steel
blade with Grade II accuracy

Sturdy construction with
6 feet (1.8m) straight
stand-out for increased
reach & efficiency

Nylon coating makes
it tough & resistant to
humidity & abrasion

ORDERING INFORMATION

CAT NR.	ORD NR.
TPM/5/19	62001



Auto Lock:
Auto braking mechanism
automatically locks the
blade in place while in use
leaving both hand free



Easy & smooth single handed
release by pressing the lock
gently

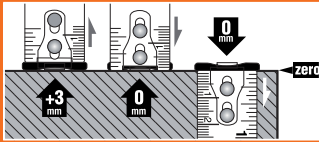
Strong & sturdy locking
mechanism - once locked
the blade will not budge
from position

Patented Magnetic Rubber Hook
Self aligning hook is designed fro smooth back & forth
movement making the tape useful for both internal &
external measurements



Powerful magnet on the hook
ensures that the blade can be
attached onto any metallic
surface leaving hands free

Patented rubber hook can
firmly grip round , chamfered,
spherical & glossy surfaces
unlike a normal metallic hook



Self aligning hook ensures accuracy
for internal & external measurements

When taking
magnetic external
measurements, add
3mm

Belt Hook:
Well designed belt hook
that can easily be hooked
onto a pocket or belt
repeatedly without any
damage



Impact & drop resistant ABS
casing

144 Spring Calipers & Dividers

Calipers are designed for
transfer measurements or
for comparing external and
internal measurements.

Dividers are used for
marking on steel or for
transferring measurements
from master templates.

Manufactured from high
grade steel with a polished
finish

Legs pivot on a roller and
are tensioned by a bow
spring.

Measuring adjustment is via
an adjusting nut that allows
fine settings.

Measuring capacity/ Size is
the distance between the
fulcrum and the end of the
leg.

Available in two types:

- a. **With Solid Nut**
 - b. **With Quick Nut**
- The threads of the split
quick adjusting nut
engage the screw at
the slightest pressure
of the leg and when the
pressure is withdrawn, the
nut releases itself sliding
freely over the screw.
This feature helps save
valuable time in opening
& closing when a variety
of measurements have to
be taken consecutively



ORDERING INFORMATION

CAT NR.	ORD NR.	CAT. NR.	ORD NR.	SIZE	
WITH SOLID NUT		WITH QUICK NUT		(INCH)	(MM)
INSIDE CALIPERS					
ID/3	01400	ID/Q/3	01430	3	75
*ID/4	01401	ID/Q/4	01431	4	100
*ID/6	01402	ID/Q/6	01432	6	150
*ID/8	01403	ID/Q/8	01433	8	200
ID/10	01404	ID/Q/10	01434	10	250
ID/12	01405	ID/Q/12	01435	12	300
ID/EC/14	01809	-	-	14	350
ID/EC/16	01806	-	-	16	400
ID/EC/18	01807	-	-	18	450
ID/EC/24	01808	-	-	24	600
OUTSIDE CALIPERS					
OD/3	01410	OD/Q/3	01440	3	75
*OD/4	01411	OD/Q/4	01441	4	100
*OD/6	01412	OD/Q/6	01442	6	150
*OD/8	01413	OD/Q/8	01443	8	200
OD/10	01414	OD/Q/10	01444	10	250
OD/12	01415	OD/Q/12	01445	12	300
OD/EC/14	01819	-	-	14	350
OD/EC/16	01816	-	-	16	400
OD/EC/18	01817	-	-	18	450
OD/EC/24	01818	-	-	24	600

★ Best Seller

CAT. NR.	ORD NR.	CAT. NR.	ORD NR.	SIZE	
WITH SOLID NUT		WITH QUICK NUT		(INCH)	(MM)
SPRING DIVIDERS					
DD/3	01420	DD/Q/3	01450	3	75
*DD/4	01421	DD/Q/4	01451	4	100
*DD/6	01422	DD/Q/6	01452	6	150
*DD/8	01423	DD/Q/8	01453	8	200
DD/10	01424	DD/Q/10	01454	10	250
DD/12	01425	DD/Q/12	01455	12	300
DD/EC/14	01829	-	-	14	350
DD/EC/16	01826	-	-	16	400
DD/EC/18	01827	-	-	18	450
OD/EC/24	01828	-	-	24	600

145 Craftsmen's Spring Calipers & Dividers

Amongst the finest calipers and dividers these are especially useful for the discerning craftsmen.

Made from high grade steel

Legs machined to a smooth taper

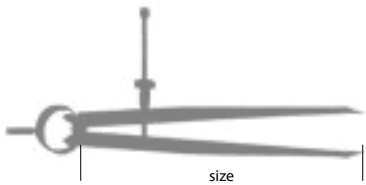
Attractive black powder coated finish.

Finely machined and polished nut runs smoothly to secure the legs exactly to dimension.

These are available in two types:

- 1. With Solid Nut
- 2. With Quick Nut

The threads of the split quick adjusting nut engage the screw at the slightest pressure of the leg and when the pressure is withdrawn, the nut releases itself sliding freely over the screw. This feature helps save valuable time in opening & closing when a variety of measurements have to be taken consecutively



CD/SP/ST/6

ORDERING INFORMATION

CAT NR.	ORD NR.	CAT. NR.	ORD NR.	SIZE	
SOLID NUT		WITH QUICK NUT		(INCH)	(MM)
INSIDE CALIPERS					
ID/SP/3	01460	ID/SP/Q/3	01560	3	75
ID/SP/4	01461	ID/SP/Q/4	01561	4	100
*ID/SP/6	01462	ID/SP/Q/6	01562	6	150
*ID/SP/8	01463	ID/SP/Q/8	01563	8	200
ID/SP/10	01464	ID/SP/Q/10	01564	10	250
ID/SP/12	01465	ID/SP/Q/12	01565	12	300
OUTSIDE CALIPERS					
OD/SP/3	01470	OD/SP/Q/3	01570	3	75
OD/SP/4	01471	OD/SP/Q/4	01571	4	100
*OD/SP/6	01472	OD/SP/Q/6	01572	6	150
*OD/SP/8	01473	OD/SP/Q/8	01573	8	200
OD/SP/10	01474	OD/SP/Q/10	01574	10	250
OD/SP/12	01475	OD/SP/Q/12	01575	12	300

★ Best Seller



146 Wing Compass

Rugged industrial grade compasses.

Manufactured from heavy gauge steel sheet

Attractive black powder coated finish

Accurately ground tip

Heavy Duty hinge and knurled locking nut helps in convenient movement.

Used for precisely scribing arcs and circles on projects and drawings.



ORDERING INFORMATION

CAT NR.	ORD NR.	SIZE		SCRIBING CAPACITY	
		(INCH)	(MM)	(INCH)	(MM)
WC/6	01550	6	150	8	200
★WC/8	01551	8	200	10.1/2	265
WC/16	01554	16	400	22	550

★ Best Seller

147 Precision Pencil Compass

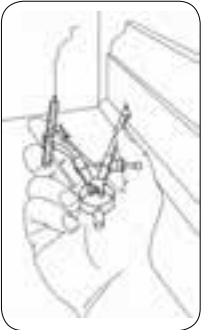
Finest quality carpenter's compass

Manufactured from die cast zinc for increased durability.

Spring tension adjustment helps marking diameters upto 9" (225 mm). The Scribe guide helps in marking out edges.

Useful for marking out circles & contours

Can be used with standard lead pencil or a slim ball point pen



ORDERING INFORMATION

CAT NR.	ORD NR.
PPC/01	01545

148 Pencil Compass

Manufactured from special steel

Accurately machined and polished legs pivot on a roller and are tensioned by a bow spring

Adjustable pencil slot can accomodate regular pencils and slim ball pens.



ORDERING INFORMATION

CAT NR.	ORD NR.	MIN. CAPACITY	
		(INCH)	(MM)
PPC/EC/6	11035	6	150
PPC/EC/8	11036	8	200
PPC/EC/10	11037	10	250
PPC/EC/12	11038	12	300

149 Vernier Caliper

Manufactured from heavy gauge steel

Permanently etched black graduations in mm and 1/16th of an inch. Vernier reading of 0.1 mm & 1/128".

Slide lock for gauging depths - these calipers work on a friction roller adjustment mechanism.

Useful for making inside, outside depth and step measurements.

Very popular for general purpose use in workshops, apprentice, training schools etc.



ORDERING INFORMATION

CAT NR.	ORD NR.	CAPACITY	
		(INCH)	(MM)
VC/5/EC	01310	0 - 5	0 - 127

150 Brass Calipers

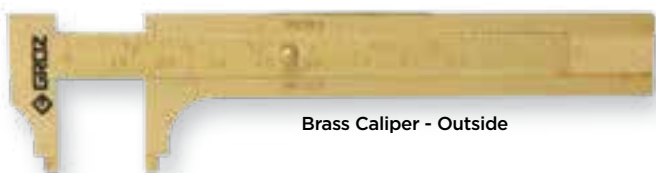
Handy pocket caliper, made from solid brass

Close tolerance dovetail design ensures smooth motion of caliper & provides accurate measurements

Graduated in both imperial & metric graduations with a least count of 1/16" on the imperial scale and 0.1 mm on the metric scale

Ideal for mechanics, hobby crafters etc. to take measurements on small objects such as nails, screws, lenses, tubing etc.

- Available in two types:
- a. Brass Calipers (Outside)
Used for making external measurements from zero to the measuring range of the caliper
 - b. Brass Calipers (Inside and Outside)
Used for making both internal and external measurements. External measurements can be made from 0-4" (0-100 mm), whereas internal measurements can be made from 7/32" (5 mm) to 4" (100 mm)



Brass Caliper - Outside



Brass Caliper - Inside & Outside

ORDERING INFORMATION

CAT NR.	ORD NR.	MEASURING RANGE	
		(INCH)	(MM)
BRASS CALIPERS - OUTSIDE			
BC/ORD/75	01300	0-3	0-75
★BC/ORD/100	01301	0-4	0-100
BRASS CALIPERS - INSIDE & OUTSIDE			
BC/ORD/ID/100	01304	Outside: 0-4 Inside: 7/32-4	0-100 5-100

★ Best Seller

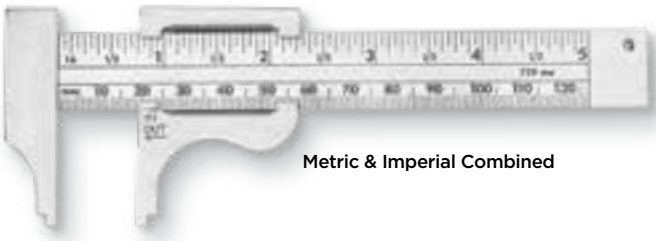
151 Slide Calipers

All purpose stainless steel slide calipers, sized to slip into the pocket

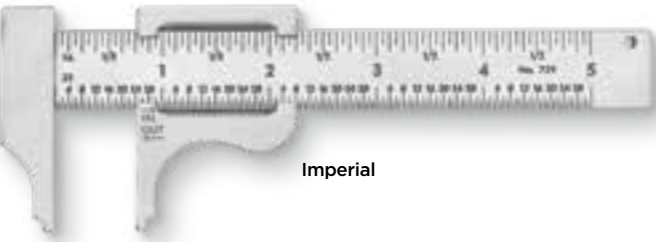
Used for quick & accurate inside and outside measurements.

