

Hand & Power Tools

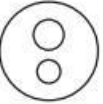
Batteries.....	448
Counter.....	433
Deburring Tools.....	422-430
Dividers.....	432
Inside & Outside Calipers.....	433
Jigs/Pullers/Hole Saw Arbors.....	442-443
Laser Levels.....	446-447
Manifolds.....	450
Telescoping Magnetic & Pickup Tools	445
Pliers.....	439
Pipe and Tubing Tools.....	440
Punches.....	434-438
Rulers ,& Taps.....	444
Scribers.....	430-431
Screwdriver	440
Spray Guns.....	448-449
Steel Stamps.....	434
Wrenches.....	440-442

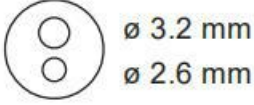


Specification	Applications									Materials								Blade	Picture	Order No.
	Straight Edge	Hole Edge	Cross-Hole Both Edge	Hole Back-Edge	Hole Inner Surface	Flat Surface	Slot Keyway	Inner Straight	Sheet	Steel	Aluminium	Copper	Brass	Cast Iron	Stainless Steel	Polyacetal & Poliam	Plastics			
The mostly used 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	●	●														■	■	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
ø .6x20mm, triangular HSS scraper for precision work, M5				●	●	●				■	■	■	●	●	●		■	D20		380-0070
ø 4.0x25mm, triangular HSS scraper for precision work, M5				●	●	●				■	■	■	●	●	●		■	D25		380-0071
ø 5.6x30mm, triangular HSS scraper for precision work, M5				●	●	●				■	■	■	●	●	●		■	D30		380-0072
ø 6.5x33mm, triangular HSS scraper for precision work, M5				●	●	●				■	■	■	●	●	●		■	D40		380-0073
ø 3.2x50mm,D1 Bladeholder with UN handle				●	●	●				■	■	■	●	●	●		■	D50		380-0047
ø 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	 (Used in pairs)	380-0061
Standard blade for keyways							●			■	■	■			■		●	N80K		380-0062

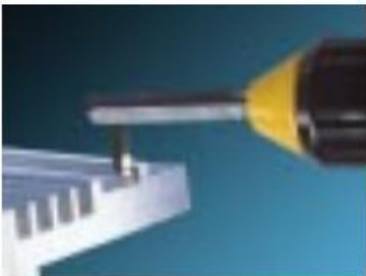
■ Excellent ● Good

ification	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 replacable.	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.
EDGE OFF Includes: E100 Blade mounted in an 8 mm Hexagonal painted Aluminium Handle. The blade is not replaceable. Handy pocket clip.			380-0052
PLASTIC EDGE OFF Includes: E100 Blade, Plastic Handle. Holds all "E" (ø 3.2 mm) Blades. The Blade is replaceable.			380-0050
PUSH SLEEVE 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.			380-0039
PUSH BUTTON Rapid deburring tool Handle. Accept 100 E blade. Which is replaceable.			380-0054
NE BURR 1, 3, 5 Blades can be stored in plastic handle. Accepts "E" series Blade. Blades can be easily changed by depressing locking button. 1: E100. 3: E100, E200, E350. 5: E100, E200, E350, E101, E102			380-0074 380-0095 380-0055
NB BURR 1, 3, 5 Includes: NB-handle and "E" series Blade. 1: E100. 3: E100, E200, E350. 5: E100, E200, E350, E101, E102			380-0051 380-0096 380-0097
SOFT GRIP Includes: SG handle, E100 and B10 Blades. Ergonomically held handle. Accepts both heavy and light duty "E" & "B" Blades due to 2 holes.		 	380-0053

Specification		Picture	Order No.
SLOT EDGE CLEANER 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			380-0029
B UN BURR Includes: Un-handle, B-holder, one B10 Blade. Includes: Un-handle, B-holder, one B20 Blade.			380-0057 380-0098
E UN BURR Includes: Un-handle, E-holder, one E100 blade Includes: Un-handle, E-holder, one E200 blade Includes: Un-handle, E-holder, one E300 blade			380-0058 380-0099 380-0100
B UNI BURR Includes: Uni-handle, B-holder, one B10 Blade. Includes: Uni-handle, B-holder, one B20 Blade.			380-0059 380-0105
E UNI BURR Includes: Uni-handle, E-holder, one E100 blade Includes: Uni-handle, E-holder, one E200 blade Includes: Uni-handle, E-holder, one E300 blade			380-0065 380-0106 380-0107
MINI-SCRAPER Includes: UN-handle, D1-holder, Triangular Mini-Scraper D50. Hollow ground.			380-0066
INTERNAL SCRAPER Includes: UN-handle, D1-holder, Internal Scraper D66. For deburring of cross holes.			380-0067
SCRAPER Designed for high quality finishing & scraping. Includes: UNI-handle, telescoping blade holder, D20 blade & key			380-0068
Includes: UNI-handle, DH-holder, D25 blade & key			380-0069
Includes: UNI-handle, DH-holder, D30 blade & key			380-0080
Includes: UNI-handle, tDH-holder, D40 blade & key			380-0081

