

# **BEST**T**OO**L®



## **Catalog**

**Workholding Tools  
Shop Supplies  
Machinery**

[www.chinabestools.com](http://www.chinabestools.com)

**Catalog No.901C**

Welcome to BESTOOL !

We will try to be best supplier from China in Measuring Tools, Cutting Tools, Machinery and Accessories evaluated by customers.

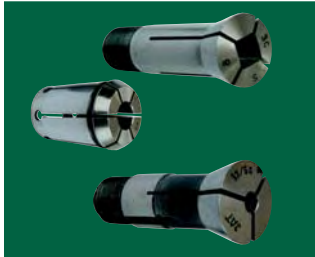
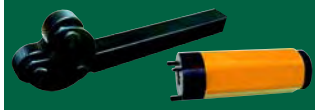
Why should you choose BESTOOL?

- |                  |   |
|------------------|---|
| <b>Quality:</b>  | Top quality, try to be error free                                   |
| <b>Delivery:</b> | Speed up our delivery and ship in time                              |
| <b>Cost:</b>     | Competitive prices with market                                      |
| <b>Service:</b>  | Quick response to any questions<br>and provide value added services |



# INDEX

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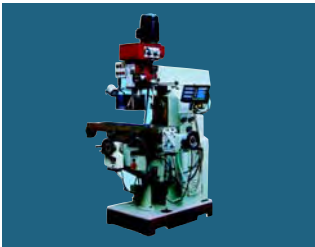


C1-C2	NC Tool Holder with shank to DIN69880
C3-C4	American Quick Change Tool Post and Holders
C5	KDK Style Quick Change Tool Posts & Holders
C5-C6	40-Position Quick Change Tool Posts & Holders
C6-C7	Italian Quick Change Tool Posts & Sets
C8	Knurling Tools
C8	Collet Stops
C8	Collet Wrenches
C9-C14	5C, R8, 3C, 3AT Collets
C14	Collet Stands
C15	TG Series Single Angle Collets
C16	DA Series Double Angle Collets
C17	EOC Collets
C18-C21	ER Collets, ER Collet Chucks & Sets
C22-C24	DIN 6343 Clamping Collets
C25	Tool Holder Bushings
C26-C28	End Mill Holders
C29-C39	CNC End Mill Holders
C39	Retention Knobs
C40-C41	Milling Machine Arbors
C41-C43	Adaptors, Sockets, Sleeves
C43	Reversing Type Tapping Heads
C44	Expanding Arbors, Mandrels
C45-C46	Boring Heads and Shank
C46-C47	Lathe Centers
C48-C49	Drill Chucks
C50	Drill Chuck Arbors
C50-C51	Collet Fixture
C51	End Mill and Drill Sharpener
C51	H&V Tool Locking Fixtures
C52	Punch Former
C53	Indexing Fixtures
C54-C55	Rotary Tables
C55	Milling & Drilling and Sliding Tables
C56-C57	Box Parallels and Angle Plates
C58	Magnetic Chucks
C59-C61	Lathe Chucks and Back Plates
C62-C68	Clamping Tools and Kits
C69-C70	Toggle Clamps
C71-C77	Vises
C78	Jacks and Stops
C79-C86	Deburring Tools
C86-C87	Steel Stamps
C87-C89	Punches
C90-C93	Pliers, Wrenches, Drivers and Sockets

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# INDEX

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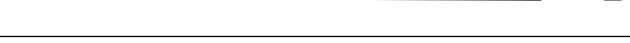










C94	Pin Vise, Doweling Jig, Hole Saw Arbors
C95	Screw Extractors, Hacksaw Blades & Magnetic Mirror & Pen
C96	Battery and Chargers
C97	Pneumatic Tools
C98	Spray Guns
C99	Manifolds
C100	Air Compressors
C101-C102	Magnifier Lamps
C102	Working Lights
C103	Spotlights
C104-C105	Roller and Ball Stands
C106-C110	Hand Pallet Trucks
C110-C111	Lift Tables
C112	Platform Trucks
C112	Toolholder Cart
C113	Carts, Tool Chest and Cabinets
C114	Manual Hoists
C115	Geared Trolleies and Beam Clamps
C116,C121	Pullers
C117	Hoists and Frame
C118-C121	Hydraulic Jacks
C122	Lifter and Carriers
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C123	Arbor Presses, Punches and Notchers
C124	Sheet Metal Cutter
C124-C125	Compact Benders
C125	Rolls
C126	Power Feed and Part Washers
C127-C128	Shears, Brakes and Slitters
C129-C130	Grinders
C130-C132	Sanders
C132	Log Splitters
C132-C135	Saws
C134-C135	Planner, Jointer and Wood Lathe
C135	Dust Collectors
C136	Dovetail Jigs
C137	Drill Presses
C138	Metal Cutting Saws
C139	Lathes
C140-C142	Milling & Drilling Machines
C143	Surface Grinder
C143	Shock Proof Machine Mounts

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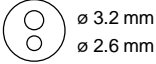
Specification	Applications										Materials								Blade	Picture	Order No.
	Straight Edge	Hole Edge	Cross-Hole Both Edge	Hole Back-Edge	Hole Inner Surface	Flat Surface	Slot Keyway	Inner Straight	Sheet	Steel	Aluminium	Copper	Brass	Cast Iron	Stainless Steel	Polyacetal & Poliam	Plastics				
The mostly used blade for inner and outer Deburring	●	●								■	■	■					●	B10		380-0012	
HSS blade for brass and cast iron, can be used on both directions	●	●											■	■			●	B20		380-0014	
HSS blade for deburring thin gauge materials inner and outer.			●							■	■	■					■	B30		380-0015	
Heavy-duty HSS. Deburrs materials with spiral chips	●	●								■	■	■					●	E100		380-0026	
HSS for materials with powdery chips. Rotates clockwise & counterclockwise	●	●											■	■			●	E200		380-0027	
HSS for materials with spiral chips. Simultaneously deburrs the inside and outside of holes up to 6mm/.24" thick			●							■	■	■					●	E300		380-0028	
HSS Blades for deburring holes as small as 7/64" Diameter	●	●														●	■	E101		380-0033	
HSS Blades for deburring small holes in brass and cast iron	●	●														■	■	E102		380-0032	
iron For straight edge on all materials	●	●											■	■			●	E350		380-0035	
Countersink for hole-edges with up to 12mm/0.47" Diameter, M7		●								■	■	■	●	●			●	C12		380-0045	
Countersink for hole-edges with up to 20mm/0.79" Diameter, M7		●								■	■	■	●	●			●	C20		380-0046	
Countersink for hole-edges with up to 30mm/1.18" Diameter, M7		●								■	■	■	●	●			●	C30		380-0049	
∅ .6x20mm, triangular HSS scraper for precision work, M5				●	●	●				■	■	■	●	●			■	D20		380-0070	
∅ 4.0x25mm, triangular HSS scraper for precision work, M5				●	●	●				■	■	■	●	●			■	D25		380-0071	
∅ 5.6x30mm, triangular HSS scraper for precision work, M5				●	●	●				■	■	■	●	●			■	D30		380-0072	
∅ 6.5x33mm, triangular HSS scraper for precision work, M5				●	●	●				■	■	■	●	●			■	D40		380-0073	
∅ 3.2x50mm, D1 Bladeholder with UN handle				●	●	●				■	■	■	●	●			■	D50		380-0047	
∅ 3.2x48mm, D1 Bladeholder with UN handle			●	●						■	■	■	●	●			■	D66		380-0075	
For sheet metal. Range 1-8 mm. Hand-Guard available upon request.								●		■	●	●	●	●			■	L3		380-0076	
Used for deburring small ridges in difficult to reach places. Range of 0-2.5 mm.	●							●		■	●	●	●	●			■	L4		380-0077	
To relieve corners of narrow slots from 3.5 mm. Double ended blade L7 for cutting in two directions also available.							●	●		■	■	■	●	●			■	L5		380-0078	
Effective corner relief. Wide range of applications.							●	●		■	■	■	●	●			■	L6		380-0079	
Double-edged, round HSS blade for massive deburring tasks on materials with spiral chips.	●							●		■	■	■	■	■			■	N80		380-0061	
Standard blade for keyways							●			■	■	■		■			●	N80K		380-0062	

■ Excellent ● Good

















Specification	Holder	Picture	Order No.
Holds all B blades, M5 thread	Holder B		380-0011
Holds D20,D25,D30,D40 blades	Holder C		380-0019
Made to hold the Mini Scraper and Internal Scraper. An M3 setscrew is holding the Blades. Allen key included.	Holder D		380-0022
Holds all E blades.	Holder E		380-0025
Holds all F blades, M7 thread	Holder F		380-0031
Made to hold the Mini scraper and D50,D66 internal scraper. An M3 setscrew is holding the Blades. Allen key included.	Holder D1		380-0013
Has an hexagonal cross section and M3 internal threads at both ends. Holds N80K Blade. Marked point should always point upwards during operation.	Holder K		380-0017
Blades are held in a 3mm square hole and tightened with 4mm set screw. Holds L,L4, L5 & L6 blades.	Holder LD		380-0018
Holds all B blades	Holder BH		380-0020
Holds all E blades.	Holder EH		380-0021
Has an hexagonal cross section to prevent rotating inside Handle. External M7 thread to accept the countersinks:C12,C20,C30	Holder F7		380-0023
Has an hexagonal cross section to prevent rotating inside Handle. External M5 thread to accept the Adapter:E,B,C & L.	Holder F5		380-0024
Has an hexagonal cross section to prevent rotating inside Handle. Inner M5 thread to accept D20,D25,D30,D40 blades.	Holder DH		380-0034
A double headed telescoping blade holder, External M5 thread on one end, and M7 thread on the other end.	Holder BEC		380-0042
Inner M5 thread to holds all B blades	Adapter B		380-0037
Inner M5 thread to holds all E blades	Adapter E		380-0038
Inner M5 thread to holds Holds D20, D25,D30 & D40 blades	Adapter D		380-0063
Inner M5 thread to holds Holds L3, L4, L5 & L6 blades	Adapter L		380-0064

















Specification	Handle	Picture	Order No.
Ergonomically held handle with soft grip. Accepts both heavy and light duty "B" & "E" blades due to 2 holes.	Handle SG	 	380-0043
Plastic Replacement Handle Fit all E blades	Handle NE		380-0016
A unique handle with large storage space for spare blades. Better grip. Safety button for quick change of blades.	Handle NB		380-0044
A unique Handle which can hold the total range of Blade holders: hexagonal cross section.	Handle UNI		380-0090
Hexagonal aluminium painted Handle. Accept all E blades all E blades	Handle RB		380-0091
Rapid deburring tool Handle. Accept 100 E blade. Which is replaceable.	Handle B		380-0092
Hexagonal plastic handle. Holds all "E" (ø 3.2 mm) Blades.	Handle EO		380-0093
Classic universal handle. Accepts all Shaviv blade holders. To store spare blades inside handle, simply unscrew the back cap.	Handle UN		380-0010
Non-telescopic handle, excellent for heavy-duty deburring tasks. All E-series blades fit directly into handle. To store spare blades inside handle, simply unscrew the back cap	Handle 1		380-0009



Specification		Picture	Order No.
<p><b>EDGE OFF</b></p> <p>Includes: E100 Blade mounted in an 8 mm Hexagonal painted Aluminium Handle. The blade is not replaceable. Handy pocket clip.</p>			<p>380-0052</p>
<p><b>PLASTIC EDGE OFF</b></p> <p>Includes: E100 Blade, Plastic Handle. Holds all "E" (ø 3.2 mm) Blades. The Blade is replaceable.</p>			<p>380-0050</p>
<p><b>PUSH SLEEVE</b></p> <p>Includes: E100 Blade, 12 mm Hexagonal painted Aluminium Handle. Holds all "E" (ø 3.2 mm) Blades. To replace blades, push black sleeve back into handle and pull blade out.</p>			<p>380-0039</p>
<p><b>PUSH BUTTON</b></p> <p>Rapid deburring tool Handle. Accept 100 E blade. Which is replaceable.</p>			<p>380-0054</p>
<p><b>NE BURR 1, 3, 5</b></p> <p>Blades can be stored in plastic handle. Accepts "E" series Blade. Blades can be easily changed by depressing locking button.</p> <p>1: E100. 3: E100, E200, E350. 5: E100, E200, E350, E101, E102</p>			<p>380-0074 380-0095 380-0055</p>
<p><b>NB BURR 1, 3, 5</b></p> <p>Includes: NB-handle and "E" series Blade.</p> <p>1: E100. 3: E100, E200, E350. 5: E100, E200, E350, E101, E102</p>			<p>380-0051 380-0096 380-0097</p>
<p><b>SOFT GRIP</b></p> <p>Includes: SG handle, E100 and B10 Blades. Ergonomically held handle. Accepts both heavy and light duty "E" &amp; "B" Blades due to 2 holes.</p>		 <p>  </p>	<p>380-0053</p>



Specification		Picture	Order No.
<p><b>SLOT EDGE CLEANER</b></p> <p>The original deburring set with the non-telescopic blade holder. Great for heavy duty deburring of holes edges. Features a strong, built-in steel blade holder that holds the blade close to the handle. Takes all E-series blade</p>			<p>380-0029</p>
<p><b>B UN BURR</b></p> <p>Includes: Un-handle, B-holder, one B10 Blade. Includes: Un-handle, B-holder, one B20 Blade.</p>			<p>380-0057 380-0098</p>
<p><b>E UN BURR</b></p> <p>Includes: Un-handle, E-holder, one E100 blade Includes: Un-handle, E-holder, one E200 blade Includes: Un-handle, E-holder, one E300 blade</p>			<p>380-0058 380-0099 380-0100</p>
<p><b>B UNI BURR</b></p> <p>Includes: Uni-handle, B-holder, one B10 Blade. Includes: Uni-handle, B-holder, one B20 Blade.</p>			<p>380-0059 380-0105</p>
<p><b>E UNI BURR</b></p> <p>Includes: Uni-handle, E-holder, one E100 blade Includes: Uni-handle, E-holder, one E200 blade Includes: Uni-handle, E-holder, one E300 blade</p>			<p>380-0065 380-0106 380-0107</p>
<p><b>MINI-SCRAPER</b></p> <p>Includes: UN-handle, D1-holder, Triangular Mini-Scraper D50. Hollow ground.</p>			<p>380-0066</p>
<p><b>INTERNAL SCRAPER</b></p> <p>Includes: UN-handle, D1-holder, Internal Scraper D66. For deburring of cross holes.</p>			<p>380-0067</p>
<p><b>SCRAPER</b></p> <p>Designed for high quality finishing &amp; scraping. Includes: UNI-handle, telescoping blade holder, D20 blade &amp; key</p>			<p>380-0068</p>
<p>Includes: UNI-handle, DH-holder, D25 blade &amp; key</p>			<p>380-0069</p>
<p>Includes: UNI-handle, DH-holder, D30 blade &amp; key</p>			<p>380-0080</p>
<p>Includes: UNI-handle, tDH-holder, D40 blade &amp; key</p>			<p>380-0081</p>

Specification		Picture	Order No.
<p><b>COUNTERSINK</b></p> <p>Can be locked in any position. Most useful for chamfering deep holes.</p> <p>Includes: Uni-handle, F7-holder, 12 mm Countersink.</p>			380-0082
Includes: Uni-handle, F7-holder, 20 mm Countersink.			380-0083
Includes: Uni-handle, F7-holder, 30 mm Countersink.			380-0084
<p><b>“V” CUT</b></p> <p>Includes: UNI-handle, LD Blade-holder, L3 Blade.</p> <p>For sheet metal. Range 1-8 mm. Hand-Guard available upon request.</p>			380-0085
<p><b>MINI-CUT</b></p> <p>Includes: UNI-handle, LD Blade-holder, L4 Blade.</p> <p>Used for deburring small ridges in difficult to reach places. Range of 0-2.5 mm.</p>			380-0086
<p><b>SLOT CLEANER</b></p> <p>Includes: UNI-handle, LD Blade-holder, L5 Blade.</p> <p>To relieve corners of narrow slots from 3.5 mm.</p> <p>Double ended blade L7 for cutting in two directions also available.</p>			380-0087
<p><b>CORNER CLEANER</b></p> <p>Includes: UNI-handle, LD blade-holder, L6 blade.</p> <p>Effective corner relief. Wide range of applications.</p>			380-0088
<p><b>KEYWAY BURR</b></p> <p>Includes: UNI-handle, K blade-holder, N80K blade.</p> <p>Effectively removes burrs from internal and external keyways. Range 2.4-11mm.</p>			380-0089
<p><b>DOUBLE-BURR</b></p> <p>Includes: Double burr, hand guard, 2 x N80 Blades. Simultaneously removes burrs from both sides of sheet metal.</p>			380-0060

## Universal Deburring Set



Each set features the UNI handle, engineered for unparalleled comfort, safety and high performance. This tool is extremely powerful yet lightweight. Comes with the special adapter for an extra-close grip.

Includes:  
UNI handle,  
M5 holder, Adapter B, Adapter E,  
Baldes: B10, B20, B30, E100, E200, E300,  
Wrench  
**Order No. 380-0271**

## Scraper Set



Features triangular blades with 3 cutting edges and a telescopic blade holder that lets you reach hard to access areas. Provides maximum grip comfort when used with UNI handle. Suggestion: Use the key supplied to safely release and remove blades.

Includes:  
UNI handle,  
Hex inner thread Holder,  
Scrapers: D20, D25, D30, D40,  
D Wrench  
**Order No. 380-0273**

## Edge Cleaner and Scraper Set



Features blades with adapters and a telescopic blade holder that lets you reach hard to access areas. Provides maximum grip comfort when used with UNI handle. Suggestion: Use the key supplied to safely release and remove blades.

Includes:  
UNI handle,  
M5 holder,  
Adapter D, Adapter L, Scraper D30,  
Cleaner: L3, L4, L5, L6,  
Hex Wrench,  
D Wrench  
**Order No. 380-0274**

## Countersink Set



Each set with 3 powerful countersink tools, most useful for chamfering and countersinking.

Includes:  
UNI handle,  
M7 holder,  
Countersink: C12, C20, C30,  
Wrench  
**Order No. 380-0272**

## Universal Extra Set 1



The complete uni kit for professional machinists.

Includes:  
UNI handle, M5 & M7 holder,  
Adapter L, Adapter E,  
Cleaners: L3, L4, L5, L6,  
Baldes: E100, E200,  
Countersink: C12, C20,  
Hex Wrench, D Wrench  
**Order No. 380-0275**

## Universal Extra Set 2



The most complete uni kit for professional machinists. With extra scraper.

Includes:  
UNI handle,  
M5 & M7 holder,  
Adapter: B, D, E, L,  
Cleaners: L3, L4, L5, L6,  
Baldes: B10, B20, E100, E200,  
Countersink: C12, C20,  
Scraper: D30,  
Hex Wrench,  
D Wrench  
**Order No. 380-0276**

## 18 Pc. Deburring Tool Set

### High Speed Steel Blades, Plastic Case



Set include:  
one double burr  
one zip/burr handle  
one "B" holder  
one B-10 blade  
one B-20 blade  
one "E" holder  
one E-100 blade  
one E-200 blade  
one E-300 blade  
one keyway blade for 1/8-1/4" wide slots  
one zip/burr "K" holder  
one zip/burr "C" holder  
one c-12 1/2" countersink  
one c-20 3/4" countersink  
two zip/burr "D" holders  
one D-50 HSS mini scraper  
one D-66 HSS internal scraper

**Order No. 380-0056**

## 6 Pc. Deburring Tool Set



**Set Includes:**  
Flat diamond coated file, triangular scraper, flat Scraper, round scraper, swivel blade tool, rotational deburring tool with minimum hole diameter 0.08".

**6 Pcs/set**  
**Order No. 380-0160**

### 3 Pc. Rapid Deburring Tool Set



Rapid deburring tool with blade E100 which is not replaceable.

**Includes:** 3 Pcs 380-0052

**Order No. 380-0352**

### 4 Pc. Deburring Tool Set



**4 Pcs/Set "B" includes:**  
one plastic handle, one B holder  
one each of B10, B20 blades

**Order No. 380-0003**

### 5 Pc. Deburring Tool Set

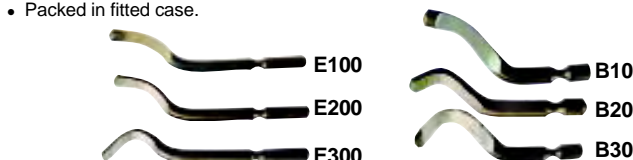


**5 Pcs/Set "E" includes:**  
one plastic handle, one E holder  
one each of E100, E200, E300 blades

**Order No. 380-0006**

### 9 Pc. Deburring Tool Set

- Blades can be stored in plastic handle.
- Blades can be easily changed by pressing collar of holder.
- Packed in fitted case.



**9 Pcs/Set includes:**  
one plastic handle  
one each of E100, E200, E300,  
B10, B20, B30 blades  
one each of E holder and B holder

**Order No. 380-0007**

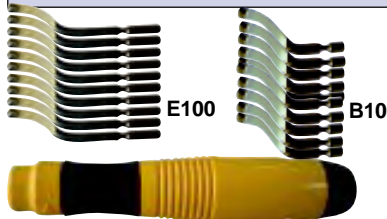
### Scraper Set



**Includes:**  
Uni-handle,  
D1 Blade-holder + D50 Scraper,  
D1 Blade-holder + D66 Scraper,  
Wrench

**Order No. 380-0103**

### Soft Grip Set

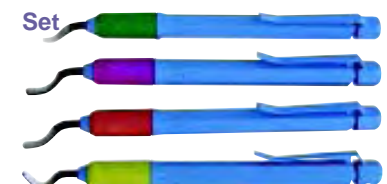


**Includes:**  
SG handle.  
B10 Blade (1 Pcs)  
E100 Blade (20 Pcs)  
**Order No. 380-0102**

**Includes:**  
SG handle.  
B10 Blade (10 Pcs)  
E100 Blade (10 Pcs)  
**Order No. 380-0101**

### Universal Set

#### The Plastic EDGE OFF Set



**Includes:**  
EO handle + E100  
EO handle + E102  
EO handle + E200  
EO handle + E300

**Order No. 380-0104**

### Steel Stamping Letter & Number Sets

Alloy Steel, Heat Treatment 50-55 HRC



Size	Specification	order No.
1mm	A-Z 27Pcs/set	835-3001
	0-8 9Pcs/set	835-3002
	A-Z & 0-8 36Pcs	835-3005
1.5mm	A-Z 27Pcs/set	835-3011
	0-8 9Pcs/set	835-3012
	A-Z & 0-8 36Pcs	835-3015
2mm	A-Z 27Pcs/set	835-3021
	0-8 9Pcs/set	835-3022
	A-Z & 0-8 36Pcs	835-3025
3mm	A-Z 27Pcs/set	835-3031
	0-8 9Pcs/set	835-3032
	A-Z & 0-8 36Pcs	835-3035
4mm	A-Z 27Pcs/set	835-3041
	0-8 9Pcs/set	835-3042
	A-Z & 0-8 36Pcs	835-3045
5mm	A-Z 27Pcs/set	835-3051
	0-8 9Pcs/set	835-3052
	A-Z & 0-8 36Pcs	835-3055

Size	Specification	Order No.
1/16"	A to Z 27Pcs	835-1000
1/8"	A to Z 27Pcs	835-1005
3/16"	A to Z 27Pcs	835-1010
1/4"	A to Z 27Pcs	835-1015
1/16"	0 to 8 9Pcs	835-1055
1/8"	0 to 8 9Pcs	835-1060
3/16"	0 to 8 9Pcs	835-1065
1/4"	0 to 8 9Pcs	835-1070
1/16"	A to Z & 0-8 36Pcs	835-2000
1/8"	A to Z & 0-8 36Pcs	835-2001
3/16"	A to Z & 0-8 36Pcs	835-2002
1/4"	A to Z & 0-8 36Pcs	835-2003

### 38 Pc. Automatic Steel Stamp Sets

- Permanently identify your belongings.
- Imprints wood & metal.
- Steel handle: 6 x 5/8", handle only  
**Order No. 830-8300.**
- Complete set includes both letters and numbers plus a 6" handle.



Description	Order No.
Handle + 1/16" Letter Punches(835-2000 )	830-8350
Handle + 1/8" Letter Punches( 835-2001)	830-8351
Handle + 3/16" Letter Punches(835-2002)	830-8352
Handle + 1/4" Letter Punches( 835-2003)	830-8353

### 112 Pc. Industrial Steel Stamp Set

#### Special Tool Steel for Hand or Machine Use

- A fast easy solution for multi-character marking. Now in a simple stamp you can indent a series of letters and numbers in a product or nameplate. These kits are made of special tool steel. Each character is hardened and tempered to HRC 58-62.
- Each kit is packed in a case and contains: type holder with a complete selection of letters, numbers, dash, slash amok, period, comma, ampersand and spacers.
- Holder capacity: 8pcs or 12pcs.

#### Sets Includes:

A	A	B	B	C	C	D	D	E
E	E	F	F	G	G	H	H	I
I	I	J	J	K	K	L	L	M
M	N	N	O	O	O	P	P	Q
R	R	S	S	T	T	U	U	
U	V	W	W	X	X	Y	Z	& /
/	-	-	-	-	-	1	1	1
1	2	2	2	3	3	3	4	4
4	4	5	5	5	6	6	6	7
7	8	8	8	9	9	9	0	0



Size	HolderCapacity	Order No.	Holder Capacity	Order No.
1/16"	8Pcs	829-1700	12Pcs	829-1800
3/32"	8Pcs	829-1701	12Pcs	829-1801
1/8"	8Pcs	829-1702	12Pcs	829-1802
3/16"	8Pcs	829-1703	12Pcs	829-1803
1/4"	8Pcs	829-1704	12Pcs	829-1804
3/8"	8Pcs	829-1705	12Pcs	829-1805



**Steel Type & Holders**

- Stamp a series of letters or figures in a producing nameplate or metal part, with uniform legibility, in one stroke!
- Hand mobile type holders include threaded pin, Allen wrench and screw.
- Blanks must be used for spacing – or filling unused capacity of type holder.

**Individual Steel Type Sets**

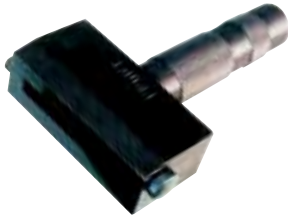
Character Height	Description	Order No.
1/8"	Letter A-Z	<b>830-1027</b>
1/8"	Number 0-9	<b>830-1510</b>
1/4"	Letter A-Z	<b>830-1131</b>
1/4"	Number 0-9	<b>830-1610</b>

**Steel Type Holders**

Size	Body Size		Order No.
	Capability	W x H x L	
1/8"	8	1/8" x 1/4" x 1"	<b>830-0900</b>
1/8"	12	1/8" x 1/4" x 1"	<b>830-0905</b>
1/4"	8	1/8" x 1/4" x 1"	<b>830-0910</b>
1/4"	12	1/8" x 1/4" x 1"	<b>830-0915</b>

**Steel Spacers**

Size	Order No.
1/8"	<b>830-1135</b>
1/4"	<b>830-1145</b>



**Individual Letters & Numbers**

Character	1/8"		1/4"		Character	1/8"		1/4"	
	Order No.	Order No.	Order No.	Order No.		Order No.	Order No.		
A	<b>830-1001</b>	<b>830-1101</b>	M	<b>830-1013</b>	<b>830-1113</b>	Y	<b>830-1025</b>	<b>830-1125</b>	
B	<b>830-1002</b>	<b>830-1102</b>	N	<b>830-1014</b>	<b>830-1114</b>	Z	<b>830-1026</b>	<b>830-1126</b>	
C	<b>830-1003</b>	<b>830-1103</b>	O	<b>830-1015</b>	<b>830-1115</b>	0	<b>830-1500</b>	<b>830-1600</b>	
D	<b>830-1004</b>	<b>830-1104</b>	P	<b>830-1016</b>	<b>830-1116</b>	1	<b>830-1501</b>	<b>830-1601</b>	
E	<b>830-1005</b>	<b>830-1105</b>	Q	<b>830-1017</b>	<b>830-1117</b>	2	<b>830-1502</b>	<b>830-1602</b>	
F	<b>830-1006</b>	<b>830-1106</b>	R	<b>830-1018</b>	<b>830-1118</b>	3	<b>830-1503</b>	<b>830-1603</b>	
G	<b>830-1007</b>	<b>830-1107</b>	S	<b>830-1019</b>	<b>830-1119</b>	4	<b>830-1504</b>	<b>830-1604</b>	
H	<b>830-1008</b>	<b>830-1108</b>	T	<b>830-1020</b>	<b>830-1120</b>	5	<b>830-1505</b>	<b>830-1605</b>	
I	<b>830-1009</b>	<b>830-1109</b>	U	<b>830-1021</b>	<b>830-1121</b>	6	<b>830-1506</b>	<b>830-1606</b>	
J	<b>830-1010</b>	<b>830-1110</b>	V	<b>830-1022</b>	<b>830-1122</b>	7	<b>830-1507</b>	<b>830-1607</b>	
K	<b>830-1011</b>	<b>830-1111</b>	W	<b>830-1023</b>	<b>830-1123</b>	8	<b>830-1508</b>	<b>830-1608</b>	
L	<b>830-1012</b>	<b>830-1112</b>	X	<b>830-1024</b>	<b>830-1124</b>	9	<b>830-1509</b>	<b>830-1609</b>	

**Automatic Center Punches**

- Moveable components are made from tool steel and hardened. The point is easily removed for sharpening.
- The pressure of marking is controlled by ratching the dunned cap. Screw the cap down for heavy indentations and screw the cap upward for lighter markings.
- Automatic heavy duty center punch.
- Handle Length 6", Handle Diameter 5/8".

Description	Order No.
Steel Handle	<b>830-3001</b>
Copper Handle	<b>830-3002</b>



**2 in 1 Punch Scriber**

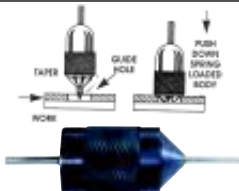
- Attachable carbide scribe head can be stored in the hollow handle for safe carrying.
- The punch scriber consisted of one male handle with punch head and key ring, and one female handle with female thread used to tighten carbide scribe and male handle.



Order No. **830-3003**

**Universal Transfer Punches & Aligners**

- Centers top of 3/16"-3/4" hole.
- Perfect hole center alignment assured.
- Precision ground and spring loaded.
- All parts made from steel & hardened.
- Replaces different size transfer punches.



Specification	Weight	Order No.
3/16" Dia. Punch 3-1/8" L for 1/4"-3/4" hole	0.26 lbs	<b>830-0150</b>
3/16" Dia. Punch 4-1/8" L for 1/4"-1-1/16" hole	0.46 lbs	<b>830-0180</b>

**Center Punches**

**Metric Sets**

Piece Size	Order No.
5 1.6, 2.0, 2.4, 3.6, 4.0mm	<b>830-0220</b>
3 1.6, 2.0, 2.4mm	<b>830-0230</b>

**Inch Sets**

Piece Size	Order No.
5 1/16", 5/64", 3/32", 9/64", 5/32"	<b>830-0200</b>
3 1/16", 5/64", 3/32"	<b>830-0210</b>



**Inch Individuals**

Point Dia.	Order No.
1/16"	<b>830-0201</b>
5/64"	<b>830-0202</b>
3/32"	<b>830-0203</b>
9/64"	<b>830-0204</b>
5/32"	<b>830-0205</b>

**Metric Individuals**

Point Dia.	Order No.
1.6mm	<b>830-0211</b>
2.0mm	<b>830-0212</b>
2.4mm	<b>830-0213</b>
3.6mm	<b>830-0214</b>
4.0mm	<b>830-0215</b>

**Drive Pin Punch Sets**

Piece	Specification	Order No.
4Pcs	1/16, 3/32, 1/8, 5/32"	<b>830-0260</b>
4Pcs	3/16, 7/32, 1/4, 5/16"	<b>830-0262</b>
8Pcs	1/16, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16"	<b>830-0264</b>



Piece	Specification	Order No.
4Pcs	1.6, 2.4, 3.2, 4 mm	<b>830-0290</b>
4Pcs	4.8, 5.6, 6.4, 8.0mm	<b>830-0292</b>
8Pcs	1.6, 2.4, 3.2, 4 mm 4.8, 5.6, 6.4, 8.0mm	<b>830-0294</b>



## Extra Long Drive Pin Punches

### Inch Sets

Piece	Size	Length	Order No.
5	1/8", 3/16", 1/4", 5/16", 3/8"	8"	830-0240

### Metric Sets

Piece	Size	Length	Order No.
5	3.2, 4.8, 6.4, 8.0, 9.5mm	200mm	830-0270

### Inch Individuals

Point Dia.	Order No.
1/8"	830-0242
3/16"	830-0244
1/4"	830-0246
5/16"	830-0248
3/8"	830-0250

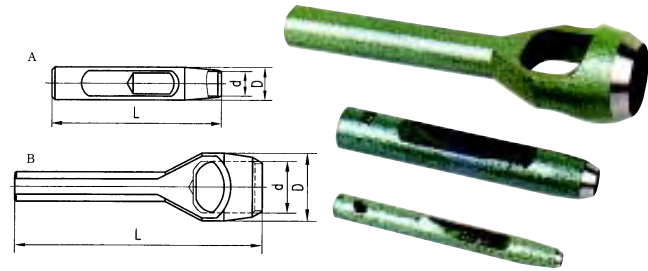
### Metric Individuals

Point Dia.	Order No.
3.2mm	830-0272
4.8mm	830-0274
6.4mm	830-0276
8.0mm	830-0278
9.5mm	830-0280



## Hollow Punches

These tools are used to punch holes in materials such as leather, rubber, cork, plastic, balsa wood, and thin soft metals such as brass and lead. Widely used for punching holes as well as cutting gaskets and washers, production work, and other close tolerance applications.



Hole Size	D mm	L mm	Type	Order No.	Hole Size	D mm	L mm	Type	Order No.
3/16"	10	95	A	830-8001	1-5/8"	57	215	B	830-8026
1/4	10.5	100	A	830-8002	1-11/16	58	215	B	830-8027
5/16	12.5	106	A	830-8003	1-3/4	61	215	B	830-8028
3/8	15	106	A	830-8004	1-13/16	63	218	B	830-8029
7/19	17	106	A	830-8005	1-7/8	64	220	B	830-8030
1/2	19	116	A	830-8007	1-15/16	66	230	B	830-8031
9/16	21	116	A	830-8008	2	68	230	B	830-8032
5/8	23	116	A	830-8009	2-1/8	70	230	B	830-8033
11/16	24	118	A	830-8010	2-1/4	75	230	B	830-8034
3/4	26	118	A	830-8011	2-3/8	78	230	B	830-8035
13/16	27	118	A	830-8012	2-1/2	81	230	B	830-8036
7/8	29	120	A	830-8013	2-5/8	84	230	B	830-8037
15/16	31	120	A	830-8014	2-3/4	88	232	B	830-8038
1	33	120	A	830-8015	2-7/8	92	235	B	830-8039
1-1/16	40	163	B	830-8017	3	96	235	B	830-8040
1-1/8	42	165	B	830-8018	3-1/8	99	235	B	830-8041
1-3/16	44	168	B	830-8019	3-1/4	102	235	B	830-8042
1-1/4	46	168	B	830-8020	3-3/8	105	240	B	830-8043
1-5/16	48	175	B	830-8021	3-1/2	108	240	B	830-8044
1-3/8	50	185	B	830-8022	3-5/8	112	250	B	830-8045
1-7/16	52	200	B	830-8023	3-3/4	115	250	B	830-8046
1-1/2	54	208	B	830-8024	3-7/8	118	255	B	830-8047
1-9/16	55	208	B	830-8025	4	122	255	B	830-8048

## Transfer Punches

- Heat treated and tempered for long life.
- Diameters 0.0025 undersize to facilitate use.
- Black oxide finish.