Scale has permanently etched graduations with decimal equivalents table on back

- Available in two types:
- a. Imperial
Graduated in Inches in 16ths & 32nds
 - b. Metric & Imperial Combined:
Graduated in inches & mm. Inch graduations are in 16ths



Metric & Imperial Combined



Imperial

ORDERING INFORMATION

CAT NR.	ORD NR.	TYPE	CAPACITY	
			(INCH)	(MM)
SLC/SS/4	01320	Imperial	4	-
SLC/SS/4M	01321	Metric & Imperial Combined	4	100



152 Precision Squares

Superior range of Steel Squares with accuracies conforming to BS 939 grade B for squareness.

Blades are made from hardened spring steel with both stock and blade precisely ground to ensure straightness and parallelism.

Very useful for woodworkers and cabinet makers and are of particular value when setting up power tools



SS/A/2-4-6/ST

SS/A/2-3-4-6/ST

ORDERING INFORMATION

CAT NR.	ORD NR.	BLADE LENGTH (FROM INNER EDGE OF STOCK TO END OF BLADE)		STOCK LENGTH (FROM EDGE OF STOCK TO OUTER EDGE OF BLADE)		ACCURACY FOR INTERNAL AND EXTERNAL SQUARENESS	
		(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MICRONS)
SS/A/2	01000	2	50	2	50	0.00063	16
SS/A/3	01001	3	75	2.3/8	60	0.00063	16
★SS/A/4	01002	4	100	3	75	0.00063	16
★SS/A/6	01003	6	150	4	100	0.00063	16
SS/A/8	01004	8	200	5	125	0.00080	20
SS/A/9	01005	9	225	6.5/16	160	0.00094	24
SS/A/10	01006	10	250	6.1/2	165	0.00094	24
SS/A/12	01007	12	300	8.9/32	210	0.00094	24
SETS							
★SS/A/2-4-6/ST	01012	Set contains one each of 2"(50mm), 4"(100mm) & 6"(150mm) Squares					
SS/A/2-3-4-6/ST	01011	Set contains one each of 2"(50mm), 3"(75mm), 4"(100mm) & 6"(150mm) squares					

★ Best Seller

153 Graduated Steel Squares

General purpose steel squares with deep etched graduations.

Graduated blade is accurately hardened.

Blade and stock are perfectly ground which ensures straightness and parallelism.

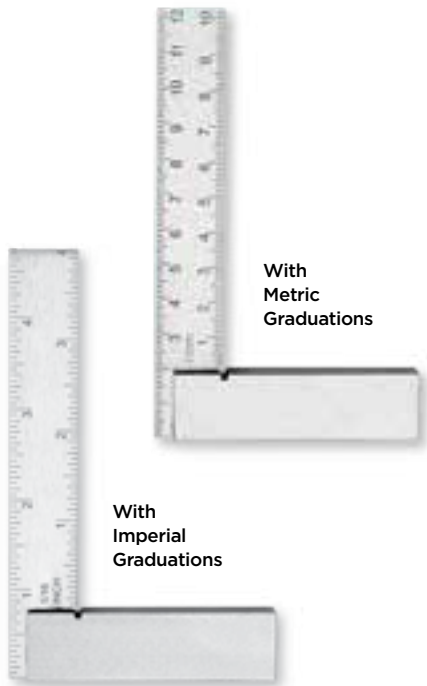
Ideal choice for setting up machinery like table saw blades, jointer knives and fences

Available in two types:

- a. With imperial graduations on both inside and outside edge of the blade
- b. With metric graduations on both inside and outside edge of the blade

ORDERING INFORMATION

CAT NR.	ORD NR.	SIZE		STOCK LENGTH		SQUARENESS OF BLADE TO WORKING FACES OF STOCK	
		(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MICRONS)
SS/4G	01142	4	-	3	-	0.00019	-
SS/6G	01143	6	-	4	-	0.00028	-
SS/4GM	01152	-	100	-	75	-	48
SS/6GM	01153	-	150	-	100	-	72



154 Adjustable Bevel

Adjustable Bevels are especially useful for marking dovetails and other unusual angles

Offset slot in the blade enables a line to be drawn along the full length of the blade without interference from stock

Polished wooden handle is fitted with thick brass fittings which protect the ends from damage

Blade adjustment is achieved via a forged steel wing nut

ORDERING INFORMATION

CAT NR.	ORD NR.	SIZE	
		(INCH)	(MM)
AB/10	39400	10	250



155 Centre Square

Extremely useful tool for locating centers of round stocks and parts, quickly and easily.

The knife edge blade is made from spring Steel, hardened and ground for extended life



Position the vee of the centre square onto the round face of the stock and scribe a line along the knife edge. Rotate the square and repeat process. The common point of intersection is the centre of the stock



ORDERING INFORMATION

CAT NR.	ORD NR.	SIZE	
		(INCH)	(MM)
CS/1	03521	1.1/2	38
★CS/2	03522	3	75

★ Best Seller

156 Stainless Steel Rules

Made from stainless steel, these rules have a polished finish with permanently engraved clear to read graduations.

These are available in two types:

- a. Imperial & Metric Combined Rules
These rules are graduated in metric dimensions on one edge and imperial on the other. Imperial dimensions are in

1/16th, 1/32nd & 1/64ths. Metric dimensions are in 0.5mm & 1mm. Reverse side of the rule has a permanently engraved metric to imperial conversion table.

- b. Metric Rules
Graduated in metric dimensions 0.5mm & 1mm on both edges



ORDERING INFORMATION

CAT. NR. IMPERIAL & METRIC	ORD NR. IMPERIAL & METRIC	CAT. NR. METRIC	ORD NR. METRIC	LENGTH	
				(INCH)	(MM)
★SR/6	01330	SR/150	01340	6	150
★SR/12	01331	SR/300	01341	12	300
SR/18	01332	SR/450	01342	18	450
SR/24	01333	SR/600	01343	24	600
★SR/40	01334	SR/1000	01344	40	1000
SR/48	01335	SR/1200	01345	48	1200

★ Best Seller

157 Stainless Steel Pocket Ruler

Stainless steel ruler in polished finish with combined imperial & metric graduations.

Imperial dimensions in 1/16th, 1/32nd & 1/64th. Metric dimensions in 0.5mm & 1mm.

Reverse side has a permanently engraved metric to imperial conversion table.

Ruler comes with a pocket clip making it convenient to carry



ORDERING INFORMATION

CAT NR.	ORD NR.	LENGTH	
		(INCH)	(MM)
SR/P/6	01337	6	150

158 Bench
Planes

Highest Quality Bench
Planes: ideal combination
of exacting tolerances
with traditional standards
of workmanship, design &
performance

Robust grey cast iron base
accurately machined &
ground to high precision.

Flatness of sole is
maintained upto
0.003"(0.075mm).

Spring steel cutter blade is
hardened 55 + 5 HRC and
can be honed easily to a
razor sharp, long lasting
edge.

Accurately machined blade
seating eliminates blade
"chatter".

Fully adjustable frog
provides the required setting
for the specific job.

Attractive hardwood
handle and knob with brass
adjusting nut and screw
heads

Also available with
corrugated base - very
useful for work on resinuous
or sticky timbers



SP/3



JP/5



SP/4



FP/6



SP/4C



JP/7

ORDERING INFORMATION

CAT NR.	ORD NR.	TYPE	SUITABLE FOR	LENGTH		CUTTER WIDTH	
				(INCH)	(MM)	(INCH)	(MM)
SP/3	39700	Smoothing Plane	Final finishing work	9.1/2	240	1.3/4	45
*SP/4	39701	Smoothing Plane	Final finishing work	10.1/4	260	2	50
*JP/5	39702	Jack Plane	For heavy stock removal when preparing sawn timber prior to final finishing	14	355	2	50
FP/6	39703	Fore Plane	Used for flattening and smoothing wider panels such as table tops and work bench tops	18	458	2.3/8	60
JP/7	39704	Jointer Plane	Used for truing up the edges of long boards prior to joining them together to create large boards	22	560	2.3/8	60
CORRUGATED BASE PLANES							
SP/3C	39705	Smoothing Plane	Final finishing work	9.1/2	240	1.3/4	45
SP/4C	39706	Smoothing Plane	Final finishing work	10.1/4	260	2	50
JP/5C	39707	Jack Plane	For heavy stock removal when preparing sawn timber prior to final finishing	14	355	2	50

* Best Seller

WOODWORKING
TOOLS

159 Duplex Rabbet & Fillister Plane

Manufactured from high quality grey iron castings

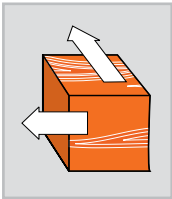
Used for producing rabbeting cuts in doorframes, windows, furniture & cabinet carcasses. Cuts rabbets both with & across the grain!

Plane has 2 positions for the cutter- rear position for regular rabbet work & the forward position for bull-nose work. In rear position cutter is adjustable for depth of cut.

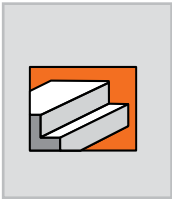
The Plane is fitted with: **Spur**
Kept flush with the base when cutting with the grain. It is brought into use by turning through 90° when cutting across the grain. The spur in this position prevents tearing & splintering of wood which otherwise would occur when cutting across the grain.

Adjustable Fence
Can be fitted on either side of the plane.

Depth Gauge
Adjustable upto 1/2" (12mm). This also is removable



Cuts rabbets both with and across the grain



Makes rabbet cuts in wood for door frames, windows, furniture and cabinet carcasses

160 Woodworking Front Vice

Ideally used by wood-workers to make their own vice assemblies & on work benches.

Strong and robust casting

Cast iron handle socket

Precision rolled threads and twin guides are easy to use and distortion free

Complete with well finished wooden handle



ORDERING INFORMATION

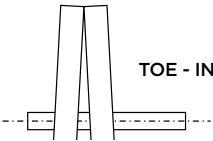
CAT NR.	ORD NR.	JAW WIDTH		JAW OPENING	
		(INCH)	(MM)	(INCH)	(MM)
WWV/F/7	39020	7.1/8	181	8.1/4	210

161 Woodworking Vice Plain Screw

Manufactured from close-grained grey cast iron for long trouble free service. Accurately machined housings ensure smooth sliding movement.

Accurately fitted solid steel guide rods reduce wear and tear giving the vices a smooth and true parallel action, free of side or cross deflection.

Jaws are equipped with a "TOE - IN" feature. When fully closed, the jaws meet only at the top to provide even clamping on the whole depth of the work piece



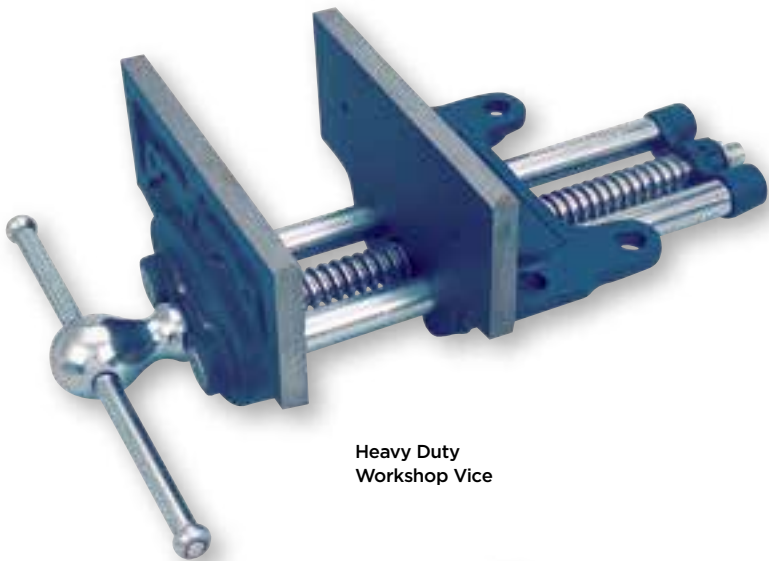
Square body seating for easy fitment under the bench top so that jaws are flush with the bench top.