Specification		Picture	Order No.
COUNTERSINK Can be locked in any position. Most useful for chamfering deep holes. Includes: Uni-handle, F7-holder, 12 mm Countersink.			380-0082
Includes: Uni-handle, F7-holder, 20 mm Countersink.			380-0083
Includes: Uni-handle, F7-holder, 30 mm Countersink.			380-0084
"V" CUT Includes: UNI-handle, LD Blade-holder, L3 Blade. For sheet metal. Range 1-8 mm. Hand-Guard available upon request.			380-0085
MINI-CUT Includes: UNI-handle, LD Blade-holder, L4 Blade. Used for deburring small ridges in difficult to reach places. Range of 0-2.5 mm.			380-0086
SLOT CLEANER Includes: UNI-handle, LD Blade-holder, L5 Blade. To relieve corners of narrow slots from 3.5 mm. Double ended blade L7 for cutting in two directions also available.			380-0087
CORNER CLEANER Includes: UNI-handle, LD blade-holder, L6 blade. Effective corner relief. Wide range of applications.			380-0088
KEYWAY BURR Includes: UNI-handle, K blade-holder, N80K blade. Effectively removes burrs from internal and external keyways. Range 2.4-11mm.			380-0089
DOUBLE-BURR Includes: Double burr, hand guard, 2 x N80 Blades. Simultaneously removes burrs from both sides of sheet metal.			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,
Balers: B10, B20, B30, E100, E200, E300,
Wrench

Order No. 380-0271

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

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

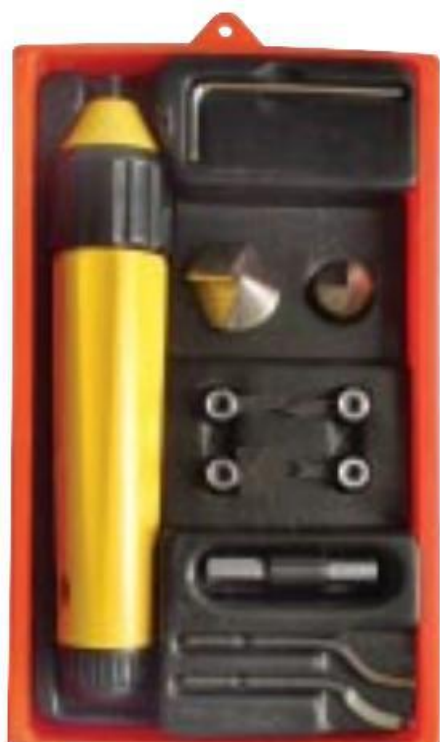


Features blades with Adapters and a telescopic blade holder that lets you reach hard to access areas. Provides maximum grip comfort when used with UNI handle. Suggestion: Use the key supplied to safely release and remove blades.

Includes:
UNI handle,
M5 holder,
Adapter D, Adapter L, Scraper D30,
Cleaner: L3, L4, L5, L6,
Hex Wrench,
D Wrench

Order No. 380-0274

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,
Balers: 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,
Balers: B10, B20, E100, E200,
Countersink: C12, C20,
Scraper: D30,
Hex Wrench,
D Wrench

Order No. 380-0276

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

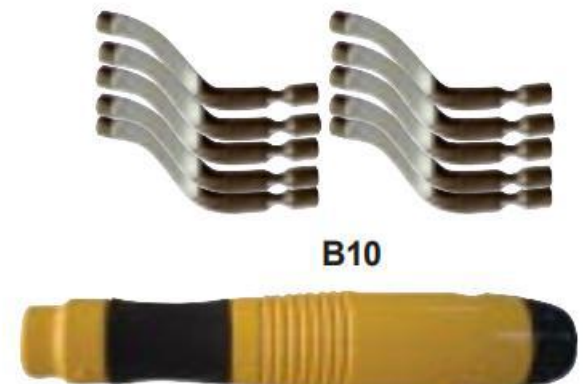


Soft Grip Set



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



18 Pc. Deburring Tool set

High Speed Steel Blades, Plastic Case



Set include:
one double burr
one zip/burr handle
one zip/burr "B" holder
one B-10 blade
one B-20 blade
one zip/burr "E" holder
one E-100 blade
one E-200 blade
one E-300 blade

one zip/burr "K" holder
one keyway blade for 1/8-1/4" wide slots
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

Steel Scribers

One-End Scriber

Straight point with knurled handle. Total Length: 175mm

Order No. 830-2001



Plastic Handle Scriber

One straight and one bent point Total Length: 250mm
Black finish.