830-4033

830-4028

### Sets

Description	Steel Stand Order No.	Plastic Stand Order No.
25Pcs/set 1mm to 13mm by 0.5mm	830-4025	830-4125
26Pcs/set letters A-Z	830-4026	830-4126
28Pcs/set 3/32" to 1/2" by 64ths plus 17/32"	830-4028	830-4128
33Pcs/set 1/2" to 1" by 64ths	830-4033	
60Pcs/set numbers 1 to 60	830-4060	830-4160

### Individual Punches

Size	Order No.	Size	Order No.	Size	Order No.
3/32"	830-0106	1/4"	830-0116	13/32"	830-0126
7/64"	830-0107	17/64"	830-0117	27/64"	830-0127
1/8"	830-0108	9/32"	830-0118	7/16"	830-0128
9/64"	830-0109	19/64"	830-0119	29/64"	830-0129
5/32"	830-0110	5/16"	830-0120	15/32"	830-0130
11/64"	830-0111	21/64"	830-0121	31/64"	830-0131
3/16"	830-0112	11/32"	830-0122	1/2"	830-0132
13/64"	830-0113	23/64"	830-0123	33/64"	830-0133
7/32"	830-0114	3/8"	830-0124	17/32"	830-0134
15/64"	830-0115	25/64"	830-0125		

## Solid Brass Grommet Kits

- Mandrels and anvils are coded with lines for specifying their own individual size.
- Black finished Mandrel, Anvil and Hole Cutters.
- Golden bright finished Grommets.

Each size kit includes:

- 1 Hole cutter
- 1 Wooden block
- 1 Mandrel
- 1 Anvil

48 grommets for 1/4", 24 grommets for 3/8" & 1/2"



### Grommet Kits

Size	Order No.
1/4"	830-0400
3/8"	830-0410
1/2"	830-0420

### Grommet Refills

Description	Size	Grommet	Order No.
for 830-0400	1/4"	24pcs	830-0500
for 830-0410	3/8"	24pcs	830-0510
for 830-0420	1/2"	24pcs	830-0520

## 7 Pc. Transfer Screw Sets

Size	NC Order No.	NF Order No.
4-40	830-3014	830-3114
5-40	830-3015	830-3115
6-32	830-3016	830-3116
8-32	830-3018	830-3118
10-24	830-3020	830-3120
3/16"-24	830-3021	830-3121
12-24	830-3022	830-3122
1/4"-20	830-3023	830-3123
5/16"-18	830-3024	830-3124
3/8"-16	830-3025	830-3125
7/16"-14	830-3026	830-3126
1/2"-13	830-3027	830-3127
9/16"-12	830-3028	830-3128
5/8"-11	830-3029	830-3129
3/4"-11	830-3030	830-3130
7/8"-9	830-3031	830-3131
1"-8	830-3032	830-3132

More accurate than transfer punches. The fastest and most precise method of transferring threaded holes to mating parts. Great for tool and die work and in lay out. Set consists of 1 handle and 6 screws.



## 3 PC. Punch Set

4" OAL. Black nitrate finished. Chrome alloy steel, hardened with knurled body. Includes center punch, prick punch and pin punch in pouch.



Order No. 830-0003

## 6 Pc. Hollow Punch Set

The fast, easy way to punch accurate holes in gasket material, light gauge sheet metal, vinyl, leather, and more. High carbon construction with precision ground flutes and cutting edges, Easy to grip knurled shank.

6 Pcs/set, includes 3/16, 1/4, 5/16, 3/8, 7/16, 1/2 punches



Order No. 830-8006

## 13Pc. Gunsmith Punch set

- Set include:
  - 8pc Brass punches, one of each: 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 9/32, 5/16
  - 2pc Steel pin punches: 1/16 & 3/32
  - 2pc Hard plastic punches: 15/64 & 3/8
  - 1pc Brass head hammer
- All included in a blow molded case.



Order No. 830-0013

## 15 Pc. Gasket Punch Set

- Punch quick, accurate washers and gaskets on the job. Use on rubber, leather, copper, soft brass, and other materials.
- 15 Pcs/set, includes:
  - 1-1/2, 1-3/8, 1-1/4, 1-1/8, 1, 7/8, 3/4, 5/8, 1/2, 7/16, 3/8, 5/16, and 1/4",
  - Handle, Plastic case.



Order No. 830-2115

## 3 Pc. Expandable Pin Punch Set

### Rang 1/4 to 11/16" (6-17mm)

- Compact set of 3 takes the place of numerous individual solid punches.
- Each punch expands within its range to pick up the true center of holes from 1/4" to 11/16" diameter.
- By turning the knurled head, the punch body expands to the perfect fit in the bottom of the hole.
- A light hammer stroke on the top of the center pin provides the desired center mark.



No. of Piece	Size	Individual Order No.	Set Order No.
3Pcs/set	1/4-5/16"(6-8mm)	830-0025	830-0029
	5/16-7/16"(8-11mm)	830-0026	
	7/16-11/16"(11-17mm)	830-0027	

## 16 Pc. Punch & Chisel Set

- Comes in a vinyl roll-up pouch.
- 16 Pcs/set, includes:
  - 4 starting punches: 9-3/4", 7-3/4", 5-3/4", 5-13/16".
  - 5 cold chisels: 8x5/8, 7x3/4, 6-3/4x5/8, 5-3/4x1/2, 5-3/4x3/8".
  - 1 center punch.
  - 3 pin punches.
  - 1 prick punch.
  - 1 diamond point punch.



Order No. 830-8016

## 24 Pc. Pin Punch Set

- This set combines all the most used pin punches, all are forge hardened, heat-treated tool steel.
- 16 Pcs/set, includes:
  - 5 pieces 8" extra long drive pin punches.
  - 8 pieces 4" long drive pin punches.
  - 5 pieces round shank center punches.
  - 3 pieces 5/32" taper pin punches.
  - 1 handle for pin punches.
  - 1 piece 6"/150mm ruler.
  - 1 piece 4" divider.



Order No. 830-0024

## Blind Hole Spotters & Sets

Fast, easy way to locate opposite centers. When holes do not extend through material (such as holes for dowel pins, perforating punches, etc.) Spellmaco blind-hole spotters get the job done simply. Correct size spotter can be used in threaded, drilled or reamed holes.

Packaged six of one size in plastic tube.



### Sets

Piece	Size	Order No.
108	6pcs each of 1/8-21/32" by 32nds	830-5300
66	6pcs each of 11/16-1" by 32nds	830-5305



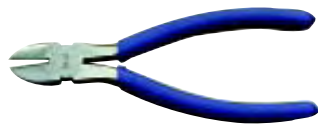
### Individuals

Size	Order No.	Size	Order No.	Size	Order No.	Size	Order No.
1/8"	830-5008	13/32"	830-5026	11/16"	830-5044	31/32"	830-5062
9/64"	830-5009	27/64"	830-5027	45/64"	830-5045	63/64"	830-5063
5/32"	830-5010	7/16"	830-5028	23/32"	830-5046	1"	830-5064
11/64"	830-5011	29/64"	830-5029	47/64"	830-5047	3#	830-5103
3/16"	830-5012	15/32"	830-5030	3/4"	830-5048	6#	830-5106
13/64"	830-5013	31/64"	830-5031	49/64"	830-5049	7#	830-5107
7/32"	830-5014	1/2"	830-5032	25/32"	830-5050	8#	830-5108
15/64"	830-5015	33/64"	830-5033	51/64"	830-5051	10#	830-5110
1/4"	830-5016	17/32"	830-5034	13/16"	830-5052	16#	830-5116
17/64"	830-5017	35/64"	830-5035	53/64"	830-5053	20#	830-5120
9/32"	830-5018	9/16"	830-5036	27/32"	830-5054	21#	830-5121
19/64"	830-5019	37/64"	830-5037	55/64"	830-5055	25#	830-5125
5/16"	830-5020	19/32"	830-5038	7/8"	830-5056	29#	830-5129
21/64"	830-5021	39/64"	830-5039	57/64"	830-5057	30#	830-5130
11/32"	830-5022	5/8"	830-5040	29/64"	830-5058	F	830-5206
23/64"	830-5023	41/64"	830-5041	59/64"	830-5059	I	830-5209
3/8"	830-5024	21/32"	830-5042	15/16"	830-5060	P	830-5216
25/64"	830-5025	43/64"	830-5043	61/64"	830-5061	Q	830-5217



### Diagonal Pliers (Polished)

Size	Order No.
4"	802-0304*
5	802-0305
6	802-0306
7	802-0307
5.5	802-0355
6.5	802-0365
7.5	802-0375



\* with Coiled Spring

### Straight Jaws Locking Pliers

Size	Order No.
4"	802-0504
5	802-0505
6	802-0506
7	802-0507
8	802-0508
9	802-0509
10	802-0510
3Pcs/set,5,7 & 10"	802-0503

with Wire Cutter



### Slip Joint Pliers

Size	Order No.
4"	802-0204
5	802-0205
6	802-0206
8	802-0208
10	802-0210
3Pcs/set,6,8 & 10"	802-0203

with Wire Cutter & Grips



### Aviation Snips

#### Normal Type

Size	Type	Order No.
10"	Right	802-0151
10	Straight	802-0152
10	Left	802-0153

#### Heavy Duty Type

Size	Type	Order No.
10"	Right	802-0154
10	Straight	802-0155
10	Left	802-0156



### Linemen's Pliers

Size	Order No.
6"	802-0616
7	802-0617
8	802-0618



### Long Nose Pliers, American type, Polished

Size	Order No.
5"	802-0405
6	802-0406
8	802-0408
5.5	802-0455
6.5	802-0465

with Side Cutter



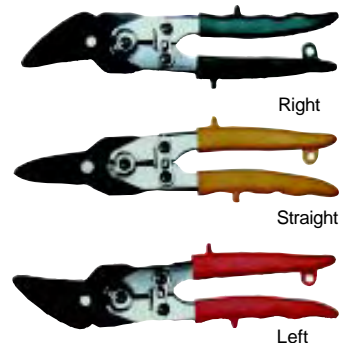
### German Type Aviation Snips

#### Normal Type

Size	Type	Order No.
10"	Right	802-0157
10	Straight	802-0158
10	Left	802-0159

#### Heavy Duty Type

Size	Type	Order No.
10"	Right	802-0160
10	Straight	802-0161
10	Left	802-0162



### Plier sets

#### 3 Piece Set:

American type:

6" LongNose, 6"Diagonal & 7"Linesman

Order No. 802-0923

#### 4 Piece Set:

one each 6" Linemen, Diagonal, Long

Nose, Slipjoin

Order No. 802-0914



#### Mini Plier set

#### 3 Piece Set:

American type:

Long Nose,Diagonal & Bent nose

Order No. 802-0903



### Long Nose Locking Pliers

with Wire cutter

Size	Order No.
4"	802-0604
5	802-0605
6	802-0606
8	802-0608
9	802-0609



### Bolt Cutters American Standard

Size	Order No.
12"	802-0112
14	802-0114
18	802-0118
24	802-0124
30	802-0130
36	802-0136
42	802-0142

Alloy Steel Blade, Steel Handle

- Suitable for medium tensile and soft bolts, rods, rivets, bars and chains, etc.



## Steel Pipe Wrenches

Size	Order No.
8"	800-0152
10	800-0154
14	800-0156
18	800-0157
24	800-0158
36	800-0159
2Pcs 24" & 36"	800-0160

### Alloy Steel Blade

- Large easy-to-spin adjusting nut allows fast setting to pipe size
- Jaws are made of hardened alloy steel



## Aluminum Pipe Wrenches

Size	Order No.
10"	800-0172
14	800-0174
18	800-0175
24	800-0176
36	800-0177
48	800-0178
3Pcs:14,18,24"	800-0170
4Pcs:8", 10", 14" and 18"	800-0150

### Alloy Steel

- Ideal for overhead work
- Lightweight is able to preform H/D tasks
- Hook and heel jaw are of strong alloy steel and hardened



## Pipe and Tubing Tools

### Pipe and Tubing Tools

- Adjustable tubing cutter from 3-22mm outside diameter.
- Ideal for use with any soft, thin wall metal tubing such as copper, brass, aluminum or magnesium.
- Cast Aluminum Frame, Alloy steel cutting wheel



Order No. 839-0022

### Tubing Cutter

- Cuts metal tubes from 3-28mm outside diameter.
- Ideal for use with any soft, thin wall metal tubing such as copper, brass, aluminum or magnesium.
- Cast Aluminum Frame, Alloy steel cutting wheel
- Includes a retractable steel reamer.



Order No. 839-0028

### 7 Pc. Tubing And Flaring Kit

- 1 Adjustable tubing cutter 1/4 to 1-1/4" outside diameter.
- 2Pcs flaring tools, 3/16 to 3/8".
- 4Pcs tube benders 1/4, 5/16, 3/8, 7/16".



Order No. 839-0060

### PVC Pipe Cutter

- Industrial grade aluminum die cast body.
- Cuts up to 1-3/8" PVC pipe.
- Blade is heat treated, polished and chrome plated.
- Easy handling ratchet adjusting.



Order No. 839-0005

Replace Blade for PVC pipe cutter(839-0005)  
Order No. 839-0006

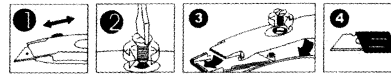
## Triplet Tubing Bender

- 1/4, 5/16, 3/8, 6mm, 8mm.
- One tool bends three sizes of tubing in annealed copper, brass, steel, aluminum, stainless steel and other metals.
- 8" long.
- Bender has calibrated markings.



Order No. 830-2000

## Retractable Utility Knife



Heavy-duty zinc-alloy knife with multilevel locking push button is special for industrial production.



Order No. 839-0090

Heavy-duty zinc-alloy knife, multilevel locking and multi-pushbuttons is special for industrial production.



Order No. 839-0091



Order No. 839-0092



Order No. 839-0093



100pcs/box  
Replacement Blade (0.5mm)

Order No. 839-0099

## Hacksaw Frames



### Specification

Basic Model, Fits both 10" and 12" blades BT105  
12" High Tension BT304  
Tubular frame fits both 10" or 12" blades BT319

### Order No.

810-5001  
810-5002  
810-5003

## Black Rubber Mallets

Weight (lbs.)	Order No.
16 oz.	810-6002
32 oz.	810-6004



## Bead Blow Hammers

Hammers are ideal for an unlimited variety of industrial and construction operations including manufacturing, fabrication, assembly, installation and repair

Specifications	Order No.
1-1/2" Face, 8oz./0.5lbs	810-6010
1.0lbs	810-6011
1-3/4" Face, 1-1/2 lbs	810-6012
2" Face, 2 lbs	810-6014
2-1/4" Face, 2-1/2 lbs	810-6016
2-1/2" Face, 3 lbs	810-6017
3-1/2" Face, 11 lbs	810-6018
4.0lbs	810-6019

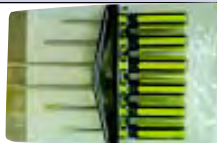


4pcs/set  
1-1/2, 1-3/4, 2 and 2-1/2"  
Order No. 810-6020

### Screwdriver Sets



Order No.803-0080



Order No.803-0060



Order No.803-0081



Order No.803-0016



Order No.803-0001



Order No.803-0006

Specification	Order No.
4 in 1 Magnetic Shaft Screwdriver, 2 Phillips & 2 Slotted Steel Bits	803-0001
6 in 1 screwdriver ,chrome plated holder	803-0006
6pcs Jewelers./watchmaker,chrome plated	803-0016
22 Piece CrV, 9 Slotted,5 Phillips Screwdrivers, 5Torx Drivers, Scratch Awl, Tack Puller & Slotted Screwdriver w/ Screw Holder	803-0022
22 Piece CrV, neon handle 9 Slotted,5 Phillips Screwdrivers, 5Torx Drivers, Scratch Awl, Tack Puller & Slotted Screwdriver w/ Screw Holder	803-0023
26 Pcs,screwdriver & bit set, 1pcs 3way ratcheting reversible screwdriver,4pcs slotte bits,3pcs phillips bits,3pcs star bits, 1pcs bit adaptor,14pcs 1/4"sockets	803-0026
6 Piece, CrV 2pcs Phillips&4pcs Slotted , with hanging storage rack	803-0060
8 Piece, Black Handle, 1/4x1-1/2", 1/4x4", 3/16x3", 5/16x6", 3/8x8", #1x3", #2x4", #2x1-1/2" Chrome Plated Alloy Steel Blade	803-0080
8 Piece, Color Coded Neon Handle, 1/4x1-1/2", 1/4x4", 3/16x3", 5/16x6", 3/8x8", #1x3", #2x4", #2x1-1/2" Chrome Plated Alloy Steel Blade	803-0081

### 7 Piece Nut Drivers Set

7 most popular nut driver sizes:  
3/16, 1/4, 5/16, 11/32, 3/8, 7/16, 1/2"

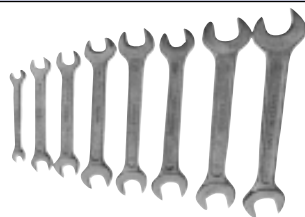


Order No. 803-9007

### Double Open Wrenches

#### Individuals

Size	Order No.
3/8"	800-0951
7/16"	800-0952
1/2"	800-0953
9/16"	800-0954
5/8"	800-0955
11/16"	800-0956
3/4"	800-0957
13/16"	800-0958
7/8"	800-0959
15/16"	800-0960
1"	800-0961
1-1/16"	800-0962
1-1/8"	800-0963
1-1/4"	800-0964



#### Sets

No.of Piece	Descriptions	Order No.
3	3/8x7/16", 1/2x9/16", 5/8x11/16"	800-0970
6	1/4x5/16", 3/8x7/16", 1/2x9/16", 9/16x5/8", 11/16x13/16", 3/4x7/8"	800-0971
6	6x8, 7x9, 10x11, 12x14, 13x15, 17x19mm	800-0972

### Double Offset Ring Spanner Sets

Piece Descriptions	Order No.
6Pcs 1/4x5/16", 3/8x7/16", 1/2x9/16", 9/16x5/8", 11/16"x13/16", 3/4x7/8"	800-0977
6Pcs 6x7, 8x9, 10x11, 12x13, 14x15, 16x17mm	800-0978
8Pcs 6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22mm	800-0979



### Adjustable Wrenches

#### Individuals

Size	Chrome Order No.	Black Order No.
6"	800-0083	800-0093
8"	800-0084	800-0094
10"	800-0085	800-0095
12"	800-0086	800-0096
15"	800-0087	800-0097
18"	800-0088	800-0098
24"	800-0089	800-0099



#### Sets

No.of Piece	Descriptions	Chrome Order No.	Black Order No.
5	6", 8", 10", 12", 15"	800-0080	800-0090
4	6", 8", 10", 12"	800-0082	800-0092

### Ratchet Box-End Wrench Set

#### 5 Piece 12 Point Fractional Set

- Made of sturdy, light-weight chrome plated tool
- Requires only a 20° arc for continuous ratcheting

Range: 1/4"-11/16"

Set Include 1 Each:

1/4x5/16, 3/8x7/16, 1/2x9/16, 5/8x3/4, 11/16x7/8"



Order No. 800-0305

### Combination Wrench Sets



No.of Piece	Descriptions	Order No.
11	3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1"	800-0914
14	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"	800-0915
6	1-3/8", 1-1/2", 1-5/8", 1-3/4", 1-7/8", 2"	800-0917
10	1-5/16", 1-3/8", 1-7/16", 1-1/2", 1-5/8", 1-11/16", 1-3/4", 1-13/16"	800-0918
7	1-1/16, 1-3/8, 1-1/2, 1-5/8, 1-3/4, 1-7/8, 2"	800-0065
9	1/4" to 3/4"	800-0066
5	3/8 to 5/8"	800-0068
14	1/4" to 1-1/4"	800-0100
16	1/4" to 1-1/4"	800-0125
20	1/4" to 1-1/2"	800-0110
11	7, 8, 9, 10, 11, 12, 13, 14, 17, 19, 22mm	800-0916
14	6mm to 23mm	800-0105
20	6mm to 32mm	800-0120



## 3/8" Drive Sockets

### Inch Standard



Size (in.)	Point	Standard Order No.
3/8	6	801-0204
7/16	6	801-0206
1/2	6	801-0208
9/16	6	801-0209
5/8	6	801-0210
11/16	6	801-0211
3/4	6	801-0212
13/16	6	801-0213
7/8	6	801-0214

### Deep



Size (in.)	Point	Deep Order No.
3/8	6	801-0256
7/16	6	801-0257
1/2	6	801-0258
9/16	6	801-0259
5/8	6	801-0260
11/16	6	801-0261
3/4	6	801-0262
13/16	6	801-0263
7/8	6	801-0264

### Metric Standard



Size (mm)	Point	Standard Order No.
7	6	801-0007
8	6	801-0008
9	6	801-0009
10	6	801-0010
11	6	801-0011
12	6	801-0012
13	6	801-0013
14	6	801-0014
15	6	801-0015
16	6	801-0016
17	6	801-0017
19	6	801-0019

### Deep



Size (mm)	Point	Deep Order No.
7	6	801-0037
8	6	801-0038
9	6	801-0039
10	6	801-0040
11	6	801-0041
12	6	801-0042
13	6	801-0043
14	6	
15	6	801-0045
16	6	
17	6	801-0017
19	6	801-0049

### 19Piece Set-6Point

Descriptions	Order No.
9-19mm, CrV, one each: 8" Ratchet, 3/8" Drive, 3" Extension Bar, STD&Deep 10,11,12,13,14,15,17,19, extra STD 9"	801-0079
3/8"-7/8", CrV, one each: 8" Ratchet, 3/8" Drive, 3" Extension Bar, STD & Deep 3/8,7/16,1/2,9/16,5/8,11/16,3/4,13/16, extra STD 7/8"	801-0089

## 1/2" Drive Sockets



### Inch

Size (in.)	Point	Standard Order No.	Deep Order No.
1/2	6	801-0158	801-0308
6/19	6	801-0159	801-0309
5/8	6	801-0160	801-0310
11/16	6	801-0162	801-0311
3/4	6	801-0163	801-0312
13/16	6		801-0313
7/8	6	801-0164	801-0314
15/16	6	801-0165	801-0315
1	6	801-0166	801-0316
1-1/6		801-0167	
1-1/8		801-0168	
1-1/4		801-0170	

### Metric

Size (mm)	Point	Standard Order No.
13	6	801-0113
15	6	801-0115
17	6	801-0117
19	6	801-0119
22	6	801-0122
23	6	801-0123
24	6	801-0124
27	6	801-0127
30	6	801-0130
32	6	801-0132

### 16 Piece Set-6 Point

Descriptions	Order No.
10 to 27mm, 10" Ratchet and hinge handle, 5" Extension, 10, 11,12,13,14,15,16,17,18,19,20,21,22,23,24,27mm	801-0376
7/16 to 1-1/4", 10" Ratchet, flex Handle, 5" Extension, 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	801-0386

## Ratchet Handles

### Round head



Drive (in.)	Overall Length	Order No.
1/4	6"	801-9004
3/8	4-1/2"	801-9002*
3/8	8	801-9006
1/2	8	801-9008

### Flex head



Drive (in.)	Overall Length	Order No.
1/4	6"	801-9014
3/8	5	801-9012*
3/8	10	801-9016
1/2	10	801-9018

\* Stubby

## Stair Set Gages

A "must" for fast, accurate layout of angles for stair stringers, roof framing and other bevel cut. Clamp to framing square for repetitive layout such as stairs and rafters.



Order No. 830-3047

## Door Lock Hole Reforming Tool

- For repair of damaged door lock apertures.
- Suitable for flush fitting or recessed lock holes.



Order No. 830-3045

## Knife Hone and Holder

Durable wooden body holds two square hones and provides a guide for perfect edges. After a few light.Short strikes your jointer or planer will be up and running. 180 and 400 grit.



Order No. 318-0006

## Corner Chisel

A slight hammer tap could give you perfect corners every time. Perfect for hinge plates. 5/8" working depth 3/8" cutting edge



Order No. 830-0000

## 2 Piece Nut Splitter Set

Remove frozen or rusted nuts easily without damaging the bolt threads. Use the 3-3/4" splinter on nuts from 1/8" to 5/8" and the 4-3/4" splitter on nuts from 3/8" to 1"



Order No. 318-0005

### Bushing & Bearing Drive Set

For removing or inserting bushings and bearings. You get 4-3/4", 5-3/4" and 7" drivers with lock nuts and 16 adapters ranging in size from 7/16" to 1-3/8" O.D. and 3/8" to 1-1/4" L.D. Fitted storage case.



Order No. 209-9020

### Pin Vise Set

4 Pieces Set, includes:  
1 each size of  
0-1mm, .8-1.5mm, 1.3-3.1mm, 3-4.8mm



Order No. 830-3104

### Trammel Head Set

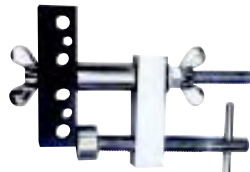
- Used for laying out and scribing large circles.
- Includes 2 trammel heads, 2 small points(6"/150mm).
- heads will accommodate beams from 3/4" to 1-1/2" in width.



Order No. 830-3048

### Doweling Jig

This tool is an attachment for wood working machine. It is well designed for drilling, it could be adjusted height based on the height of work piece.



Order No. 830-4000

### Doweling Jig

- Automatic self-centering.
- Clamp onto workpieces for precise right angle drilling.
- Drill Sizes: 1/4" 5/16", 3/8", 7/16" and 1/2".
- Hole sizes are permanently cast and will no wear out.
- Designed to accommodate drilling for dowel pins requiring exact alignment.



Order No. 830-3000

### Handled Doweling Jigs

#### 3 in 1 Doweling Jig

Makes T and L joints, makes edge to edge joints for 1/4", 5/16" and 3/8" dowels.



Order No. 830-3007

#### One Step Universal Doweling Jig

For 1/4", 5/16" and 3/8" dowels. this jig drills holes at same time in both workpieces with accurate alignment of matching holes.



Order No. 830-3008

### 14 Pc. Slide Hammer and Puller Set

A complete set of pullers for light duty pulls, easily handles bushings, seals, sleeves, bearings, bronze or oilite bushings, dents and pressed in bolts.  
Set includes: 2 large jaws, 2 small jaws, 2 jaw pins, slide hammer (2lbs.), jaw holder, grease retainer adapter, bearing hook, body dent adapter, 1/4stud adapter, tapered screw and carrying case.



Order No. 830-3050

### Hole Saw Arbors



0102 0105 0108 0111 0114 0117 0120 0123 402-0171 402-0174 402-0180 402-0196 402-0194 402-0198 402-0177 402-0199

### Arbors

Shank Dia.	Chuck Size	Thread	Fits to Hole Saws	Order No.
1/4Round	1/4	1/2-20UNF	9/16-1-3/16	402-0102
3/8Hex	3/8	1/2-20UNF	9/16-1-3/16	402-0105
7/16Hex	1/2	1/2-20UNF	9/16-1-3/16	402-0108
7/16Hex	1/2	5/8-18UNF	1-1/4-8	402-0111
7/16Hex	1/2	5/8-18UNF	1-1/4-8	402-0114
3/8Hex	3/8	5/8-18UNF	1-1/4-8	402-0117
7/16Hex	1/2	5/8-18UNF	1-1/4-8	402-0120
5/8Hex	3/4	5/8-18UNF	1-1/4-8	402-0123
7/16Hex	1/2	1/2-20UNF	9/16-1-3/16	402-0126
SDS plus	SDS	1/2-20UNF	9/16-1-3/16	402-0129
SDS plus	SDS	5/8-18UNF	1-1/4-8	402-0132
7/16 Hex	1/2	5/8-18UNF	1-1/4-8	402-0135
3/8 Hex	3/8	5/8-18UNF	1-1/4-8	402-0138
7/16 Hex	1/2	5/8-18UNF	1-1/4-8	402-0142
1/4	3 Flats	1/2-20UNF	9/16-1-3/16	402-0146
1/4	3 Flats	5/8-18UNF	1-1/4-8	402-0150

### Accessories

Description	Order No.
Adapter for Arbors 402-0102 to 402-0105	402-0171
Spring	402-0174
Hexagonal Wrench	402-0177
Extension Shank, 5-1/2"(140mm)	402-0180
Extension Shank, 10"(250mm)	402-0183
Extension Shank, 12"(300mm)	402-0186
Extension Shank, 18"(450mm)	402-0189
1/4" HSS Pilot Drill, 75mm Length	402-0194
1/4" HSS Pilot Drill, 104mm Length, Round Shank	402-0196
1/4" HSS Pilot Drill, 104mm Length, 1 Flat Shank	402-0198
1/4" HSS Pilot Drill, 104mm Length, 3 Flat Shank	402-0199

## 3 Jaw Pilot Bearing Puller

The puller will not tilt bearings and damage race, removes all sleeve type bearings between 1/2" and 1-1/2" (12mm-38mm) inside diameter quickly and easily. Use this compact puller on flywheel pilot bearings, pump bearings, autos, generator/starter bearings, trucks, and tractors. Also useful on motor-cycles and bicycle.



Order No. 830-2018

## Screw Extractors & Sets

### Spiral Flute

For removing broken screws, bolts, studs, and pipes



No.	Screw and Bolt Size	Size Drill to Use	Carbon Steel Order No.	Alloy Steel Order No.
1#	3/32—5/32"	5/64"	312-8901	312-8921
2#	5/32—7/32"	7/64"	312-8902	312-8922
3#	7/32—9/32"	5/32"	312-8903	312-8923
4#	9/32—3/8"	1/4"	312-8904	312-8924
5#	3/8—5/8"	17/64"	312-8905	312-8925
6#	5/8-7/8"	13/32"	312-8906	312-8926
7#	7/8—1-1/8"	17/32"	312-8907	312-8927
8#	1-1/8—1-3/8"	13/16"	312-8908	312-8928
9#	1-3/8—2"	1-1/16"	312-8909	312-8929
10#	2-1/8—2-1/2"	1-5/16"	312-8910	312-8930
11#	2-1/2—3"	1-17/32"	312-8911	312-8931
5pcs/set (#1-5) in Plastic case.			312-8900	312-8920

## High Speed Hand Hacksaw Blades

Length	Width	Teeth per Inch		M2 HSS Order No.	Alloy Steel Order No.
		Inch	Thickness		
10"	1/2"	18	.025"	402-7568	402-8568
10"	1/2"	24	.025"	402-7572	402-8572
10"	1/2"	32	.025"	402-7576	402-8576
12"	1/2"	14	.025"	402-7625	402-8525
12"	1/2"	18	.025"	402-7629	402-8529
12"	1/2"	24	.025"	402-7633	402-8533
12"	1/2"	32	.025"	402-7637	402-8537

## High Speed Power Hacksaw Blades

### M2 HSS

Length	Width	Teeth per Inch	Order No.
12"	1"	10	401-0123
12"	1"	14	401-0126
14"	1"	10	401-0141
14"	1"	14	401-0144
14"	1-1/4"	6	401-0147
14"	1-1/4"	10	401-0149
17"	1"	10	401-0172
17"	1"	14	401-0175
17"	1-1/4"	6	401-0177
17"	1-1/4"	10	401-0179
18"	1-1/2"	4	401-0180
18"	1-1/2"	6	401-0183
18"	1-3/4"	6	401-0185
21"	1-3/4"	4	401-0212
21"	1-3/4"	6	401-0215
24"	2"	4	401-0244
24"	2"	6	401-0247

## Telescoping Magnetic Mirror & Pen



Specification	Order No.
Mirror Size: 2"x3.5", Stem Length: $\phi$ 10x 550	810-0201
Mag. Force: 1 Lbs, Stem Length: $\phi$ 10x 510	810-0202
2Pcs Set	810-0203



Specification	Order No.
Mirror Size: $\phi$ 2", Stem Length: $\phi$ 10x 750	810-0204
Mag. Force: 5 Lbs, Stem Length: $\phi$ 10x 658	810-0205
2Pcs Set	810-0206



Specification	Order No.
Mirror Size: $\phi$ 1.25", Stem Length: $\phi$ 8x 502	810-0207
Mag. Force: 1 Lbs, Stem Length: $\phi$ 8x 475	810-0208
2Pcs Set	810-0209



Size	Magnetic Force	Order No.
$\phi$ 7x 635	1.5 Lbs	810-0210
$\phi$ 9x 535	2 Lbs	810-0211
$\phi$ 10x 610	5 Lbs	810-0212
$\phi$ 10x 615	8Lbs	810-0213
$\phi$ 10x 615	10Lbs	810-0214



Size	Magnetic Force	Order No.
$\phi$ 8x 710	1 Lbs	810-0215
$\phi$ 7x 650		810-0216
$\phi$ 9x 620		810-0217

## Magnetic Safe Catcher

- Using it get workpiece when operating pressure machine
- Handle length 220mm



Magnetic Force	Dimension	Order No.
0.7Kg/1.5Lbs	$\phi$ 15x25mm	810-0026
2.5Kg/5.5Lbs	$\phi$ 20x25mm	810-0027
5Kg/11Lbs	$\phi$ 25x25mm	810-0028



## Battery Chargers

- Input Voltage: AC220V /50Hz or AC 110V /60Hz.
- Over-current protection.
- 6V/12V or 12V/24V Selector switch.
- High-low/speed selector switch.



Order No.853-2042



Order No.853-2043



Order No.853-2059

Output Voltage	Output Current	Input 110V Order No.	Input 220V Order No.
DC12V	6A	853-2041	853-2051
DC12V	10A	853-2042	853-2052
DC12V/24V	10A	853-2043	853-2053
DC12V/24V	15A	853-2044	853-2054
DC12V/24V	30A	853-2045	853-2055
DC6V/12V	4A	853-2046	853-2056
DC6V/12V	6A	853-2047	853-2057
DC6V/12V	12A	853-2048	853-2058
DC6V/12V	20A	853-2049	853-2059

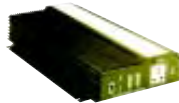
## DC/AC Inverters

The DC/AC Inverter converts the car purpose DC power or other DC powers into a standard household purpose power, suitable for the majority of AC-using appliances, for instance, computer, fax machine, printer, monitor, cell telephone, illuminating lights and audio video units.

- Applies a high frequency switch alteration technique to generate AC power.
- 12V or 24V Input Voltage.
- AC220V /50Hz or AC 110V /60Hz output voltage.
- Input over outage and overload protection.
- Output overload protection, alarm function.
- Overheat protection.
- LED alarm indication.



Order No.853-2002



Order No.853-2005 Order No.853-2006

Output Continuous	Output Peak	Output Surge	Output 110V Order No.	Output 220V Order No.
150W	180W	200W	853-2001	853-2011
200W	230W	250W	853-2002	853-2012
300W	360W	400W	853-2003	853-2013
500W	600W	700W	853-2004	853-2014
1000W	1200W	1400W	853-2005	853-2015
1500W	1700W	2000W	853-2006	853-2016

## DC/AC Converts

Features direct DC/AC Inverter and UPS, automatically switch to battery power when DC power fails.

- Input Voltage: DC12V.
- Output Voltage: AC220V /50Hz or AC 110V /60Hz
- Input current limit protection, or over voltage protection.
- Output current limit protection.
- Audio alarm function.