Steel main screw has Buttress threads for smooth, accurate and responsive adjustment.

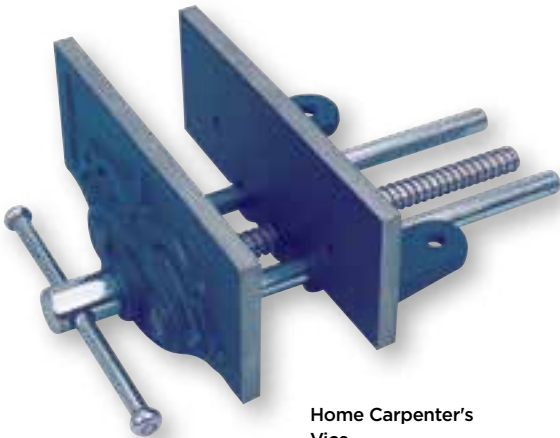
Body and sliding jaw have provision for attaching wooden liners to protect the vice, the work piece and working tools

Available in two types:

- a. **Heavy Duty Full Size Workshop Vices**
Especially useful for large sized jobs in workshops.
- b. **Home Carpenter's Vices**
Light weight vices for the amateur home carpenter or the young woodworker, yet robust enough for the professional who needs a compact vice for smaller work.



Heavy Duty Workshop Vice



Home Carpenter's Vice

ORDERING INFORMATION

CAT NR.	ORD NR.	JAW WIDTH		JAW OPENING		NET WT
		(INCH)	(MM)	(INCH)	(MM)	(KG)
HEAVY DUTY FULL SIZE WORKSHOP VICES						
WWV/150	39000	6	150	4.1/2	115	2.300
★WWV/175	39001	7	175	8	200	7.250
WWV/225	39002	9	225	13	330	13.750
HOME CARPENTER'S VICES						
WWV/EC/175	39004	7	175	6	150	2.5000
WWV/EC/225	39005	9	225	9	225	5.5000

★ Best Seller

162 Woodworking Vice Portable

Lightweight vice for the young woodworker or home handyman, yet robust enough for professional use

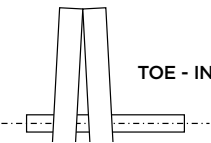
Designed for two clamping options:

- a) Permanent clamping on the workbench via clamping slots provided in the vice
- b) Additional clamping option via the 2.5/32"(55mm) integrated clamp. This allows the vice to be conveniently clamped to any work surface

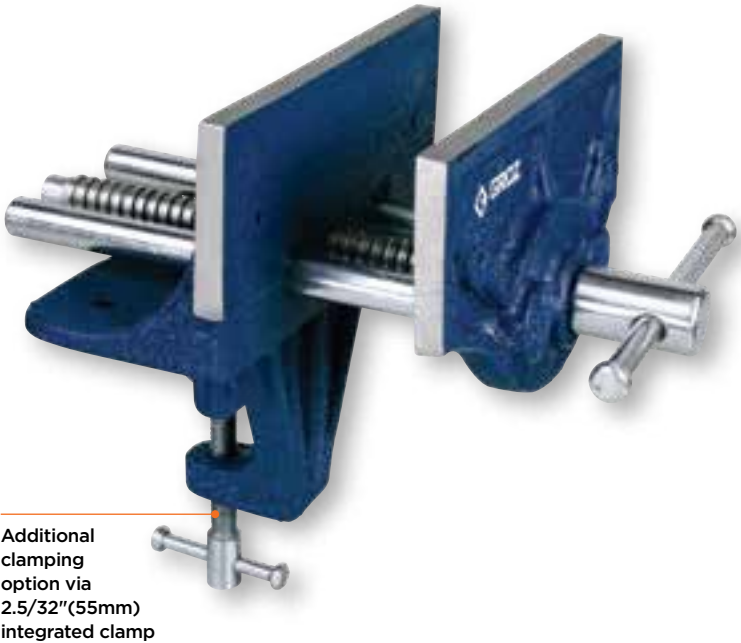
Manufactured from close grained cast iron.

Body and sliding jaw have provision for attaching wooden liners to protect the vice, the work piece and working tools

Vice jaws are equipped with a "TOE - IN" feature. When fully closed, the jaws meet only at the top to provide even clamping on the whole depth of the work piece



Steel main screw, guide rods and handle are chrome plated for increased resistance to corrosion



Additional clamping option via 2.5/32"(55mm) integrated clamp

ORDERING INFORMATION

CAT NR.	ORD NR.	JAW WIDTH		JAW OPENING		NET WT. EACH (KG)
		(INCH)	(MM)	(INCH)	(MM)	
*WWV/P/6	39006	6	150	4.1/2	112	2.750

* Best Seller



163 Woodworking Vice Quick Release

Traditional pattern woodworking vice equipped with the quick release mechanism

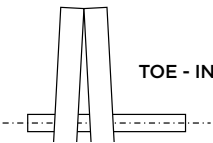
Press trigger to initiate quick action: front jaw slides freely allowing large or small work pieces to be interchanged smoothly. Release trigger to return to normal mechanism for fine adjustments

Works as a normal vice & a tail vice: Adjustable front dog used in conjunction with a bench stop allows oversize work pieces to be held securely

Manufactured from close-grained grey cast iron

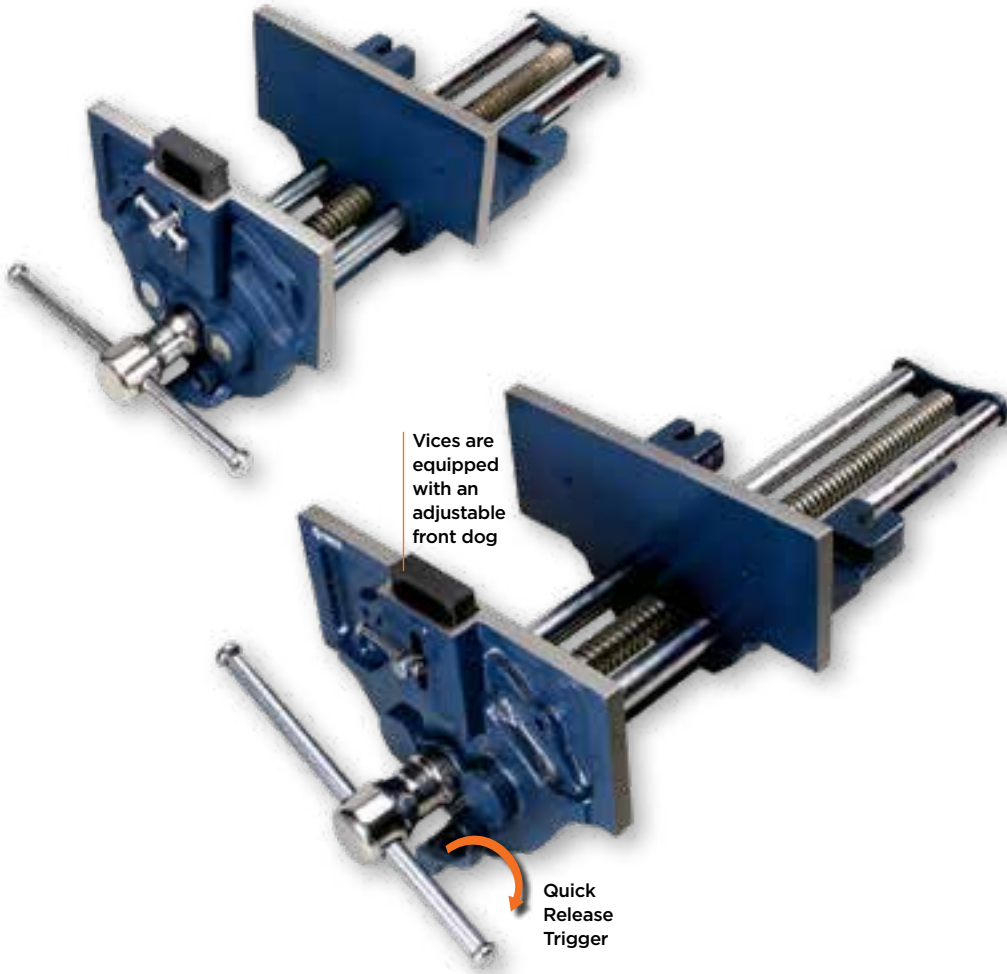
Accurately machined housings for smooth sliding movement and true parallel action free of side or cross movement.

Vice jaws are equipped with a "TOE - IN" feature. When fully closed the jaws meet only at the top to provide even clamping on the whole depth of the work piece



Steel main screw has Buttruss threads for smooth, accurate and responsive adjustment.

Body and sliding jaw have provision for attaching wooden liners to protect the vice, the work piece and working tools



Vices are equipped with an adjustable front dog

Quick Release Trigger

ORDERING INFORMATION

CAT NR.	ORD NR.	JAW WIDTH		JAW OPENING		NET WT (KGS)
		(INCH)	(MM)	(INCH)	(MM)	
WWV/D/Q/7	39007	7	175	8	200	8.0
*WWV/D/Q/9	39009	9	225	13.1/2	340	14.5
WWV/D/Q/10.5	39014	10.1/2	270	16	400	17.8

* Best Seller



164 Woodworking Vice Rapid Action

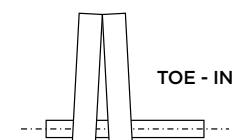
Rapid action mechanism which is unique and different from the conventional quick release mechanism

To tighten the vice, turn the handle in the usual way. As soon as the handle is turned in the opposite direction, the screw is disengaged and the front jaw slides freely

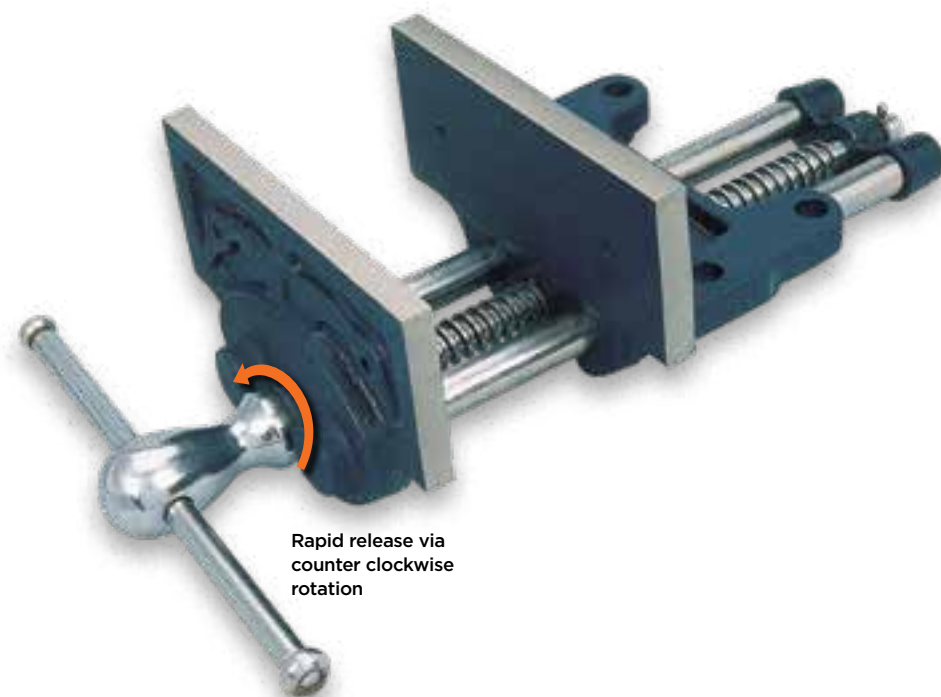
Manufactured from close grained grey cast iron

Accurately machined housings for smooth sliding movement

Vice jaws are equipped with a "TOE - IN" feature. When fully closed, the jaws meet only at the top to provide even clamping on the whole depth of the work piece.