Order No. 830-0378



Replaceable Needle Point scriber

- Needle point are long lasting, simply replace with a new point
- Extra point stored under cap
- Use for scribing on stainless steel and other hard metals and for deep hole work OAL: 5-5/16"

Order No. 830-2005



Pocket Scribers

Replaceable hardened and centerless ground point.

Point can be reversed into knurled body for safety.

Size: 1/4" x 2-3/8" x 4-3/4" (Body dia. x Point length x OAL)

Order No. 830-2003



Size: 3/8" x 2-7/8" x 5-7/8" (Body dia. x Point length x OAL)

Order No. 830-2004



Right Angle Scriber

Fully hardened point. Total Length: 8"

Order No. 830-2006



Double-End Scriber

One straight and one bend point. Total Length: 9"

Order No. 830-2002



Steel Scribers

Three Point Scriber

Aluminum knurled body with three interchangeable threaded points:

One short straight, one short bent, one long bent point.

Total Length of two short point combination: 9"

Total Length of one short and one long point Combination: 12"

Order No. 830-2007



Fixed Two Point Scriber

Total Length: 192mm

Order No. 830-0377



Double-End Scriber

One straight and one bent point with knurled handle.

Replaceable Points: Straight Point (830-0391)

Bend Point (830-0392)

Total Length: 250mm

Order No. 830-0386



Chisel type

6-1/2" overall length

Order No. 830-2012



Pothook type

Total Length: 110mm

Order No. 830-2023



Carbide Tipped Scribers

Carbide Tipped Points

Pocket Type

Total length: 145mm, Chrome Plated

Order No. 830-2008



Heavy Duty Type

Heavy body, Diameter 8.0mm Total Length: 180mm

Order No. 830-2009



Metal body, chrome plated. 20mm long carbide tipped point.

Total Length: 160mm

Order No. 830-2010



Round spring Collet Pen Scriber

- Pen length: 150mm.

- Include one 40mm carbide point, one 70mm lead point.

Order No. 830-2021



Hexagon spring collet pen scribe

- Pen length: 150mm.
- One Carbide Point.

Order No. 830-2017



Replaceable Point Type

Aluminum body.

Point can be reversed into body for safety when not in use.

Replacement point(830-0393). Total Length: 150mm

Order No. 830-0389



Type A

Hold scribe 1.0-3.0mm, Plastic Shank

Order No. 830-2050



Hold scribe 1.0-3.0mm, Aluminum Shank

Order No. 830-2051



Type B

with Auto Feeding

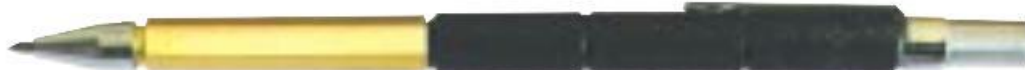
Order No. 830-2055



Type C

Scribe & Center Punch.

Order No. 830-2060



Type F

Scribe length is adjustable.

Order No. 830-2065



Type I, Aluminum Shank

with double end Scribe

Order No. 830-2070



Type II, Aluminum Shank

with Magnetic. Pick up,

Order No. 830-2076

without Magnetic. Pick up,

Order No. 830-2075



magnetic pick up

Aluminum body.

Total Length: 5-1/2"

Order No. 830-0382



Heavy Duty

Plastic Handle, Carbide Point.

Order No. 830-2066



8pcs Machinist Scribe Tool Sets

A Type

- Vernier Caliper 4"/100mm
- Steel Ruler 6"/150mm
- Machinist Square 4x6"(100x150mm)
- Carbide Tip Scribe (Auto Feeding)
- Double End Steel Scribe 8"/200mm
- Plastic Edge Off Deburring Tool (E100 Blade, magnetic end)
- Steel Divider 4"/100mm
- Automatic Center Punch
- Come with Plastic Case

Order No. 830-0081



B Type

- Steel Ruler 6"/150mm
- Machinist Square 4x6"(100x150mm)
- Carbide Tip Scribe (Auto Feeding)
- One End Steel Scribe 7"/175mm
- Pocket Steel Scribe 6"/150mm
- Plastic Edge Off Deburring Tool (E100 Blade, magnetic end)
- Steel Divider 4"/100mm
- Center Punch
- Come with Plastic Case