Order No.853-2026 Order No.853-2033

### Single Socket

Output Power	Output 110V Order No.	Output 220V Order No.
200W	853-2021	853-2025
400W	853-2022	853-2026
500W	853-2023	853-2027
1000W	853-2024	853-2028

### UPS Model, Dual Sockets

Output Power	Output 110V Order No.	Output 220V Order No.
550W	853-2031	853-2035
750W	853-2032	853-2036
1000W	853-2033	853-2037
1200W	853-2034	853-2038

## Alkaline & Super Heavy Duty Batteries

### Alkaline

Type	QTY		Packing	Order No.
D	1.5V	2	Blister-Pack	853-6001
C	1.5V	2	Blister-Pack	853-6003
AA	1.5V	4	Blister-Pack	853-6005
AAA	1.5V	4	Blister-Pack	853-6007
9V	9V	1	Blister-Pack	853-6009
D	1.5V	2	Shrink Pack	853-6011
C	1.5V	2	Shrink Pack	853-6013
AA	1.5V	4	Shrink Pack	853-6015
AAA	1.5V	4	Shrink Pack	853-6017
9V	9V	1	Shrink Pack	853-6019
D	1.5V	12	Shrink Pack	853-6021
C	1.5V	24	Shrink Pack	853-6023
AA	1.5V	20	Shrink Pack	853-6025
AAA	1.5V	20	Shrink Pack	853-6027
9V	9V	12	Shrink Pack	853-6029



### Super Heavy Duty

Type	QTY		Packing	Order No.
D	1.5V	2	Blister-Pack, PVC Jacket	853-6100
D	1.5V	2	Blister-Pack, Metal Jacket	853-6101
C	1.5V	2	Blister-Pack, PVC Jacket	853-6102
C	1.5V	2	Blister-Pack, Metal Jacket	853-6103
AA	1.5V	4	Blister-Pack, PVC Jacket	853-6105
AAA	1.5V	4	Blister-Pack, PVC Jacket	853-6107
9V	9V	1	Blister-Pack, Metal Jacket	853-6109
D	1.5V	2	Shrink-Pack, PVC Jacket	853-6110
D	1.5V	2	Shrink-Pack, Metal Jacket	853-6111
C	1.5V	2	Shrink-Pack, PVC Jacket	853-6112
C	1.5V	2	Shrink-Pack, Metal Jacket	853-6113
AA	1.5V	4	Shrink-Pack, PVC Jacket	853-6115
AAA	1.5V	4	Shrink-Pack, PVC Jacket	853-6117
9V	9V	1	Shrink-Pack, Metal Jacket	853-6119

## Digital Battery Testers

Large LCD display for easy reading  
 One 1.55V silver oxide cell battery  
 Auto power on/off  
 Can test battery of full size:  
 D, AA, AAA, and 9V 6F22  
 Dimension: 89x27x28mm  
 Range: 0-1.5V/0-9V  
 Working temp: -5-40 Degree



Order No.853-0011

Large LCD display for easy reading  
 One 1.55V silver oxide cell battery  
 Auto power on/off  
 Can test battery of full size:  
 C, AA, AAA, D, N, 9V 6F22 and 1.55V button cell  
 Dimension: 92x64x13mm  
 Range: 0-1.5V/0-9V  
 Working temp: -5-40 Degree  
 Storage temp: -20-70Degree



Order No.853-0012



## Pneumatic Screw Drivers

Description	Order No. 199-4005	Order No. 199-4006
Working Pressure	0.63MPA	0.63MPA
Free Speed(rpm)	8700	8700
No-Load Air	0.38stere/min	7.2L/s
Consumption		
Accumulate Torque	12.74Nm/2s	20Nm/2s
Noise	88dB(A)	88dB(A)
Capacity	M5	M5
Weight	0.85kg	0.85kg

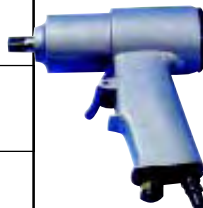


Description	Order No. 199-4007	Order No. 199-4008	Order No. 199-4009
Working Pressure	0.63MPA	0.63MPA	0.63MPA
Free Speed(rpm)	6000	<=14000	10000-14000
No-Load Air	11L/S	<=10L/S	<=10L/S
Consumption			
Accumulate Torque	50Nm/2s	>=25Nm/2s	>=45Nm/2s
Noise	88dB(A)	88dB(A)	90dB(A)
Capacity	M6	M5	M5
Weight	1kg	0.96kg	1kg



## Pneumatic Wrenches

Description	Order No. 199-4015	Order No. 199-4016
Working Pressure	0.63MPA	0.63MPA
Free Speed	6000rpm	10000rpm
No-Load Air	11L/S	11L/S
Consumption		
Accumulate Torque	60Nm/2s	50Nm/2s
Noise	88dB(A)	90dB(A)
Capacity	M8	M8
Side to Center Distance	22.5mm	22.5mm
Weight		1.1kg



## Press Riveter

Description	
Working Pressure	0.49MPA
Thrust Produced by Transmission Tube	245kg
Maximum Press Rivet Force	39200N
Piston Stroke	70mm
Press Rivet Head Stroke	7.5mm
Rivet Diameter	5
Weight	3.3kg



Order No.199-4025

## Engraving Stylus

Description	
Working Pressure	0.49MPA
Free Frequency	217Hz
Engraving Depth	0.1-0.3mm
No-Load Air	0.33L/S
Consumption	
Noise	80dB(A)
Hose Diameter	4.5
Weight	0.07kg



Order No.19-4020

## Tire Inflating Gun

- Designed for the measurement of tire pressure of bikes, motorcycles, cars.
- Measurement rang 0-140 psi, 0-10Bar



View of Press Indicator



Order No. 106-1280

## Blow Guns

### Thumb Lever Action, Short type

This is mainly used for blowing off dust and metal particles

- Duster Gun
- Rated Pressure: 0.2-0.4 Mpa
- Max. Pressure: <=8 kg/cm<sup>2</sup>

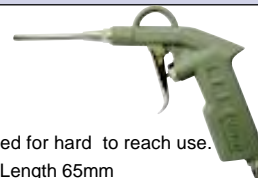
### Order No. 397-600S

Air Blow Gun  
with 25Ft 1/4" Air Hose, (2x1/4"NPT Coupler)



### Order No. 106-1097

## Air Duster Guns



- Designed for hard to reach use. Nozzle Length 65mm
- Fitted Plastic Handle.

### Order No. 106-1091



- Solid conical tip Prevents blockage of nozzle. Nozzle Length 10mm
- Fitted Plastic Handle.

### Order No. 106-1090

## Cleaning Spray Gun

- Extension Tip for hard to reach place.
- Applies high pressure jet of water, detergent, or degreaser.



Order No. 106-1001

## 5 Piece Gun Set

Include one of each  
Air Gun, Model No.106-1090.  
Cleaning Spray Gun, Model No. 106-1001  
Tire Inflating Gun, Model No.106-1280  
Spray Gun-Bottom Cup Style  
Rubber Hose



Order No. 106-1305

### Spray Guns-Bottom Cup Style

- Sprays latex, enamel lacquer stain for general purpose painting jobs.
- 1000cc, Bottom Cup
- Adjustable Spray Control.
- Simple and easy maintenance.

Size of Spray Nozzle	Bayonet Lock Order No.	Cam Lock Order No.
1.0mm	106-0010	106-0110
1.2mm	106-0012	106-0112
1.4mm	106-0014	106-0114
1.5mm	106-0015	106-0115
1.6mm	106-0016	106-0116
1.8mm	106-0018	106-0118
2.0mm	106-0020	106-0120
2.2mm	106-0022	106-0122
2.5mm	106-0025	106-0125
3.0mm	106-0030	106-0130
4.0mm	106-0040	106-0140



### Spray Guns-Top Cup Style

- Sprays latex, enamel lacquer stain for general purpose painting jobs.
- Adjustable Spray Control.
- Simple and easy maintenance.



Size of Spray Nozzles	500cc. Cup Order No.	750cc. Cup Order No.	1000cc. Cup Order No.
1.0mm	106-0310	106-0410	106-0510
1.2mm	106-0312	106-0412	106-0512
1.4mm	106-0314	106-0414	106-0514
1.5mm	106-0315	106-0415	106-0515
1.6mm	106-0316	106-0416	106-0516
1.8mm	106-0318	106-0418	106-0518
2.0mm	106-0320	106-0420	106-0520
2.2mm	106-0322	106-0422	106-0522
2.5mm	106-0325	106-0425	106-0525
3.0mm	106-0330	106-0430	106-0530
4.0mm	106-0340	106-0440	106-0540

### Spray Guns-Liquid Supply Hose Style

- Sprays latex, enamel lacquer stain for general purpose painting jobs.
- 8X17mm Painting Supply Rubber Hose
- Adjustable Spray Control.
- Simple and easy maintenance.

Size of Spray Nozzle	Order No.
1.0mm	106-0210
1.2mm	106-0212
1.4mm	106-0214
1.5mm	106-0215
1.6mm	106-0216
1.8mm	106-0218
2.0mm	106-0220
2.2mm	106-0222
2.5mm	106-0225
3.0mm	106-0230
4.0mm	106-0240



### Spray Guns-Bottom Cup Style

#### Low Pressure Type Without Adjustable Spray Control

- Sprays latex, enamel lacquer stain for general purpose painting jobs.
- Simple and easy maintenance.



Size of Spray Nozzle	Order No.
1.25mm	106-0725

### Spray Guns-Bottom Cup Style

#### Without Adjustable Spray Control

- Sprays latex, enamel lacquer stain for general purpose painting jobs.
- 750cc. Painting Cup.
- Simple and easy maintenance.

Size of Spray Nozzl	Order No.
1.2mm	106-0612
1.5mm	106-0615
1.8mm	106-0618



### Accessory For Spray Guns

#### Needle-Nozzle-Cap Sets

Size	Order No.
0.5mm	106-0805
0.7mm	106-0807
1.0mm	106-0810
1.2mm	106-0812
1.4mm	106-0814
1.5mm	106-0815
1.6mm	106-0816
1.8mm	106-0818
2.0mm	106-0820
2.2mm	106-0822
2.5mm	106-0825
3.0mm	106-0830
4.0mm	106-0840

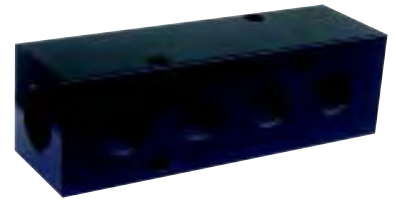


## Manifolds

### Pneumatic & Hydraulic Applications

Designed for the distribution of air and fluids in pneumatic and hydraulic applications. They can be used when a convenient, effective, and attractive connection is needed.

- Manufactured from 16061 aluminum
- Black anodized finish
- All port NPT
- Pre-drilled mounting holes for easy installation
- Two inlets, one each end
- Pressure ratings: air 1000psi, non-shock hydraulic 3000 psi
- Temperature range: -10° to +200°F



No. of Outlets	Inlet		Outlet		Outlets			Order No.
	Size(in.)	Size(in.)	OAL	W(in.)	Ht. & Ctr. to Ctr.	Dist	Mounting Hole Size	
2	1/4	1/8	1.75	1.00	0.75	0.17	<b>106-0911</b>	
2	1/4	1/8	3.25	1.00	1.50	0.17	<b>106-0912</b>	
2	3/8	1/8	2.37	1.25	0.88	0.20	<b>106-0913</b>	
2	3/8	1/8	3.25	1.25	1.50	0.20	<b>106-0914</b>	
2	3/8	1/4	2.37	1.25	0.88	0.20	<b>106-0915</b>	
2	3/8	1/4	3.25	1.25	1.50	0.20	<b>106-0916</b>	
2	1/2	1/4	2.37	1.50	1.00	0.20	<b>106-0917</b>	
2	1/2	1/4	3.25	1.50	1.50	0.20	<b>106-0918</b>	
2	1/2	3/8	2.75	1.50	1.00	0.20	<b>106-0919</b>	
2	1/2	3/8	3.25	1.50	1.50	0.20	<b>106-0920</b>	
3	1/4	1/8	2.5	1.00	0.75	0.17	<b>106-0921</b>	
3	1/4	1/8	4.75	1.00	1.50	0.17	<b>106-0922</b>	
3	3/8	1/8	3.25	1.25	0.88	0.20	<b>106-0923</b>	
3	3/8	1/8	4.75	1.25	1.50	0.20	<b>106-0924</b>	
3	3/8	1/4	3.25	1.25	0.88	0.20	<b>106-0925</b>	
3	3/8	1/4	4.75	1.25	1.50	0.20	<b>106-0926</b>	
3	1/2	1/4	3.75	1.50	1.00	0.20	<b>106-0927</b>	
3	1/2	1/4	4.75	1.50	1.50	0.20	<b>106-0928</b>	
3	1/2	3/8	3.75	1.50	1.00	0.20	<b>106-0929</b>	
3	1/2	3/8	4.75	1.50	1.50	0.20	<b>106-0930</b>	
4	1/4	1/8	3.25	1.00	0.75	0.17	<b>106-0931</b>	
4	1/4	1/8	6.25	1.00	1.50	0.17	<b>106-0932</b>	
4	3/8	1/8	4.12	1.25	0.88	0.20	<b>106-0933</b>	
4	3/8	1/8	6.25	1.25	1.50	0.20	<b>106-0934</b>	
4	3/8	1/4	4.12	1.25	0.88	0.20	<b>106-0935</b>	
4	3/8	1/4	6.25	1.25	1.50	0.20	<b>106-0936</b>	
4	1/2	1/4	4.75	1.50	1.00	0.20	<b>106-0937</b>	
4	1/2	1/4	6.25	1.50	1.50	0.20	<b>106-0938</b>	
4	1/2	3/8	4.75	1.50	1.00	0.20	<b>106-0939</b>	
4	1/2	3/8	6.25	1.50	1.50	0.20	<b>106-0940</b>	
5	1/4	1/8	4	1.00	0.75	0.17	<b>106-0941</b>	
5	1/4	1/8	7.5	1.00	1.50	0.17	<b>106-0942</b>	
5	3/8	1/8	5	1.25	0.88	0.20	<b>106-0943</b>	
5	3/8	1/8	7.5	1.25	1.50	0.20	<b>106-0944</b>	
5	3/8	1/4	5	1.25	0.88	0.20	<b>106-0945</b>	
5	3/8	1/4	7.75	1.25	1.50	0.20	<b>106-0946</b>	
5	1/2	1/4	5.75	1.50	1.00	0.20	<b>106-0947</b>	
5	1/2	1/4	7.75	1.50	1.50	0.20	<b>106-0948</b>	
5	1/2	3/8	5.75	1.50	1.00	0.20	<b>106-0949</b>	
5	1/2	3/8	7.75	1.50	1.50	0.20	<b>106-0950</b>	
5	1/4	1/8	4.75	1.00	0.75	0.17	<b>106-0951</b>	
6	1/4	1/8	9.25	1.00	1.50	0.17	<b>106-0952</b>	
6	3/8	1/8	5.88	1.25	0.88	0.20	<b>106-0953</b>	
6	3/8	1/8	9.25	1.25	1.50	0.20	<b>106-0955</b>	
6	3/8	1/4	5.88	1.25	0.88	0.20	<b>106-0954</b>	

No. of Outlets	Inlet		Outlet		Outlets			Order No.
	Size(in.)	Size(in.)	OAL	W(in.)	Ht. & Ctr. to Ctr.	Dist	Mounting Hole Size	
6	3/8	1/4	9.25	1.25	1.50	0.20	<b>106-0956</b>	
6	1/2	1/4	6.75	1.50	1.00	0.20	<b>106-0957</b>	
6	1/2	1/4	9.25	1.50	1.50	0.20	<b>106-0958</b>	
6	1/2	3/8	6.75	1.50	1.00	0.20	<b>106-0959</b>	
6	1/2	3/8	9.25	1.50	1.50	0.20	<b>106-0960</b>	
6	1/4	1/8	5.5	1.00	0.75	0.17	<b>106-0961</b>	
7	1/4	1/8	10.75	1.00	1.50	0.17	<b>106-0962</b>	
7	3/8	1/8	6.75	1.25	0.88	0.20	<b>106-0963</b>	
7	3/8	1/8	10.75	1.25	1.50	0.20	<b>106-0964</b>	
7	3/8	1/4	6.75	1.25	0.88	0.20	<b>106-0965</b>	
7	3/8	1/4	10.75	1.25	1.50	0.20	<b>106-0966</b>	
7	1/2	1/4	7.75	1.50	1.00	0.20	<b>106-0967</b>	
7	1/2	1/4	10.75	1.50	1.50	0.20	<b>106-0968</b>	
7	1/2	3/8	7.75	1.50	1.00	0.20	<b>106-0969</b>	
7	1/2	3/8	10.75	1.50	1.50	0.20	<b>106-0970</b>	
7	1/4	1/8	6.25	1.00	0.75	0.17	<b>106-0971</b>	
8	1/4	1/8	12.25	1.00	1.50	0.17	<b>106-0972</b>	
8	3/8	1/8	7.62	1.25	0.88	0.20	<b>106-0973</b>	
8	3/8	1/8	12.25	1.25	1.50	0.20	<b>106-0974</b>	
8	3/8	1/4	7.62	1.25	0.88	0.20	<b>106-0975</b>	
8	3/8	1/4	12.25	1.25	1.50	0.20	<b>106-0976</b>	
8	1/2	1/4	8.75	1.50	1.00	0.20	<b>106-0977</b>	
8	1/2	1/4	12.25	1.50	1.50	0.20	<b>106-0978</b>	
8	1/2	3/8	8.75	1.50	1.00	0.20	<b>106-0979</b>	
8	1/2	3/8	12.25	1.50	1.50	0.20	<b>106-0980</b>	
8	1/4	1/8	7	1.00	0.75	0.17	<b>106-0981</b>	
9	1/4	1/8	13.75	1.00	1.50	0.17	<b>106-0982</b>	
9	3/8	3/8	8.5	1.25	0.88	0.20	<b>106-0983</b>	
9	3/8	3/8	13.75	1.25	1.50	0.20	<b>106-0984</b>	
9	3/8	1/4	8.5	1.25	0.88	0.20	<b>106-0985</b>	
9	3/8	1/4	13.75	1.25	1.50	0.20	<b>106-0986</b>	
9	1/2	1/4	9.75	1.50	1.00	0.20	<b>106-0987</b>	
9	1/2	1/4	13.75	1.50	1.50	0.20	<b>106-0988</b>	
9	1/2	3/8	9.75	1.50	1.00	0.20	<b>106-0989</b>	
9	1/2	3/8	13.75	1.50	1.50	0.20	<b>106-0990</b>	
10	1/4	1/8	7.75	1.00	0.75	0.17	<b>106-0991</b>	
10	1/4	1/8	15.25	1.00	1.50	0.17	<b>106-0992</b>	
10	3/8	1/8	9.38	1.25	0.88	0.17	<b>106-0993</b>	
10	3/8	1/8	15.25	1.25	1.50	0.20	<b>106-0994</b>	
10	3/8	1/4	9.38	1.25	0.88	0.20	<b>106-0995</b>	
10	3/8	1/4	115.3	1.25	1.50	0.20	<b>106-0996</b>	
10	1/2	1/4	10.75	1.50	1.00	0.20	<b>106-0997</b>	
10	1/2	1/4	15.25	1.50	1.50	0.20	<b>106-0998</b>	
10	1/2	3/8	10.75	1.50	1.00	0.20	<b>106-0999</b>	
10	1/2	3/8	15.25	1.50	1.50	0.20	<b>106-1000</b>	

## Air Compressors

- Capable of handling most pneumatic tools.
- Lightweight and a low center of gravity.
- The compressors are direct drive and have a long life against wear and tear due to low coefficient of friction.
- 1/4" NPT pressure regulator.
- Brass and copper fittings.



### 2.6 Gallon Pancake Tank

Motor ....1.5HP; 120V; 9AMPS; Universal Type  
 Pressure Max.....115psi  
 Tank Size.....2.6 Gallon Pancake Tank  
 Capacity @ 90psi.....3.1 CFM  
 Capacity @ 115psi.....2.9 CFM  
 NW./GW..... 12 / 13.5 Kg  
 Packing Size ..... 400x390x480(mm)

Order No.199-6026



### 4 Gallon Pancake Tank

Motor ...2.0HP; 115V; 60Hz,14AMPS; 3450RPM  
 Tank Size.....4 Gallon Tank  
 Capacity @ 90psi.....5.6CFM  
 Capacity @ 115psi.....4.5CFM  
 NW/GW......23/24.5kg  
 Packing Size .....395x375x660(mm)

Order No.199-6040



### 6.5 Gallon Hot Dog Tank Type 2

Motor ...2.5HP; 120V; 60Hz,15AMPS; 3400RPM  
 Pressure Max.....115psi  
 Tank Size.....6.5Gallon Tank  
 Capacity @ 90psi.....6.1CFM  
 Capacity @115psi.....4.7CFM  
 NW./ GW......27/29 Kg  
 Packing Size (LxWxH).....630x325x700(mm)

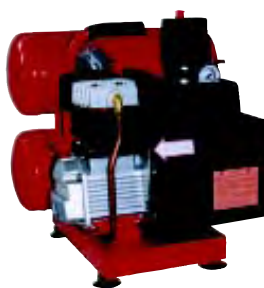
Order No.199-6066



### 6.5 Gallon Hot Dog Tank Type 1

Motor ...2.5HP; 120V; 60Hz,15AMPS; 3400RPM  
 Pressure Max.....115psi  
 Tank Size.....6.5 Gallon Tank  
 Capacity @ 90 psi.....6.0 CFM  
 Capacity @ 115 psi.....4.6CFM  
 NW./ GW......27 /29 Kg  
 Packing Size (LxWxH)..... 630x330x630(mm)

Order No.199-6065



### Stack Tank

Motor .....2.0HP; 120V; 60Hz,14AMPS; 3400RPM  
 Pressure Max.....115psi  
 Tank Size.....4.6 Gallon Twins Tank  
 Capacity @ 90psi.....5.6 CFM  
 Capacity @ 115psi.....4.5 CFM  
 NW./GW......24 / 26 Kg  
 Packing Size .....480x440x465(mm)

Order No.199-6046



### 10 Gallon Hot Dog Tank

Motor ...2.5HP; 120V; 60Hz,15AMPS; 3400RPM  
 Pressure Max.....115psi  
 Tank Size.....10 Gallon Tank  
 Capacity @ 90psi.....6.1CFM  
 Capacity @ 115psi.....4.7CFM  
 NW./ GW......34/37 Kg  
 Packing Size (LxWxH).....630x360x760(mm)

Order No.199-6010



### Oil Free Air Compressor

- The exhaust of the pressure can be adjusted.
- Motor .....1.0HP; 120V; 9AMPS  
 Pressure Max.....125psi  
 Tank Size.....4 Gallon Tank  
 Capacity @ 40psi.....3.7CFM  
 Capacity @ 90psi.....2.6CFM  
 NW/GW......5.3/6kg  
 Packing Size ..... 385x270x285(mm)

Order No.199-6001

## Magnifier Lamps



- AC120/230V, 3 Diopter, Power is 1.75X.
- Large Lens of 7.5x6.2" (190x158mm) size rectangular feature:  
Two 9W H Shape fluorescent bulb (Energy Saving Model)
- Small Len Size :7x5.2", rectangular feature:  
Two 7W H Shape fluorescent bulb (Energy Saving Model)

### C-Clamp Model

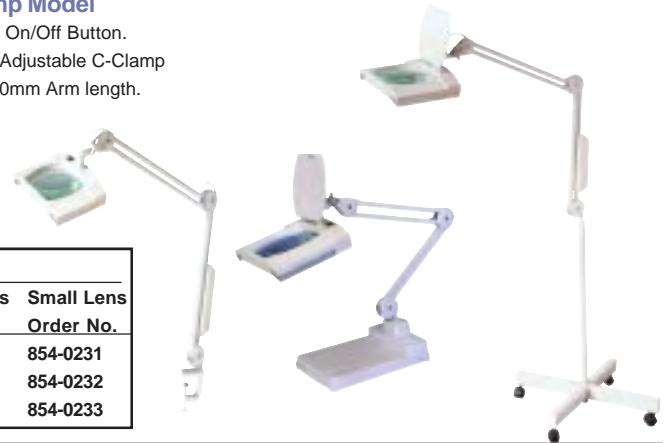
- Single On/Off Button.
- 2-1/2" Adjustable C-Clamp
- 32"/800mm Arm length.

### Weighted Base Model

- 9.9lbs/4.5kg Plastic Weighted Base.
- 24"/600mm Arm length.

### Pedestal Base Model

- 27"/690mm Pedestal Length
- 32"/800mm Arm length.



Color	Large Lens		Small Lens		Large Lens		Small Lens	
	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.	
Light Grey	854-0101	854-0201	854-0141	854-0241	854-0131	854-0231		
White	854-0102	854-0202	854-0142	854-0242	854-0132	854-0232		
Black	854-0103	854-0203	854-0143	854-0243	854-0133	854-0233		

## Handled Peach Head Magnifier Lamps

### with 5"/127mm Round Lens

AC120/230V, 3 Diopter, Power is 1.75X  
22W circular fluorescent bulb

- C-Clamp Ballast On Arm
- 27"/690mm Pedestal Length
  - 32"/800mm Arm length.

### Weighted Base

- 9.9lbs/4.5kg Plastic Weighted Base.
- 24"/600mm arm length.

### C-Clamp Ballast On Arm

- 2-1/2" Adjustable C-Clamp
- 32"/800mm Arm length.

### C-Clamp Ballast On Arm

- 2-1/2" Adjustable C-Clamp
- 36"/920mm Arm length.



Color	C-Clamp Ballast On Arm		C-Clamp Ballast In Base	Pedestal Base	Weighted Base
	Order No.	Order No.	Order No.	Order No.	Order No.
Light Grey	854-0521	854-0501	854-0501	854-0571	854-0581
White	854-0522	854-0502	854-0502	854-0572	854-0582
Black	854-0523	854-0503	854-0503	854-0573	854-0583

## Round Head Magnifier Lamps

### with 5"/127mm Round Lens

AC120/230V, 3 Diopter, Power is 1.75X  
a 22W circular fluorescent bulb  
feature lock control at the arm joint.

### C-Clamp Model Ballast On Arm

- 2-1/2" Adjustable C-Clamp
- 32"/800mm Arm length.

### C-Clamp Model Ballast In Base

- 2-1/2" Adjustable C-Clamp
- 36"/920mm Arm length.

### Pedestal Base Model

- 27"/690mm Pedestal length
- 32"/800mm Arm length.

### Weighted Base Model

- 9.9lbs/4.5kg Plastic Weighted Base.
- 24"/600mm Arm length.



Color	C-Clamp Ballast On Arm		C-Clamp Ballast In Base		Pedestal Base Model	Weight Base Model
	without Lens Cover	with Lens Cover	without Lens Cover	with Lens Cover	with Lens Cover	with Lens Cover
	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.
Light Grey	854-0411	854-0431	854-0401	854-0421	854-0471	854-0481
White	854-0412	854-0432	854-0402	854-0422	854-0472	854-0482
Black	854-0413	854-0433	854-0403	854-0423	854-0473	854-0483



## Fluorescence Working Lamps

### Desk Lighting

AC120/230V

Two 15W fluorescent bulb

for Electronic assembly, office and laboratories applications., quality control inspection illumination. Feature weighted base, pedestal Base, clamp bracket.

Arms are consisted of square steel tubes with plastic coating and steel springs .

### C-Clamp Model Ballast In Base

- Square Ballast.
- 36"/920mm Arms.



### Pedestal Base Model

- 27"/690mm Pedestal length
- 32"/800mm Arm length.



### Weighted Base Model

- 9.9lbs/4.5kg Weighted Base.
- 32"/800mm Arms.

### C-Clamp Model Ballast On Arm

- 32"/800mm Arms.



Color	C-Clamp Ballast on Arm Order No.	C-Clamp Ballast in Base Order No.	Weighted Base Order No.	Pedestal Base Order No.
Light Grey	854-0621	854-0601	854-0641	854-0631
White	854-0622	854-0602	854-0642	854-0632
Black	854-0623	854-0603	854-0643	854-0633

## Peach Head Magnifier Lamps

with 5"/127mm Round Lens

AC120/230V, 3 Diopter, Power is 1.75X  
22W circular fluorescent bulb

### C-Clamp Model

- 2-1/2" Adjustable C-Clamp
- 32"/800mm Arm length.



### Weighted Base Model

- 9.9lbs/4.5kg Plastic Weighted Base.
- 24"/600mm Arm length.



### Pedestal Base Model

- 27"/690mm Pedestal length
- 32"/800mm Arm length.



Color	C-Clamp Order No.	Weighted Base Order No.	Pedestal Base Order No.
Light Grey	854-0301	854-0341	854-0331
White	854-0302	854-0342	854-0332
Black	854-0303	854-0343	854-0333

## LED Working Light

96pcs LED Light

9.6V 2200mA NI-MH rechargeable battery

AC/DC adaptor

Swivel hook

Extend from 1.15m to 1.8m

**Order No. 852-2096**



48pcs LED Light

Aluminum Bracket

Extend from 1.10m to 1.50m

3m cord with DC 12V plug

**Order No. 852-2048**



1066

LED Working Light

28pcs LED Light

Ni-MH rechargeable battery

AC/DC and DC adaptor

**Order No. 852-2082**



1097

LED Working Light

28pcs LED Light

Ni-MH rechargeable battery

AC/DC and DC adaptor

Strong Magnet

**Order No. 852-2083**



## Working Lights

Include one AC-DC Adaptor & Car Adaptor

### Basic Model



AC 110V/220V, DC 12V, 8W

**Order No. 852-2080**

### with Stand Model



AC 110V/220V, DC 12V, 8W

**Order No. 852-2081**

## Fluorescence Work Lights

Multidirectional hanging hook.



VDE

UL

CE

Description	Order No.
30W, AC110V/220V VDE Plug	852-2100
30W, AC110V/220V UL Plug	852-2101
30W, AC110V/220V CE Plug	852-2102

## LED Spotlights



3W LED Spotlight  
Combined spotlight and lantern function  
Sealed Lead Acid rechargeable battery  
AC/DC and DC adaptor  
Swivel handle

**Order No. 852-0120**



3W LED Spotlight  
Combined spotlight and lantern function  
Warning LED for emergency use  
Sealed Lead Acid rechargeable battery  
AC/DC and DC adaptor  
Swivel handle

**Order No. 852-0121**



3W LED Spotlight  
Dry battery  
**Order No. 852-0122**



3W LED Spotlight  
Sealed Lead Acid rechargeable battery  
AC/DC and DC adaptor  
**Order No. 852-0123**



10pcs LED light  
Sealed Lead Acid rechargeable battery  
AC/DC and DC adaptor  
Dynamo function  
**Order No. 852-0124**



Combined 9pcs LED and 1pc Halogen Bulb  
Sealed Lead Acid rechargeable battery  
AC/DC and DC adaptor  
Dynamo function  
**Order No. 852-0127**

1pc 1W LED light  
Sealed Lead Acid rechargeable battery  
AC/DC and DC adaptor  
Dynamo function

**Order No. 852-0125**

1W LED light  
Sealed Lead Acid rechargeable battery  
AC/DC and DC adaptor  
Dynamo function

**Order No. 852-0128**

1pc 3W LED light  
Sealed Lead Acid rechargeable battery  
AC/DC and DC adaptor

**Order No. 852-0126**

3W LED light  
Sealed Lead Acid rechargeable battery  
AC/DC and DC adaptor

**Order No. 852-0129**

## LED Spotlights



16pcs LED light  
Sealed Lead Acid rechargeable battery  
AC/DC and DC adaptor  
Dynamo function  
5V output for mobile charging

**Order No. 852-0130**



1W and 3W LED light  
Sealed Lead Acid rechargeable battery  
AC/DC and DC adaptor  
5V output for mobile charging

**Order No. 852-0131**

## Rechargeable Spotlights

- Include one AC-DC adaptor, car adaptor & quartz halogen bulb.
- 4"/100mm lens diameter.
- Spotlight Beam brighten up to one mile.

Description	Order No.
0.5Million Candlepower, 6v/25w/H3	852-1050
1Million Candlepower, 6v/55w/H3	852-1100
1Million Candlepower, 6v/5w Bulb, 9 Led Charger	852-1110
	852-1150



## Quartz Halogen Spotlights

- Include one car adaptor & quartz Halogen bulb.
- Complete with locking switch.



Description	Order No.
0.5Million Candlepower, 6v/25w/H3	852-3050
0.75Million Candlepower, 6v/35w/H3	852-3075
1Million Candlepower, 6v/55w/H3	852-3100

## Rechargeable Quartz Halogen Spotlights

- Include one AC-DC adaptor, car adaptor & quartz Halogen Bulb.
- Complete with locking switch.



Description	Order No.
0.5Million Candlepower, 6v/25w/H3	852-4050
0.75Million Candlepower, 6v/35w/H3	852-4075
1Million Candlepower, 6v/55w/H3	852-4100



### Roller Stands



Description	Order No. 150-3016	Order No. 150-3007	Order No. 150-3008	Order No. 150-3010	Order No. 150-3014	Order No. 150-3015
Dia. of Roller	35mm	38mm	38mm	38mm	38mm	38mm
Rollers Number	1	1	1	1	2	2
Height(mm)	620-1050	680-10500	610-1050	710-1150	680-1100	670-1120
Holding Weight	30kg	40kg	45kg	45kg	60kg	50kg
Weight	5.5kg	5.5kg	4.5kg	4.5kg	8kg	7.5kg



Description	Order No. 150-3006	Order No. 150-3002	Order No. 150-3001	Order No. 150-3005	Order No. 150-3020	Order No. 150-3025
Dia. of Roller	50mm	57mm	57mm	57mm	52mm	52mm
Rollers Number	1	1	1	5	1	2
Height(mm)	700-1100	680-1100	680-1140	680-1140	580-970	580-970
Holding Weight	80kg	80kg	80kg	80kg	900kg	900kg
Weight	7kg	9.5kg	9.4kg	16.2kg	20kg	20kg

### Ball Stands



Description	Order No. 150-3030	Order No. 150-3031	Order No. 150-3037	Order No. 150-3035	Order No. 150-3036	Order No. 150-3039
Dia. of Ball	16mm	16mm	25mm	16mm	16mm	25mm
No. of Balls	8	8	8	8	8	8
Height(mm)	660-1110	700-1100	660-1110	680-1130	700-1100	700-1100
Max. Holding Weight	80kg	80kg	80kg	80kg	80kg	80kg
Weight	7.3kg	7.3kg	7.6kg	9.4kg	7kg	9.4kg

### Ball and Roller Stands



Order No. 150-3091

Order No. 150-3092

Description	Order No. 150-3091	Order No. 150-3092
Dia. of Ball	16mm	16mm
Dia. of Roller	57mm	38mm
Height(mm)	720-1140	610-1050
Holding Weight	80kg	50kg
Weight	9.0kg	6.5kg

## Roller Tables



Order No.150-3085



Order No.150-3080



Order No.150-3070

Specifications	
Dia. of Roller	60mm
Number of Rollers	9
Height	650-1050mm
Max. Holding Weight	800kg
Weight	62kg
Table Size	208x50x21cm

Specifications	
Dia. of Roller	57mm
Number of Rollers	9
Height	680-1130mm
Max. Holding Weight	200kg
Weight	56kg
Table Size	173x51x17cm

Description	Order No.150-3070	150-3075
Dia. of Roller	60mm	60mm
Number of Rollers	4	7
Height(mm)	650-1100	650-1100
Max. Holding Weight	400kg	400kg
Weight	52.5kg	75kg
Table Size(cm)	108x47x17	205x47x17

## Ball Transfer Tables

### Light Duty

- Bolted construction easy for transportation, assembly, and table parts replacement.
- Adjustable height from 690-1130mm
- Multi-directional feature.