Main screw has Butress threads for smooth, accurate and responsive adjustment



Rapid release via counter clockwise rotation



ORDERING INFORMATION

CAT. NR.	ORD NR.	JAW WIDTH		JAW OPENING		NET WT (KG)
		(INCH)	(MM)	(INCH)	(MM)	
WWV/R/7	39011	7	175	8	200	7.250
★WWV/R/9	39012	9	225	13	330	13.750

★ Best Seller

165 KWIK Clamps Quick Action Woodworking Clamps

Manufactured from "K" section steel profiled to minimize flexing & bending

Quickest adjustment mechanism - simply lifting the Aluminium die-cast handle allows the sliding jaw to be moved anywhere on the rail

Four hardened rollers in the moving head maintain a constant 90° angle under load.

Clamp jaws are encased in non-marring, glue resistant polypropylene casing

Throat Depth (T): 3.11/32" (85mm)

Width of clamp face (W): 1.7/16" (37mm)

SECTION

1.1/8" X 3/8" X 1/4"
(29 X 9 X 6 MM)



5/8" (16 mm)
The clamp can be hand tightened upto clamping pressure of 2500 KN & remains perfectly square to the rail

Quick Action Clamp as a Spreader

The clamp is fitted with a plastic end stop to maintain it at level. By removing this end stop, the movable jaw can be reversed and be used as a spreader - very useful in building window & door frames



Set of 4 Parallel Blocks used in conjunction with GROZ KWIK CLAMPS. These are useful for efficient & accurate set up of raised panels, window & door frames, boxes etc.



ORDERING INFORMATION

CAT NR.	ORD NR.	CLAMPING CAPACITY	
		(INCH)	(MM)
KBC/12	39180	12	300
★KBC/24	39181	24	600
KBC/31	39182	31	775
★KBC/40	39183	40	1000
KBC/50	39184	50	1250
SET OF 4 PARALLEL CLAMP BLOCKS			
PCB/4/ST	39190		

★ Best Seller

166 Duo Bar Clamps

Incorporating advanced features to the traditional Sash Clamp, the DUOBAR is every woodworker's delight.

Rigid and robust malleable iron head and slide can be easily reversed on the bar allowing both internal as well as external clamping.

Spring loaded pin allows the head and slide to be adjusted at any desired position on the bar.

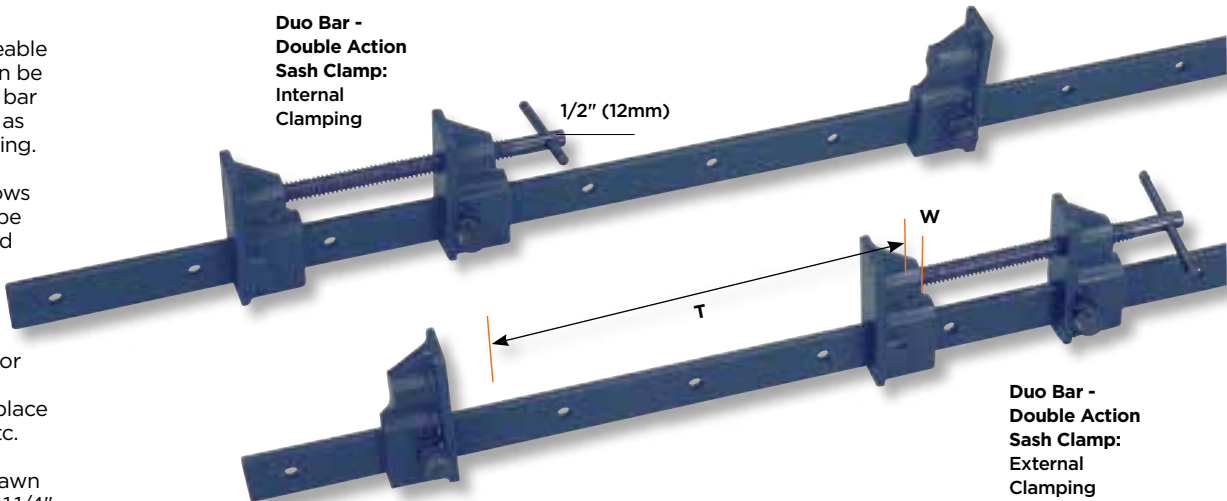
Internal clamping is especially useful for holding window or door frames in position or holding partitioning in place during construction etc.

Manufactured from drawn steel with a section of 1.1/4" x 1/4" (32 mm x 6 mm) are furnished with holes equally spaced along the entire length for clamping of a vast range of sizes.

Throat Depth (T): 2.1/8" (55 mm)

Width Of Clamp Face (W): 1.3/16" (30 mm)

RECTANGULAR SECTION
1.1/4" X 1/4"
(32 X 6 MM)



ORDERING INFORMATION

CAT NR.	ORD NR.	BAR LENGTH		EXTERNAL CAPACITY	
		(INCH)	(MM)	(INCH)	(MM)
DBC/24	39130	24	600	18	450
DBC/30	39131	30	750	24	600
*DBC/36	39132	36	900	30	750
*DBC/42	39133	42	1050	36	900
*DBC/48	39134	48	1200	42	1050
DBC/54	39135	54	1350	48	1200

* Best Seller



Duo Bar used for internal clamping

167 T Bar Clamps

Designed for applications that require extra resilience under extreme pressure

"T" section is made from cold drawn steel with a section of 1" x 1.7/8" which offers great resistance to bending in use

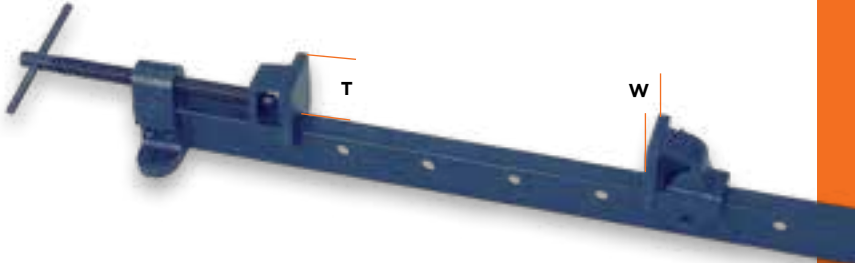
Malleable iron head and slide allow these clamps to be used in extra heavy duty applications

The main screw has rolled Acme threads for smooth

movement and increased resistance to wear

The sliding head is fastened to the T Bar by inserting a steel pin through any of the locating holes on the bar

The steel bar, head and slide have an powder coated finish, the main screw, handle and pins are blackened for increased resistance to corrosion



Throat Depth (T): 1-7/8" (48 mm)

Width Of Clamp Face (W): 2.1/8" (54 mm)

ORDERING INFORMATION

CAT NR.	ORD NR.	BAR LENGTH		CAPACITY	
		(INCH)	(MM)	(INCH)	(MM)
TBC/3	39100	36	900	30	750
*TBC/4	39101	48	1200	42	1050
*TBC/5	39102	60	1500	54	1350
*TBC/6	39103	72	1800	66	1650
TBC/7	39151	84	2100	78	1980
TBC/8-11-16	39152	96	2400	90	2250

* Best Seller



T SECTION
1.7/8" X 7/8"
(48 X 22 MM)

168 Cramp Head Set

Cramp heads are a low cost alternative to the full size T Bar and Sash Bar Clamps

A bar clamp of any length can be made by using a piece of timber 1"(25mm) thick

Malleable iron heads with screw and pin made from high quality steel for hard wearing long life

Blackened screw has rolled threads for extra strength and resistance to wear



ORDERING INFORMATION

CAT NR.	ORD NR.
CHST/25-25	39120

Useful for clamping large section workpieces during fabrication, gluing in joinery, carpentry and boat building.



Made from drawn steel with a section of 1.1/4" x 1/4" (32 mm x 6 mm).

Malleable iron head and slides provide rigidity and strength even under heavy tension.

Both head and slide have a flat bottom allowing the bar to stand upright without support.

The head is fitted square to the bar with 1.1/2° - 2° taper for true parallel clamping action.

Main screw and handle are made from high-grade steel and have a blackened finish for increased resistance to corrosion.

The screw has rolled Acme threads that impart extra strength and are wear resistant.

Throat Depth (T):
2" (50 mm)

Width Of Clamp Face (W):
1.3/16" (30 mm)

REGULAR
SECTION

1.1/4" X 1/4"
(32 X 6 MM)

ORDERING INFORMATION

CAT NR.	ORD NR.	BAR LENGTH		CAPACITY	
		(INCH)	(MM)	(INCH)	(MM)
SBC/24	39110	24	600	18	450
SBC/30	39111	30	750	24	600
★SBC/36	39112	36	900	30	750
★SBC/42	39113	42	1050	36	900
★SBC/48	39114	48	1200	42	1050
SBC/54	39115	54	1350	48	1200

★ Best Seller



SPECIALTY HAND TOOLS

170

2 Jaw Hand Riveter

FH-10

50% Stronger & More Durable than most other riveters in the market

Manufactured from high strength structural steel

All parts that come in contact with the rivet are heat treated for increased wear resistance

Easy Maintenance

Jaws can be cleaned without tool disassembly

Ergonomically designed longer handle to suit all hand sizes. Complete with PVC dip coated non-slip grip

Attractive and safe lead free powder coated finish

Includes 4 nose pieces & a nose piece wrench

For Riveting

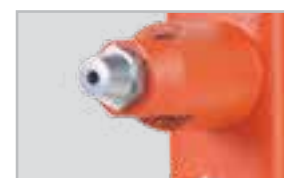
a. Aluminum Pop / Blind Rivets:

- 3/32" (2.4 mm)
- 1/8" (3.2 mm)
- 5/32" (4.0 mm)
- 3/16" (4.8 mm)

b. Stainless Steel Rivets:

- 1/8" (3.2 mm)
- 5/32" (4.0 mm)

Suitable for industrial, engineering & maintenance jobs



Nose body designed to fit into smaller applications



Longer handle with ergonomic PVC dip coated sleeve

NEW!



4 nose pieces for a range of rivets sizes:
3/32" (2.4 mm)
1/8" (3.2 mm)
5/32" (4.0 mm)
3/16" (4.8 mm)



Convenient change of nose pieces with wrench

ORDERING INFORMATION

CAT NR.	ORD NR.
RT/FH-10	31653

171

Nut Riveter Kit

FH-20

50% Stronger & More Durable than most other riveters in the market

Designed for riveting threaded inserts for use as nuts

Manufactured from high strength structural steel

All parts that come in contact with the rivet are heat treated for increased wear resistance

Ergonomically designed handle to suit all hand sizes. Complete with PVC dip coated non-slip grip

Attractive and safe lead free powder coated finish

Includes

- 3 threaded Mandrels
- 3 Nose pieces for riveting M4, M5 & M6 threaded rivets
- Spare M4 Rivets: 15
- Spare M5 Rivets: 15
- Spare M6 Rivets: 10



M4 Rivets: 15



M5 Rivets: 15



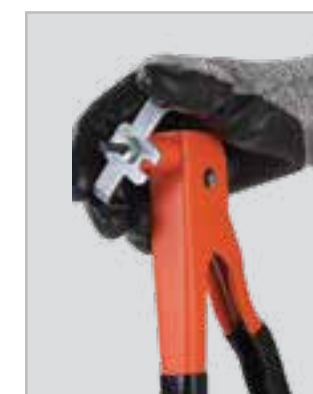
M6 Rivets: 10



Threaded Mandrels & Nose pieces



NEW!



Convenient change of nose pieces with wrench

ORDERING INFORMATION

CAT NR.	ORD NR.
RT/FH-20	31654

172

2 Jaw
Lazy Tong Hand Riveter

FH-44

Heavy duty industrial hand riveter best suited for continuous & repetitive usage especially in automotive, construction & agricultural application

Strong & sturdy yet lightweight aluminum die cast body & handle with heavy gauge steel springs

All parts that come in contact with the rivet are heat treated for increased wear resistance

Attractive and safe lead free powder coated finish

Includes 3 nose pieces & a spanner

Suitable for riveting aluminum, steel & stainless steel pop / blind rivets 1/8" (3.2 mm), 5/32" (4.0 mm) & 3/16" (4.8 mm)



NEW!

ORDERING INFORMATION

CAT NR.	ORD NR.
LT/FH-44	31655

173

Brass
Hammers

An ideal combination of Brass & Aluminum makes these hammers very safe for use even in explosive environments

The Brass Head does not spark and protects metal surfaces from any damage such as denting or marking during use

The Non slip aluminium handle is knurled for comfortable non-slip grip



ORDERING INFORMATION

CAT NR.	ORD NR.	HEAD WT.	
★BRH/6oz	32490	6oz	0.170 kg
★BRH/1	32491	1 lb	0.450 kg
BRH/2-1-2	32492	2.1/2 lbs	1.140 kg
BRH/3	32493	3 lbs	1.360 kg
BRH/4	32494	4 lbs	1.820 kg

★ Best Seller

174 Grommet Kits

Grommets or eyelets as they are commonly called are used to repair canvas, tarpaulins, tents, awnings, sailcloth, lawn furniture, pool covers etc.

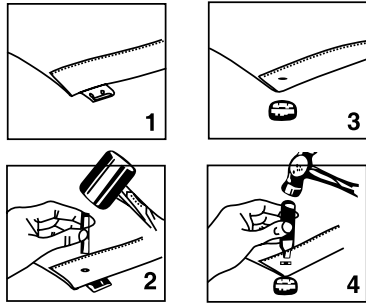
These are offered as a kit containing:

- a. Solid Brass Grommets
- b. Hole Punch
- c. Backer Block
- d. Setting Tool
- e. Anvil

Grommets are made from solid brass making them rust resistant.

Hole Punch and Setting Tool are precision machined from single bar of solid steel for additional durability

Replacement Grommets also available



Grommet Kit



ORDERING INFORMATION

CAT NR.	ORD NR.	SIZE	KIT CONSTITUENTS
GROMMET KITS			
GRMT/1-4/ST24	26600	1/4" (6mm)	Includes 24 brass grommets (eyelets), hole punch, backer block, setting tool and anvil
GRMT/3-8/ST12	26601	3/8" (10mm)	Includes 12 brass grommets (eyelets), hole punch, backer block, setting tool and anvil
GRMT/1-2/ST12	26602	1/2" (12mm)	Includes 12 brass grommets (eyelets), hole punch, backer block, setting tool and anvil
REPLACEMENT GROMMETS			
GRM/B/1-4/ST24	26650	1/4" (6mm)	24 Replacement Grommets
GRM/B/3-8/ST12	26651	3/8" (10mm)	12 Replacement Grommets
GRM/B/1-2/ST12	26652	1/2" (12mm)	12 Replacement Grommets

175 Paint Mixers

Paint mixers are ideal for mixing paint and a multitude of other low density materials

Manufactured from a 5/16"(8mm) hexagonal shaft with fluted construction, these have an attractive red powder coated finish for increased protection against rust

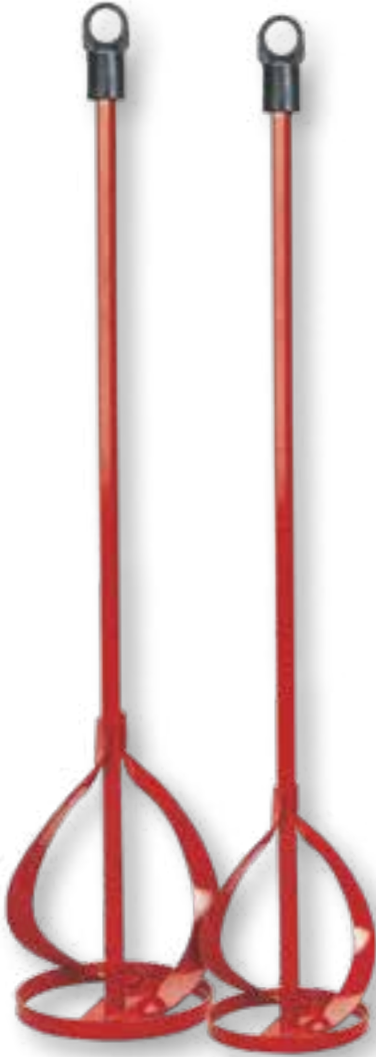
Using Paint Mixers

Place Paint Mixer in the container of material and gently work around the container edges till the material starts flowing towards the center of the blades

- Continue to gently work on the material till it is of desired consistency
- For coarse or stiff materials, reverse the direction of the drill and follow above steps. The mixer works best with a variable speed reversible drill machine with 400 - 600 watts minimum power. Recommended speed between 200-700 RPM depending upon the material being mixed

Important

- Do not use Paint Mixer with lacquer or other such inflammable liquids [with flashpoint under 32°C (70°F)]
- Insert mixer well into the material before turning on the drill.
- When mixing is complete, wait for the mixer to come to a halt before removing it from the container.



ORDERING INFORMATION

CAT. NR.	ORD NR.	DIA. OF MIXING WHEEL		LENGTH		FITS DRILL SIZE	
		(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)
★PMX/60	14620	2.3/8	60	16	400	3/8	9.5
PMX/80	14621	3.3/16	80	16	400	3/8	9.5

★ Best Seller

176 Scratch Awl

Awls are used for making small holes in narrow timber.

The alloy steel blade runs through the handle and is securely fastened to the plated steel ferrule and the cap. Hardwood handle is contoured for a comfortable grip

CAT NR.	ORD NR.	OVERALL LENGTH	
		(INCH)	(MM)
SA/818	03230	6-15/32	165



Double Face Mallet Kit

Multi-purpose striking tool useful for a variety of applications in industrial, automotive, light engineering & metalworking: for striking surfaces that could get damaged by steel hammers

Chrome plated screw head with 2 screw-in replaceable heads. Tubular steel handle shifts the weight balance towards the head for extra power in each blow

Available with a choice of heads:

- a. Plastic Head**
To lightly strike material without damaging or marring the surface. Used for piston cylinder assembly in engines, jewellery making etc.
- b. Rubber Head**
To deliver cushioned strike. Used in sheet metal & aluminium fabrication jobs, installation of wheel hub caps in automotive assembly & maintenance
- c. Brass Head**
Used in denting & painting shops, fitting jobs without causing any damage to the work surface
- d. Copper Head**
Provides a firm positive blow without any risk of marring the surface of highly finished expensive components



ORDERING INFORMATION

CAT NR.	ORD NR.	DESCRIPTION
KIT		
KIT/HMR/SF/4ST	34575	Mallet with Plastic & Rubber Head Fitted, Copper & Brass as Spares
SPARE HEADS		
HD/PR/HMR/25	32535	Red Plastic Head
HD/PB/HMR/25	32536	Black Rubber Head
HD/BR/HMR/25	32537	Brass Head
HD/CU/HMR/25	32538	Copper Head

APPLICATION

- Light Engineering Jobs
- Injection Moulding
- Light Metal Working
- Denting & Painting
- Assembly & Fitting in automotive workshops
- Assembly work when need to avoid damage to the surface of component & parts
- Jewellery Making

ALPHABETIC INDEX

A		
Adjustable Bevel		203
Adjustable Pipe Wrenches		119
Adjustable Wrenches		118
Aligning/ Cat Bars		44
Arch/ Hollow Punches		152
Automatic Centre Punches		150
Automotive Tool Kit - 65 Pcs		76
Automotive Tool Kit - 84 Pcs		74
B		
Bags	Back Pack	93
	Nylon Tool Bags	92
Ball Pein Hammers		131
Bar Clamps, Woodworking	Duo Bar	214
	Sash Bar	216
	T Bar	215
Bars	Cat/Aligning	44
	Handled Pry Bars	45
	Heavy Duty Construction	157
	Roll Head Pry	43
	Wrecking	157
Bench Planes, Woodworking		207
Bench Vices	Engineer's Steel	163
	Mechanic's	164
Bevel, Adjustable		203
Blades	Bi- Metal Hacksaw Blades	180
	Coping Saw Blades	182
	Fret Saw Blades	181
	Hacksaw Blades	179
	Mini Saw Blades	179
	Piercing Saw Blades	181
Bolster		156
Bottle Jacks		49
Box Spanners / Wrenches		104
Brass Calipers		201
Brass Hammer		221
Brick Bolsters		156
C		
Calipers	Brass	201
	Craftsman's, Dividers	198
	Craftsman's, Inside	198
	Craftsman's, Outside	198
	Divider	197
	Slide	201
	Spring, Inside	197
	Spring, Outside	197
	Vernier	200
Cantilever Toolbox	5 Tray Toolbox	90
	5 Tray Toolbox with tools	91
	Aluminium	87
	Mechanic's Tool Kit	88
Cat/ Aligning Bars		44
Centre Punch, Automatic		150
Centre Punches Heavy Duty		138
Centre Punches Round Head		139
Centre Square		204
Circlip Pliers		113
Clamps	Duo Bar	214
	G-Clamps	169
	G-Clamps Junior	169
	Sash Bar	216
	T Bar	215
Woodworking Quick Action		
Claw Hammers		132
Club Hammers		125
Cold Chisels		154
Combination Pliers, Insulated		108
Combination Spanners		98
Combination Spanners Deep Offset		101
Compass	Pencil	200
	Precision Pencil	199
	Wing	199
Concrete Nippers		111
Construction Bars: Heavy Duty		157
Coping Saw Blades		182
Coping Saw Frames		177
Cramp Head Set		215
Cross Pein Hammer		131
D		
Dies	Hex	190
	Round	188
Dies Stock Holders		192
Drift Punches		145
Drift Punches: Brass		146
Drill Press Vices Unigrip		166
Dual Drive Ratchet Handle		19
Duo Bar Clamps		214
E		
End Nippers		110
F		
Fencing Pliers		114
Fret Saw Blades		181
Fret Saw Frames		176
Front Cutters		111
G		
G Clamps - General Purpose		169
G-Clamps Junior		169
Gear Puller: Quick Change Ratcheting		48
Gear Pullers		47
Grommet Kit		222
H		
Hacksaw Blades		179
Hacksaw Blades- Bi-metal		180
Hacksaw Frames	Coping	177
	Fret Saw	176
	Handyman's	171
	Junior	174
	Junior : Baby Bite	175
	Piercing	178
	Professional	172
	Super Cut Hi Tension	173
Hammers: Indestructible Handle	Ball Pein	131
	Brass Head Sledge	129
	Claw	132
	Club	125
	Copper Head Sledge	128
	Cross Pein	131
	Hammer Kit	134
	Hammer Merchandiser	135
	Machinist's Hammer	130
	Sledge	126
	Sledge DIN 6475	127
	Tyre Bead	133