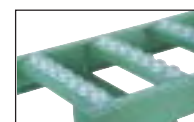
Dia. of Ball	Table Size (mm)	Balls of each Bracket	No. of Brackets	Height (mm)	Max. Holding Weight	Weight	Packing Size (mm)	Order No.
16	1650x492	8	9	690-1130	300kg	43kg	1730x520x195	150-3349
16	1650x692	11	9	690-1130	300kg	52kg	1730x720x195	150-3369
16	1650x892	16	9	690-1130	300kg	61kg	1730x920x195	150-3389
25	1650x492	6	9	690-1130	300kg	52kg	1730x520x195	150-3449
25	1650x692	8	9	690-1130	300kg	64kg	1730x720x195	150-3469
25	1650x892	11	9	690-1130	300kg	77kg	1730x920x195	150-3489

### Heavy Duty

- Bolted construction easy for transportation, assembly, and table parts replacement.
- Adjustable height from 690mm-1070mm
- Multi-directional feature.

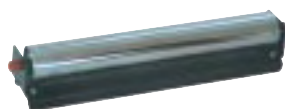


Dia. of Ball	Table Size (mm)	Table No. of Size	Height (mm)	Max. Holding Weight	Weight	Packing Size	Order No.	
25	2000x450	7	9	670-1070	800kg	56kg	2080x480x230	150-3145
25	2000x650	9	9	670-1070	800kg	71.5kg	2080x680x230	150-3165
25	2000x850	12	9	670-1070	800kg	85kg	2080x880x230	150-3185
25	2000x1050	15	9	670-1070	800kg	95kg	2080x1080x230	150-3205



## Light Duty Roller & Bracket Sets

### Light Duty



Description	Order No. 150-3440	Order No. 150-3450	Order No. 150-3461
Dia. of Roller	57mm	57mm	57mm
Length of Rollers	400	500	600
Max. Holding Weight	100kg	100kg	100kg
Weight	2.5kg	3.0kg	3.5kg
Packing Size of 10 PCS	500x455x225	600x455x225	700x455x225

### Heavy Duty



Description	Order No. 150-3436	Order No. 150-3448	Order No. 150-3460
Dia. of Roller	60mm	60mm	60mm
Length of Rollers	360	480	600
Max. Holding Weight	500kg	500kg	500kg
Weight	4kg	5kg	6kg
Packing Size of 10 PCS	455x440x225	560x455x225	680x455x225

## Ball and Bracket Sets

### Light Duty



Description	Order No. 150-3340	Order No. 150-3360	Order No. 150-3380
Dia. of Ball	16mm	16mm	16mm
Length of Bracket	400	600	800
No. of Ball	7	10	13
Max. Holding Weight	100kg	100kg	100kg
Weight	2.2	3.3	4.4
Packing Size of 10 PCS	450x355x265	650x355x265	850x355x265

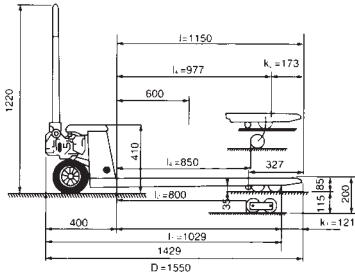
### Heavy Duty



Description	Order No. 150-3240	Order No. 150-3260	Order No. 150-3280
Dia. of Ball	25mm	25mm	25mm
Length of Bracket	400	600	800
No. of Ball	5	8	10
Max. Holding Weight	500kg	500kg	500kg
Weight	2.3	3.5	4.7
Packing Size of 10 PCS	450x380x285	650x380x285	850x380x285

## Hand Pallet Trucks

- A built in overload valve and totally sealed hydraulic pump, seals of hydraulic pump are imported from Germany.
- Heavy duty 1 piece "C" section forks for greatest strength and durability, super strong frame can load Max. 3000kg.
- Two nylon entry and exit rollers prevent physical exertion of the operator and protect load wheels and pallet.
- Load Roller: Single or tandem nylon, polyurethane. steering wheel: nylon, polyurethane, rubber.



(mm)



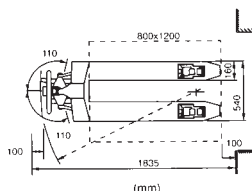
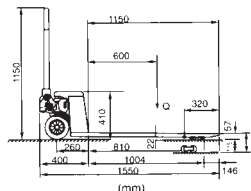
Order No.	838-0201	838-0202	838-0251	838-0252	838-0301	838-0302	838-0221*	838-0222*
Capacity (lbs/kg)	4400/2000	4400/2000	5500/2500	5500/2500	6600/3000	6600/3000	4400/2000	4400/2000
Max. Fork Height	(inch) 7.9"(or7.5") (mm) 200(or 190)	(inch) 7.9"(or7.5") (mm) 200(or 190)	(inch) 7.9"(or7.5") (mm) 200(or 190)	(inch) 7.9"(or7.5") (mm) 200(or 190)	(inch) 7.9"(or7.5") (mm) 200(or 190)	(inch) 7.9"(or7.5") (mm) 200(or 190)	(inch) 7.9"(or7.5") (mm) 200(or 190)	(inch) 7.9"(or7.5") (mm) 200(or 190)
Min. Fork Height	(inch) 3.3"(or2.9") (mm) 85(or 74)	(inch) 3.3"(or2.9") (mm) 85(or 74)	(inch) 3.3"(or2.9") (mm) 85(or 74)	(inch) 3.3"(or2.9") (mm) 85(or 74)	(inch) 3.3"(or2.9") (mm) 85(or 74)	(inch) 3.3"(or2.9") (mm) 85(or 74)	(inch) 3.3"(or2.9") (mm) 85(or 74)	(inch) 3.3"(or2.9") (mm) 85(or 74)
Fork Length (inch/mm)	45.3"/ 1150	48"/ 1220	45.3"/ 1150	48"/ 1220	45.3"/ 1150	48"/ 1220	45.3"/ 1150	48"/ 1220
Width Overall Forks (inch/mm)	21.3"/ 540 6.3"/160	26.8"/ 680 6.3"/160	21.3"/ 540 6.3"/160	26.8"/ 680 6.3"/160	21.3"/ 540 6.3"/160	26.8"/ 680 6.3"/160	21.3"/ 540 6.3"/160	26.8"/ 680 6.3"/160
Individual Fork Width (inch/mm)	φ 3.2(or2.8") φ 82 (or 72)	φ 3.2(or2.8") φ 82 (or 72)	φ 3.2(or2.8") φ 82 (or 72)	φ 3.2(or2.8") φ 82 (or 72)	φ 3.2(or2.8") φ 82 (or 72)	φ 3.2(or2.8") φ 82 (or 72)	φ 3.2(or2.8") φ 82 (or 72)	φ 3.2(or2.8") φ 82 (or 72)
Load Roller Diameter (inch/mm)	Nylon, Polyurethane	Nylon, Polyurethane	Nylon, Polyurethane	Nylon, Polyurethane	Nylon, Polyurethane	Nylon, Polyurethane	Nylon, Polyurethane	Nylon, Polyurethane
Steering Wheel Diameter (inch/mm)	φ 7.9(or7.1") φ 200 (or 180)	φ 7.9(or7.1") φ 200 (or 180)	φ 7.9(or7.1") φ 200 (or 180)	φ 7.9(or7.1") φ 200 (or 180)	φ 7.9(or7.1") φ 200 (or 180)	φ 7.9(or7.1") φ 200 (or 180)	φ 7.9(or7.1") φ 200 (or 180)	φ 7.9(or7.1") φ 200 (or 180)
Net Weight (lbs/kg)	165/ 75	172/ 78	169/ 77	176/ 80	187/ 85	194/ 88	165/ 75	172/ 78
Quantities/20' Container(PCS)	180	144	180	144	180	144	180	144

\* Quick Lifting Pallet Truck : 5 pump strok to Max. fork height.

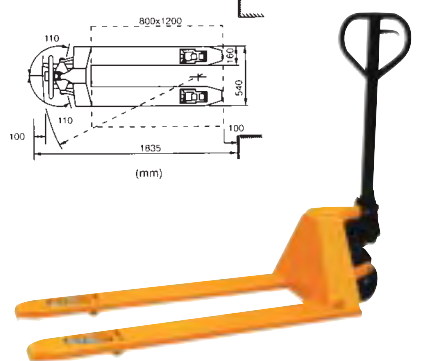
## Low Profile Pallet Trucks

Min. Lowered Height 55mm

- Rollers: Steel or nylon
- Wheels: Nylon, Polyurethane, Rubber.
- Special Fork Length: 950mm



Capacity (lbs/kg)	Min. Lowered Fork Height (inch/mm)	Width		Fork Width (inch/mm)	Net Weight (lbs/kg)	Quantities in 20' container	Order No.
		Fork Length (inch/mm)	Over Forks (inch/mm)				
4400/2000	2.1"/ 55mm	44.9"/ 1150	21.1"/ 540	6.2"/ 160	158/72	180	838-0261
4400/2000	2.1"/ 55mm	44.9"/ 1150	26.5"/ 680	6.2"/ 160	169/77	144	838-0262



## Hand Pallet Trucks with Scale

Scale Accuracy (Mettler-Toledo Sensor & scale)	Capacity (kg/lbs)	Min./Max. Fork Height (mm/inch)	Fork Length (mm/inch)	Width		Fork Width (mm/inch)	Net Weight (kg/lbs)	Quantities in 20' Container	Order No.
				Over Forks (mm/inch)	Fork Forks (mm/inch)				
2000kg(4400lbs)	2000/4400	85/200(3.3/7.9")	1150/45"	548/22"	168/6.6	85/187	36 PCS	838-1201	
2000kg(4400lbs)	2000/4400	85/200(3.3/7.9")	1150/45"	688/27"	168/6.6	88/194	32 PCS	838-1202	
2000kg(4400lbs)	2000/4400	85/200(3.3/7.9")	1150/45"	548/22"	168/6.6	85/187	36 PCS	838-1203	
2000kg(4400lbs)	2000/4400	85/200(3.3/7.9")	1150/45"	688/27"	168/6.6	88/193	32 PCS	838-1204	



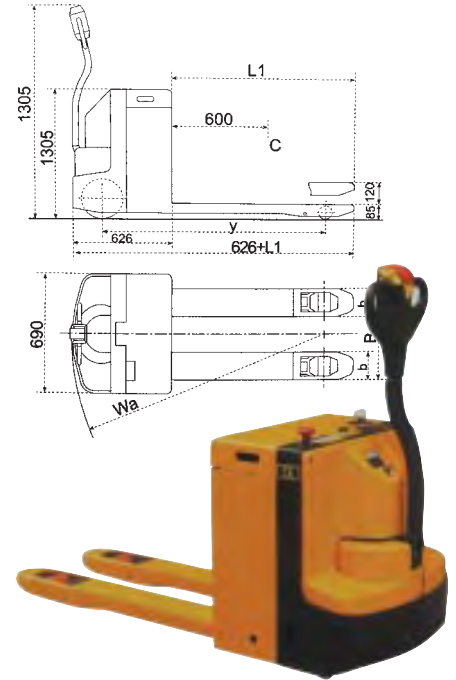
## Powered Pallet Trucks

### Heavy Duty Design

Smooth stepless speed control made in Europe  
 Power unit and drive wheel made in Europe  
 Powerfull traction battery  
 Conforms to EN1726 and EN 1175-1

#### Specification

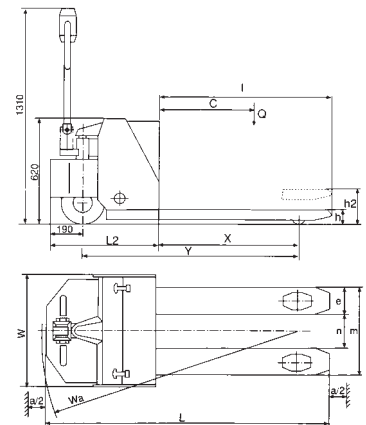
Order No.	838-1506	838-1507	838-1508	838-1509
Platform	Without	Without	With	With
Capacity(kg)		2000		
Load Center(C, mm)		600		
Max Fork Height(H,mm)		205		
Lowered Fork Height(h,mm)		85		
Fork Length(L1, mm)		1150		
Overall Fork Width(B, mm)	530	680	530	680
Individual Fork Width(b,mm)		160		
Wheel Base(y,mm)		1406		
Turning Radius(Wa,mm)	1608	1608	1946	1946
Traveling Speed with/without load(Km/h)		3.6/5.4		
Lifting Speed with/without load(mm/s)		22/32		
Lowering Speed with/without load(mm/s)		50/55		
Drive Wheel		1200W, Dia.250mm		
Power Unit(Lifting motor)		800W/24V		
Traction Battery		24V/210Ah,185Kg		
Battery Charger		25A/24V		
Overall Dimension(LxWxH,mm)	1781x690x1305	1781x690x1305	2125x690x1305	2125x690x1305
Net Weight(without battery,kg)	324	329	338	343



## Semi-Electric Pallet Trucks

### Capacity 1500kg

**Frame:** Heavy duty design with all-steel reinforced frame.  
**Brake system:** Integral electromagnetic disk brake mounted on motor shaft.  
**Power Source:** Two pieces 80AH/12V battery with separate charger. Battery weight: 30kg/pc.  
**Drive Wheel:** Complete gear train mounted on ball and roller bearing in oil bath housing. High-torque horizontally mounted motor has copper graphite brushes for excellent commutation and fabrication motor: 660W/24V.  
**Wheel :**  $\phi$  250x80mm  
**Load Roller:** Tandem or Single Polyurethane Roller  
**Tandem roller:**  $\phi$  78x70mm  
**Single roller:**  $\phi$  78x100mm  
**Traveling Speed:** With load 5km/h  
 Without load 6.5km/h

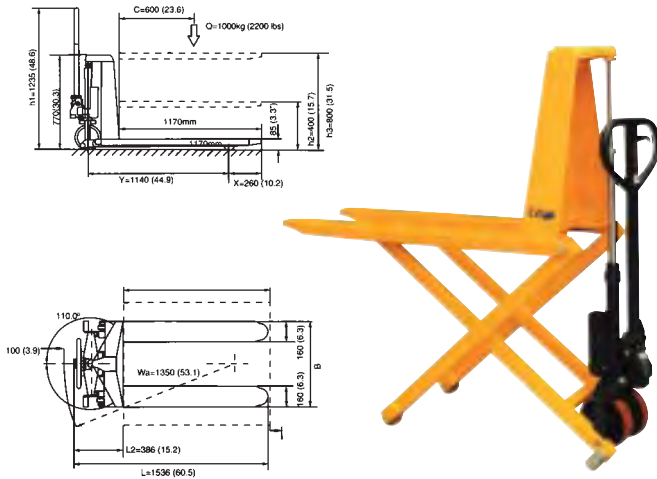


Order No.	838-1501	838-1502	838-1503	838-1504
Capacity	3300lbs/1500kg	3300lbs/1500kg	3300lbs/1500kg	3300lbs/1500kg
Lowered Height	h 3.3"/85mm	3.3"/85mm	3.3"/85mm	3.3"/85mm
Max. Fork Height	h2 8"/205mm	8"/205mm	8"/205mm	8"/205mm
Fork Overall Width	m 20.5"/520mm	20.5"/520mm	27"/680mm	27"/680mm
Fork Length	I 39"/1000mm	45"/1150mm	39"/1000mm	45"/1150mm
Load Centre	C 23.6"/600mm	25.6"/650mm	23.6"/600mm	25.6"/650mm
Load Distance	X 31"/795mm	37"/945mm	31"/795mm	37"/945mm
Wheel Base	Y 49"/1240mm	55"/1390mm	49"/1240mm	55"/1390mm
Net Weight (no battery)	8.5lbs/215kg	8.8lbs/223kg	8.9lbs/225kg	9.3lbs/235kg
Overall Length	L 64"/1635mm	70"/1785mm	64"/1635mm	70"/1785mm
Overall Width	W 26"/660mm	26"/660mm	26.8"/680mm	26.8"/680mm
Overall Height	H 52"/1310mm	52"/1310mm	52"/1310mm	52"/1310mm
Dimension	a 8"/200mm	8"/200mm	8"/200mm	8"/200mm
Dimension	n 8"/200mm	8"/200mm	14.2"/360mm	14.2"/360mm
Dimension	Wa 59"/1500mm	65"/1650mm	59"/1500mm	65"/1650mm



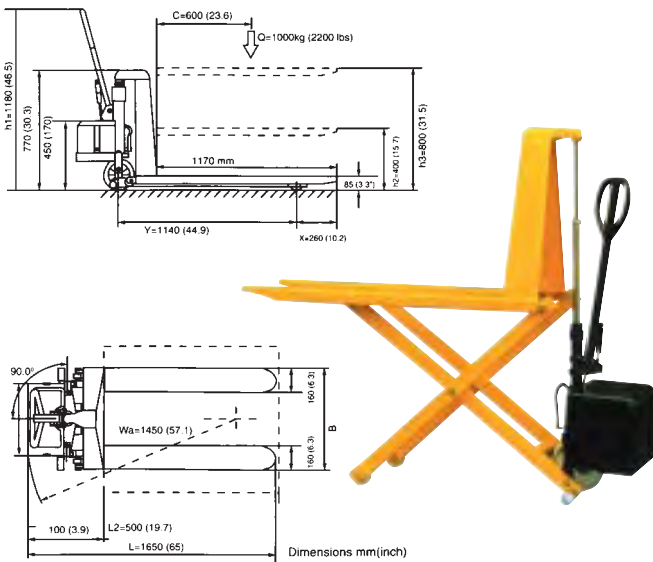
### Manual High Lift Hand Trucks

Capacity 1000kg (2200lbs)



Capacity	Max. Fork Height	Fork Length	Overall Fork Width (B)	Net Weight	Order No.
kg/lbs	mm/inch	mm/inch	mm/inch	kg/lbs	
1000/2200	800/31.5"	1150/45.3"	540/21.3"	110/242	838-2101
1000/2200	800/31.5"	1150/45.3"	680/26.8"	125/275	838-2102

### Electric High Lift Hand Trucks



Capacity	Max. Fork Height	Fork Length	Overall Fork Width (B)	Battery	Net Weight	Order No.
kg/lbs	mm/inch	mm/inch	mm/inch	V-AH VA	kg/lbs	
1000/2200	800/31.5"	1150/45.3"	540/21.3"	12-60	110/242	838-3101
1000/2200	800/31.5"	1150/45.3"	680/26.8"	12-60	125/275	838-3102

### Hand Stackers

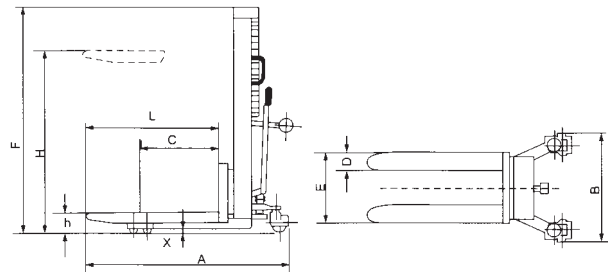
Capacity 1000kg

- Compact design and strong accurate steel construction
- Top quality hydraulic pump and cylinder with Germany seal kit.
- Heavy Duty 1 piece "C" section forks for greatest strength.
- Top of stroke bypass valve and overload valve built in.
- 3 way hand control with neutral allows the operator to maneuver the load safety and effortlessly.
- Advanced hand brake system , without foot brake system. It is a proven fact that there is less likelihood of injury when the operator always has both feet firmly on the ground.
- Random load rollers, steering wheels, with safety guard.



Order No. 838-4101

Order No. 838-4102



Order No.	838-4101	838-4102
Capacity (lbs/kg)	2200/1000	2200/1000
Load Centre C (inch/mm)	23"/585	23"/585
Max. Fork Height H (inch/mm)	60"/1525	113.6"/2885
Lowered Fork Height h (inch/mm)	3.5"/88	3.5"/88
Fork Width D (inch/mm)	6.3"/160	6.3"/160
Fork Length L (inch/mm)	46.1"/1170	46.1"/1170
Overall Fork Width E (inch/mm)	21.3"/540	21.3"/540
Ground Clearance X (inch/mm)	1.3"/32	1.3"/32
Min. Turning Radius (Outside) (inch/mm)	43.3"/1100	43.3"/1100
Front Load Roller (inch)	φ 3.1x3"	φ 3.1x3"
(mm)	80x75	80x75
Steering Wheel (inch)	φ 5.9x2.2"	φ 5.9x2.2"
(mm)	150x55	150x55
Overall Length A (inch/mm)	61"/1550	61"/1550
Overall Width B (inch/mm)	26.8"/680	26.8"/680
Overall Height F (inch/mm)	80.7"/2050	76.8"/1950
Net Weight (lbs/kg)	507/230	816/370

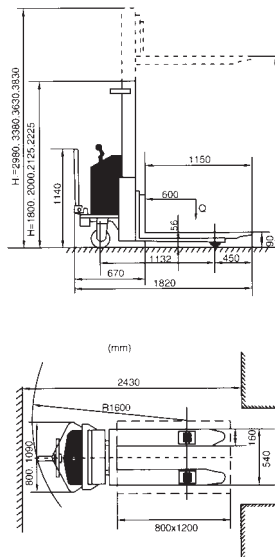


## Semi-Electric Stackers

Capacity 1000kg, Lifting Height: 2450-3300mm

- Compact design and top quality mast construction.
- Safety guard on load roller and steering wheel.
- Light and easy manual steering system.

Order No.	838-5101	838-5102	838-5103	838-5104
Capacity (lbs/kg)	2200/1000	2200/1000	2200/1000	2200/1000
Lifting Height	96.5"/ 2450mm	112.2"/ 2850mm	122"/ 3100mm	130"/ 3300mm
Lifting Speed with Load	2.8"/s ( 72mm/s)	2.8"/s(72mm/s)	2.8"/s(72mm/s)	2.8"/s(72mm/s)
Lifting Speed without Load	4.3"/s(110mm/s)	4.3"/s(110mm/s)	4.3"/s(110mm/s)	4.3"/s(110mm/s)
Power	800W	800W	800W	800W
Battery	135AH/12V	135AH/12V	135AH/12V	135AH/12V
Battery Charger	15AH/12V	15AH/12V	15AH/12V	15AH/12V
Steering Wheel	φ 7.1x2"	φ 7.1x2"	φ 7.1x2"	φ 7.1x2"
Load Roller	φ 3.2x3.1" 82x80mm	φ 3.2x3.1" 82x80mm	φ 3.2x3.1" 82x80mm	φ 3.2x3.1" 82x80mm
Overall Dimension (LxWxH) (mm)	1820x800x1800	1820x800x2000	1820x1090x2125	1820x1090x2255
Net Weight (lbs/kg)	1014/460	1080/490	1169/530	1212/550

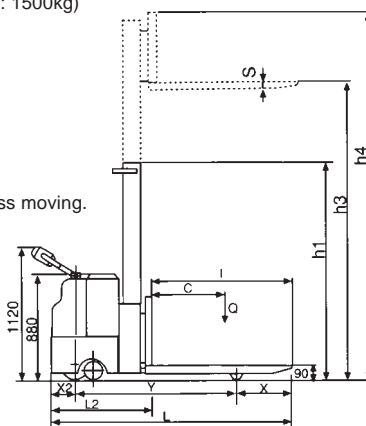
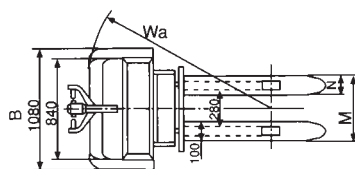


## Full Electric Stackers

Capacity 1200kg, 1500kg

- Battery:** 240AH/24V, 32kg/pcsx6pcs=192kg
- Motors Traveling:** 0.9KW/24V(capacity: 1200kg); 1.2KW /24V(capacity: 1500kg)
- Motors Lifting:** 2.2KW/24V
- Front Roller:** 1200kg: φ 82x80(single roller)  
1500kg: φ 82x80(tandem roller)
- Rear Roller:** φ 150x50mm
- Drive Wheel:** φ 250x80mm

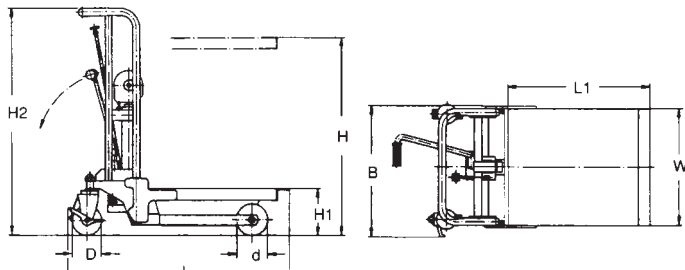
- Heavy duty design-robust and stable.
- High quality European electronic control system-smooth and step less moving.
- Powerful power pack and drive wheel are made in Europe.



Order No.	838-5200	838-5201	838-5202	838-5203	838-5204	838-5205	838-5206	838-5207	838-5208	838-5209
Capacity (lbs/kg)	2640/1200	3300/1500	2640/1200	3300/1500	2640/1200	3300/1500	2640/1200	3300/1500	2640/1200	3300/1500
C (inch/mm)	23.6"/600	23.6"/600	23.6"/600	23.6"/600	23.6"/600	23.6"/600	23.6"/600	23.6"/600	23.6"/600	23.6"/600
I (inch/mm)	45.3"/1150	45.3"/1150	45.3"/1150	45.3"/1150	45.3"/1150	45.3"/1150	45.3"/1150	45.3"/1150	45.3"/1150	45.3"/1150
X (inch/mm)	17.7"/450	17.7"/450	17.7"/450	17.7"/450	17.7"/450	17.7"/450	17.7"/450	17.7"/450	17.7"/450	17.7"/450
S (inch/mm)	2.2"/56	2.2"/56	2.2"/56	2.2"/56	2.2"/56	2.2"/56	2.2"/56	2.2"/56	2.2"/56	2.2"/56
X2 (inch/mm)	7.5"/190	7.5"/190	7.5"/190	7.5"/190	7.5"/190	7.5"/190	7.5"/190	7.5"/190	7.5"/190	7.5"/190
Y (inch/mm)	48.8"/1240	49.6"/1260	48.8"/1240	49.6"/1260	48.8"/1240	49.6"/1260	48.8"/1240	49.6"/1260	48.8"/1240	49.6"/1260
L2 (inch/mm)	28.7"/730	29.5"/750	28.7"/730	29.5"/750	28.7"/730	29.5"/750	28.7"/730	29.5"/750	28.7"/730	29.5"/750
L (inch/mm)	74"/1880	74.8"/1900	74"/1880	74.8"/1900	74"/1880	74.8"/1900	74"/1880	74.8"/1900	74"/1880	74.8"/1900
M (inch/mm)	21.3"/540	21.3"/540	21.3"/540	21.3"/540	21.3"/540	21.3"/540	21.3"/540	21.3"/540	21.3"/540	21.3"/540
N (inch/mm)	6.3"/160	6.3"/160	6.3"/160	6.3"/160	6.3"/160	6.3"/160	6.3"/160	6.3"/160	6.3"/160	6.3"/160
H1 (inch/mm)	82.3"/2090	82.3"/2090	71"/1800	71"/1800	79.7"/2025	79.7"/2025	83.7"/2125	83.7"/2125	87.6"/2225	87.6"/2225
H3 (inch/mm)	63"/1600	63"/1600	96.5"/2450	96.5"/2450	114.2"/2900	114.2"/2900	122"/3100	122"/3100	130"/3300	130"/3300
H4 (inch/mm)	90.6"/2300	90.6"/2300	124"/3150	124"/3150	141.7"/3600	141.7"/3600	149.6"/3800	149.6"/3800	157.5"/4000	157.5"/4000
B (inch/mm)	33"/840	33"/840	33"/840	33"/840	33"/840	33"/840	42.5"/1080	42.5"/1080	42.5"/1080	42.5"/1080
Wa (inch/mm)	59"/1500	59.8"/1520	59"/1500	59.8"/1520	59"/1500	59.8"/1520	59"/1500	59.8"/1520	59"/1500	59.8"/1520
Net Weight (lbs/kg) (without battery)	1351/614	1351/614	1474/670	1474/670	1522/692	1522/692	1551/705	1551/705	1571/714	1571/714

## Platform Stackers

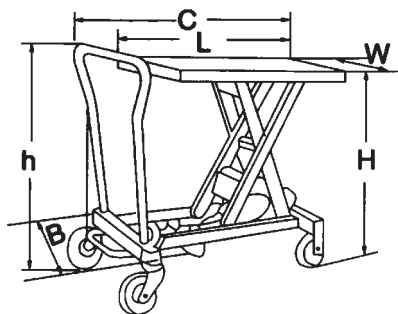
- Simple and easy operation, lifting movement via collapsible foot pedal, sensitive lowering through sinking valve, hand push drive, overload protection via pressure valve.
- Safe operation and secure working conditions, stable chassis with 2 frame rollers and 2 steering rollers.
- Long Service lift, robust construction, frame hard chromium plated, hardened chromium plated ram.
- Effortless movement, ball bearing rollers, polyurethane rollers.
- Practical drawer under the platform.



Order No.	838-4321	838-4322	838-4341	838-4342
Capacity	440lbs/200kg	440lbs/200kg	880lbs/400kg	880lbs/400kg
Max. Platform Height H	33.5"/850mm	47.2"/1200mm	33.5"/850mm	47.2"/1200mm
Min. Platform Height H1	7.9"/200mm	7.9"/200mm	7.9"/200mm	7.9"/200mm
Platform Length L1	23.6"/600mm	23.6"/600mm	25.6"/650mm	25.6"/650mm
Platform Width W	19.7"/500mm	19.7"/500mm	21.7"/550mm	21.7"/550mm
Total Width B	22"/560mm	22"/560mm	23.2"/590	23.2"/590
Total Length L	37"/940mm	37"/940mm	40.8"/1037mm	40.8"/1037mm
Total Height H2	37.8"/960mm	51.6"/1310mm	37.8"/960mm	51.6"/1310mm
Steering Rollers-Diameter D	4.9"/125mm	4.9"/125mm	5.9"/150mm	5.9"/150mm
Frame Rollers-Diameter d	5.1"/130mm	5.1"/130mm	5.9"/150mm	5.9"/150mm
Pump Handle Movements	0.6"/15mm	0.9"/23mm	1.2"/30mm	1.8"/45mm
Net Weight	99lbs/45kg	110lbs/50kg	145lbs/66kg	156lbs/71kg

## Lift Tables

- New design to meet new CE norm EN 1757-3.
- New hydraulic system increases safety and protects your goods, stepless rate of lowering system remains irrespective of the weight of the load.



Capacity (lbs/kg)	Table Size LxW (inch/mm)	Table Height H(Min./Max.) inch(mm)	Handle Height h (inch/mm)	Wheel Dia. (inch/mm)	Overall Size BxC (inch/mm)	Foot Pedal to Max. Height (inch/mm)	Net Weight (lbs/kg)	Order No.
330/150	27.6x17.7"/700x450	10/30" (255/760)	39.4/1000	3.9/100	17.7x37.4"/450x950	0.6"/16	90/41	837-0015
550/250	32.7x19.7"/830x500	12.4/35.8" (315/910)	43.3/1100	4.9/125	19.7x39.8"/500x1010	1"/25	172/78	837-0025
1100/500	39.8x20.5"/1010x520	16.9/39.4" (430/1000)	44.5/1130	5.9/150	20.5x49.6"/520x1185	1.7"/44	260/118	837-0050
1650/750	39.8x20.5"/1010x520	17/39.4" (432/1000)	44.5/1130	5.9/150	20.5x49.6"/520x1260	2.2"/55	264/120	837-0075
2200/1000	39.8x20.5"/1010x520	17.3/37.8" (440/960)	44.5/1130	5.9/150	20.5x49.6"/520x1260	3"/75	301/137	837-0100
660/300	39.8x20.5"/1010x520	17.1/62.4" (435/1585)	44.5/1130	5.9/150	20.5x49.6"/520x1260	2.1"/53	330/150	837-0030
1100/500	39.8x20.5"/1010x520	17.1/62.4" (435/1585)	44.5/1130	5.9/150	20.5x49.6"/520x1260	2.7"/68	370/168	837-0051



## Lift & Tilt Tables

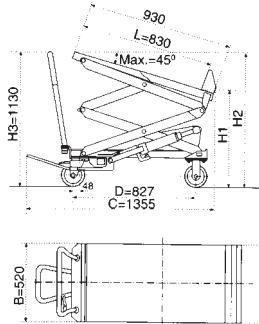
### Simplifies Parts Handling

The new Lift & Tilt Table are specifically designed to allow an operator to feed and unload parts from tote boxes or containers quickly and easily without lifting, bending, stretching, or reaching.

When in its lift and tilt position, the unit holds totes or containers at a comfortable working height and angle that allows operators to easily reach parts even at the bottom of the container.

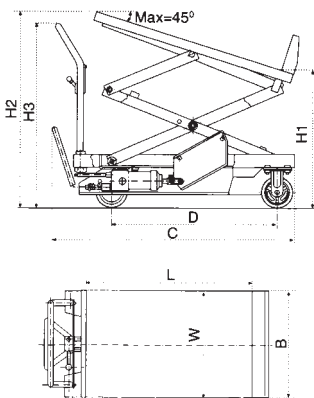
The working table is elevated by means of a foot actuated hydraulic cylinder. As the table is raised, it automatically tilts to an angle of 45° at full elevation. Built-in retaining lip keeps containers in place.

### European Style



European Style		
Order No.	837-1040	837-1080
Capacity (lbs/kg)	880/400	1760/800
Table Size LxW	32.7x20.5"/830x520mm	32.7x20.5"/830x520mm
Table Height of Front H1	17.3/39.4"(435/990mm)	17.3/39.4"(440/1000mm)
Table Height of Rear H2	17.1/39"(435/1550mm)	17.3/61.4"(440/1560mm)
Handle Height H3	44.5"/1130mm	44.5"/1130mm
Wheel Diameter	5.9"/150mm	5.9"/150mm
Overall Size BxC	20.5x53.3"/520x1355mm	20.5x53.3"/520x1355mm
Foot Pedal to Max. Height	2"/50mm	2.7"/68mm
Net Weight (lbs/kg)	271/123	319/145

### American Style

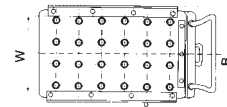
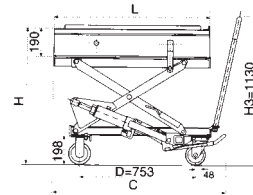


American Style		
Order No.	837-1182	837-1280
Capacity (lbs/kg)	400/182	616/280
Table Size LxW	29.7x19.7"/755x500mm	36.2x24.2"/920x615mm
Table Height of Front H1	12.8/31.5"(325/800mm)	14.6/36.6"(370/930mm)
Table Height of Rear H2	12.8/49.6"(325/1260mm)	14.6/60.2"(370/1528mm)
Handle Height H3	43.3"/1100mm	43.3"/1100mm
Wheel Base D	26.2"/665mm	30.7"/780mm
Overall Size BxC	19.7x39.4"/500x1000mm	24.2x43.3"/615x1100mm
Wheel Diameter	4.9"/125mm	4.9"/125mm
Foot Pedal to Max. Height	0.6"/15mm	0.9"/23mm
Net Weight (lbs/kg)	78/81	275/125

## Transfer Lift Tables

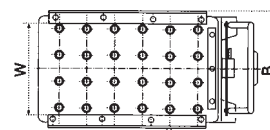
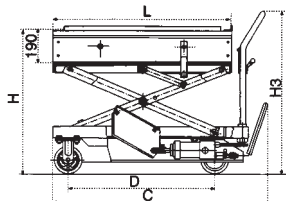
Much easier for loading and unloading operations by means of ball transfer unit. As the steel balls are raised, the goods on table are very easy to move into or move away. As the steel balls are lowered, the goods stay on table firmly.