Hand Socket Accessories		14
Hand Socket Sets		21
Hand Sockets		7
Hand Taps		186
Hand Vices		167
Hex Shank Screwdrivers		54
Hexagon Key Sets		51
Hexagonal Dies		190
Hinge Centering Punch		148
Hobbyist Vices		168
Hollow & Arch Punches		152
Hydraulic Bottle Jacks		49
I		
Impact Sockets		26
Impact Socket Sets		28
3/8" Impact Wrench Standard		33
3/8" Impact Wrench Pro + Series		34
1/2" Impact Wrench Standard		35
1/2" Impact Wrench Pro Series		36
1/2" Impact Wrench Pro + Series		37
3/4" Impact Wrench Standard		38
1" Impact Wrench Standard		39
Insta Drive Screwdriver		55
J		
Jacks, Bottle		49
Junior Saw Frames		174
Junior Saw Frame Baby Bite		175
K		
Knife	Retra	120
	Retractable Utility	121
L		
Letter Punches, Steel		151
Locking Plier		117
Long Nose Pliers, Insulated		108
M		
Machinist Hammer		130
Measuring Tape		196
Measuring Wheel		195
Mini Saw Blades		179
N		
Nail Punches		149
Nippers	End	110
	Concrete	111
	Front Cutter	111
Number Punches, Steel		151
Nylon Tool Bags		92
O		
Oil Filter Wrench		46
Open End Spanners		96
P		
Paint Mixer		223
Pear Head Ratchet Handle		19
Piercing Saw Blades		181
Piercing Saw Frames		178
Pin Punches : Round Shank		142
Pin Punches Heavy Duty		140
Pin Punches: Brass		141
Pipe Wrenches, Adjustable		119
Piston Ring Compressor		46
Planes	Bench	207
	Duplex Rabbet & Fillister Plane	208
Pliers	Circlip	113
	Combination (Insulated)	108
	Concrete Nippers	111
	End Nippers	110

	Fencing Pliers	114
	Front Cutters	111
	Long Nose (Insulated)	108
	MIG Welding Pliers	115
	Plier Sets (Insulated)	108
	Revolving Punch	110
	Self Locking Pliers	117
	Side Cutting (Insulated)	108
	Slip Joint	112
	Water Pump Pliers	116
	Wheel Balancing	112
Prick Punches		148
Pry Bars: Handled		45
Pry Bars: Roll Head		43
Pullers	Gear	47
	Quick Change Ratcheting	48
Punch & Chisel Kits		158
Punches	Automatic Centre Punches	150
	Brass Drift Punches	146
	Brass Pin Punches	141
	Centre Punches Heavy Duty	138
	Centre Punches Round Head	139
	Drift Punches	145
	Hinge Centering Punch	148
	Hollow/ Arch Punches	152
	Letter & Number Punches	151
	Nail Punches	149
	Pin Punches Heavy Duty	140
	Pin Punches Round Shank	142
	Prick Punches	148
	Roll Pin Punches	147
	Starting Punches	144
Push Through Ratchet Handle		18
R		
1/2" Ratchet Wrench Standard		41
3/8" Ratchet Wrench Standard		41
Ratchet Handle	360° Swivelling Gear	20
	Dual Drive	19
	Pear Head	19
	Push Through	18
	Round Head	18
	Slim Line	17
Ratcheting Gear Pullers		48
Retra Drive Screw Driver		56
Retra Lite		59
Reversible Ratcheting Spanners		95
Reversible Vice		167
Revolving Punch Plier		110
Ring Spanners		97
Riveters	2 Jaw Hand Riveter	218
	2 Jaw Lazy tong	220
	Nut Riveter Kit	219
Roll Pin Punches		147
Round Dies		188
Round Head Ratchet Handle		18
S		
Sash Bar Clamps		216
Scratch Awl		224
Screw Extractor Set		46
Screwdriver	Hex Shank	54
	Insta Drive	55
	Retra Lite	59
	Retra Drive	56

Self Locking Pliers		117
Side Cutting Pliers, Insulated		108
Sledge Hammer	Brass Head	129
	Copper Head	128
	DIN 6475	127
	Sledge Hammer	126
Slide Calipers		201
Slim Line Ratchet Handle		17
Slip Joint Pliers		112
Slogging Wrenches		103
Slogging Wrenches: Premium		102
Sockets	Accessories	14
	Hand	7
	Impact Socket Sets	28
	Impact Sockets	26
	Sets	21
Spanners	Box	104
	Combination Spanners	98
	Deep Offset Combination Spanners	101
	Double Open End	96
	Reversible Ratcheting	95
	Ring Spanners	97
Stainless Steel Pocket Ruler		205
Starting Punches		144
Starting Punches		144
Steel Rules		204
Steel Squares	Centre	204
	Graduated	203
	Precision	202
Steel Stamps		151
Swivelling Gear 360° Ratchet Handle		20
T		
T Bar Clamps		215
Tap & Die Sets		193
Tap Wrenches	Adjustable Tap & Reamer Wrenches - Bar type	184
	T Handle type	185
Tape Measure		196
Taps - Hand		186
Tool Storage	154 Piece Universal Tool Kit	72
	5 Tray Cantilever Toolbox	90
	5 Tray Cantilever Toolbox with tools	91
	65 Piece Automotive Tool Kit	76
	84 Piece Automotive Tool Kit	74
	Aluminium Tool Box	87
	Back Pack	93
	Mechanic's Tool Kit	88
	Nylon Tool Bags	92
	Portable Workstations	68
	Tool Assortments	77
	Tool Cart	70
	Tool Chest	71
Torque Multiplier		66
Torque Wrenches	Aluminium	63
	Classic	62
	Digital	64
	Professional Ratcheting	61
Tyre Bead Breaker Hammer		133
Tyre Levers		43

V		
Vernier Calipers		200
Vices	Engineer's Steel Bench Vices	163
	Drill Press Vices - Unigrip	166
	Hand Vices	167
	Hobbyist's Vices	168
	Mechanic's Vices	164
	Reversible Vice	167
	Woodworking Front	208
	Woodworking Plain Screw	209
	Woodworking PORTABLE	210
	Woodworking Quick Release	211
	Woodworking Rapid Action	212
W		
Water Pump Pliers		116
Welding Pliers		115
Wheel Balancing Pliers		112
Wheel Wrench: Telescopic Handle		106
Wheel Wrenches		105
Wing Compass		199
Woodworking Bench Planes		207
Woodworking Quick Action Clamps		213
Woodworking Vices	Front Vice	208
	Plain Screw	209
	Portable	210
	Quick Release	211
	Rapid Action	212
Workstations	154 Piece Universal Tool Kit	72
	65 Piece Automotive Tool Kit	76
	84 Piece Automotive Tool Kit	74
	Portable Workstation	68
	Tool Cart	70
	Tool Chest	71
Wrecking Bars		157
Wrenches	3/8" Impact Wrench Standard	33
	3/8" Impact Wrench Pro + Series	34
	3/8" Ratchet Wrench Standard	41
	1/2" Impact Wrench Standard	35
	1/2" Impact Wrench Pro Series	36
	1/2" Impact Wrench Pro + Series	37
	1/2" Ratchet Wrench Standard	41
	3/4" Impact Wrench Standard	38
	1" Impact Wrench Standard	39
	Adjustable	118
	Adjustable Pipe	119
	Box Wrenches	104
	Slogging	103
	Slogging : Premium	102
	Telescopic Wheel Wrench	106
	Torque	61-65
	Wheel Wrenches: Double Ended	105

NUMERICAL INDEX

ORD. NR.	PAGE NR.	ORD. NR.	PAGE NR.	ORD. NR.	PAGE NR.	ORD. NR.	PAGE NR.	ORD. NR.	PAGE NR.	ORD. NR.	PAGE NR.	ORD. NR.	PAGE NR.
00506	135	01435	197	01818	197	09420	186	09802	186	10201	188	10509	191
00509	61	01440	197	01819	197	09421	186	09803	186	10202	188	10510	191
00512	135	01441	197	01826	197	09422	186	09804	186	10203	188	10511	191
01000	202	01442	197	01827	197	09423	186	09805	186	10204	188	10512	191
01001	202	01443	197	01828	197	09424	186	09806	186	10205	188	10514	191
01002	202	01444	197	01829	197	09425	186	09807	186	10206	188	10516	191
01003	202	01445	197	03230	224	09500	187	09808	186	10207	188	10518	191
01004	202	01450	197	03521	204	09501	187	09809	186	10208	188	10519	191
01005	202	01451	197	03522	204	09502	187	09810	186	10209	188	10520	191
01006	202	01452	197	09100	192	09503	187	09811	186	10210	188	10522	191
01007	202	01453	197	09101	192	09504	187	09812	186	10211	188	10524	191
01011	202	01454	197	09102	192	09505	187	09813	186	10212	188	10527	191
01012	202	01455	197	09103	192	09506	187	09814	186	10213	188	10530	191
01142	203	01460	198	09104	192	09507	187	09815	186	10214	188	10533	191
01143	203	01461	198	09110	192	09508	187	09816	186	10215	188	10600	190
01152	203	01462	198	09111	192	09509	187	09817	186	10216	188	10601	190
01153	203	01463	198	09112	192	09510	187	09818	186	10217	188	10602	190
01300	201	01464	198	09113	192	09511	187	09819	186	10218	188	10603	190
01301	201	01465	198	09114	192	09602	187	09820	186	10219	188	10604	190
01304	201	01470	198	09116	192	09603	187	09821	186	10220	188	10605	190
01310	200	01471	198	09117	192	09604	187	09900	187	10221	188	10606	190
01320	201	01472	198	09118	192	09605	187	09901	187	10222	188	10607	190
01321	201	01473	198	09119	192	09606	187	09902	187	10223	188	10608	190
01330	204	01474	198	09210	184	09607	187	09903	187	10224	188	10609	190
01331	204	01475	198	09211	184	09608	187	09904	187	10225	188	10610	190
01332	204	01480	198	09212	184	09609	187	09905	187	10226	188	10611	190
01333	204	01481	198	09213	184	09610	187	09906	187	10402	189	10612	190
01334	204	01482	198	09220	184	09611	187	09907	187	10403	189	10613	190
01335	204	01483	198	09221	184	09612	187	09908	187	10404	189	10614	190
01337	205	01484	198	09222	184	09614	187	09909	187	10405	189	10615	190
01340	204	01485	198	09223	184	09616	187	09910	187	10406	189	10616	190
01341	204	01492	198	09224	184	09618	187	09911	187	10407	189	10617	190
01342	204	01493	198	09225	184	09620	187	09912	187	10408	189	10618	190
01343	204	01545	199	09300	185	09622	187	09913	187	10409	189	10619	190
01344	204	01550	199	09301	185	09624	187	09914	187	10410	189	10620	190
01345	204	01551	199	09302	185	09627	187	09915	187	10411	189	10621	190
01360	195	01554	199	09303	185	09630	187	09916	187	10412	189	10700	191
01361	195	01560	198	09304	185	09633	187	09917	187	10413	189	10701	191
01400	197	01561	198	09322	185	09636	187	09918	187	10414	189	10702	191
01401	197	01562	198	09323	185	09639	187	09919	187	10416	189	10703	191
01402	197	01563	198	09355	46	09642	187	10000	193	10418	189	10704	191
01403	197	01564	198	09400	186	09645	187	10014	193	10420	189	10705	191
01404	197	01565	198	09401	186	09648	187	10015	193	10422	189	10706	191
01405	197	01570	198	09402	186	09652	187	10100	187	10424	189	10707	191
01410	197	01571	198	09403	186	09660	187	10101	187	10427	189	10708	191
01411	197	01572	198	09404	186	09661	187	10102	187	10430	189	10709	191
01412	197	01573	198	09405	186	09662	187	10103	187	10440	189	10710	191
01413	197	01574	198	09406	186	09663	187	10104	187	10441	189	10800	190
01414	197	01575	198	09407	186	09664	187	10105	187	10442	189	10802	190
01415	197	01580	198	09408	186	09665	187	10106	187	10443	189	10803	190
01420	197	01581	198	09409	186	09666	187	10107	187	10444	189	10804	190
01421	197	01582	198	09410	186	09667	187	10108	187	10445	189	10805	190
01422	197	01583	198	09411	186	09668	187	10109	187	10446	189	10806	190
01423	197	01584	198	09412	186	09669	187	10110	187	10447	189	10807	190
01424	197	01585	198	09413	186	09670	187	10111	187	10448	189	10808	190
01425	197	01806	197	09414	186	09671	187	10112	187	10503	191	10809	190
01430	197	01807	197	09415	186	09672	187	10113	187	10504	191	10810	190
01431	197	01808	197	09416	186	09673	187	10114	187	10505	191	10811	190
01432	197	01809	197	09417	186	09674	187	10115	187	10506	191	10812	190
01433	197	01816	197	09418	186	09800	186	10116	187	10507	191	10813	190
01434	197	01817	197	09419	186	09801	186	10117	187	10508	191	10814	190

ORD. NR.	PAGE NR.	ORD. NR.	PAGE NR.	ORD. NR.	PAGE NR.	ORD. NR.	PAGE NR.	ORD. NR.	PAGE NR.	ORD. NR.	PAGE NR.	ORD. NR.	PAGE NR.
10815	190	15008	189	25451	148	25701	144	26133	151	26362	153	30120	174
10816	190	15009	189	25452	148	25702	144	26134	151	26363	153	30130	174
10817	190	15010	189	25500	143	25703	144	26135	151	26365	153	30131	174
10818	190	15011	189	25501	143	25704	144	26136	151	26367	153	30200	178
10819	190	15012	189	25502	143	25705	144	26137	151	26368	153	30201	178
10820	190	15013	189	25503	143	25706	144	26138	151	26370	153	30220	177
10821	190	15014	189	25504	143	25707	144	26302	152	26371	152	30221	177
10822	190	15015	189	25505	143	25708	144	26303	152	26372	152	30222	176
10823	190	15016	189	25506	143	25709	144	26304	152	26390	153	30223	176
10900	191	15017	189	25507	143	25720	144	26305	152	26391	153	30303	179
10901	191	15018	189	25508	143	25800	145	26306	152	26392	153	30314	182
10902	191	15019	189	25509	143	25801	145	26307	152	26395	153	30324	179
10903	191	15020	189	25540	143	25802	145	26308	152	26396	153	30325	179
10904	191	15021	189	25541	143	25803	145	26309	152	26397	153	30326	179
10905	191	15022	189	25542	143	25804	145	26310	152	26400	152	30327	179
10906	191	15023	189	25543	143	25805	145	26311	152	26401	152	30342	181
10908	191	15024	189	25544	143	25806	145	26312	152	26402	152	30343	181
10909	191	15025	189	25545	143	25807	145	26313	152	26403	152	30344	181
10910	191	15200	189	25546	143	25808	145	26314	152	26404	152	30345	181
10911	191	15201	189	25547	143	25809	145	26315	152	26405	152	30346	181
10912	191	15202	189	25548	143	25820	145	26316	152	26406	152	30347	181
10913	191	15203	189	25549	143	25821	145	26317	152	26407	152	30348	181
10914	191	15204	189	25550	143	25822	145	26318	152	26408	152	30349	181
10915	191	15205	189	25560	142	25823	145	26319	152	26409	152	30357	181
10916	191	15206	189	25561	142	25824	145	26320	152	26410	152	30358	181
10917	191	15207	189	25562	142	25840	146	26321	152	26411	152	30359	181
10918	191	15208	189	25563	142	25841	146	26322	152	26412	152	30360	181
10919	191	25000	150	25564	142	25842	146	26323	152	26413	152	30361	181
11035	200	25004	148	25565	142	25843	146	26324	152	26440	153	30362	181
11036	200	25005	150	25566	142	25844	146	26325	152	26441	153	30363	181
11037	200	25012	150	25567	142	25850	146	26326	152	26442	153	30380	181
11038	200	25013	150	25568	142	25900	151	26327	152	26600	222	30460	180
14620	223	25100	139	25569	142	25901	151	26328	152	26601	222	30461	180
14621	223	25101	139	25580	142	25902	151	26329	152	26602	222	30462	180
14800	191	25102	139	25600	140	25903	151	26330	152	26650	222	30463	180
14801	191	25103	139	25601	140	25904	151	26331	152	26651	222	30480	180
14802	191	25104	139	25602	140	25905	151	26332	152	26652	222	30481	180
14803	191	25105	139	25603	140	25906	151	26333	152	26752	141	30482	180
14804	191	25106	139	25604	140	25907	151	26334	152	26754	141	30483	180
14805	191	25107	139	25605	140	25908	151	26335	152	26755	141	31530	109
14806	191	25108	139	25606	140	25930	151	26336	152	26756	141	31531	109
14807	191	25109	139	25607	140	25931	151	26337	152	26757	141	31532	109
14808	191	25110	139	25608	140	25932	151	26338	153	26758	141	31540	109
14809	191	25111	139	25609	140	25933	151	26339	153	26760	141	31541	109
14810	191	25120	139	25610	140	25934	151	26340	153	26761	141	31542	109
14811	191	25200	138	25611	140	25935	151	26341	153	26762	141	31550	109
14812	191	25201	138	25612	140	25936	151	26342	153	26763	141	31551	109
14813	191	25202	138	25640	147	25937	151	26343	153	26764	141	31563	113
14814	191	25203	138	25641	147	25938	151	26344	153	26765	141	31564	113
14815	191	25204	138	25642	147	26100	151	26345	153	26766	141	31565	113
14816	191	25205	138	25643	147	26101	151	26346	153	26767	141	31566	113
14817	191	25206	138	25644	147	26102	151	26347	153	26768	141	31570	109
14818	191	25207	138	25645	147	26103	151	26348	153	26769	141	31571	109
15000	189	25360	149	25646	147	26104	151	26349	153	26770	141	31580	113
15001	189	25361	149	25650	140	26105	151	26350	153	30000	172	31581	113
15002	189	25362	149	25651	140	26106	151	26352	153	30001	172	31582	113
15003	189	25363	149	25652	140	26107	151	26354	153	30010	171	31583	113
15004	189	25364	149	25653	140	26108	151	26355	153	30041	173	31600	110
15005	189	25365	149	25654	140	26130	151	26357	153	30100	175	31612	114
15006	189	25365	149	25655	140	26131	151	26358	153	30101	175	31630	117
15007	189	25450	148	25700	144	26132	151	26360	153	30105	175	31631	117

ORD. NR.	PAGE NR.	ORD. NR.	PAGE NR.	ORD. NR.	PAGE NR.	ORD. NR.	PAGE NR.	ORD. NR.	PAGE NR.	ORD. NR.	PAGE NR.	ORD. NR.	PAGE NR.
31642	112	31843	102	32204	104	32845	155	33730	54	34053	100	34175	101
31643	112	31844	102	32205	104	32846	155	33731	54	34054	100	34176	101
31644	112	31845	102	32208	104	33000	160	33732	54	34055	100	34177	101
31653	218	31846	102	32305	110	33001	159	33733	54	34056	100	34178	101
31654	219	31850	103	32306	110	33002	160	33734	54	34057	100	34179	101
31655	220	31851	103	32340	111	33003	158	33735	54	34058	100	34184	101
31660	115	31852	103	32341	111	33004	159	33736	54	34059	100	34185	101
31665	112	31853	103	32342	111	33005	161	33737	54	34060	100	34186	101
31740	116	31854	103	32350	111	33006	161	33738	54	34061	100	34242	96
31741	116	31855	103	32351	111	33100	157	33739	54	34062	100	34243	96
31742	116	31856	103	32490	221	33101	157	33745	54	34063	100	34250	96
31743	116	31857	103	32491	221	33102	157	33750	59	34064	100	34251	96
31750	118	31858	103	32492	221	33103	157	33781	55	34065	100	34252	96
31751	118	31859	103	32493	221	33104	157	33802	95	34066	100	34253	96
31752	118	31860	103	32494	221	33105	157	33804	95	34067	100	34254	96
31753	118	31861	103	32601	156	33106	157	33806	95	34068	100	34255	96
31754	118	31862	103	32602	156	33107	157	33807	95	34069	100	34256	96
31755	118	31863	103	32621	156	33108	157	33808	95	34070	100	34257	96
31760	119	31864	103	32622	156	33120	45	33811	95	34071	100	34258	96
31761	119	31865	103	32642	156	33121	45	33813	95	34072	100	34259	96
31762	119	31866	103	32643	156	33122	45	33850	95	34073	100	34260	96
31763	119	31867	103	32650	155	33123	45	34000	99	34074	100	34261	96
31764	119	31868	103	32651	155	33124	45	34001	99	34075	100	34262	96
31800	103	31869	103	32652	155	33125	45	34002	99	34076	100	34263	96
31801	103	31870	103	32653	155	33130	45	34003	99	34077	100	34264	96
31802	103	31871	103	32654	155	33131	45	34004	99	34078	100	34265	96
31803	103	31872	103	32661	155	33132	45	34005	99	34079	100	34266	96
31804	103	31873	103	32662	155	33133	45	34006	99	34080	100	34267	96
31805	103	31874	103	32800	154	33140	157	34007	99	34081	100	34268	96
31806	103	31875	103	32801	154	33141	157	34008	99	34082	100	34269	96
31807	103	31900	105	32802	154	33150	43	34009	99	34083	100	34270	96
31808	103	31901	105	32803	154	33151	43	34010	99	34084	100	34342	97
31809	103	31902	105	32804	154	33152	43	34011	99	34085	100	34343	97
31810	103	31903	105	32805	154	33153	43	34012	99	34086	100	34350	97
31811	103	31904	105	32806	154	33154	43	34013	99	34092	100	34351	97
31812	103	31905	105	32807	155	33155	43	34014	99	34093	100	34352	97
31813	103	31906	105	32810	154	33169	44	34015	99	34094	100	34353	97
31814	103	31907	105	32811	154	33170	44	34016	99	34095	100	34354	97
31815	103	31908	105	32812	154	33171	44	34017	99	34147	101	34355	97
31816	103	31909	105	32813	154	33172	44	34018	99	34149	101	34356	97
31817	103	31930	105	32814	155	33173	44	34019	99	34150	101	34357	97
31818	103	31931	105	32815	154	33175	44	34020	99	34151	101	34358	97
31819	103	31932	105	32816	155	33176	44	34021	99	34152	101	34359	97
31820	103	31933	105	32817	154	33177	44	34022	99	34153	101	34360	97
31821	103	31934	105	32818	154	33180	43	34023	99	34154	101	34361	97
31822	103	31935	105	32819	154	33181	43	34024	99	34155	101	34362	97
31823	103	31940	105	32820	154	33182	43	34025	99	34156	101	34363	97
31824	103	31941	105	32821	154	33510	92	34026	99	34157	101	34364	97
31825	103	31950	106	32823	155	33511	92	34027	99	34158	101	34365	97
31827	102	32000	104	32824	155	33512	92	34028	99	34159	101	34366	97
31828	102	32001	104	32825	154	33513	93	34029	99	34160	101	34367	97
31829	102	32002	104	32826	154	33710	56	34030	99	34161	101	34500	125
31830	102	32003	104	32827	154	33711	58	34031	99	34162	101	34501	125
31831	102	32004	104	32828	154	33711	56	34032	99	34163	101	34502	125
31832	102	32005	104	32829	154	33711	57	34033	99	34164	101	34505	125
31833	102	32006	104	32830	155	33712	56	34040	99	34165	101	34510	126
31834	102	32007	104	32831	154	33712	58	34041	99	34166	101	34511	126
31835	102	32008	104	32832	154	33713	56	34045	100	34167	101	34512	126
31836	102	32009	104	32833	155	33713	57	34046	100	34168	101	34513	126
31837	102	32010	104	32834	155	33714	56	34047	100	34169	101	34514	126
31838	102	32013	104	32840	155	33714	57	34048	100	34170	101	34515	126
31839	102	32019	104	32841	155	33715	56	34049	100	34171	101	34516	126
31840	102	32200	104	32842	155	33715	58	34050	100	34172	101	34517	126
31841	102	32201	104	32843	155	33716	56	34051	100	34173	101	34518	126
31842	102	32203	104	32844	155	33716	57	34052	100	34174	101	34519	126