### European Style



European style			
Order No.	837-1450	837-1700	837-2000
Capacity	990lbs/450kgs	1540lbs/700kgs	2200lbs/1000kgs
Table Size LxW	39.6x21.7" (1006x550mm)	39.6x21.7" (1006x550mm)	39.6x21.7" (1006x550mm)
Min./Max. Table Height	24.4/46.9" (620/1190mm)	24.5x46.9" (622x1190mm)	24.8x45.3" (630x1150mm)
Handle Height H3	44.5"/1130mm	44.5"/1130	44.5"/1130
Wheel Diameter	5.9"/150mm	5.9"/150	5.9"/150
Overall Size BxC	22.8x46.7" (580x1185mm)	22.8x46.7" (580x1260mm)	22.8x46.7" (580x1260mm)
Foot Pedal to Max. Height	1.7"/44mm	2.2"/55mm	3"/75mm
Net Weight	153kgs	155kgs	172kgs

### American Style



American style		
Order No.	837-1300	837-1500
Capacity	600lbs/300kgs	1100lbs/500kgs
Table Size LxW	29.1x19.3" (740x500mm)	35.6x24.4" (905x620mm)
Min./Max. Table Height	18.3x39.4" (465/1000mm)	19.3/44.5" (490/1130mm)
Handle Height H3	43.3"/1100mm	43.3"/1100mm
Wheel Base D	26.2"/665mm	30.7"/780mm
Overall Size BxC	22.8x39.4" (580x1000mm)	680x1100" (26.8x43.3mm)
Wheel Diameter	4.9"/125mm	4.9"/125mm
Foot Pedal to Max. Height	0.6"/16mm	1"/25mm
Net Weight	198lbs/90kgs	339lbs/154kgs

## Aluminium Platform Trucks

- Light, easy to transport and store.
- Aluminium construction with telescopic fold-down handle.
- PVC corner edging.
- 2 swivel castors and 2 fixed castors.



Order No.	839-0150	839-0151
Capacity	264lbs/150kgs	264lbs/150kgs
Platform Size	19.7x16.5" (500x420mm)	19.7x16.5" (500x420mm)
Platform Extended	27.9x16.5" (710x420mm)	27.9x16.5" (710x420mm)
Castor/Wheel Dia.	3.9"/100mm	3.9"/100mm
Overall Size	27.9x16.5x37.4" (710x420x950mm)	27.9x16.5x37.6" (710x420x955mm)
Net Weight	16.1lbs/7.3kgs	17.4lbs/7.9kgs

- Light weight Aluminium deck.
- Wrap around corner bumper.



Order No.	839-0153
Capacity	264lbs/150kgs
Platform Size	29.5x18.5" (750x470mm)
Castor/Wheel Dia.	3.9"/100mm
Overall Size	27.9x16.5x37.4" (750x470x980mm)
Net Weight	36.4lbs/8kgs

## Aluminium Hand Trucks



Order No. 839-0160

Order No. 839-0161

Order No.	839-0160	839-0161
Capacity (lbs/kg)	660/300	660/300
Nose Plate (LxW)	355x190mm	355x190mm
Wheel Diameter	Semi-pneumatic,	10"/250mm
Net Weight (lbs/kg)	26.8/12.2	26.8/12.2

## Stainless Platform Trolley

- A range of heavy duty, general purpose trolleys.
- All stainless steel construction.
- Shelf surface area, L x W: 840x535mm.
- 125mm Diameter heavy duty castors which are non-marking, non-staining.
- Finish: Grade 304 stainless steel.



Order No. 839-0202



Order No. 839-0203

Order No.	839-0202	839-0203
Capacity	220lbs/100kgs	220lbs/100kgs
Platform Size LxB	24.0x16.1" (610x410mm)	24.0x16.1" (610x410mm)
Handle Height H	35.4"/900mm	35.4"/900mm
Castor/Wheel Dia.	3.9x1.2"	3.9x1.2"
Net Weight	100x30 15.1lbs/6.85kgs	100x30 18.6lbs/8.45kgs

## Transport Trolley & Folding Trucks



Order No. 839-0210

Order No. 839-0220

Order No.	Transport 839-0210	Folding 839-0220
Capacity (kg)	100	90
Foot Plate(WxD)	486x280	350x410
Handle Height(mm)	1080	1100
Wheel Diameter	175	150
Overall Size(Folded)	490x60x820	200x400x750
Overall Size(Extended)	490x450x1080	410x400x1100
Net Weight (kg)	5	6

## Toolholder Cart

- Keep tools organized and helps protect from damage.
- Heavy gage steel, red baked epoxy finish.
- Angled tray for quick access from either side.
- Interlocking side panels for added strength.
- Nylon inserts reduce damage.
- Load rated at 1000lbs.
- Dimension: 35-1/4 long x18 wide x35" high



Tool Style	Tool Cap.	Weight	Order No.
BT,CAT "V" Flange, NMTB for 40 Taper	48 Pcs	75 lbs	839-0246
BT,CAT "V" Flange, NMTB for 50 Taper	36 Pcs	75 lbs	839-0247

## 3-Drawer Work Center

- Include three dividable with two shelves.
- Use as a cart or mobile repair station.
- High quality, smooth extension drawers extend 95% and have 22 lbs. load capacity per drawer.
- Each mobile cabinet includes two swivel casters with locks and two rigid casters.
- Individual drawer latches keep drawer shut when moving



<b>Order No.</b>	<b>839-0230</b>
<b>Total Capacity (kg)</b>	150
<b>Drawer Capacity (kg)</b>	10
<b>Clapbord Capacity (kg)</b>	15
<b>Drawer Size</b>	580x300x45mm
<b>Overall Size</b>	950x410x870mm
<b>Wheel Diameter</b>	3"
<b>Net Weight (kg)</b>	26

## Chromed Cart



Overall Dimension: 760x410x900mm  
Caster: 4"(Dia 100x30mm)  
Load Capacity: 160kgs  
Net Weight: 16kgs

**Order No. 839-0240**



Overall Dimension: 760x410x900mm  
Caster: 4"(Dia 100x30mm)  
Load Capacity: 160kgs  
Net Weight: 21kgs

**Order No. 839-0241**



Overall Dimension: 760x410x900mm  
Caster: 4"(Dia 100x30mm)  
Load Capacity: 160kgs  
Net Weight: 23kgs  
Tray Dimension: 760x410x77mm  
Draw Dimension: 702x385x88mm

**Order No. 839-0242**



Overall Dimension: 760x410x900mm  
Caster: 4"(Dia 100x30mm)  
Load Capacity: 160kgs  
Net Weight: 34kgs  
Tray Dimension: 760x410x77mm  
Draw Dimension: 588x390x75mm,  
588x390x99mm

**Order No. 839-0243**

## Utility Carts

Heavy duty plastic construction resists dents, chips and rust



<b>Order No.</b>	<b>839-0244</b>	<b>839-0245</b>
<b>Max. Cap.(kg/Lbs)</b>	250/550	250/550
<b>Platform Size(mm)</b>	950x650x110	950x650x110
<b>Upper platform height</b>	850	850
<b>Height between 2 floors</b>	500	300
<b>Lower platform height</b>	150	150
<b>Caster Wheel</b>	Dia.125x26	Dia.125x26
<b>Net Weight (kg)</b>	20.5	27.5

## Tool Chest & Cabinet

Overall Dimension: 660x308x253mm  
Draw Dimension:  
2pcs: 570x272x50mm;  
1pc: 570x272x75mm  
Net Weight: 15kgs



**Order No. 839-0301**

Overall Dimension: 660x308x320mm  
Draw Dimension:  
2pcs: 570x272x50mm;  
1pc: 570x272x75mm  
Net Weight: 21kgs



**Order No. 839-0302**

Overall Dimension: 660x308x380mm  
Draw Dimension:  
3pcs: 174x272x50mm;  
2pcs: 570x272x50mm;  
1pc: 570x272x75mm  
Net Weight: 26kgs



**Order No. 839-0303**

Overall Dimension: 670x460x655mm  
Draw Dimension:  
3pcs: 574x398x75mm;  
2pcs: 574x398x153mm  
Caster: 5" (Dia 126x32mm)  
Load Capacity: 400kgs  
Net Weight: 47kgs

**Order No. 839-0304**

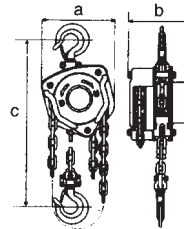
Overall Dimension: 670x460x810mm  
Draw Dimension:  
5pcs: 574x398x75mm;  
2pcs: 574x398x153mm  
Caster: 5" (Dia 126x32mm)  
Load Capacity: 400kgs  
Net Weight: 60kgs

**Order No. 839-0305**



## Manual Hoists

- Heavy duty and compact design to meet all pertinent world standard.
- Reliable disc brake and premium grade alloy load chain.
- Drop-forged and expertly heat treated for great strength and long wearing.



Order No.	838-8401	838-8402	838-8403	838-8404	838-8405	838-8406	838-8407	838-8408
Capacity (Ton)	0.5	1	1.5	2	3	5	10	20
Standard Lift(foot/m)	8.2/2.5	8.2/2.5	8.2/2.5	9.8/3	9.8/3	9.8/3	9.8/3	9.8/3
Testing Load (KN)	6.3	12.5	18.8	25	37.5	75	125	250
Effort Force to Max.Load (N)	231	309	320	353	275.5	414	414	828
Load Chain Diameter (inch/mm)	0.2"/6	0.2"/6	0.3"/8	0.3"/8	0.3"/8	0.4"/10	0.4"/10	0.4"/10
No. of Columns of Load Chain	1	1	1	1	2	2	4	8
Dimension a (inch/mm)	5.2"/131	5.5"/140	6.3"/161	6.3"/161	6.3"/161	7.3"/186	14.5"/368	25.6"/650
Dimension b (inch/mm)	5"/127	6.2"/158	7.4"/187	3.4/0.7"(87/17)	8.3"/210	10"/253	7.5"/191	8.5"/215
Dimension c (inch/mm)	10.6"/270	12.5"/317	15.7"/399	16.3"/414	18.3"/465	25"/636	31.4"/798	35"/890
Net Weight (lbs/kg)	22/10	26/12	44/20	53/48(24/22)	70/32	101/46	209/95	425/193
Extra Weight per Meter of Extra Lift (kg)	0.9	1.7	2.3	2.3	3.7	5.6	9.7	19.40

## Lever Blocks

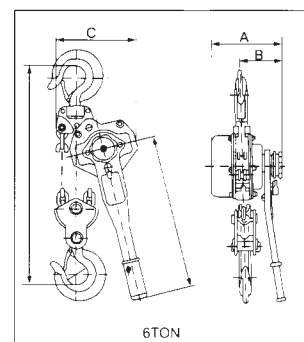
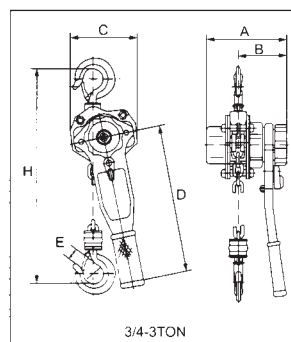
- Unique technology of spring clutch system, holding load at any desired height.
- Light hand pull and high efficiency.
- Upper and lower swivel hooks are drop forged and designed to bend slowly to warn of overload.
- Reinforced gear cover protects pivotal gear block.



Order No.	838-8075	838-8100	838-8150	838-8200	838-8300	838-8600
Rated Capacity (Ton)	0.75	1	1.5	2	3	6
Lifting Height (foot/Meter)	4.9/1.5	4.9/1.5	4.9/1.5	4.9/1.5	4.9/1.5	4.9/1.5
Testing Load (Ton)	1.125	1.5	2.25	3	4.5	7.5
Min. Distance Between Hook H (inch/mm)	12.6"/ 320	12.6"/ 320	14.1"/ 360	14.4"/ 365	18.5"/ 470	22.2"/ 565
Pull on Lever to Lift Capacity (kg.f)	21	23	24	30	32	34
No. of Load Chain Falls	1	1	1	1	1	2
Diameter of Load Chain (inch/mm)	0.2"/ 6	0.2"/ 6	0.3"/ 8	0.3"/ 8	0.4"/ 10	0.4"/ 10
Length of Lever(inch/mm)	D 11"/ 280	11"/ 280	16"/ 410	16"/ 410	16"/ 410	16"/ 410
Dimensions(inch/mm)	A 6.1"/ 156	6.1"/ 156	6.9"/ 176	6.9"/ 176	8"/ 202	8"/ 202
	B 3.7"/ 94	3.7"/ 94	4"/ 103	4"/ 103	4.4"/ 112	4.4"/ 112
	C 5.2"/ 132	5.2"/ 132	6.4"/ 162	6.4"/ 162	7.3"/ 185	9.1"/ 230
	φ 1.5"/ 38	1.5"/ 38	1.7"/ 42	1.8"/ 45	2"/ 50	2.6"/ 65
	E 0.8"/ 21	0.8"/ 21	1"/ 26	1.1"/ 28	1.3"/ 32	1.7"/ 42
Packing Size (LxHxW) (cm)	42x22x19	42x22x19	57x24x21	57x24x21	63x27x23	63x27x23
Net Weight (lbs/kg)	17/ 7.5	18/ 8	24/ 11	25/ 11.5	53/ 24	59/ 27
Gross Weight (lbs/kg)	18/ 8	19/ 8.5	25/ 11.5	26/ 12	55/ 25	62/ 28
Extra Weight per Extra Meter (lbs/kg)	4/ 1.7	4/ 1.7	5/ 2.3	5/ 2.3	6/ 2.7	12/ 5.3

### Cautions

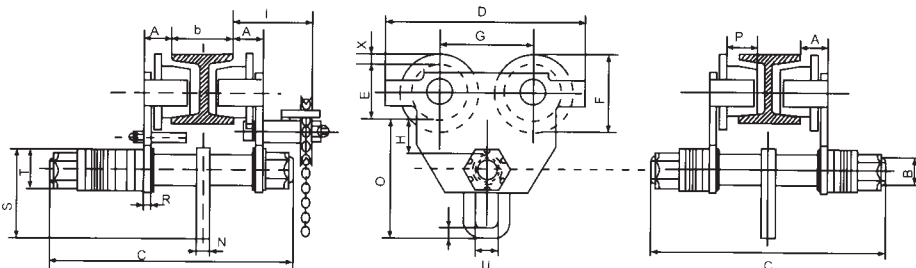
- Do not exceed working load limit.
- make sure that the end stop is connected to the chain.
- Keep the load chain lubricated at all times.
- Before oprating, inspect the load chain for damages.
- Before oprating, inspect the upper and lower swivel hooks for sings of deformations and check that the safety latches are attached.
- Do not lengthen the handle with a pipe in order to exercise greater force.





## Plain & Geared Trolleys

- Conforms to ANSI/ASME safety standard.
- Double sealed ball bearings.
- Built in bumper guards.
- Adjustable to fit various sizes of flange and I-beams.
- Use on straight or curved track.
- Can be installed or removed at any point along the track.

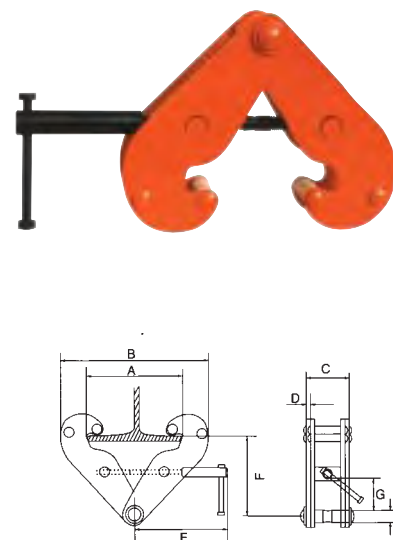


Capacity (Ton)	Beam Flange Width (mm)		Specifications (inch/mm)																Plain Trolley Order No.	Geared Trolley Order No.	
	O	A	B	C	D	E	F	G	H	T	R	S	L	X	P	N	U	I			
0.5	2.5-5.5"	5"	0.9"	0.9"	9.1"	8.3"	2.3"	3.2"	4"	1.1"	1.7"	0.2"	3.7"	0.6"	0.5"	1"	0.4"	0.9"	4.5"	838-8705	838-8805
1	2.5-6"	5.6"	1"	1.2"	10"	10"	3"	4"	4.6"	1"	2"	0.3"	4.6"	0.6"	0.5"	1.1"	0.5"	1.2"	4.4"	838-8710	838-8810
2	3-6.5"	6.8"	1.1"	1.4"	11.6"	11.9"	3.5"	4.8"	5.4"	1.1"	2.4"	0.4"	5.7"	0.8"	0.6"	1.3"	0.6"	1.4"	4.4"	838-8720	838-8820
3	3-8"	8.3"	1.2"	1.7"	13.5"	13.5"	4.3"	5.6"	6.2"	1.3"	3.1"	0.5"	7.1"	1"	0.6"	1.5"	0.62"	1.8"	5.3"	838-8730	838-8830
5	3.5-8"	10"	1.4"	1.9"	14.2"	14.9"	4.8"	6.1"	6.8"	1.33"	3.5"	0.6"	8.7"	1.4"	0.7"	1.7"	0.8"	2.4"	5.35"	838-8750	838-8850
10	4.9-8"	12.6"	1.8"	2.4"	15.9"	17.5"	5.9"	7.4"	7.9"	1.4"	3.7"	1"	11.2"	1.8"	0.71"	1.9"	1"	3.2"	6.3"	838-8800	838-8910
20	5.7-8"	15.2"	2.7"	2.4"	18.7"	25.3"	7.9"	10.8"	11.8"	a2.2"	3.7"	1.2"	11.9"	2.8"	1.5"	2.4"	1.4"	4.3"	6"		838-8920

## Beam Clamps

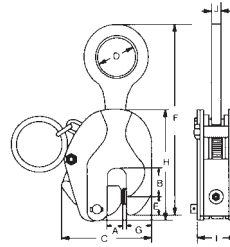
- Conforms to ANSI/ASME safety standard.
- Capacity 1 to 5 ton.
- Clamp jaw is designed to reduce flange stress by distributing load away from I-beam flange edge.
- Can be mounted easily with threaded handle.
- Fits a wide range of flange widths and beams.
- Suspension bar provides lower headroom.

Order No.	838-8711	838-8712	838-8713	838-8715
Rated Load (lbs/kg)	2200/ 1000	4400/ 2000	6600/ 3000	11000/ 5000
Flange Width (inch/mm)	3-8.7"	3-8.7"	3.1-12.6"	3.1-12.6"
	75-220	75-220	80-320	80-320
Max.A (inch/mm)	10.2"/ 260	10.2"/ 260	13.9"/ 354	13.9"/ 354
Min.B (inch/mm)	7.1"/ 180	7.1"/ 180	9.3"/ 235	9.3"/ 235
Max.B (inch/mm)	14.2"/ 360	14.2"/ 360	19.3"/ 490	19.3"/ 490
C (inch/mm)	2.5"/ 64	2.9"/ 74	4.1"/ 103	4.3"/ 110
D (inch/mm)	0.2"/ 5	0.24"/ 6	0.3"/ 8	0.4"/ 10
E (inch/mm)	8.5"/ 215	8.5"/ 215	10.2"/ 260	10.2"/ 260
Max.F (inch/mm)	6.1"/ 155	6.1"/ 155	8.9"/ 225	8.9"/ 225
Min.F (inch/mm)	4"/ 102	4"/ 102	5.5"/ 140	5.5"/ 140
Min.G (inch/mm)	1"/ 25	1"/ 25	1.8"/ 45	1.8"/ 45
H (inch/mm)	0.9"/ 22	0.9"/ 22	0.94"/ 24	1.1"/ 28
Net Weight (lbs/kg)	10/ 4.5	11/ 5	23/ 10.5	24/ 11
Gross Weight (lbs/kg)	12/ 5.5	13/ 6	25/ 11.5	26/ 12
Packing Size (inch/mm)	16.9x3.7x6.7"	16.9x3.7x6.7"	15.2x5.3x13.2"	15.2x5.3x13.2"
	430x95x170	430x95x170	385x135x335	385x135x335



## Plate Lifting Clamps

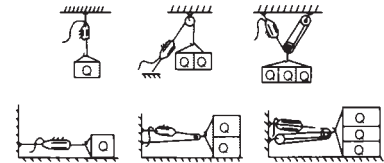
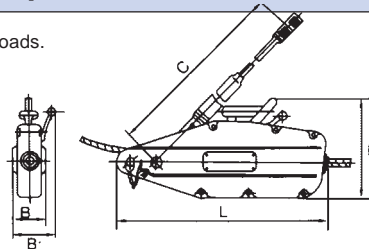
- Conforms to ANSI/ASME safety standard.
- Plate lifting clamps for safe handling of plates in vertical position and turning 180 degree.
- Fitted with standard hoisting eye, moving in one direction.
- With safety-lock to provide initial pressure at near zero grip.
- For lifting steel plates with a surface hardness up to 37 RC (345HB)



Capacity (Ton)	Jaw Opening (Unit: inch/mm)											Net Weight (lbs/Kg)	Gross Weight (lbs/Kg)	Packing Size (inch/mm)	Order No.
	A	B	C	D	E	F	G	H	I	J					
1	0-0.8"	0.9"	1.4"	4.9"	0.2"	0.9"	8.9-10.4"	1.3"	6.1"	2"	0.6"	8	9	11.6x2.4x5.7"	838-8721
	0-20	23	36	124	5	24	225-265	33	155	51	14	3.6	4.3	295x60x145	
2	0-1.2"	1.4"	1.8"	6"	2.4	1.2"	10-12"	1.6"	7.6"	2.3"	0.62"	13	15	13.6x3.1x7"	838-8722
	0-30	35	45	153	60	30	253-305	40	194	60	16	6.0	6.8	345x80x180	
3	0-1.4"	1.6"	2"	6.9"	2.4"	1.4"	11.7-13.9"	1.8"	8.9"	2.7"	0.7"	20	23	15.9x3.5x7.7"	838-8723
	0-35	40	50	175	60	35	296-353	45	226	68	19	9.3	10.3	405x90x195	
5	0-2"	2"	2"	8.6"	2.6"	1.8"	15-17.3"	2.2"	10.2"	3"	0.9"	37	40	17.5x4.5x9.8"	838-8725
	0-50	50	50	218	65	45	380-440	57	260	76	22	17	18	445x115x250	

## Grip Pullers

- May be used in any position to lift, pull, lower or stretch heavy loads.
- Operated manually by engaging clutch and working the handle.
- Components are made of high quality alloyed steel.
- Aluminum alloy housing makes grip pullers light in weight and quite portable
- Safety latches are standard.



Order No.	837-5008	837-5016	837-5032
W.W.L.(Vertical)	1760lbs/800kg	3520lbs/1600kg	7040lbs/3200kg
Hand Effort (Max.)	62lbs/28kg	90lbs/41kg	97lbs/44kg
Lever Length C	29"/740mm	44.1"/1120mm	44.1"/1120mm
Wire Roper Diameter	0.3"/8.3mm	0.4"/11mm	0.6"/16mm
Distance per Stroke	2"/52mm	2.2"/55mm	1.1"/28mm
Wire Roper Length	0.8"/20mm	0.8"/20mm	0.8"/20mm
Weight without Rope	13lbs/6kg	26lbs/12kg	26lbs/12kg
Overall Dimensions (LxB1xH)	17x2.6x10"	21.5x3.8x10.2"	26x4.6x12.6"
Packing Size(10pcs)	87x53x43mm	96x64x58mm	105x77x60mm
Packing Weight (10pcs)	209lbs/95kg	235lbs/107kg	594lbs/270kg



## Wire Roper Pullers

- Powerful, reliable, lightweight wire roper puller.
- Ideal for on the spot jobs.
- Hooks complete with safety latches.
- Non-slip plastic grip.
- Galvanized wire rope.
- 1 piece Alu-alloy ratched wheel.
- Electro-plated steel frame.



W.L.L. (lbs/kg)	W.L.L. (lbs/kg)	Max. Pulling (foot/m)	Cable Ratched Wheel	Cable Diameter (inch/mm)	Net Weight (lbs/kg)	Packing Size/Qty (cm)/PCS	Order No.
1100/500	2200/1000	7.2/2.2	Single	0.2/5	5/2.3	58x24x34/10pcs	837-5150
1100/50	2200/1000	7.2/2.2	Double	0.2/5	5.3/2.42	58x24x34/10pcs	837-5151
2200/1000	4400/2000	6.3/2.85	Single	0.23/6	6.2/2.8	71x29.5x31.5/6pcs	837-5200
2200/1000	4400/2000	6.3/2.85	Double	0.23/6	6.4/2.9	71x29.5x31.5/6pcs	837-5201



## Mini-Electric Hoists

Mini-electric hoists are designed with latest European technology, they are suitable for lifting or unloading goods in shops, restaurants, industry assembly lines and food industry. It is also a useful tool to lifting materials and different goods in house or apartment.



**Single Hook**



**Double Hook**

Use of Hook	Rated Voltage (V)	Input Power (W)	Lifting Capacity (lbs/kg)	Lifting Speed (foot/M per min)	Lifting Height (foot/M)	Packing Size (cm/2pcs)	G.W/N.W. (kg/2pcs)	Order No.
Single Hook	110/220	500	220/100	32.8/10	39.4/12	37x30x24	24/22	838-8500
Double Hook	110/220	500	440/200	16.4/5	19.7/6	37x30x24	24/22	838-8501
Single Hook	110/220	650	275/125	32.8/10	39.4/12	37x30x24	25/23	838-8502
Double Hook	110/220	650	550/250	16.4/5	9.7/6	37x30x24	25/23	838-8503
Single Hook	110/220	1000	440/200	32.8/10	39.4/12	42x32x27	35/33	838-8504
Double Hook	110/220	1000	880/400	16.4/5	9.7/6	42x32x27	35/33	838-8505
Single Hook	110/220	1150	550/250	32.8/10	39.4/12	42x32x27	36/34	838-8506
Double Hook	110/220	1150	1100/500	16.4/5	9.7/6	42x32x27	36/34	838-8507
Single Hook	110/220	1300	600/300	32.8/10	39.4/12	42x32x27	37/35	838-8508
Double Hook	110/220	1300	1320/600	16.4/5	9.7/6	42x32x27	37/35	838-8509

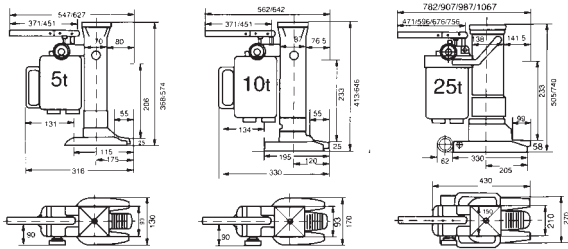
## Rotary Hoist Frames

Max. Capacity (lbs/kg)	Max. Length (inch/mm)	Packing Size (cm)	G.W./N.W. (kg)	Order No.
550/250	43.3/1100	86x22x20	32/30	838-8525
1320/600	29.5/750	86x22x20	24/22	838-8560

## Hydraulic Jacks

Hydraulic Jack is designed for repairs, maintenance and installation of heavy machines

- Compact and stable construction.
- Can be used in any position.
- Very low foot measuring only 25mm.
- Housing revolves 360 degrees.
- Lowering speed can be accurately adjusted.
- Protected against overloading.
- Pump Lever is removable.
- According to US standard USA ASME/ANSI B 30.1.1986.



### Cautions

TO AVOID POSSIBLE PERSONAL INJURY OR DAMAGE TO EQUIPMENT.

- Do not exceed the maximum load capacity of the jack.
- Do not add additional load to a lifted load.
- Do not use in unstable or hazardous positions.
- unit must be used on flat surfaces able to carry the load.
- The load must be stable during lifting (an unstable load may cause the jack or load to slip).
- Do not use jack(s), if damaged, altered, or in poor condition.
- Do not lift people or loads with people on them.
- Do not lift at the end of the toe, fully engage the load with the toe.



Capacity (Ton)	Lifting Range of Foot (inch/mm)	Lifting Range of Head (inch/mm)	Max. Lever Force (lbs/kg)	Net Weight (lbs/kg)	Order No.
5.0	1-8"/ 25-206	14.4-22.4"/ 368-574	84/38	44/20	838-6205
10.0	1-9.1"/ 25-233	16.1-25.2"/ 413-646	88/40	62/28	838-6210
25.0	2.3-9.1"/ 58-233	16.7-28.9"/ 505-740	88/40	203/92	838-6225

## Hydraulic Bottle Jacks

Conforms to ANSI/ASME safety standard



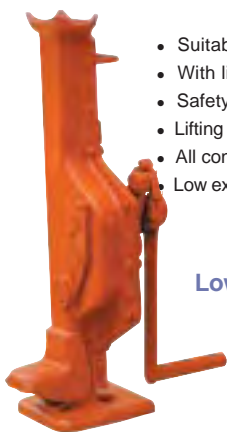
Order No. 838-6421    Order No. 838-6440    Order No. 838-6420    Order No. 838-6600    Order No. 838-6560    Order No. 838-6520    Order No. 838-6432    Order No. 838-6500    Order No. 838-6561    Order No. 838-6701

Capacity (Ton)	Min. Height (inch/mm)	Lifting Height (inch/mm)	Adjusting Height (inch/mm)	Base Plate (LxW) (mm)	N.W. (lbs/kg)	G.W. (lbs/kg)	Packing Size (LxXxH) (mm)	Quantities Pcs/Pack	Quantities 20' Container	Order No.
1.6	6.2/158	3.5/90	2.4/60	94x97	6/2.5	6/2.9	35.5x21x21	6	6204	838-6416
2	4.7/120	8.1/205		113x150	12/5.4	14/6.3	52x18x16	4	2856	838-6420
2	6.7/170	7.9/200	2.4/60	102x107	8/3.5	9.2/4.2	61x14x24	5	4285	838-6421
3.2	7.7/195	4.9/125	2.4/60	103x109	8/3.7	9/4.1	41.5x25x23	6	4386	838-6432
4	6.1/156	6.5/165	1.6/40	110x115	9/4.2	11/5.1	61x14x24	5	3525	838-6440
5	7.8/197	4.9/125	3.1/80	109x116	11/5	12/5.6	48x15x23	4	3212	838-6450
8	7.9/200	4.9/125	2.8/70	130x120	14/6.5	15/7	58x16.5x26	4	2568	838-6480
10	8.5/217	4.9/125	2.8/70	135x122	17/7.5	18/8	58x16.5x26	4	2248	838-6500
12	7.5/190	3.9/100	2.4/60	132x134	15/6.7	17/7.6	58x16x25	4	2368	838-6520
12.5	8.9/227	5.3/135	3.1/80	148x136	21/9.5	22/10	32x18x27	2	1800	838-6525
16	7.5/190	3.7/95	2.3/58	136x143	18/8.1	20/9	62x17x25	4	2000	838-6560
16	9.5/242	5.7/145	2.8/70	158x145	25/11.5	27/12.3	36x18x27	2	1462	838-6561
20	7.5/190	3.5/88	2.3/58	156x167	23/10.3	25/11.2	36x18x22.5	2	1606	838-6600
20	9.6/245	5.7/145	2.8/70	156x167	28/12.5	29/13.3	36x18x27	2	1352	838-6601
25	7.9/200	3.9/98		122x164	33/14.8	35/16	38x19.5x24	2	1124	838-6650
30	7.9/200	3.9/98		152x190	37/17	40/18.2	20x20.5x22.5	1	988	838-6700
30	11.2/285	7.1/180		152x190	51/23	53/24	20.5x20x30	1	750	838-6701
50	9.4/240	4.4/112		176x218	59/27	63/28.5	24x22x27	1	630	838-6900
50	11.8/300	7.1/180		176x218	75/34	77/35	24x22x32	1	514	838-6901



### Steel Jacks

#### DIN 7355 Type



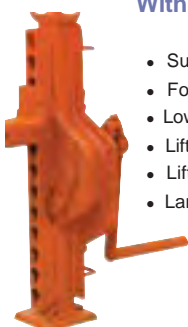
- Suitable for lifting loads of any type.
- With lifting body.
- Safety crank with folding handle.
- Lifting either with fixed toe or on clawed head.
- All construction components standardized.
- Low expenditure of force through optimal ratio.

#### Low Body Height Type

Safe Working Load (lbs/kg)	Height of Jack Body (inch/mm)	Lifting Height (inch/mm)	Height of Claw in Lowest Position (inch/mm)	Net Weight (lbs/kg)	Order No.
3300/1500	28.3"/ 725	13.7"/ 350	2.7"/ 70	26/ 12	838-7015
6600/3000	28.3"/ 725	13.7"/ 350	2.9"/ 75	44/ 20	838-7030
11000/5000	28.3"/ 725	11.7"/ 300	2.7"/ 70	53/ 24	838-7050
22000/10000	31.2"/ 800	11.7"/ 300	3.5"/ 90	92/ 42	838-7100
33000/15000	31.2"/ 800	13.3"/ 340	3.7"/ 95	128/ 58	838-7150
44000/20000	31.2"/ 800	13.3"/ 340	3.7"/ 95	139/ 63	838-7200

Safe Working Load (lbs/kg)	Height of Jack Body (inch/mm)	Lifting Height (inch/mm)	Height of Claw in Lowest Position (inch/mm)	Net Weight (lbs/kg)	Order No.
3300/ 1500	22.2"/ 570	11.7"/ 300	2.7"/ 70	24/ 11	838-7014
6600/ 3000	22.2"/ 570	11.7"/ 300	2.9"/ 75	40/ 18	838-7031
11000/ 5000	23.4"/ 600	11.7"/ 300	2.7"/ 70	48/ 22	838-7051
22000/ 10000	25.4"/ 650	11.7"/ 300	3.1"/ 80	84/ 38	838-7101

#### With Adjustable Lifting Claw



- Suitable for lifting loads of any type.
- For a variety of lifting points.
- Low expenditure of force through optimal ratio.
- Lifting claw adjustable in 6 positions.
- Lift completely usable.
- Large base plate.

Safe Working Load (lbs/kg)	Height of Jack Body (inch/mm)	Lifting Height (inch/mm)	Height of Claw in Lowest Position (inch/mm)	Net Weight (lbs/kg)	Order No.
6600/ 3000	28.1"/ 720	13.7"/ 350	2.7"/ 69	55/ 25	838-7032
11000/ 5000	28.1"/ 720	11.7"/ 300	2.5"/ 64	66/ 30	838-7052
22000/ 10000	30.1"/ 792	11.7"/ 300	3.3"/ 85	84/ 48	838-7102

Capacity	Position 1	Position 2	Position 3	Position 4	Position 5	Position 6
3 ton	2.7"/ 69mm	6.5"/ 166mm	10.4"/ 263mm	14.2"/ 360mm	18"/ 457mm	21.8"/ 554mm
5 ton	2.5"/ 64mm	6.3"/ 161mm	10.2"/ 258mm	14"/ 355mm	17.8"/ 452mm	21.6"/ 549mm
10 ton	3.3"/ 85mm	7.5"/ 191mm	11.7"/ 297mm	15.9"/ 403mm	20"/ 509mm	24.2"/ 615mm

### Floor Jacks

- Manufactured to conform the CE and ANSI/ASME safety standard.
- Upper lifting limit safety bypass.
- Rugged steel structure



Capacity (lbs/kg)	Min. Height (inch/mm)	Max. Height (inch/mm)	Lifting Height (inch/mm)	Safety Standard	Net Weight (lbs/kg)	Application	Gross Weight with Color Box (lbs/kg)	With Color Box Order No.	Gross Weight with Plastic Case (lbs/kg)	With Plastic Case Order No.
4400/2000	5.3"/135	15.2/385	9.8/250	CE/GS	26/12	Light Duty	29/13	838-9201	31/14	838-9203
4400/2000	5.3"/135	13.5/342	8.1/207	CE/GS	21/9.5	Light Duty	23/10.5	838-9202	24/11	838-9204
4950/2250	5.3"/135	15.2/385	9.8/250	ANSI/ASME	29/13	Light Duty	31/14	838-9231	33/15	838-9233
6600/3000	5.3"/135	15.4/392	10/257	CE/GS	42/19	Light Duty	46/21	838-9301		
4950/2250	5.3"/135	19.3/490	14/355	CE/GS	75/34	Heavy Duty	79/36	838-9232		
5500/2500	5.3"/135	19.3/490	14/355	CE/GS	75/34	Heavy Duty	79/36	838-9250		
6600/3000	5.3"/135	19.3/490	14/355	CE/GS	79/36	Heavy Duty	84/38	838-9300		

### Quick Lifting Forklift Jack

	Low Position	High Position
Capacity	4000kg/8800lbs	5000kg/11000lbs
Min. Lifting Height	65mm/2.6"	414mm/16.3"
Max. Lifting Height	425mm/16.7"	724mm/28.5"

Net Weight.....45kg  
 Gross Weight.....47kg  
 Overall Dimensions .....680x210x415mm  
 Packing Dimensions.....700x240x340mm

Order No. 838-6150



### Long Frame Floor Jacks

- Heavy duty design and better performance.
- Top quality hydraulic system with Japanese seal kits.
- Confirm to CE/GS and ANSI/ASME safety standard.

Order No.	838-6320	838-6330	838-6350	838-6400
Capacity (kg)	2000	3000	5000	10000
Max. Height (mm)	800	600	560	560
Min. Height (mm)	140	130	150	160
Lifting Height (mm)	660	470	410	400
Net Weight (kg)	58	70	95	145
Gross Weight (kg)	65	90	115	170
Packing Size (mm)	1250x470x210	1460x370x300	1570x420x30	1700x530x340
Quantity in 20' Container	220	160	128	98



### Forklift Jacks

Order No.	838-6140	838-6170
Capacity	4000kg/8800lbs	7000kg/15400lbs
Min. Lifting Height	60mm/2-1/3"	67mm/2.68"
Max. Lifting Height	406mm/16"	425mm/16.70"
Width	203mm/8"	250mm/9.83"
Net Weight	33kg/72.6lbs	49kg/107.80lbs
Gross Weight	35kg/77lbs	53kg/116.60lbs
Packing Size	740x240x480mm 29.1x9.5x18.9"	845x275x715mm 33.3x10.9x28.1"

- High capacity and rugged construction.
- Extra low pick up point and 2-position lift pad for hard-to reach places under low profile lift trucks.
- Special designed hydraulic pump with Germany seal kits and overload valve.
- Removable handle and compact size.
- Meets CE standard and ANSI standard.



### Forklift Support Stands

- Provide to support forklifts and heavy machinery.
- Heavy duty design and wide base.
- Heat treated Heavy duty holding pins.
- Adjustable from 242mm(9-1/2") to 406mm(16").
- Sold in pairs.

Order No.	838-6113	838-6118
Capacity(Ton)	13	18
Min. Lifting Height	242mm/9-1/2"	242mm/9-1/2"
Max. Lifting Height	406mm/16"	406mm/16"



Order No. 838-6113

Order No. 838-6118

### Jack Stands

The weight of the load prevents the ratchet pawl from disengaging while under load  
Heavy-duty, all steel, welded construction  
Sold in pairs only



Order No.838-9402

Order No.838-9403

Order No.	838-9402	838-9403	838-9406	838-9412
Capacity (lbs/ton)	4400/2	6600/3	13200/6	26400/12
Min. Height (mm)	278	286	388	500
Max. Height (mm)	432	426	610	775
Adjust Range (mm)	154	140	222	275
Net Weight (kg)	4.8	6.5	13.1	32
Gross Weight (kg)	5.4	7	14.1	34
Packing Size (mm)	200X180X340	200X180X350	285X250X450	340X390X565



Order No.838-9406



Order No.838-9412

## Trailers Stabilizer Jacks

A "Must" for safely loading and unloading trailers!

Meet OSHA Specification with our wide variety of Trailer Stabilizing Jacks OSHA 1910.



### A. Spin-Top Jack

Static capacity: 100,000lbs(45ton)  
Lifting capacity: 40,000lbs(18ton)  
Service range: 39-1/2"-51"  
ACME threaded screw design  
Cap size: 8" diameter  
Base plate: 14" diameter x 1/2"thick  
Wheels: heavy duty 10" semi-pneumatic transport wheels  
Net weight: 125lbs(57kg)

Order No. 838-9501



### B. Ratchet Beam Jack

Static capacity: 100,000lbs(45ton)  
Lifting capacity: 50,000lbs(22.5ton)  
Service range: 39-1/2"-51"  
Beam size: 6" wide x 24" long  
Base plate: 15" triangular  
Wheels: 8" semi-pneumatic; 4" semi-steel  
Net weight: 195lbs(88.63kg)

Order No. 838-9502



### C. Economy Trailer Stabilizing Jack

Static capacity: 50,000lbs(22.5ton)  
Lifting capacity: 5,000lbs(2.25ton)  
Height adjustment: 44-51"  
Top plate: 5x5"  
Base plate: 14" diameter  
Net weight: 45lbs(20.5kg)

Order No. 838-9503

## Pallet Pullers

The pallet pullers are used to pull loaded pallets, slide heavy crates, etc., to edge of dock or truck, so it can be picked up with forklift truck. Variable jaw width grabs pallet securely and automatically releases.

Rugged steel construction. 2-3/4"high heads are self-cleaning and unaffected by wood particles, paint or grease. 1/4"proof coil chain included for attaching pull chain.



### A. Scissor Action

One-piece curved heads have integral spurs for gripping pallet stringers. Scissor action 30" long. 30" long chain.

Order No. 837-4001

### C. Cam Action

Cam closing action provides maximum gripping strength and reduced pinch points. Safety handle enables easier positioning and removal of separated heads. Grip both metal and wood pallets with biting action. 15-1/2"long. 7-1/2"long chain.

Order No. 837-4003



### B. Scissor Action

Single scissor action allow for wider jaw opening. Opens to 5-1/2". Overall closed length: 19-1/2". 30"long chain.

Order No. 837-4002

Max. Pallet weight	For stringers	Length	Net weight	Order No.
5000 lbs	Up to 3"	30"	21 lbs	837-4001
5000 lbs	Up to 5-1/2"	19-1/2"	12 lbs	837-4002
5000 lbs	Up to 3-1/2"	15-1/2"	14 lbs	837-4003

## Cargo Bars and Hoops

Secures and helps keep load from shifting and falling in transit.

Use between walls or floor and roof of van, truck, trailer or rail car.

Push against load and expand to secure load. For the best results, use cargo bar in pairs.

Cargo hoops are recommended for securing large areas, and attach easily to cargo bar.



Order No. 837-3001

### A. One-Piece Aluminum Cargo Bar

837-3001 is constructed of light-weight extruded aluminum tubing that will not rust. Service range is 87 to 103". Articulating footpads are located at each end. Easy to operate locking handle secures bar into position.



Order No. 837-3003

### C. Two-Piece Galvanized Steel Telescoping Cargo Bar

837-3003 adjusts from 64 to 140". Made of 1-1/2" square 14-gauge tubing. Galvanized steel construction is ideal for refrigeration trucks. 4" square rubber pads are vulcanized to metal ends for a more secure fit and longer life. Articulating pads allow angled mounting.



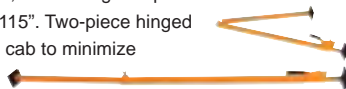
Order No. 837-3004

### D. Steel Cargo Bar

837-3004 steel cargo bar helps keep your cargo in place without damaging walls. Adjusts from 82-1/2 to 110" and features a heavy duty locking ratchet with 3-3/4" square rubber footpads. One piece unit is constructed of 1-1/2"steel tube for substantial strength.

### B. Folding Steel Cargo Bar

837-3002 consists of 1-1/2" square 14-gauge tubing for substantial strength. Easy-to-operate mechanical ratchet will not slip or vibrate loose and works well in freezing and wet conditions. 4" square, rubber protected, articulating end pads keep bar in place. Adjusts from 87 to 115". Two-piece hinged bar can be folded and stored in trailer cab to minimize pilferage.



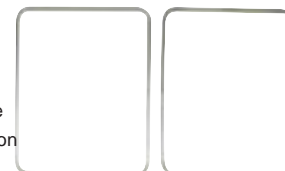
Order No. 837-3002

### E. Cargo Hoops

For use with 837-3002, -3003 and -3004.

837-3005 are constructed from galvanized steel and each measures 24" W x 36" L. Expand the retention area to secure a large area of smaller boxes or cartons. Installation hardware is included.

Sold in pairs.



Order No. 837-3005

### Drum Lifter

- Easy moves and handles open or closed head, loaded steel drums. Allows quick, gentle loading into overpacks and keeps drums upright during lift. Reducing spills and injuries.
- Works easily with overhead hoist or hook from forklift.
- All-steel construction.

Capacity: 350kg  
For lifting 210 litre steel drum.  
Net Weight: 9.5kg

**Order No. 838-0035**



- Welded gripping hooks.
- Fitted with 20mm diameter steel pin for attaching to overhead hoist or crane.

Capacity: 360kg  
for lifting 210 litre Steel Drum/plastic drum with L/X rings  
Net Weight: 4.5kg

**Order No. 838-0036**



### Drum Carrier

- Raises, transports, rotates, tilts and drains fully loaded drums.
- High strength lifting components, secured by high strength, wear resistant chain.
- 55gallon(210 liters), 22-1/2"(572mm) diameter.
- Net weight 110lbs(50kg).
- Disassembled to save freight costs.

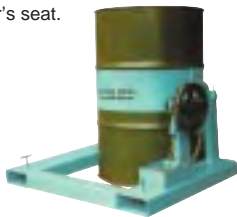
**Order No. 837-0011**



### Forklift Drum Carrier

- Easily lift, transports, raise, tilts and load drums.
- 10' pull-chain loop allows control from the driver's seat.
- Net weight 170lbs(77kg).
- Full capacity: 800lbs(364kg), Half full capacity 500lbs(227kg)
- Drum size: 22-1/2"(572.18mm)diameter, 55gallon(210liters).

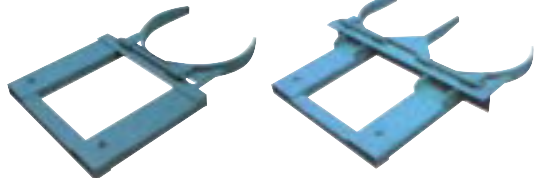
**Order No. 837-0017**



### Drum Grabs

#### Fork Mounted Automatically!

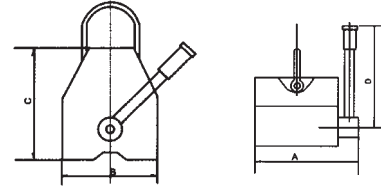
Easily and quickly lift drums without hydraulic or electric connections. Simply slip onto forks and screws. Heavy duty steel construction. Lifts, transports and deposits drums without leaving the driving position. Firm pressure is automatically applied by action of the loaded drum is firmly maintained in the same position until deposited, it is then automatically released.



Order No.	838-0015	838-0017
Drum Gallon	55	55
Capacity	1500 lbs	1500 lbs
Fork Pockets	5-1/2x2x22"	7x2-1/4x26"
Net Weight	143 lbs	230 lbs

### Permanent Magnetic Lifts

Designed for efficient, trouble free, low maintenance service.



**Order No. 625-0210**

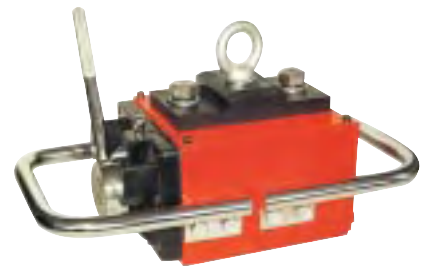


**Order No. 625-0230**

Max. Magnetic Power to Round workpiece	Max. Magnetic Power to Flat workpiece	Max. Magnetic Size A x B x C x D	Weight	Order No.
110lbs/50kg	220lbs/100kg	5"x2-2/5"x2-3/5"x5-1/2" (125x62x67X140mm)	6.2lbs/2.8kg	<b>625-0210</b>
220lbs/100kg	440lbs/200kg	6"x3-3/5"x3-3/5"x6-7/10" (152X91X91X170mm)	15.4lbs/7kg	<b>625-0220</b>
330lbs/150kg	660lbs/300kg	8"x3-3/5"x3-3/5"x6-7/10" (195X91X91X170mm)	22lbs/10kg	<b>625-0230</b>

### Heavy Duty Permanent Magnetic Lift

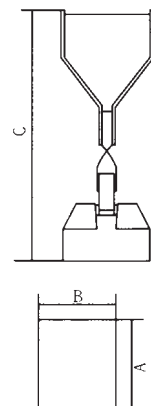
Magnetic Power: 400kg  
Length: 205mm  
Width: 135mm  
Height: 180mm  
Weight: 43kg



**Order No. 625-0240**

### Hand Use Magnetic Lift

Magnetic Power: 50kg  
Length A : 120mm  
Width B : 100mm  
Height C : 270mm  
Weight: 3kg



**Order No. 625-0005**



## Arbor Presses

### Single Leverage

- Lever arm allows you to easily change positions comfortably for maximum leverage.
- Convenient front and side gib adjustment.
- 4 Position anvil.
- Heavy duty construction for long lasting reliability.
- Steel pinions and rams.



Capacity (Ton)	Height of Press	Max. Work Diameter	Cap Over Table	Ram	Largest Arbor	Order No.
1/2	10"	6-1/2"	4-1/2"	7-1/2"	1"	805-1005
1	13"	8"	5-1/4"	9-1/2"	1-1/8"	805-1010
2	18"	12"	8-1/2"	14"	1-5/8"	805-1020
3	23"	12"	12-1/2"	18"	1-3/4"	805-1030
5	35"	17"	18"	27"	2-7/8"	805-1050

### Ratchet Type

- Ratcheting presses put lever arm in most comfortable position for final application of force.
- Counterweight assures quick return with hand wheel advance.
- Hand wheel advances ram to work.



Capacity (Ton)	Height of Press	Max. Work Diameter	Cap Over Table	Ram	Largest Arbor	Order No.
2	18-1/2"	11-7/8"	3-1/2"	13-1/2"	1-7/8"	805-1120
3	21-1/2"	12"	12-5/8"	18"	2-1/2"	805-1130
5	34-1/2"	17"	18-1/4"	27-1/2"	3"	805-1150

## Deep Throat Lever Press

Specification:

- Capacity: 5"
- Throat Depth: 6"
- Ram Dia: 5/8"
- Pressure: 1/4 ton
- Hole Size: 1/4" x 2pcs
- Base Size: 5" wide x 12" long
- Height: 7.625"



Order No. 805-1162

## Precision Lever Press

Specification:

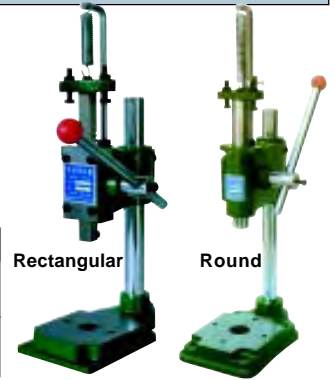
- Capacity: 5.125"
- Max Diameter: 4.125"
- Pressure: 1/2 ton
- Opening(ram to column):5"x2-1/16"
- Hole Size: 1/4"x 2pcs
- Base Size: 2.875"Wide x5.5" Long
- Height: 7.75"
- Weight: 14lbs



Order No. 805-1161

## Hand Punches

The punch is designed to use in family, school, small factory. The spring could make the arbor reach "0" position automatically.



Type	Arbors	Order No.
Standard	Rectangular	805-1205
Heavy Duty	Rectangular	805-1206
Standard	Round	805-1207
Heavy Duty	Round	805-1208

## Hand Puncher

- It is easy to punch a hole in steel plate.
- Punch die is interchangeable.
- Max. Punching Capacity :
  - Steel Plate Thickness 8mm  
punch Dia. 20mm
  - Steel Plate Thickness 10mm  
punch Dia. 16mm
- Throat Depth: 160mm.

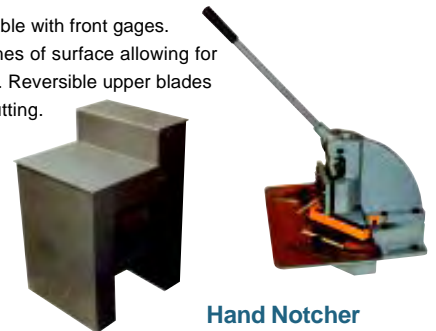


Order No. 130-5105

## Hand Notcher

Heavy duty notcher cuts all shearable material with ease; steel, aluminum, plastic and rubber.

Includes 12" x 18" ground table with front gages. The gages offer a full 6 inches of surface allowing for easy and accurate squaring. Reversible upper blades for both splay and pierce cutting.



### Operation Stand

Stand Size: 22"x20x30", Weight: 90Lbs  
Order No.130-5101

### Hand Notcher

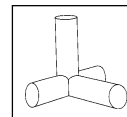
4 Ton, capacity:16 Gauge  
Order No. 130-5100

### Specification

Capacity	Notch	Stroke	Table Size	Weight	Body Height
16 Gage	6x6x90°	3/4"	12x18"	210lbs	18-1/2"

## Tube Notchers

- Operated on tubes with up to 3 mm wall thickness which material range from steel or non-ferrous metal.
- Advantage for joining and welding of tubes at a 90 degree angel.
- One device covers several tube diameters.
- Horizontal and vertical operation.
- Suitable for double-connections.



Tube Diameters	Order No.
27-43mm(1-1/16"-1-11/16")	130-5170
48-61mm(1-7/8"-2-13/32")	130-5175

### Bench Metal Shears

- Long handle provides plenty of shearing torque.
- Comes with pre-drilled holes to bolt down to workbench.
- Replacable blades made from high grade tool steel.

Blade Length	Capacity		Blade Only	
	Round	Plates	Order No.	Order No.
5"	3/8"	3/32"	130-5785	130-5795
6	3/8	3/32	130-5786	130-5796
8	7/16	1/8	130-5788	130-5798
10	7/16	1/8	130-5790	130-5799
12	7/16	1/8	130-5792	130-5793



### Mini Sheet Metal Cutter

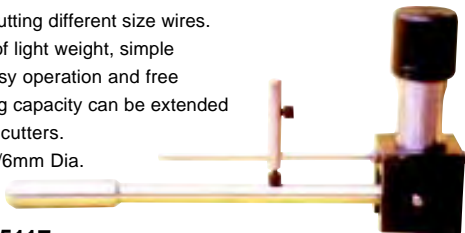
For use on mild steel. 16gauge capacity. Adjustable rollers can be used for straight or curved cuts. 2" Throat. Can be mounted to work bench or held in a vise. 3"x2-1/2" Base with 2 mounting holes. 11" Handle. 4-3/4" overall height (less handle)



**Order No. 130-5115**

### Hand Operated Wire Cutter

Designed to achieve better surface finish and lower distortion on cutting different size wires. Feature characters of light weight, simple construction for easy operation and free maintenance. Cutting capacity can be extended by change different cutters. Capacity: up to 1/4"/6mm Dia.



**Order No. 130-5117**

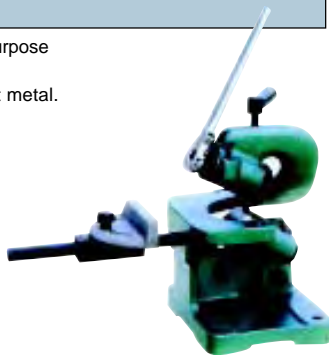
### Plate Cutter

Versatile Metal Cutting Machine, Multi-purpose

- For straight and round cutting of sheet metal.
- No power required.

#### Specifications

Material	Gage
Stainless Steel.....	13
Steel Plate.....	12
Aluminum & Copper Plate.....	8

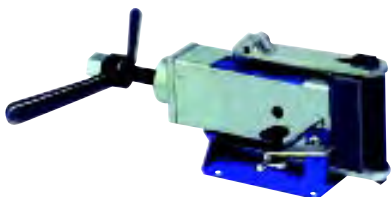


**Order No. 130-5713**

### Form Bender

#### Features:

- For cold forming of steel and metals.
- Including set-up plate for table clamping.
- Punch and die tools are available for tool bending.
- The Max. Bending force is 2.5 Ton.
- Min. Adjustment 2.5mm.
- Max. Bending capacity:  
Round material up to 20mm,  
Square material up to 18mm  
Flat material:  
20mm(width)x18mm(Thick)  
50mm(width)x11mm(Thick)  
100mm(wdth)x8mm(Thick)



**Order No. 130-5125**

### Steel Tube & Pipe Notchers

Notches, copes, or saddles any pipe or tube up to 2" in diameter, round or square. Easy set-up for angles to 45°.

Uses all standard hole saws up to 3" with either a 1/2-20 or 5/8-18 thread mount.

1/2" diameter drive shaft for use with any 1/2" capacity drill motor. Made of heavy plated chrome steel.

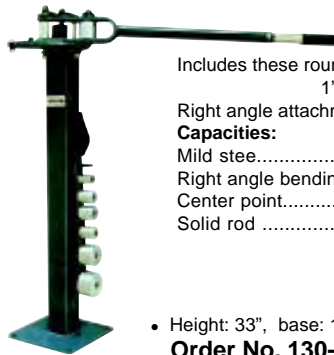
The pipe clamp has a black oxide finish. 5-1/4x3 mounting plate with 3-1/4" drilled holes. Weight 9lbs. Hole saw not included.



**Aluminium Structure**  
**Order No. 130-5111**

**Steel Structure**  
**Order No. 130-5110**

### Compact Benders



Includes these round dies:

1", 1-1/4, 1-1/2, 1-3/4, 2", 2-1/2, and 3".

Right angle attachment. Handles telescope to 44".

#### Capacities:

Mild steel..... 5/16x1-1/4 or 1/4x2"  
Right angle bending..... 3/16x1-1/4 or 1/4x1-1/4"  
Center point..... 1/4" thick (use 1" die for greater)  
Solid rod ..... 1/2" (use 3" die)

- Height: 33", base: 10" x 10"
- Order No. 130-5070**

### Bench Model

- Height: 8", base: 8.6" x 8.6"
- Order No. 130-5071**



### Twister Attachment

- Capacity 1/2" pickets 36" long in hot rolled, square mild steel. Handle 25" x 1-1/4".

**Order No. 130-5072**



### Scroll Attachment

- Capacity 3/16x1/2 to 3/16x1" mild flat steel.

**Order No. 130-5073**

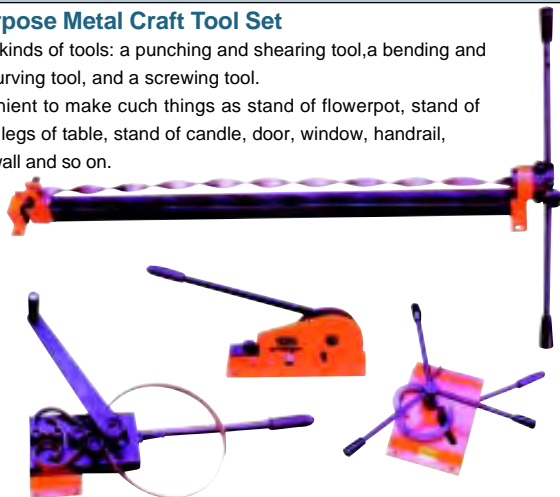


## Compact Benders

### Multipurpose Metal Craft Tool Set

Includes 4 kinds of tools: a punching and shearing tool, a bending and rolling, a curving tool, and a screwing tool.

It is convenient to make such things as stand of flowerpot, stand of telephone, legs of table, stand of candle, door, window, handrail, bounding wall and so on.



Up to 5x30mm, shear, bender, twist former, screw former.

Order No. 130-5075

Up to 3x16mm, shear, bender, twist former, screw former.

Order No. 130-5074

## Hydraulic Bender

Bends pipe and tube from 1/2" to 2" diameters, up to 180°. Bending bars are adjustable to accommodate distances of 8-1/2", 11-1/4", 12", 19-1/2", and 22-1/4". Steel frame is 4" deep, 21" high and 24" wide. Includes 12 ton jack. Weighs 120lbs.



Order No. 130-5120

## Hydraulic Bender

Make 90° bends in rigid steel and rigid aluminum 1/2 to 3" capacity, 10 ton output. Includes steel frame & pipe supports, cast iron shoes and a hydraulic unit. Positive lock pipe support pins and one piece frame for easy pipe insertion and removal from front. Shoes included for 1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, & 3" pipe sizes.



Order No. 837-6310

## Rebar Cutter/Bender

- It is designed to cut steel bar, which diameter is not more than 3/4", and could bend the rebar to 90° maximum, by adjusting the clamp arm.
- Base: 12-3/64"x6"
- Weight: 80lbs.



Knives Only  
Order No. 130-0020

Order No. 130-5010

## Mighty Mini Benders

- For shops, schools, and hobbyists.
- Clean smooth bends up to 90°.
- Use for heating and cooling ducts. Production runs or one time fabrication of boxes, covers and trays.
- 18" bender could bend and form up to 16 Gauge thick sheet metal. Certain applications require a cut of 1" deep slot in brake bar.
- 30" bender handles up to 16 Gauge aluminum & 18 Gauge steel.



18"x16gauge  
Order No. 130-5018

30"x18gauge  
Order No. 130-5030

## Bead Roller Kit

- Cut, form, roll beads and make perfect flanges with one benchtop tool.
- Perfect for auto body works-make your own wheel tubs, battery trays, dash-boards, fire walls, floor pans and other sheet metal parts and accessories.

### Capacities:

Mild steel.....18 gauge  
Throat.....15"x7/8"  
Dimensions.....8"x28"  
Weight.....60lbs



Order No. 130-5060

## Bend Roller Fence Attachnebt

Helps you make accurate beads, bends and cuts.  
Weight: 3 lbs.



Order No. 130-5062

## Universal Bender

Forms wire, flat metal and tubing into clamps, handles, brackets, hooks, coils and more!

Makes sharp angle bends in wire and rod up to 5/16" diameter and in flat metal to 1" x1/8". Steel construction, weighs 6lbs. Fits into a tool box and mounts on a bench or vise. Includes circle pins for 3/16, 1/4, 1/2" diameter circles, 1" diameter circle die, form pin follower, sharp angle die, gage and handle. Optional edge bender kit adds edgewise bending capability for ductile materials to 0.12" thick and 3/4" wide. Optional circle dies form perfect circles in various diameters.



Order No. 130-5040

## Universal Bender

For angular, roll, hoop and coil bending to produce grids, doors, gates, balcony railings, patio furniture as well as rod iron lamps, Suitable for steel, brass, copper, and aluminum.

Bending strength:  
28.5 Tons per square inch.

Capacity(steel):  
Round Bar: 5/8"  
Square Bar: 1/2"  
Flat Bar: 1-3/16x5/16"



Order No. 130-5045



## Gear Driven Ring Roller

Precision, high quality machined roller forms rings out of not rolled flat stock, Metal sizes 3/16"x1" and up to 1/4" roud, Create rings from 3" diameter to as large as you need. All surface are heat-treated and hardened for long life.



Order No.130-1111

## Power Roll

Product Description

Capacity....50" x 16 gage.  
 Motor.....  
 ..220V/440V, 3-PH., 1HP.  
 Roll speed.....22 RPM.  
 Dia. of roll.....3".  
 Min. radius.....1.5".



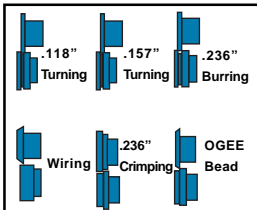
Order No.130-5116

## Rotary Machine

- Performs burring, edging, elbowing, flanging, flattening and turning.
  - Long throat makes unit highly versatile.
  - Includes 6 rolls: 2 turning, 1 each of burring, wiring, crimping, and ogee bead.
  - Standard clamp for table mount operation.
- Cutting Capacity.....22Gage  
 Distance Between Shaft Centers.....  
 .....2" (50.8mm)  
 Depth of Throat to Frame.....7" (175mm)  
 Net Weight.....64Lbs(29 kgs)  
 Gross Weight.....71Lbs(32kgs)  
 Overall Dimension (LXWXH).....  
 .....16"x8"x16"(458x203x406mm)



Order No. 130-5400



## Slip Rolls

- Maximum gauge capacities are applicable when using mild steel.
- Using galvanized steel lowers the maximum gauge capacity.



Order No. 130-3622

Order No. 130-5016

Capacity	Dia.of Rolls	Weight	Slip Rolls Order No.	Optional Stands Order No.
12"x22Ga.	1"	37lbs	130-1222	130-1229
24"x20Ga.	2"	140lbs	130-2420	130-2429
36"x22Ga.	2"	280lbs	130-3622	130-3629
50"x16Ga.	3"	570lbs	130-5016	130-5019

## Power Table Feeds

135 or 150lbs /inch of torque for mills with 5/8 Lead Screw

- Fits most Bridgeport and Bridgeport type milling machines.
- Speed: 4-180 RPM.
- Bevel Drive Gear Rate 4:8:1, Pilot light.
- A pivot light, on/off switch.
- Protective circuit breaker.
- Travel stop/limit, Internal Clutch, Helical Gearing.
- Strengthened Nylon "spiral gear".
- Automatic shutoff with electric limit switches.
- Central knob to control speed.
- Push button turns motor on for rapid traverse.
- Single lever controls engage, disengage, start, stop and direction of feed.
- Safety limit switches.



Axis	Volt/Frequency	Torque	Order No.
X-axis	115V/60Hz	135lbs	199-1050
X-axis	115V/60Hz	150lbs	199-1051
X-axis	240V/50Hz	135lbs	199-1049
Y-axis	115V/60Hz	135lbs	199-1052
Y-axis	115V/60Hz	150lbs	199-1053
Y-axis	240V/50Hz	135lbs	199-1054
Z-axis	115V/60Hz	150lbs	199-1055
Z-axis	240V/50Hz	135lbs	199-1056
Feed Horizontal type	115V/60Hz	150lbs	199-1057
Feed Horizontal type	240V/50Hz	135lbs	199-1058

## Parts Washers

This parts washer is design for use in shops ranging from the home mechanic garage to heavy industry. Feature: enclosed pump, seamless construction.



Order No. 199-1035



Order No. 199-1043



Order No. 199-1026



Order No. 199-1022

Capacity	Order No.
3.5 gallon (portable style)	199-1035
6gallon	199-1026
20 gallon	199-1022
30 gallon	199-1030
40 gallon	199-1040
50 gallon	199-1043



## 3 in 1 Combination of Shear, Brake & Rolls

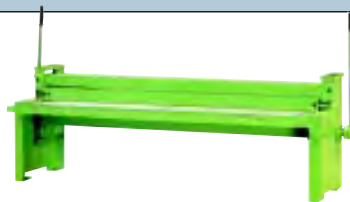
- Removable male dies with female dies.
- Micro adjustable set back Gauge standard equipment.
- One piece 24" two position handle.



	Order No. 130-1200	Order No. 130-2400	Order No. 130-3000	Order No. 130-4000	Order No. 130-5231
Specifications	12"	24"	30"	40"	52"
Width	12"	24"	30"	40"	52"
Rolling Dia.	1-1/2"	1-1/2"	1-1/2"	1-1/2"	2"
Weight	115lbs	264lbs	285lbs	570lbs	680lbs
Optional Stands	13B-0312	13B-0324	13B-0330	13B-0340	13B-0352

## Hand Shear

Order No.	130-5155
Dimension	96"x29-1/2"x41-1/3".
Weight	550lbs.
Max Shear Width	78-5/8".
Shear Thickness	1/20"



## Precision Foot Shears

### 37" & 52" x 16 Gauge

- Front, Side & Back Gauge.
- Use for mild steel, aluminum, copper, brass, zinc, plastic and lead.
- Finger guards.
- High chrome high steel blade.



Specifications	37" x 16 Gauge Order No. 130-3700	52" x 16 Gauge Order No. 130-5200
Capacity: 16 Gauge	37"	52"
Range Back Gauge	30-3/4"	30-3/4"
Range Front Gauge	35"	37-1/2"
Weight(N.W.)	775lbs	1,030lbs

## 40" Bending Brake

- Dimension: 63-1/2"x23-1/2"x50".
- Bends 16 gauge steel.
- Weight 1600lbs.



Order No. 130-5140

## 7-1/2" Mini Shear Brake

- Blade length: 8".
- Max. Cutting/ Bending length: 7-7/8".
- Mounting base 9"x5".

Capacities:  
Copper and brass.....20gauge  
Aluminum.....18gauge



Order No. 130-5050

## 24" Bending Brakes

- Unlimited throat depth.
- 4" opening.
- 18 gage capacity.
- Maximum angle 135 degree.
- Fully Steel construction with a machined bending edge.
- Both simple and complex forming, like boxes, trays, covers, etc.
- Unique toggle clamp designed for quick and positive clamping.



Order No. 130-3024

## Bending Brakes



Order No. 130-5130



Order No. 130-5135

Specifications	Order No. 130-5130	Order No. 130-5135
Width	41"	42"
Capacity	18Gage	18Gage
Weight	205lbs	209lbs
Dimension	54"x40"x38-1/2"	51-1/2"x38-1/2"x30-1/2"

## Power Slitter



Specification

Order No.	130-1011	130-1012	130-1013	130-1014
Max Cutting Cap. (Mild steel)	20gage(0.359")	16gage(0.598")	16gage(0.598")	14gage(0.747")
Max Cut Width	24.25"	24.25"	30.25"	24.25"
Min Cut Width	1.25"	1.25"	1.25"	1.25"
Horsepower	90sfm	90sfm	90sfm	90sfm
Voltage	1/3ph	3/4ph	3/4ph	1ph
Phase	115V	115/230V	115/230V	115/230V
Cycle	1ph	1ph	1ph	1ph
Full Load Amps	60Hz	60Hz	60Hz	60Hz
Shaft Diameter	6.4amps	11.6/5.8amps	11.6/5.8amps	15.2/7.6amps
Blades	1.25"	1.50"	2.0"	2.0"
Side Wall Thickness	2pcs	2pcs	2pcs	2pcs
Weight	4x0.5x0.75"	4x0.5x0.75"	4x0.5x0.75"	4x0.5x0.75"
	0.375"	1"	1"	1"
	215lbs	375lbs	540lbs	460lbs

### Hand Bending Brakes

- Bending Length 97"
- Bends 22 gauge steel
- Weight 790lbs.

**Order No. 130-5150**



- Bending Length 60"
- Bends 20 gauge steel
- Weight 680lbs.

**Order No. 130-5145**

### 12" Bench Hand Brake

Perfect for the home hobbyist and delicate forming jobs.

- Mild steel up to 18 gage.
- Adjustable cams for bending from 0 to 135 degree.
- Ground bed for clean, straight edge forming.



**Order No. 130-5112**

### 48" Hand Brake

#### Solid Finger Model

Simple, easy to set up and operate. Body sections are welded steel plate, with heavy truss rods and braces.

- Capacity mild steel: 20 gage.
- Bending length: 48-1/4".
- Max. Depth of box: 4"
- Max. lift of beam: 1-1/4"
- Ship weight: 470 lbs.



**Order No. 130-5160**

### Universal Brakes

- Completely portable.
- Rigid cast iron.
- Bronze bushings.
- Maximum gage capacities are applicable when use mild steel.
- Using galvanized steel lowers the maximum gage capacity.

Max. Bending Length.....36"  
 Capacity Mild Steel.....16Gauge  
 Max. Lift of Beam .....3/4"  
 Finger Width.....1-6"  
 Max. Depth of Box.....3"  
 Weight.....405lbs



**Order No. 130-3616**

### Sheet Metal Pan & Box Brakes

- Removable fingers.
  - Maximum gauge capacities are applicable when using mild steel.
- Using galvanized steel lowers the maximum gauge capacity.