ORD. NR.	PAGE NR.	ORD. NR.	PAGE NR.	ORD. NR.	PAGE NR.	ORD. NR.	PAGE NR.	ORD. NR.	PAGE NR.	ORD. NR.	PAGE NR.	ORD. NR.	PAGE NR.
34520	126	35461	163	38801	65	39151	215	39986	27	40390	23	40591	21
34521	126	35462	163	38802	65	39152	215	39987	27	40392	24	40600	8
34522	126	35471	165	38803	65	39180	213	39990	28	40393	24	40601	8
34523	126	35472	165	38804	65	39181	213	39991	28	40394	23	40602	8
34524	126	35473	165	38810	65	39182	213	39993	28	40395	24	40603	8
34530	131	35474	165	38811	65	39183	213	39994	28	40396	24	40604	8
34531	131	35481	165	38812	65	39184	213	39995	28	40397	23	40605	8
34535	132	35482	165	38813	65	39190	213	40001	68	40398	23	40606	8
34538	131	35483	165	38814	65	39400	203	40002	90	40400	14	40607	8
34539	131	35484	165	38820	65	39700	207	40003	90	40401	14	40608	8
34540	131	35500	167	38821	65	39701	207	40004	87	40402	14	40609	8
34541	131	35501	167	38822	65	39702	207	40005	68	40403	15	40610	8
34542	131	35502	167	38823	65	39703	207	40006	71	40404	15	40611	8
34550	125	35510	168	38824	65	39704	207	40009	70	40405	14	40612	8
34551	125	35511	168	38850	64	39705	207	40053	91	40406	15	40620	8
34560	126	35512	168	38851	64	39706	207	40056	89	40407	18	40621	8
34561	126	35513	168	38852	64	39707	207	40057	73	40415	12	40622	8
34562	126	35514	168	38853	64	39730	208	40058	89	40417	12	40623	8
34563	126	35515	168	38905	61	39930	26	40059	76	40420	12	40624	8
34565	126	35516	168	38906	61	39931	26	40060	75	40423	12	40625	8
34575	134	35517	168	38910	61	39932	26	40101	16	40425	12	40626	8
34576	134	35518	168	38911	61	39933	26	40102	14	40429	12	40627	8
34600	128	35519	168	38912	61	39934	26	40103	14	40430	12	40628	8
34602	128	35520	168	38922	61	39935	26	40104	15	40432	12	40660	8
34603	128	35521	168	38926	61	39936	26	40105	16	40435	12	40661	8
34604	128	35522	168	38930	62	39937	26	40106	14	40437	12	40662	8
34610	128	35523	168	38931	62	39938	26	40107	17	40455	12	40663	8
34611	128	35524	168	38932	62	39939	26	40108	15	40457	12	40664	8
34700	129	35525	168	38933	62	39940	26	40109	14	40460	12	40665	8
34701	129	35526	168	38934	62	39941	26	40190	22	40463	12	40666	8
34702	129	35530	167	38935	62	39942	26	40191	24	40465	12	40667	8
34703	129	35730	169	38936	62	39943	26	40192	24	40469	12	40668	8
34710	130	35732	169	38940	63	39950	27	40193	22	40470	12	40669	8
34711	130	35733	169	38941	63	39952	27	40200	17	40472	12	40670	8
34712	130	35734	169	38995	66	39953	27	40201	14	40475	12	40671	8
34713	130	35735	169	38996	66	39954	27	40202	14	40477	12	40672	8
34720	127	35800	169	39000	209	39955	27	40203	15	40490	21	40673	8
34721	127	35801	169	39001	209	39956	27	40204	15	40491	21	40674	8
34750	133	35802	169	39002	209	39957	27	40205	15	40500	14	40675	8
34751	133	35803	169	39004	209	39958	27	40206	14	40501	14	40676	8
35120	166	35804	169	39005	209	39959	27	40207	14	40502	14	40677	8
35121	166	35805	169	39006	210	39960	27	40290	24	40503	19	40678	8
35122	166	35807	169	39007	211	39961	27	40291	24	40504	15	40679	8
35125	166	36020	47	39009	211	39962	27	40292	24	40505	14	40680	8
35400	164	36021	47	39011	212	39963	27	40293	24	40551	13	40681	8
35401	164	36022	47	39012	212	39964	27	40301	15	40553	13	40682	8
35402	164	36023	47	39014	211	39965	27	40302	14	40554	13	40683	8
35403	164	36030	47	39020	208	39966	27	40303	14	40555	13	40700	9
35404	164	36031	47	39100	215	39967	27	40304	16	40557	13	40701	9
35405	164	36032	47	39101	215	39970	27	40305	14	40559	13	40702	9
35406	164	36033	47	39102	215	39971	27	40306	15	40561	13	40703	9
35407	164	36040	48	39103	215	39972	27	40307	15	40563	13	40704	9
35408	164	36041	48	39110	216	39973	27	40308	15	40565	13	40705	9
35409	164	36042	48	39111	216	39974	27	40310	17	40567	13	40706	9
35420	164	36101	51	39112	216	39975	27	40311	19	40571	13	40707	9
35421	164	36102	52	39113	216	39976	27	40312	18	40573	13	40708	9
35422	164	36103	51	39114	216	39977	27	40313	19	40574	13	40709	9
35423	164	36104	51	39115	216	39978	27	40314	19	40575	13	40710	9
35424	164	36110	52	39120	215	39979	27	40316	14	40577	13	40711	9
35450	163	36111	52	39130	214	39980	27	40320	20	40579	13	40712	9
35451	163	36112	53	39131	214	39981	27	40321	20	40581	13	40713	9
35452	163	36120	53	39132	214	39982	27	40322	20	40583	13	40714	9
35458	163	36121	53	39133	214	39983	27	40380	25	40585	13	40715	9
35459	163	36130	53	39134	214	39984	27	40381	25	40587	13	40716	9
35460	163	38800	65	39135	214	39985	27	40382	25	40590	21	40750	

ORD. NR.	PAGE NR.	ORD. NR.	PAGE NR.	ORD. NR.	PAGE NR.
40751	9	40849	10	62519	78
40752	9	40880	15	62521	84
40753	9	40881	15	62522	84
40754	9	40882	10	62523	84
40755	9	40883	10	62524	84
40756	9	40900	11	62525	81
40757	9	40901	11	62526	85
40758	9	40902	11	62527	85
40759	9	40903	11	62528	85
40760	9	40904	11	62529	85
40761	9	40905	11	62530	85
40762	9	40906	11	62531	86
40763	9	40907	11	62532	86
40764	9	40908	11	62533	86
40765	9	40909	11	62534	81
40766	9	40910	11	62535	79
40800	10	40911	11	62536	81
40801	10	40912	11	62537	79
40802	10	40913	11	62538	81
40803	10	40914	11	62539	82
40804	10	40915	11	62540	79
40805	10	40916	11	62541	79
40806	10	40917	11	62542	79
40807	10	40918	11		
40808	10	40919	11		
40809	10	40922	11		
40810	10	61500	120		
40811	10	61501	121		
40812	10	61510	120		
40813	10	61511	121		
40814	10	61710	49		
40815	10	61711	49		
40816	10	61714	49		
40817	10	61715	49		
40818	10	61716	49		
40819	10	61717	49		
40820	10	61910	33		
40821	10	61911	34		
40822	10	61920	35		
40823	10	61921	36		
40824	10	61922	37		
40825	10	61930	38		
40826	10	61940	39		
40827	10	61965	40		
40828	10	61970	41		
40829	10	62000	46		
40830	10	62001	196		
40831	10	62010	46		
40832	10	62011	46		
40833	10	62012	46		
40834	10	62501	80		
40835	10	62502	82		
40836	10	62503	82		
40837	10	62504	83		
40838	10	62506	83		
40839	10	62508	83		
40840	10	62509	80		
40841	10	62511	78		
40842	10	62512	83		
40843	10	62513	78		
40844	10	62514	80		
40845	10	62515	78		
40846	10	62516	80		
40847	10	62517	83		
40848	10	62518	84		

INDUSTRIES WE SERVE

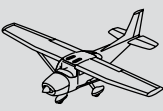
AGRICULTURE



AUTOMOTIVE



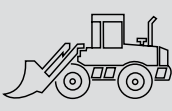
AVIATION



CHEMICAL



CONSTRUCTION



CEMENT



DIY



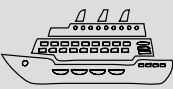
ELECTRICAL



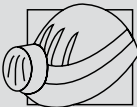
INDUSTRIAL



MARINE



MINING



OIL & GAS



PLUMBING



RAILWAY



STEEL



WELDING



WOODWORKING



WORKSHOP



TERMS & CONDITIONS

Technical Data: All drawings, weights, dimensions, the descriptions & illustrations contained in the company's catalogues are only approximate and intended merely to give a general description of the goods described therein.

Specifications: Whilst every effort has been made to ensure accuracy of information given in this catalogue at the time of going to print, Feb 2018, our policy of continuous improvement determines the right to change specifications without notice. Customers must ensure that goods are suitable for the purpose intended.

Delay in Delivery: Delay in completion of work, delivery or in case of a contract for delivery by installments, delay in delivery of an installment shall not give rise to any liability upon the company whether or not any time of date is given in this respect and shall not entitle the customer to terminate the contract.

Liability: All goods are guaranteed to do the work for which they are designed. If the goods or any part thereof are defective solely as a result of faulty materials or workmanship of the company, the company's liability shall be limited, at it's discretion either to replacing such goods or the defective parts. But no such liability shall arise unless notification of any defect is received by the company in writing within 90 days from the receipt of goods by the buyer and the allegedly defective goods are thereafter returned to the company carriage paid with appropriate pre-notification.

Indemnity: The customer shall indemnify the company against all claims in respect of any loss, injury or damage sustained by a third party arising from the sales of the goods to the buyer how so ever caused and also against all actions, proceedings, costs, claims, demands and expenses made, brought or claimed against the company in respect of the infringement of any patent, trademark or registered design.



**Groz Engineering Tools (P) Ltd.
Groz Net Industries**

Village Kherki Daula, National Highway-8
Gurugram -122001, Haryana, INDIA

TEL +91.124.282.7700 / 221.4050

FAX +91.124.2827986 / 221.4224

FAX (USA) +1.509.271.7848

FAX (UK) +44.870.121.1854

E-MAIL info@groz-tools.com

URL www.groz-tools.com