Specification	48"x22 Gauge Order No.130-4822	48"x16 Gauge Order No.130-4816
<b>Capacity: Mild Steel</b>	22 Gauge	16 Gauge
<b>Stainless Steel</b>	26 Gauge	20 Gauge
<b>Max. Beam Lift</b>	7/8"	1-1/4"
<b>Max. Bend Length</b>	48-1/4"	48-1/4"
<b>Min. Reverse Bend</b>	5/16"	5/16"
<b>Finger Width</b>	2",3",4"	2",3",4"
<b>Number of Fingers</b>	16	16
<b>Max. Box Depth</b>	3"	3"
<b>Beam Adjustment</b>	0-1/8"	0-5/8"

### Pan & Box Brake

#### Heavy-Duty Floor Model, 48"x12 Gage

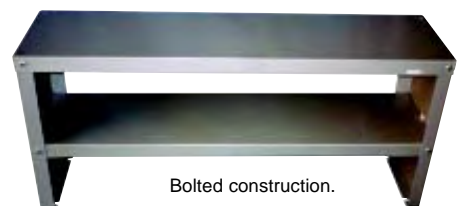
Capacity: Mild Steel.....12 Gauge  
 Stainless Steel.....16 Gauge  
 Max. Bending Length.....48-1/2"/1220mm  
 Max. Beam Lift.....1-1/2"/38mm  
 Beam Adjustment.....0-1/2"(0-13mm)  
 Net Weight.....1280lbs/581kg  
 Gross Weight.....1587lbs/720kg



**Order No. 130-4812**

### Brake Stand

for 48"x16 & 48"x22 Pan & Box Brakes



Bolted construction.  
 Painted steel plate

**Order No. 130-4899**

## Cutter Master

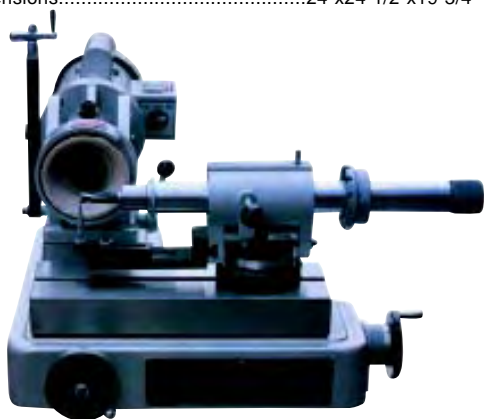
### End Mill Grinder

Specialized for grinding various End Mills, Countersinks, Taps, Drills and Machine Tools

- Simple, safe operation—anyone can learn.
- High-grade castings throughout, precision machined and fitted!
- Rapid mounting of attachments.
- Sliding motor mount for rapid setting and lock.
- Wired for 110 Volts, single-phase motor.
- Uses standard 5C Collets.
- Dovetail ways with adjustable gibs.

#### Specifications

Max. Grinding Dia.....	8-21/32"
Max. Grinding Length.....	9-1/4"
Air Bearing Fixture Center Height.....	4-3/4"
Longitudinal Table Travel.....	.6"
Worktable Surface Dimension	
Longitudinal.....	16-1/2"x5-21/32"
Cross.....	12-29/32"x5-21/32"
Worktable T-Slot.....	1/2"x3/4"x5/16"
Table Infeed Graduation.....	.0001
Max. Wheel.....	5"x2"x1-1/4"
Tilt Adjustment For Wheelhead.....	+30°-5°
Wheel Spindle Revolution.....	3450R.P.M.
Air Bearing Stroke.....	9-1/4"
Motor.....	1Phase,110V/220V
Overall Dimensions.....	24"x24-1/2"x19-3/4"

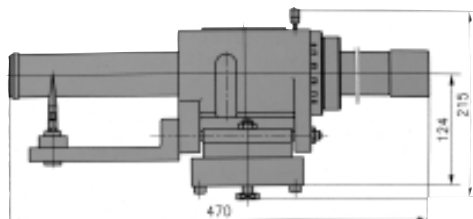


Order No. 287-6540

### Air Bearing

This air bearing is one of main attachment for Cutter Master, which can be used with other sharpener too.

Main Technical parameters:  
 Max Stroke of Air Bearing Sleeve: 9"  
 Collet Type: 5C  
 T slot of worktable: 1/2"(12.7mm)  
 Air Consumption: >=0.63Mpa  
 Pipe Joint: Z 1/4"  
 Swivel: 360degree  
 Parallelism of workhole center line to the base: 0.001mm/100mm  
 TIR of workhole center line(60mm from hole end): 0.015mm



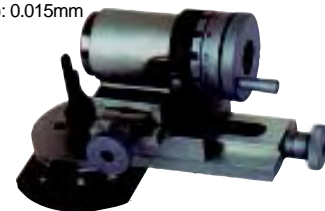
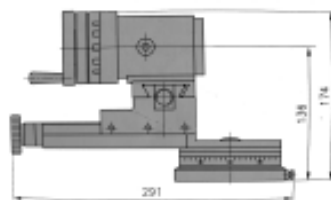
Order No. 287-6549

## Radius Attachment

This attachment is one of main attachment for Cutter Master, which is applicable to grind ball end mills, also can be used with other sharpeners.

#### Main Technical Parameters:

T Slot Size: 1/2"(12.7mm)	Equal Dividing: 30degree
Collet Type: 5C	Parallelism of workhole to the base: 0.02mm/60mm
Min Feeding: 0.0005"	Radius Runout of work hole center line(60mm from hole end): 0.015mm
Max Arc Radius of Grinding: 3"	



Order No. 287-6548

## Universal Cutter Grinders

Regrinding most universal cutting tools including End Mills, Drills, Tool Bits and Cutters which materials range from high speed steel to carbide.



Description	Order No.
110V	287-6610
220V	287-6612

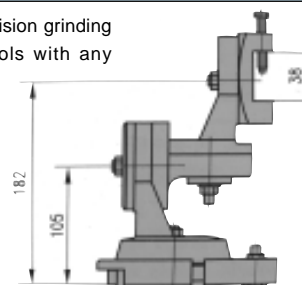
### Optional Accessories

Descriptions	Order No.
Twist Drill Grinding Attachment	287-6621
End Mill Grinding Attachment (Max Cap.3-16mm/1/8-5/8")	287-6622
Lathe Tool Grinding Attachment (Max Cap.20x26mm/3/4x1")	287-6623
Grinding Wheel Balancing Stand	287-6624

Specification	
Collet Capacity	1/8" to 5/8" (3 to 16mm)
Collet Sizes	1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8" (3, 4, 5, 6, 8, 10, 12, 16mm)
Taper Angle	0 to 180°
Negative Taper Angle	0 to 52°
Relief Angle	0 to 44°
Longitudinal Traverse	5-1/2"/140mm
Motor	1/4HP, 3400 RPM, Single Phase
Spindle Speed	5200 RPM
Power	110V/220V
Grinding Wheel: ( DiameterXThicknessxBore)	4 x 2 x 3/4" /100x50x20mm
Overall Dimensions:	19 x 15 x 15" / 50 x 40 x 40 mm
Net Weight	110 lbs/55 kgs

## Universal Sharpener

Used for precision grinding of square tools with any direction.



Order No. 287-6613



### Lathe Tool Grinder

Supplied with CBN wheel  
 Used for grinding cutting tools such as HSS, Carbide Steel and Ceramic tools  
 Main Technical Parameters:  
 Grinding Capacity: Dia: 28mm  
 Wheel Dia: 150mm  
 Back Angle of Wheel: 30 degree  
 Table Size: 133x280mm  
 Table Travel: 80mm  
 Up and down Adjustment of Table:  
 -10 to 25 degree  
 Locking Block Swivel: +/-70 degree  
 Motor: 220V/250W/1400rpm



Order No. 287-6014

### Drill Grinder

Easy operation for grinding on drill web and chisel edge.  
 Main Technical Parameters:  
 Grinding Capacity: 2-19mm  
 Spindle Speed: 10000rpm  
 Motor: 220V/3.2A/250W/50Hz



Order No. 287-6015

### Precision Drill Resharpener

Can grind twist drills with two flutes  
 Grinding range: cutting edge and crossing edge  
 Grinding diameter: 3-21mm  
 Grinding Angle: 118-150degree  
 Supplied with Diamond grinding wheel  
 Motor: 220V/3.2A/1000rpm/50Hz



Order No. 287-6016

Can grind twist drills with two flutes  
 Grinding range: cutting edge and crossing edge  
 Grinding diameter: 3-21mm  
 Grinding Angle: 118-135degree  
 Supplied with Diamond grinding wheel  
 Motor: 110V or 220V



110V Order No. 287-6017      220V Order No. 287-6019

### Electr-Magnetic Base Drills



Specifications	Order No. 199-0101	Order No. 199-0102	Order No. 199-0103	Order No. 199-0104	Order No. 199-0105
Drill Capacity	Dia 23mm	dia 25mm	Dia 32mm	Dia 38mm	Dia 49mm
Rated speed	330rpm	350rpm	150rpm	115rpm	110rpm
Motor power	1000W	1100W	1300W	1300W	1500W
Electromagnet	12000N	12500N	13000N	13000N	15000N
Max travel	180mm	210mm	220mm	200mm	200mm
Weight	30kgs	32kgs	53kgs	53kgs	59kgs

### Universal Knife Grinder

This dry-type knife grinder is ideal for sharpening planer and jointer knives. Cast iron construction, together with large capacity makes this grinder an excellent investment. Heavy-duty motor is 1/2 H.P., capacitor start, 110V, with pre-lubricated ball bearings and runs at 3450 R.P.M.

- Work table angle adjusts from 15° to 90°
- 120-grit stone included.
- Micro-Adjustable depth of cut.
- Wheel Size: 6"x1-1/2"x1-1/2"
- Weight: 55lbs.



Order No. 150-1000

### 12" Disc Sander

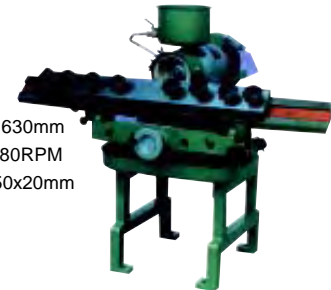
- Speed: 1720 RPM.
- Table: 8-1/4" x17-3/8".
- Table Tilts: 0-45°.
- Weight: 32kg/70lbs.
- With a powerful 1 HP, 110V motor
- Cast iron frame with cast aluminum tilting table.
- Complete with a dust chute and a mitre gauge.



Order No. 199-9000

### Straight Blade Grinder

Max. Length of Grinding Blade.....630mm  
 Rotating of the Grind Head.....2880RPM  
 Cup-shaped Grinding Wheel.....100x50x20mm  
 Weight.....67kg  
 Dist. Front of Blade.....10"



Order No. 199-2063

### 4" Belt & 6" Disc Sander

Order No.	150-0460
Belt Size	4"x36"
Disc Size	6"
Speed	3450 RPM
Table Size	6"x8-4/5"
Main Motor	110V,1/3HP
Table Tilt	0-45°
Belt Tilt	0-90°
Machine Dimensions	22"x11"x12"
Gross Weight (approx.)	39lbs

- Disc angle and bevel sanding.
- Finish edging.
- Belt and disc included.



Order No. 150-0460

### 1x30" Belt Sander

Motor(Single Phase).....1/4HP;110/220V; 60HZ,3450RPM  
 Belt Size.....1"x30"  
 Table.....5x5"  
 NW/GW.....15.4/16.5lbs  
 Packing Size .....370x250x250(mm)



Order No.150-3011





## 1x30" Belt & 5" Disc Sander



Motor (Single Phase).....1/4HP;  
110V/230V, 60HZ; 2850RPM  
Belt Size.....1"x30"  
Disc Size.....5"  
Table.....5x5"  
Table Tilt.....0-45°  
NW/GW.....19/22lbs  
Packing Size .....370x250x385(mm)



Order No.150-3012

## 4" Belt & 6" Disc Sander

- Disc angle and bevel sanding.
- Finish edging.
- Belt and disc included.

<b>Order No.</b>	<b>150-0461</b>
Belt Size	4"x36"
Disc Size	6"
Speed	3450 RPM
Table Size	6"x8-4/5"
Main Motor	110V,1/3HP
Table Tilt	0-45°
Belt Tilt	0-90°
Machine Dimensions	22"x11"x12"
Gross Weight (approx.)	46lbs



Order No. 150-0461

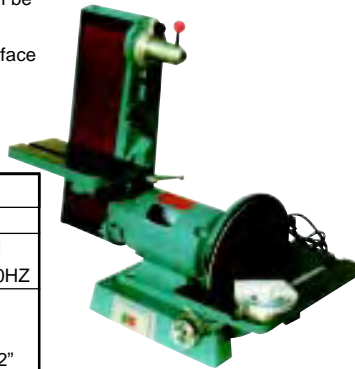
## Combination 6" Belt Sander &12" Disc Grinder

- The table for the abrasive belt can be tilted 20° one way, 45° the other.
- Table for 12" disc has working surface of 7"x16-1/2" and can be tilted.

Stand Only

Order No. 150-1201

<b>Order No.</b>	<b>150-1200</b>
Disc Diameter	12"
Motor	1PH,1HP, 1 15-230V, 60HZ
Spindle Speed	3600RPM
Abrasive Belt Size	6"x48"
Table for Abrasive Belt	7-1/2"x14-1/2"
Table Working Surface	7x16-1/2"



Order No. 150-1200

## Combination 6" Belt Sander And 9" Disc Grinder

This deluxe combination belt and disc sander can be used for vertical or horizontal finishing of both metal and wood.

This machine included a adjustable stand.

Stand Only

Order No. 156-9900

<b>Order No.</b>	<b>150-0690</b>
Abrasive Belt Size	6"x48"
Disc Diameter	9"
Voltage	110V/220V
Input Power	1 HP
Motor R.P.M	3450
Table Tilt	0-45°
Belt Tilt	0-90°
Net Weight	48kg
Gross Weight	50kg
Packing Measure	720x350x440mm



Order No. 150-0690

## Vertical Reciprocating Sander

Order No. 199-0326

Description	
Power of Motor	0.37KW
Work Table	370x370mm
Work Table Tilt	0-45°
Dia. of Grit Inflator	φ51, φ38, φ22,
Reciprocating Travel	24mm
Weight	30kg



## Sander Pneumatic Drums



Description	Order No. 199-3112	Order No. 199-3125
Power of Motor	0.75KW	0.75KW
Speed of Belt Inflator	2900RPM	1450RPM
Size of Large Grit Inflator	4-3/4x8"	8-3/8x6-1/3"
Size of Small Grit Inflator	3-1/8x8"	3-1/8x8"
Weight	95lbs.	95lbs.

## Sanding Machine

Description	
Sanding Belt Size	2515x152mm
Sanding Belt Speed	16mm/s
Table Size	840x300mm
Table Travel	80mm
Min. Sanding Radius	R 75
Table Revolving Angle	90° - 180°
Belt Moving Range	8mm
Motor	1.1kw 50Hz/60Hz
Overall Size	1320x550x1180mm
Weight	150kg



Order No. 150-2030

## Tilting Spindle Shapers



Description	Order No. 199-0518	Order No. 199-0515
Motor	1.5KW or 1.1KW	0.55KW
Spindle Dia.	1" or 3/4"	3/4" or 1/2"
Rotating Speed	7500RPM	7500RPM
Table Size	26"x20"	18"x15-1/2"
Weight	264lbs	132lbs

## Auto-on Light Grinders

Order No.	160-1301	160-1302	160-1303	160-1304	160-1305
Motor	1/3hp,250W	1/3hp,250W	1/2hp,370W	3/4hp,550W	1hp,550W
Motor Shaft Dia.	1/2"	1/2"	1/2"	5/8"	3/4"
Speed	2850rpm(50Hz), 3450rpm(60Hz)	2850rpm(50Hz), 3450rpm(60Hz)	2850rpm(50Hz), 3450rpm(60Hz)	2850rpm(50Hz), 3450rpm(60Hz)	2850rpm(50Hz), 3450rpm(60Hz)
Wheel size	6x3/4"	6x3/4"	7x3/4"	8x1"	10x1"
Wheel Grit	36#/60#	36#/wire	36#/60#	36#/60#	36#/60#
Wheel Material	Al.Oxide	Al.Oxide/Wire	Al.Oxide	Al.Oxide	Al.Oxide
Worklight	Yes	Yes	Yes	Yes	Yes
Wheel Dressing Tool	Yes	Yes	Yes	Yes	Yes
Coolant Tray					



## Bench Grinders

- Heavy duty direct drive motor.
- Adjustable tool rests provide correct working angle.
- Adjustable spark deflectors.
- Adjustable shatter-proof eye shields for maximum safety.
- Fine and coarse wheels.
- Non-slip rubber feet and fixable hole.
- Removable wheel changes.
- Optional wire and cotton buffing brushes available.
- Wide wheel spread permits grinding longer lengths.
- 3 Conductor core with 3 prong plug.



Power (HP)	Size of Wheel	RPM	WT (KG)	Volt/ F	Order No.
1/4	125x16mm	2800	6.7	220V/50Hz	160-1010
1/4	5x5/8"	3400	6.7	110V/60Hz	160-1025
1/3	150x20mm	2800	8.2	220V/50Hz	160-1110
1/3	6x3/4"	3400	9.2	110V/60Hz	160-1125
1/2	200x20mm	2800	14.6	220V/50Hz	160-1210
1/2	8x3/4"	3400	15.2	110V/60Hz	160-1225

## Grinder Stands



Height 800mm,  
Weight 10kg

Order No. 150-3060

Height 830mm,  
Weight 26kg

Order No.150-3065

## Log Saw

Motor Power: 2200W  
Speed: 2950rpm  
Blade Size/Teeth: dia 405x30mm/40teeth  
Min Cutting Diameter: 25mm  
Max Cutting Diameter: 130mm  
NetWeight: 36kgs



Order No. 199-1310

## Vertical Log Splitter

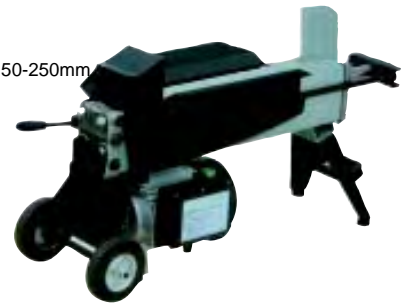
Motor Power: 2200W  
Max Splitting Force: 6 tons  
Max Cylinder Travel: 480mm  
Diameter of Cylinder: 63mm  
Hydraulic Oil Capacity: 3L  
Splitting Log Diameter Range: 50-320mm  
Splitting Length: 1040-770-520mm  
Net Weight: 92kgs



Order No. 199-1311

## Log Splitters

PM5-370  
Motor Power: 1500W  
Max Splitting Force: 5 tons  
Max Cylinder Travel: 310mm  
Diameter of Cylinder: 60mm  
Hydraulic Oil Capacity: 2.6L  
Splitting Log Diameter Range: 50-250mm  
Max Splitting Length: 370mm  
Net Weight: 43kgs



Order No. 199-1312

PM5-520  
Motor Power: 1500W  
Max Splitting Force: 5 tons  
Max Cylinder Travel: 390mm  
Diameter of Cylinder: 60mm  
Hydraulic Oil Capacity: 3.5L  
Splitting Log Diameter Range: 50-250mm  
Max Splitting Length: 520mm  
Net Weight: 49kgs

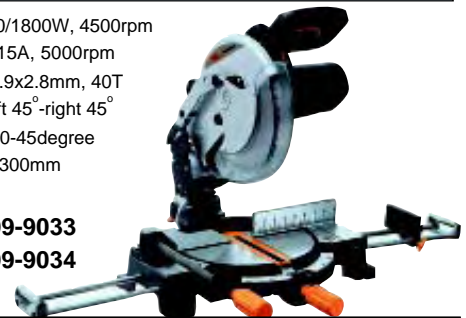
Order No. 199-1313

## Mitre Saws

Motor: 230V 50Hz, 1500/1800W, 4500rpm  
120V, 60Hz, 13/15A, 5000rpm  
Blade Size: Dia:254x15.9x2.8mm, 40T  
Table turning range: Left 45°-right 45°  
Saw Body tilting range: 0-45degree  
Exterior size: 530x610x300mm  
GW: 21kgs

230V, Order No. 199-9033

120V, Order No. 199-9034



Max Cutting capacity	230V		120V	
Work table tilting angle	0	45(right)	0	45(right)
Heading tilting angle	0	0	45	45
Height x width	75x130	75x90	48x120	55x86

## Table Saw

Motor: 230V, 50Hz, 1000W 2950rpm  
 Blade size: Dia205x16x2.5mm, 20T  
 Blade tilting range: 0-45degree  
 Table size: 513x400(600)mm  
 Max cutting depth:  
 43mm(90degree)36mm(45degree)  
 Extension size: 550x600x366mm  
 GW: 23kgs



Order No. 199-9006

## Table Saw

Maximum Cutting Depth  
 at 90°: 3-1/8".  
 at 45°: 2-1/2".  
 Blade Capacity: 10".  
 Motor: 120V, 60HZ, 2HP,  
 10AMP, 4500RPM.



Order No. 199-9005

## Table Saw

Motor: 230V, 50Hz, 1500W; 4500rpm  
 Blade Size: Dia 254x15.9x2.8mm, 40Teeth  
 Blade Tilting Range: 0-45degree  
 Blade Rising Range: 0-80mm  
 Min Cutting Capacity: 80mm(90degree),  
 55mm(45degree)  
 Table Size: 638x430mm  
 Extension Table Size (left/right): 638x260mm  
 Extension Table Size (rear): 430x300mm  
 Net Weight: 35.4kgs

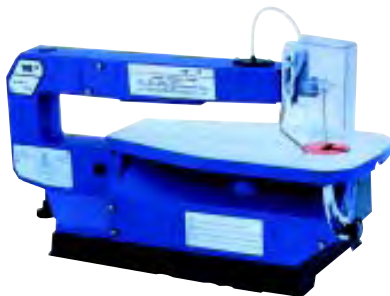


Order No. 199-9007

## 16" Scroll Saw

110V, 1/8HP Motor, Machined Table Surface

- Max. Thickness of cut: 2".
- Throat: 16"
- Blade length: 5"(pin type).
- Cuts/minute: 1,725(60HZ).
- Stroke: 3/4".
- Table size: 14-1/2"x7-7/8".
- Table tilt: 90-45° left.
- Base size: 15-7/8" x8-1/2".
- LXWXH: 21-1/2"x11-1/2"x12".
- Weight: 44lbs.



110V, Order No. 199-9023

220V, Order No. 199-9027

## 10" Band Saw

This bandsaw is mainly designed for cutting woods, plastics and wood like products. It can be used for bevel and contour cutting.  
 Features:

- 1/5 H.P. ball bearing induction motor with direct drive system giving high reliability and long life.
- The blade is moving continuously, providing high efficient cutting ability.
- Die cast aluminum table tilts from 0° to 45° for bevel and contour cutting.
- One piece base and steel box frame section assures strength and rigidity.
- Special formed guards fully enclose all moving parts for operator safety.



Order No. 199-9110

## Wood Cutting Band Saws

### Delta Style

	12" Order No.	14" Order No.
<b>Description</b>	<b>199-9012</b>	<b>199-9014</b>
Table Size	356x356mm	356x356mm
Vise Tilt	0-45°	0-45°
Depth of Cut	150mm	160mm
Throat	12"/305mm	14"/340mm
Blade Size	2082.8x3.1 -12.7x0.36mm	2400x3.1 -12.7x0.36mm
Power	0.39kW	0.75kW



## Wood Cutting Band Saws



16"/18"



20"/24"

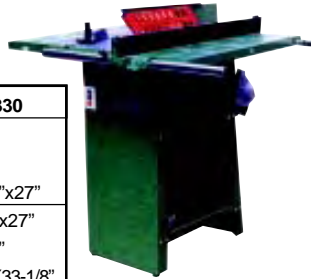
### 16"-24"

	16" Order No.	18" Order No.	20" Order No.	24" Order No.
<b>Description</b>	<b>199-9026</b>	<b>199-9028</b>	<b>199-9030</b>	<b>199-9032</b>
Table Size	500x390mm	500x600mm	500x390mm	600x600mm
Vise Tilt	0-45°	0-45°	0-45°	0-45°
Depth of Cut	200mm	250mm	300mm	370mm
Throat	350mm	430mm	460mm	560mm
Blade Size	2700x6-30x0.9mm	3300x6-30x1mm	3370x10-40x1mm	4065x50x1mm
Power	1.5kW	1.5kW	2.2kW	3kW



## Wood Working Circular Saws

Order No.	199-2325	199-2330
Max.Cut Depth at 0°	3-3/8"	4-3/8"
Max.Cut Depth at 45°	3-3/8"	3-3/8"
Table Size	20-1/8"x27"	20-1/8"x27"
Table Extent Size	10-1/8"x27"	10-1/8"x27"
Dist. Front of Blade	10"	12-1/2"
Fence Size	2-1/2"X33-1/8"	2-1/2"X33-1/8"
Speed 50Hz	3750-4500RPM	4500RPM
Speed 60Hz	3750-4500RPM	3750RPM
Motor	0.75KW-1HP	1.5KW-2HP



## 14" Wood Cutting Band Saw

1 Speed & 4 Speeds

Order No. 199-9016

Description	
Table Size	352x352mm
Vise Tilt	0-45°
Depth of Cut	6"/150mm
Throat	14"/352mm
Blade Size	2375x10x0.6mm
Power	0.55KW/3/4HP



## Wood Cutting Band Saws

2 Speeds

	12.5"	14"
Description	Order No. 199-9018	Order No. 199-9020
Table Size	500x390mm	500x390mm
Vise Tilt	0-45°	0-45°
Depth of Cut	160mm	180mm
Throat	12.5"/305mm	14"/335mm
Blade Size	2240x6	2400x6
	-20x0.6mm	-20x0.6mm
Power	0.55kW	0.75kW



## Thickness Planner

Motor: 230V, 50Hz, 1800W;  
or 120V, 60Hz, 15A

Min Cutting Length: 140mm  
Max Cutting Width: 330mm  
Max Cutting Depth: 3mm  
Range of Cutting Depth: 5-150mm  
Feeding Speed: 4m/min, 6m/min  
Blade Speed: 9000rpm  
Net Weight: 40kgs

230V, Order No. 199-9008

120V, Order No. 199-9009



## Rabeting Jointers

- Compare with the regular jointers, the new type jointer has the following features.
- Fence body could be move out of the work table, to let cutting width bigger.
- Work table is 1-3/8" longer than the regular 8" jointer.



Specifications	Order No. 150-0610	Order No. 150-0810
Cutting Capacity	6"	8"
Cutting Depth	1/2"	7/16"
Cutting Speed	4600RPM	4600Rpm
Horse Power	3/4	1
Voltage	110V	110V
Weight	165lbs	418lbs

## 6-1/8" Jointer Planer

- Series Motor.
- Double isolation.
- High speed cutting.



Order No. 150-0608

Specifications	
Cutting Width	155mm (6-1/8")
Cutting Depth	2.38mm (3/32")
Cutting Speed	8000-16000 R.P.M
Angle Range	45°
Horse Power	1.6HP
Voltage	110V-240V
Net Weight	13kgs (29lbs)
Gross Weight	15kgs (33lbs)
Packing measure	780x350x330mm

## Wood Turning Lathe

- Max. Turing Length: 37"
- Max. Turning Dia.: 12"
- Spindle Speeds: 500-850-1310-2100-3100 RPM.
- Spindle: MT1 Taper, 3/4-16 TPI.
- Tailstock: MT1 Taper.
- Motor: 1/2HP, 115V, 60HZ.
- Size of Seating Plane: 52"x14"x12".



Order No. 130-5092

## Wood Lathe

- Comes with chuck plate, mount on work bench.
- Max. Cutting Length: 40"
- Max. Cutting Dia. : 14"
- Motor 110v, 1/2HP, 60HZ.
- Overall Size: 58"x9-1/2"x13"
- Rotating Speed: 810-1180-1700-2480RPM



Order No. 130-5091



**Mortising Machine**

Description	
Mortising Width	1/4", 3/8", 1/2"
Max. Mortising Depth	3"
Drill Chuck Capacity	1/2"
Table Size	13-1/3x6"
Base Size	10"x7-3/4"
Vertical Spindle Travel	3"
Spindle to Fence	3-3/4"
Chisel to Table	5"
Motor	1/2 HP



Order No. 199-3612

**Wood Forming Shaper**

Description	
Knife Spindle Dia.	φ 30mm
Motor	2.2KW
Material Feed Speed	7.5m/min
Travel of Spindle	0-20mm
Working Depth	5-80mm
Max. Working Width	100mm
Spindle Speed	6000RPM



Order No. 199-2002

**Dust Collectors**

This is a great machine for sanders, router tables, shapers and other work. It is also portable, so you can take it to the job site where it can handle the big jobs, a regular shop vacuum can not handle.

**Single Bag**

**Motor Size:** 110V/3450 RPM or 220/2850 RPM  
**Motor Power:** 1HP  
**Air Flow:** 660CFM  
**Gross Weight:** 25kg  
**Net Weight:** 22kg  
**Packing Size:** 470x400x410mm



Order No.150-2020

**Double Bags**

**Motor Size:** 110V/3450 RPM or 220/2850 RPM  
**Motor Power:** 1HP  
**Air Flow:** 660CFM  
**Gross Weight:** 40kg  
**Net Weight:** 38kg  
**Packing Size:** 770x460x500mm



Order No.150-2025

**Dust Hose Stands**



	Order No. 150-4001	Order No. 150-4011	Order No. 150-4021	Order No. 150-4031
<b>Description</b>	150-4001	150-4011	150-4021	150-4031
<b>Height</b>				
<b>Adjustment</b>	680-1100	680-1100	680-1100	680-1100
<b>Hose Dia.</b>	102	102	102	102
<b>Hose Top Size</b>	320x36	320x36	320x36	320x36
<b>Hose Length</b>		2200mm		1850mm
<b>Hose</b>	witout	with	witout	with
<b>Stand Feet</b>	Steel Plate	Steel Plate	Cast Iron	Cast Iron

**Multi-Function Cutter**

Description	
Cutting Depth	2"
Cutting Width	12"
Slide Bearing	180°
Revolving Angle	
Motor	1KW, 2800 RPM
Weight	60lbs



Order No. 199-3620

**Meat Saw And Grinder**

Saw Wheel Diameter.....255mm  
 Power.....75HP  
 Voltage.....110/220V  
 Frequency.....60/50Hz  
 Table Size.....570x440mm  
 Blade Speed.....250M/Min.  
 Processing Scope.....250x200x200mm  
 Meat Grinder Mouth Dia. ....110mm  
 Meat Grinder Throat Dia. ....55mm  
 Machine Dimension.....600x500x1520mm



Order No.199-9002

**Rabeting Jointers**

- Fence tilts right & left 45 ; with positive stops at 45 ; & 90 ;
- 8" model has steel base and magnetic control switch.



Specifications	Order No. 150-0600	Order No. 150-0400	Order No. 150-0700	Order No. 150-0800
Cutting Capacity	6"	4"	7"	8"
Max. Cutting Depth	1/4"	1/2"	3/8"	3/8"
Knives	3	3	3	3
Cutter Head Speed	4500RPM	4500RPM	4500RPM	4500RPM
Table Size	6-1/8X41-3/4"	5-1/8X35-1/2"	8-1/2X42-1/2"	9X52-3/4"
Fence Size	3-7/8"X34-7/16"	3-11/16X24-13/16"	3-7/8X34-7/16"	3-7/8X34-7/16"
Motor	1HP	1/2HP	2HP	2HP
Voltage	110V	110V	110V	110V
Weight	165lbs	143lbs	215lbs	330lbs

### Multi-Function Jointing Systems

- Different jointing types and a working width of up to 650mm give the tool a wide range of applications.
- The folding template means that there is no tiresome template removal process when positioning and changing the workpiece.
- The simple workpiece clamping system make sure a simple positioning of the workpiece and the template, and the permanently accurate height setting by using the eccentric disk which leads to accurate results without the need for reworking.
- The Shorter setup times due to simple change between jointing types, quick template replacement and precise rotation stop setting.
- Simple handling since no additional tools are required.



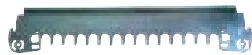
Order No. 150-0111



Order No. 150-0112



Order No. 150-0113



Order No. 150-0114



Order No. 150-0115



#### Jointing System

Description	Order No.
Size 24", with 1/2" Dovetail Template(150-0113)	150-0110
Size 18", with 1/2" Dovetail Template(150-0123)	150-0120

#### Optional Templates

Description	Order No.
Straight Shape Template for 150-0110	150-0111
7/16" Dovetail Shape Template for 150-0110	150-0112
1/2" Dovetail Shape Template for 150-0110	150-0113
Large Dovetail Shape Template for 150-0110	150-0114
Round Hole Template for 150-0110	150-0115
Straight Shape Template for 150-0120	150-0121
7/16" Dovetail Shape Template for 150-0120	150-0122
1/2" Dovetail Shape Template for 150-0120	150-0123
Large Dovetail Shape Template for 150-0120	150-0124
Round Hole Template for 150-0120	150-0125

### Dovetail Jigs

#### with 1/4" and 1/2" 2 in 1 dovetail template

Simple to setup this sturdy and well made jig, simultaneously cut identical pins and tail of half blind dovetail joint as many as you want.



Size: 12x1-1/4"(305x31mm).

Order No.150-0140

#### Dovetail Template Only

1/4" and 1/2" 2 in 1 Template

Order No.150-0141

### Dovetail Jigs



Size: 300x30mm.

Dovetail Jig completes with a 1/2" Dovetail Template(150-0131).

Order No.150-0130



#### Optional Templates

Description	Order No.
1/2" Dovetail Template for 150-0130	150-0131
7/16" Dovetail Template for 150-0130	150-0132
9/16" Dovetail Template for 150-0130	150-0133

### Mini Punching Machine

This mini punching machine is well designed for small scale enterprise , It is a ideal punching machine for mechanical repairing, model making and other use.



Order No. 199-1000

- Normal pressure 10 KN.
- Stroke of Slide 1-5/8".
- Stroke per minute 250 S.P.M.
- Max. Shut Height 6".
- Diameter of Stem Hole in Slide 3/4".
- Bed Size (BxL) 10-1/2"x10-1/2".
- Motor 110V, 0.37KW.
- Weight 185lbs.

### Tapping Machine

This kind of machine also has the advantage of high precision, more function, vast use, easily operated and so on. It is ideal metal material processing equipment for small scale enterprise, model making factory and mechanical repairing.

Descriptions	Order No.
Max. Tapping Dia.	130-1040
Steel ( Thickness >=3/8")	1/3"
Cast Iron, Copper etc.	3/8"
Distance From Spindle Axis to Column Surface	5"
Spindle Travel	1-5/8"
Spindle Taper	B12
Table Size	7-1/2"x7-1/2"
No. Of Spindle Speed	2
Spindle Speeds (R.P.M)	
Tapping	400-800
Reversing	500-990
Motor	110V, 0.370KW



Order No. 130-1040

**Drill Presses**



Order No. 125-1013



Order No. 125-1016



Order No. 125-1017



Order No. 125-1018

Specification	Order No. 125-1013	Order No. 125-1016	Order No. 125-1017	Order No. 125-1018
Motor	230V, 50Hz, 350W	230V, 50Hz, 500W	230V, 50Hz, 450W or 120V, 60Hz, 6.6A	230V, 50Hz, 450W 120V, 60Hz, 6.6A
Max drilling capacity	Dia 13mm	Dia 16mm	Dia 16mm	Dia 16mm
Spindle travel	50mm	50mm	80mm	80mm
Spindle taper	MT2	MT2	MT2	MT2
Column diameter	Dia 46mm	Dia 46mm	Dia 70mm	Dia 70mm
Spindle speed	5 speeds: 580-2650rpm 5 speeds: 760-3070rpm	9 speeds: 280-2350rpm	12 speeds: 210-2220rpm 16 speeds: 210-3840rpm	12 speeds: 210-2220rpm 16 speeds: 210-3840rpm
Max distance from spindle axis to surface of column	104mm	115mm	169mm	169mm
Max distance from spindle end to surface of table	200mm	270mm	390mm	780mm
Max distance from spindle end to surface of base	290mm	330mm	640mm	1210mm
Table size	160x160mm	170x170mm	Dia 290mm	Dia 290mm
Base size	314x200mm	320x198mm	250x434mm	273x456mm
Exterior size	355x225x580mm	490x220x610mm	600x350x990mm	600x350x1570mm
GW	20kgs	26kgs	56kgs	63kgs



Order No. 125-1020



Order No. 125-1025



Order No. 125-1032



Order No. 125-1033

Specification	Order No. 125-1020	Order No. 125-1025	Order No. 125-1032	Order No. 125-1033
Motor	230V, 50Hz, 450W	230V, 50Hz, 750W	230V, 50Hz, 1100W	230V, 50Hz, 1500W
Max drilling capacity	Dia 20mm	Dia 25mm	Dia 32mm	Dia 32mm
Spindle travel	80mm	80mm	120mm	120mm
Spindle taper	MT2	MT3	MT4	MT4
Column diameter	Dia 80mm	Dia 80mm	Dia 92mm	Dia 92mm
Spindle speed	12 speeds: 220-2600rpm	12 speeds: 200-2600rpm	9 speeds: 150-2020rpm	12 speeds: 200-2600rpm
Max distance from spindle axis to surface of column	190mm	215mm	226mm	250mm
Max distance from spindle end to surface of table	725mm	725mm	590mm	655mm
Max distance from spindle end to surface of base	1220mm	1240mm	1177mm	1175mm
Table size	300x300mm	330x330mm	364x364mm	425x475mm
Base size	500x300mm	560x340mm	625x372mm	575x450mm
Exterior size	700x350x1610mm	755x355x1656mm	750x360x1710mm	795x450x1715mm
GW	82kgs	102kgs	140kgs	145kgs

### Metal Cutting Band Saws



Order No. 199-5008



Order No. 199-5010



Order No. 199-5012



Order No. 199-5018

Description	Order No. 199-5008	Order No. 199-5010	Order No. 199-5012	Order No. 199-5018
Capacity 90°(Round/Rectangle)	90mm/90x115mm	105mm/100x105mm	114mm/100x150mm	180mm/180x300mm
Capacity 45°(Round/Rectangle)	65mm/65x65mm	55mm/55x60mm	70mm/70x60mm	110mm/110x180mm
Blade Size	1300x12.5x0.63mm	1140x13x0.66mm	1638x0.6x12.5mm	2362x0.8x19mm
Motor	400W, 220/110V 50Hz	1800W, 220/110V 50/60Hz, 5A	1/2HP 60Hz 1700RPM 1/2HP 50Hz 1400RPM	3/4HP 60Hz 1700RPM 1HP 50Hz 1420RPM
Blade Speeds(M/min)	20, 29, 50	20-70	24, 36, 61 (60Hz) 20, 29, 50 (50Hz)	41, 49, 69, 120 (60Hz) 34, 41, 59, 98 (50Hz)
Ver. Cutting Plate Size			245x178mm	
Vise Tilt	0-45°	0-45°	0-45°	0-45°
Packing Size	760x305x465mm	1250x445x1070mm	800x450x1000mm	1250x445x1070mm

### High Speed Abrasive Sawing Machines



Order No. 150-1010



Order No. 150-1020



Order No. 150-1030

This machine can be widely used for cutting various shaped material such as columnar steel, angle steel, steel pipe, band steel especially for cutting alloy steel, quenching steel, stainless steel etc. It is the ideal cutting tool for petroleum and chemical industry, construction metallurgical industry, maintenance of machinery

Specifications	Order No. 150-1010	Order No. 150-1015	Order No. 150-1020	Order No. 150-1025	Order No. 150-1030
Rotation Rate	2242	2242	2242	2242	2840
Wheel Size(mm)	405x3x25.4	405x3x25.4	405x3x25.4	405x3x25.4	405x3x25.4
Motor Power	2.2H.P.(3)	2.2H.P.(3)	2.2H.P.(3)	2.2H.P.(3)	2.2H.P.(3)
Voltage	Three-Phase 380/430V	Single-Phase 220/240V	Three-Phase 380/430V	Single-Phase 220/240V	Single-Phase 240/380V
Frequency(HZ)	50(60)	50(60)	50(60)	50(60)	50(60)
Dimensions(mm)	930x406x490	930x406x490	740x480x580	740x480x580	900x490x590
Weight(Kg)	90	93	60	63	93
Capacity: Round (mm)	100x6	100x6	100x6	100x6	100x6
Rectangle	100x100x10	100x100x10	100x100x10	100x100x10	100x100x10
Square	40	40	40	40	40



## Light Horizontal Lathes



Order No. 199-1280



Order No. 199-1300

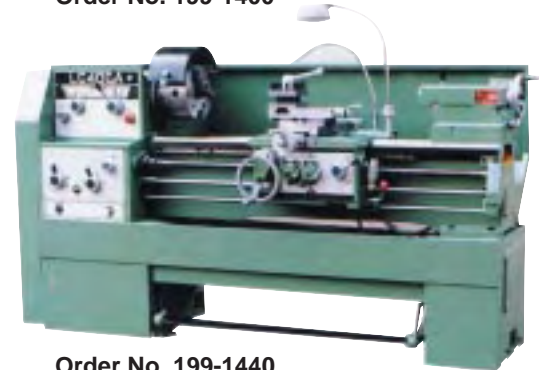
Descriptions	Order No. 199-1280	Order No. 199-1300
Max. Swing Over Bed	280mm	300mm
Max. Swing of Carriage	165mm	170mm
Max. Length of work piece	500mm	750mm
Spindle Speeds Range ( 9 Speed)	150-2060 RPM	60-2000RPM
Hole Through Spindle	28mm	38mm
Metric Threads (Number) Range	(16) 0.2-3mm	(20) 0.25-9mm
Inch Threads( Number) Range	(16) 10-46TPI	(33) 72-4(3/4) TPI
Module Threads (Number) Range		(12) 0.25-3.5mm
Power of Main Motor	0.75KW	1.1KW
Dimensions	1220x68x1100	1530x650x1160

Descriptions	Order No. 199-1340
Max. Swing Over Bed	340mm
Max. Swing of Carriage	205mm
Max. Length of work piece	1000mm
Spindle Speeds Range ( 9 Speed)	60-2000RPM
Hole Through Spindle	38mm
Metric Threads (Number) Range	(20) 0.25-9mm
Inch Threads( Number) Range	(33) 72-4(3/4) TPI
Module Threads (Number) Range	(12) 0.25-3.5mm
Power of Main Motor	1.1KW
Dimensions	1740x650x1150

## Saddle Lathes



Order No. 199-1400



Order No. 199-1440

Descriptions	Order No. 199-1400	Order No. 199-1440
Max. Swing Over Bed	400mm	400mm
Max. Swing of Carriage	240mm	235mm
Max. Length of work piece	1500mm	1500mm
Spindle Speeds Range	26-1600RPM	(12) 26-1600RPM
Hole Dia.Through Spindle	58mm	58mm
Metric Threads (Number) Range	0.5-7mm	(17) 0.5-9mm
Inch Threads( Number) Range	4-56 TPI	(36) 36-2TPI
Module Threads (Number) Range	0.5-7mm	(17) 0.5-9mm
Diametral Pitch Threads (Number) Range	4-56D.P.	
Power of Main Motor	4KW	4KW
Dimensions	2320x1160X1720mm	2760X1000X1280MM

## Precision Horizontal Machine Center

Specifications:

Max. Swing over Bed 400mm

Max. Swing over Carriage 210mm

Max. Length of Work piece 1000mm

Spindle Speeds Range: 45-1800 RPM.

Hole Dia. Through Spindle 58mm

Metric Threads (Number) Range (21) 0.5-7mm

Inch Threads( Number) Range(32) 56-4TPI.

Power of Main Motor 4KW

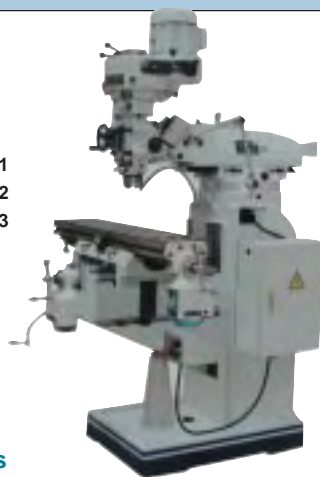
Dimensions: 1850x 1020 x 1320



Order No. 199-2400

## Universal Milling Machines

Order No.199-0201  
Order No.199-0202  
Order No.199-0203



## Universal Milling Machines

Specification	Order No.199-0201	Order No.199-0202	Order No.199-0203
Table size/mm	230x1246(9"x49")	254x1270(10"x50")	305x1370(12x54")
Long travel/mm	840	850	870
Cross travel/mm	305	420	380
Vertical Travel/mm	400	420	430
T-slot No and size/mm	3x16	3x16	3x16
Ram travel/mm	312	470	500
Distance from spindle nose to table surface/mm	0-415	0-405	0-350
Spindle hole taper	Standard:R8, Optional: ISO30/40	Standard:R8, Optional: ISO30/40	Standard: ISO40
Spindle travel/mm	127	127	127
Spindle speed/rpm	Standard:16 shiftgrade, 65-4500(60Hz), 80-5440(50Hz), Optional:Variable:65-4500	Standard:16 shiftgrade, 65-4500(60Hz), 80-5440(50Hz), Optional:Variable:65-4500 or 65-3750	Standard:16 shiftgrade, 65-4500(60Hz), 80-3750(50Hz)
Auto quill feed/mm	three steps, 0.04/0.08/0.15 rpm	three steps, 0.04/0.08/0.15 rpm	three steps, 0.04/0.08/0.15 rpm
Spindle motor	2.25kW/3hp	2.25kW/3hp	3.75kW/5hp
Head swivel	90degree	90degree	90degree
Head tilting	45degree	45degree	45degree
Package size/mm	1400x1476x2030mm per case	1516x1550x2080mm per case	1566x1650x2080mm per case
Weight/kg	1160	1550	1700

## Universal Turret NC Milling Machines

## Universal Turret NC Milling Machines

Order No.199-0211  
Order No.199-0212  
Order No.199-0213



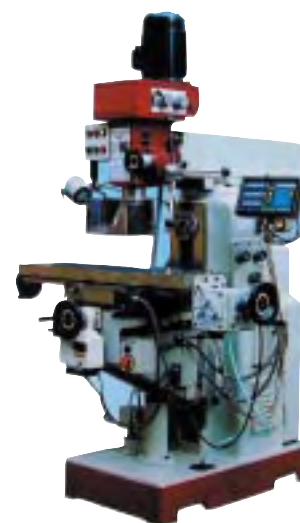
Specification	Order No.199-0211	Order No.199-0212	Order No.199-0213
Table size/mm	230x1067	254x1270	305x1370
	230x1246	254x1370	305x1500
T slots	3x16	3x16	3x16
Table loading/kg	200	280	350
X axis travel/mm	550	750	800
	740	850	900
Y axis travel/mm	300	400	360
Z axis travel/mm	127	127	127
X/Y/Z axis rapid feed/mm/min	5000	5000	5000
X/Y/Z axis servo motor/KW	1	1	1
Knee vertical travel/mm	380	400	410
Ram travel/mm	315	465	500
Distance from spindle to table/mm	0-380	0-400	0-410
Milling head			
Spindle speed/rpm	Standard:16steps, 50Hz:60-4500/ 60Hz:80-5440 Optional: Variable, 65-4200	Standard:16steps, 50Hz:60-4500/ 60Hz:80-5440 Optional: Variable, 65-4200	Standard:16steps, 50Hz:60-4500/ 60Hz:80-5440 Optional: Variable, 60-3750
Spindle taper	Standard: R8/Optional:ISO40	Standard: R8/Optional:ISO40	Standard: R8/Optional:ISO40
Motor power/hp	3hp	3hp	5hp
Head rotating	Swiveling:90degree, Tilting: 45 degree	Swiveling:90degree, Tilting: 45 degree	Swiveling:90degree
Packing Size/cm	165x190x200	190x200x223	200x200x225
G.W./kg	1200	1500	1900

## H/V Milling Machine

Specification	Order No.199-0221
Max drilling dia/mm	50;30
Spindle taper	MT4, R8, ISO30
Max vertical milling dia/mm	25
Max boring dia/mm	120
Max tapping dia/mm	M16
Distance from spindle to table surface/mm	100-480
Spindle speeds range	
Vertical	115-1750(8)
Horizontal	40-1300(12)
Spindle travel/mm	120
Automatic spindle feeds/ mm/r	--
Table size/mm	1120x280;1000x280
Table travel/mm	600x260
Overall dimension/mm	1400x1630x2350
Motor/KW	
vertical	0.85
Horizontal	1.5/2.2
GW/kg	1350



Specification	Order No.199-0222
Max drilling dia/mm	50;30
Spindle taper	MT4, R8, ISO30, ISO40
Max vertical milling dia/mm	25
Max boring dia/mm	120
Max tapping dia/mm	M16
Distance from spindle to table surface/mm	140-490
Spindle speeds range	
Vertical	60-1500(8)
Horizontal	40-1300(12)
Spindle travel/mm	120
Automatic spindle feeds/ mm/r	0.08,0.15,0.25
Table size/mm	1120x280;1000x280
Table travel/mm	600x260
Overall dimension/mm	1400x1630x2650
Motor/KW	
vertical	1.5
Horizontal	2.2
GW/kg	1350



Specification	Order No.199-0223
Spindle Taper	ISO40
Distance from spindle nose to table/mm	90-370
Distance from Horizontal spindle nose to table/mm	0-280
Distance between spindle and column/mm	200-550
Vertical quill speed/rpm	8 steps:60-1500rpm(vertical)
Spindle travel/mm	12 steps:40-1300rpm(horizontal)
Feeding of quill/mm/r	120mm
Max drilling capacity of auto-feeding/mm	3 steps:0.08,0.15,0.25mm/r
Table size/mm	dia 12mm(iron), dia 8mm(steel)
Table travel	1250x320mm
Horizontal/mm	600mm
Cross/mm	300mm
Vertical/mm	280mm
distance from spindle axis to arm/mm	170mm
Feeding range of longitudinal, cross travel/mm/min	8steps:30-740mm/min
Auto-feeding of Z-axis/mm/min	560mm/min
T-lot(No.-width-distance)/mm	3-14-70
Main motor/KW	1.5KW(V)/2.2KW(H)
Motor for repaid device of table/W	750W
Motor for vertical device of table/W	750W
Overall dimension/mm	1700x1480x2150
GW/kg	1550kg

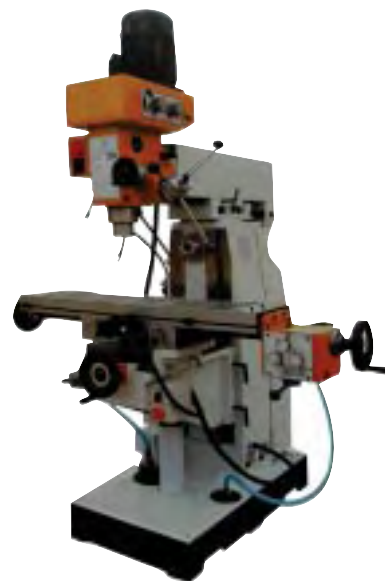


### Milling & Drilling Machines

Specification	Order No. 199-7550	Order No. 199-7551
Worktable size/mm	800x240	900x250
Table travel/mm	400x230	500x240
Vertical travel/mm	380	380
Vertical milling capacity/mm	30	30
Face milling capacity/mm	120	120
Drilling capacity/mm	50	50
Longitudinal feeds travel/mm/min	24-720	24-720
Vertical milling spindle travel/mm	120	150
Spindle nose to worktable/mm	0-380	0-380
Travel of movable arm/mm	300	300
Vertical milling spindle taper	ISO40	MT4
Horizontal milling spindle taper	--	--
Vertical milling spindle speed/rpm	6 steps: 120-1520rpm/8 steps:115-1750rpm	6 steps: 120-1520rpm/8 steps:115-1750rpm
Horizontal milling spindle speedrpm	--	--
Vertical milling motor/KW	0.85/1.5KW	1.3/1.8KW
Main motor/KW	--	--
Overall size/mm	1340x1200x2360mm	1340x1200x2360mm
GW/kg	900kgs	900kgs



Specification	Order No. 199-7552	Order No. 199-7553
Worktable size/mm	800x230	900x250
Table travel/mm	400x230	500x240
Vertical travel/mm	380	380
Vertical milling capacity/mm	30	30
Face milling capacity/mm	120	120
Drilling capacity/mm	50	50
Longitudinal feeds travel/mm/min	24-720	24-720
Vertical milling spindle travel/mm	120	150
Spindle nose to worktable/mm	0-380	0-380
Travel of movable arm/mm	300	300
Vertical milling spindle taper	ISO40	MT4
Horizontal milling spindle taper	ISO40	MT4
Vertical milling spindle speed/rpm	6 steps: 120-1520rpm/8 steps:115-1750rpm	6 steps: 120-1520rpm/8 steps:115-1750rpm
Horizontal milling spindle speedrpm	230-1825rpm	65-1790rpm
Vertical milling motor/KW	0.85/1.5KW	1.3/1.8KW
Main motor/KW	2.2KW	1.5W
Overall size/mm	1340x1200x2360mm	1340x1200x2360mm
GW/kg	950kgs	950kgs



Specification	Order No. 199-7555
Max. Drilling Dia.(mm)	50
Max. Horizontal Milling Dia.(mm)	120
Max. Vertical Milling Dia.(mm)	25
Max. Tapping Dia.(mm)	M16
Spindle Speeds Range( R.P.M)	230-1825
Distance. Spindle to Column Surface (mm)	320
Distance. Spindle to Table Surface (mm)	
Spindle Travel (mm)	120
Table Travel (mm)	400x230
Table Size(mm)	800X240
Motor(KW)	.85-1.5
Overall Dimensions (mm)	1000X970X1650





## Manual Surface Grinder



Specification	199-0110	199-0111
Max width to be ground/mm	220	220
Max length to be ground/mm	470	520
Max height to be ground/mm	350	350
Table size/mm	210x450	200x520
Magnetic chuck size/mm	200x400	200x450
Max longitudinal travel/mm	500	570
Max cross travel/mm	240	250
Max distance from spindle center to table surface/mm	450	450
Feed of vertical handle		
per rev/mm	1	2
per div/mm	0.005	0.005
Grinding wheel size/mm	200x13x31.75	200x20x31.75
Spindle speed/ rpm	3450(60Hz), 2850(50Hz)	3450(60Hz), 2850(50Hz)
Power of spindle head/kW	1.5	1.5
Max load cap./kg	128	140
Machine weight/kg	800	1120
Machine overall size/mm	1330x1150x1675	1446x1391x1766

## Saddle Moving Surface Grinder

AH Model,  
Order No. 199-0112

AHR Model,  
Order No.199-0113

AHD Model,  
Order No.199-0114

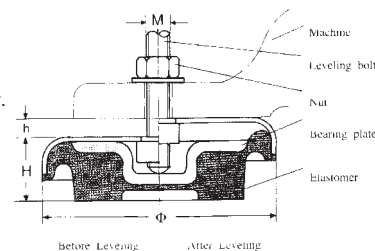


Specification	
Table size/mm	250x500
Table Travel/mm	560x275
Max distance from spindle center to table	450
Magnetic chuck size	250x500
Speed of table longitudinal movement	7-25
Table transverse movement	
Auto feed	0.1-8
Rapid speed	990
Feed of handwheel	0.02
Wheelhead vertical movement	
Auto feed	---(AH/AHR model) 0.005/0.01-0.05 by 0.01(AHD model)
Rapid feed	---(AH model) 460(AHR model)
Feed of handwheel	240(AHD model) 0.005
Grinding wheel speed	2850(60Hz), 3450(50Hz)
Grinding wheel size	200x20x31.75
Spindle Motor	2.2
Hydraulic motor	0.75
Cooling pump motor	0.04
Elevating motor	---(AH model)/0.25(AHR model)/0.5(AHD model)
Cross feed motor	0.04
Max load cap.of table	180
Total rated power	3.7
Height of machine	1675
Floor space	2300x1600
Weight	1800

## Shock Proof Machine Mounts

### Heavy Duty

Extra tough rigid design,  
Solid rubber base, Finest quality.  
Extra tough support screw,  
Supplied with bolt nut and washer.

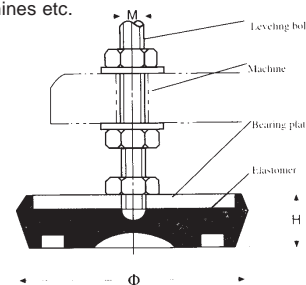


Mount Dia. x Height	Rubber		Bolt	Order No.
	Hardness (ShoreA)	Adjust Load Height Capacity		
1-37/64x19/32" (40x15mm)	50	5mm 55lbs	M5x30	429-1015
3-5/32x63/64" (80x25mm)	50	8mm 220lbs	M10x80	429-1025
3-5/32x63/64" (80x25mm)	60	8mm 380lbs	M10x80	429-1026
3-5/32x63/64" (80x25mm)	70	8mm 550lbs	M10x80	429-1027
4-23/32x1-17/64" (120x32mm)	50	12mm 880lbs	M12x100	429-1035
4-23/32x1-17/64" (120x32mm)	60	12mm 1220lbs	M12x100	429-1036
4-23/32x1-17/64" (120x32mm)	70	12mm 1880lbs	M12x100	429-1037
4-23/32x1-17/64" (120x32mm)	80	12mm 2650lbs	M12x100	429-1038
6-19/64x1-3/8" (160x35mm)	50	12mm 2200lbs	M16x120	429-1045
6-19/64x1-3/8" (160x35mm)	60	12mm 4190lbs	M16x120	429-1046
6-19/64x1-3/8" (160x35mm)	70	12mm 5300lbs	M16x120	429-1047
6-19/64x1-3/8" (160x35mm)	80	12mm 7720lbs	M16x120	429-1048
7-9/32x1-17/32" (185x39mm)	60	12mm 4850lbs	M20x160	429-1056
7-9/32x1-17/32" (185x39mm)	70	12mm 6840lbs	M20x160	429-1057
7-9/32x1-17/32" (185x39mm)	80	12mm 9260lbs	M20x160	429-1058
9x2-1/8" (228x54mm)	60	12mm 7280lbs	M24x180	429-1066
9x2-1/8" (228x54mm)	70	12mm 9480lbs	M24x180	429-1067
9x2-1/8" (228x54mm)	80	12mm 14330lbs	M24x180	429-1068
12-13/32x2-3/4" (315x70mm)	70	12mm 16840lbs	M30x200	429-1077
12-13/32x2-3/4" (315x70mm)	80	12mm 20950lbs	M30x200	429-1078

## Shock Proof Machine Mounts

### Light Duty

- Designed for light duty metalcutting machines and textile, food, wood process machines etc.
- Feature long range height adjustment.



Mount Dia. x Height	Adjust Load		Bolt	Order No.
	Height	Capacity		
2-31/64x11/16" (63x17mm)	15mm	180lbs	M10x80	429-2005
2-31/64x11/16" (63x17mm)	15mm	180lbs	M10x110	429-2006
3x25/32" (76x20mm)	20mm	300lbs	M12x100	429-2010
3x25/32" (76x20mm)	20mm	300lbs	M12x130	429-2011
3-3/8x1" (86x25mm)	20mm	700lbs	M12x100	429-2015
3-3/8x1" (86x25mm)	20mm	700lbs	M12x130	429-2016
4-21/64x1-7/64" (110x28mm)	25mm	1200lbs	M16x120	429-2020
4-21/64x1-7/64" (110x28mm)	25mm	1200lbs	M16x180	429-2021
5x1-3/16" (127x30mm)	25mm	2000lbs	M16x120	429-2025
5x1-3/16" (127x30mm)	25mm	2000lbs	M16x180	429-2026
5-29/32x1-19/64" (150x33mm)	25mm	3300lbs	M16x160	429-2030
5-29/32x1-19/64" (150x33mm)	25mm	3300lbs	M16x180	429-2031
6-3/4x1-3/8" (171x35mm)	25mm	4500lbs	M16x160	429-2035
6-3/4x1-3/8" (171x35mm)	25mm	4500lbs	M16x180	429-2036

## Decimal Equivalents Chart

Size	Decimal Inches	Size	Decimal Inches	Size	Decimal Inches	Size	Decimal Inches	Size	Decimal Inches	Size	Decimal Inches	Size	Decimal Inches
#80	.0135	#55	.0520	#36	.1065	#15	.1800	6.5mm	.2559	S	.3480	39/64"	.6094
.35mm	.0138	1.35mm	.0531	2.75mm	.1083	4.6mm	.1811	F	.2570	8.9mm	.3504	15.5mm	.6102
#79	.0145	#54	.0550	7/64"	.1094	#14	.1820	6.6mm	.2598	9mm	.3542	5/8"	.6250
1/64"	.0156	1.4mm	.0551	#35	.1100	#13	.1850	G	.2610	T	.3580	16mm	.6299
.4mm	.0157	1.45mm	.0571	2.8mm	.1102	4.7mm	.1850	6.7mm	.2638	9.1mm	.3583	41/64"	.6409
#78	.0160	1.5mm	.0591	#34	.1110	4.75mm	.1870	17/64"	.2656	23/64"	.3594	16.5mm	.6496
.45mm	.0177	#53	.0595	#33	.1130	3/16"	.1875	6.75mm	.2657	9.2mm	.3622	21/32"	.6562
#77	.0180	1.55mm	.0610	2.9mm	.1142	4.8mm	.1890	H	.2660	9.25mm	.3642	17mm	.6693
.5mm	.0197	1/16"	.0625	#32	.1160	#12	.1890	6.8mm	.2677	9.3mm	.3661	43/64"	.6719
#76	.0200	1.6mm	.0630	3mm	.1181	#11	.1910	6.9mm	.2717	U	.3680	11/16"	.6875
#75	.0210	#52	.0635	#31	.1200	4.9mm	.1929	I	.2720	9.4mm	.3701	17.5mm	.6890
.55mm	.0217	1.65mm	.0650	3.1mm	.1220	#10	.1935	7mm	.2756	9.5mm	.3740	45/64"	.7031
#74	.0225	1.7mm	.0669	1/8"	.1250	#9	.1960	J	.2770	3/8"	.3750	18mm	.7087
.6mm	.0236	#51	.0670	3.2mm	.1260	5mm	.1969	7.1mm	.2795	V	.3770	23/32"	.7188
#73	.0240	1.75mm	.0689	3.25mm	.1280	#8	.1990	K	.2810	9.6mm	.3780	18.5mm	.7283
#72	.0250	#50	.0700	#30	.1285	5.1mm	.2008	9/32"	.2812	9.7mm	.3819	47/64"	.7344
.65mm	.0256	1.8mm	.0709	3.3mm	.1299	#7	.2010	7.2mm	.2835	9.75mm	.3839	19mm	.7480
#71	.0260	1.85mm	.0728	3.4mm	.1339	13/64"	.2031	7.25mm	.2854	9.8mm	.3858	3/4"	.7500
.7mm	.0276	#49	.0730	#29	.1360	#6	.2040	7.3mm	.2874	W	.3860	49/64"	.7656
#70	.0280	1.9mm	.0748	3.5mm	.1378	5.2mm	.2047	L	.2900	9.9mm	.3898	19.5mm	.7677
#69	.0292	#48	.0760	#28	.1405	#5	.2055	7.4mm	.2913	25/64"	.3906	25/32"	.7812
.75mm	.0295	1.95mm	.0768	9/64"	.1406	5.25mm	.2067	M	.2950	10mm	.3937	20mm	.7874
#68	.0310	5/64"	.0781	3.6mm	.1417	5.3mm	.2087	7.5mm	.2953	X	.3970	51/64"	.7969
1/32"	.0312	#47	.0785	#27	.1440	#4	.2090	19/64"	.2969	Y	.4040	20.5mm	.8071
.8mm	.0315	2mm	.0787	3.7mm	.1457	5.4mm	.2126	7.6mm	.2992	13/32"	.4062	13/16"	.8125
#67	.0320	2.05mm	.0807	#26	.1470	#3	.2130	N	.3020	Z	.4130	21mm	.8268
#66	.0330	#46	.0810	3.75mm	.1476	5.5mm	.2165	7.7mm	.3031	10.5mm	.4134	53/64"	.8281
.85mm	.0335	#45	.0820	#25	.1495	7/32"	.2188	7.75mm	.3051	27/64"	.4219	27/32"	.8438
#65	.0350	2.1mm	.0827	3.8mm	.1496	5.6mm	.2205	7.8mm	.3071	11mm	.4331	21.5mm	.8465
.9mm	.0354	2.15mm	.0846	#24	.1520	#2	.2210	7.9mm	.3110	7/16"	.4375	55/64"	.8594
#64	.0360	#44	.0860	3.9mm	.1535	5.7mm	.2244	5/16"	.3125	11.5mm	.4528	22mm	.8661
#63	.0370	2.2mm	.0866	#23	.1540	5.75mm	.2264	8mm	.3150	29/64"	.4531	7/8"	.8750
.95mm	.0374	2.25mm	.0886	5/32"	.1562	#1	.2280	O	.3160	15/32"	.4688	22.5mm	.8858
#62	.0380	#43	.0890	#22	.1570	5.8mm	.2283	8.1mm	.3189	12mm	.4724	57/64"	.8906
#61	.0390	2.3mm	.0906	4mm	.1575	5.9mm	.2323	8.2mm	.3228	31/64"	.4844	23mm	.9055
1mm	.0394	2.35mm	.0925	#21	.1590	A	.2340	P	.3230	12.5mm	.4921	29/32"	.9062
#60	.0400	#42	.0935	#20	.1610	15/64"	.2344	8.25mm	.3248	1/2"	.5000	59/64"	.9219
#59	.0410	3/32"	.0938	4.1mm	.1614	6mm	.2362	8.3mm	.3268	13mm	.5118	23.5mm	.9252
1.05mm	.0413	2.4mm	.0945	4.2mm	.1654	B	.2380	21/64"	.3281	33/64"	.5156	15/16"	.9375
#58	.0420	#41	.0960	#19	.1660	6.1mm	.2402	8.4mm	.3307	17/32"	.5312	24mm	.9449
#57	.0430	2.45mm	.0965	4.25mm	.1673	C	.2420	Q	.3320	13.5mm	.5315	61/64"	.9531
1.1mm	.0433	#40	.0980	4.3mm	.1693	6.2mm	.2441	8.5mm	.3346	35/64"	.5469	24.5	.9646
1.15mm	.0453	2.5mm	.0984	#18	.1695	D	.2460	8.6mm	.3386	14mm	.5512	31/32"	.9688
#56	.0465	#39	.0995	11/64"	.1719	6.25mm	.2461	R	.3390	9/16"	.5625	25mm	.9843
3/64"	.0469	#38	.1015	#17	.1730	6.3mm	.2480	8.7mm	.3425	14.5mm	.5709	63/64"	.9844
1.2mm	.0472	2.6mm	.1024	4.4mm	.1732	E	.2500	11/32"	.3438	37/64"	.5781	1"	1.0000
1.25mm	.0492	#37	.1040	#16	.1770	1/4"	.2500	8.75mm	.3445	15mm	.5906		
1.3mm	.0512	2.7mm	.1063	4.5mm	.1772	6.4mm	.2520	8.8mm	.3465	19/32"	.5938		

### Tap Drill Size(75% Prob.Thread)

Tap Size	Drill Size	Tap Size	Drill Size	Tap Size	Drill Size
0-80	3/64	10-32	21	5/8-18	37/64
M1.6x.35	1.25mm	M5x.8	4.2mm	M16x2	35/64
1-64	1/16	12-24	17	3/4-10	21/32
M2x.4	1/16	12-28	15	3/4-16	11/16
1-72	52	M6x1	10	M20x2.5	11/16
2-56	51	1/4-20	8	7/8-9	49/64
2-64	50	1/4-28	3	7/8-14	13/16
M2.5x.45	2.05mm	5/16-18	F	M24x3	53/64
3-48	5/64	5/16-24	I	1-8	7/8
3-56	46	M8x1.25	6.7mm	1-12	59/64
4-40	43	3/8-16	5/16	1-14	15/16
4-48	42	3/8-24	Q	1-1/8-7	63/64
M3x.5	40	M10x1.5	8.4mm	1-1/8-12	1-3/64
5-40	39	7/16-14	U	M30x3.5	1-3/64*
5-44	37	7/16-20	W	1-1/4-7	1-7/64*
M3.5x.6	33	M12x1.75	13/32	1-1/4-12	1-11/64*
6-32	36	1/2-13	27/64	1-3/8-6	1-7/32*
6-40	33	1/2-20	29/64	1-3/8-12	1-19/64*
M4x.7	3.25mm	M14x2	15/32	M36x4	1-1/4*
8-32	29	9/16-12	31/64	1-1/2-6	1-11/32*
8-36	29	9/16-18	33/64	1-1/2-12	1-27/64*
10-24	25	5/8-11	17/32		

\*Reaming Recommended.

### Rollform Tap Drill Size(65% Prob.Thread)

Tap Size	Drill Size	Tap Size	Drill Size	Tap Size	Drill Size	Tap Size	Drill Size
0-80	54	5-44	2.9mm	1/4-28	A	9/16-18	13.5mm
M1.6x.35	1.45mm	M3.5x.6	30	5/16-18	7.3mm	5/8-115/8-	15mm
1-64	1.65mm	6-32	1/8	5/16-24	M	18	19/32
M2x.4	1.85mm	6-40	3.2mm	M8x1.25	7.4mm	M16x2	15mm
1-72	1.7mm	M4x.7	3.7mm	3/8-16	S	3/4-10	45/64
2-56	5/64	8-32	25	3/8-24	T	3/4-16	23/32
2-64	2mm	8-36	24	M10x1.5	9.3mm	M20x2.5	18.75mm
M2.5x.45	2.30mm	10-24	11/64	7/16-14	13/32	7/8-9	.823
3-48	43	10-32	16	7/16-20	10.5mm	7/8-14	27/32
3-56	2.30mm	M5x.8	14	M12x1.75	7/16	1-8	15/16
4-40	39	12-24	5mm	1/2-13	15/32	1-12	.963
4-48	2.6mm	12-28	8	1/2-20	31/64		
M3x.5	35	M6x1	5.5mm	M14x2	13mm		
5-40	33	1/4-20	1	9/16-12	17/32		

### Pipe Tap Drill Size

Tap Size	Drill Size NPT(Taper)	Decimal Equivalent	Drill Size NPS(Straight)	Decimal Equivalent
1/8-27	R	.3390	11/32	.3438
1/4-18	7/16	.4375	7/16	.4375
3/8-18	37/64	.5781	37/64	.5781
1/2-14	45/64	.7031	23/32	.7188
3/4-14	59/64	.9219	59/64	.9219
1-11-1/2	1-5/32	1.1562	1-5/32	1.1562
1-1/4-11-1/2	1-1/2	1.5000	1-1/2	1.5000
1-1/2-11-1/2	1-47/64	1.7344	1-3/4	1.7500
2-11-1/2	2-7/32	2.2188	2-7/32	2.2188
2-1/2-8	2-5/8	2.6250	2-2/32	2.6562
3-8	3-1/4	3.2500		



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