Order No. 830-0082



C Type

- Steel Ruler 6"/150mm
- Machinist Square 4x6"(100x150mm)
- Carbide Tip Scribe
- Double End Steel Scribe 8"/200mm
- Chisel Type Steel Scribe 7"/175mm
- Plastic Edge Off Deburring Tool (E100 Blade, magnetic end)
- Steel Divider 4"/100mm
- Center Punch
- Come with Plastic Case

Order No. 830-0083



Dividers

Rivet Joint Type



Size	Carbon Steel Order No.	Stainless Steel Order No.
100mm/4"	108-0004	109-0004
125mm/5"	108-0005	109-0005
150mm/6"	108-0006	109-0006
175mm/7"	108-0007	109-0007
200mm/8"	108-0008	109-0008
250mm/10"	108-0010	109-0010
300mm/12"	108-0012	109-0012
400mm/16"	108-0016	109-0016
500mm/20"	108-0020	109-0020
600mm/24"	108-0024	109-0024
800mm/32"	108-0032	109-0032
1000mm/40"	108-0040	109-0040

Adjustable Screw Type



Size	Carbon Steel Order No.	Stainless Steel Order No.
100mm/4"	108-0504	109-0504
125mm/5"	108-0505	109-0505
150mm/6"	108-0506	109-0506
175mm/7"	108-0507	109-0507
200mm/8"	108-0508	109-0508
250mm/10"	108-0510	109-0510
300mm/12"	108-0512	109-0512
400mm/16"	108-0516	109-0516
500mm/20"	108-0520	109-0520
600mm/24"	108-0524	109-0524
800mm/32"	108-0532	109-0532
900mm/36"	108-0536	109-0536
1000mm/40"	108-0540	109-0540

Rivet Joint Type
with Wing

Size	Carbon Steel Order No.	Stainless Steel Order No.
100mm/4"	108-0104	109-0104
125mm/5"	108-0105	109-0105
150mm/6"	108-0106	109-0106
175mm/7"	108-0107	109-0107
200mm/8"	108-0108	109-0108
250mm/10"	108-0110	109-0110
300mm/12"	108-0112	109-0112
400mm/16"	108-0116	109-0116
500mm/20"	108-0120	109-0120
600mm/24"	108-0124	109-0124
800mm/32"	108-0132	109-0132
900mm/36"	108-0136	109-0136
1000mm/40"	108-0140	109-0140

Adjustable Screw Type
with Wing

Size	Carbon Steel Order No.	Stainless Steel Order No.
100mm/4"	108-0604	109-0604
125mm/5"	108-0605	109-0605
150mm/6"	108-0606	109-0606
175mm/7"	108-0607	109-0607
200mm/8"	108-0608	109-0608
250mm/10"	108-0610	109-0610
300mm/12"	108-0612	109-0612
400mm/16"	108-0616	109-0616
500mm/20"	108-0620	109-0620
600mm/24"	108-0624	109-0624
800mm/32"	108-0632	109-0632
900mm/36"	108-0636	109-0636
1000mm/40"	108-0640	109-0640

Rivet Joint Type
with Wing and Pencil Holder

Size	Carbon Steel Order No.	Stainless Steel Order No.
100mm/4"	108-0204	109-0204
125mm/5"	108-0205	109-0205
150mm/6"	108-0206	109-0206
175mm/7"	108-0207	109-0207
200mm/8"	108-0208	109-0208
250mm/10"	108-0210	109-0210
300mm/12"	108-0212	109-0212
400mm/16"	108-0216	109-0216
500mm/20"	108-0220	109-0220
600mm/24"	108-0224	109-0224
800mm/32"	108-0232	109-0232
1000mm/40"	108-0240	109-0240

Spring Type



Size	Carbon Steel Order No.	Stainless Steel Order No.
75mm/3"	108-0903	109-0903
100mm/4"	108-0904	109-0904
125mm/5"	108-0905	109-0905
150mm/6"	108-0906	109-0906
175mm/7"	108-0907	109-0907
200mm/8"	108-0908	109-0908
250mm/10"	108-0910	109-0910
300mm/12"	108-0912	109-0912
400mm/16"	108-0916	109-0916
500mm/20"	108-0920	109-0920
600mm/24"	108-0924	109-0924

Inside Calipers

Rivet Join Type



Size	Carbon Steel Order No.	Stainless Steel Order No.
100mm/4"	108-0304	109-0304
125mm/5"	108-0305	109-0305
150mm/6"	108-0306	109-0306
175mm/7"	108-0307	109-0307
200mm/8"	108-0308	109-0308
250mm/10"	108-0310	109-0310
300mm/12"	108-0312	109-0312
400mm/16"	108-0316	109-0316
500mm/20"	108-0320	109-0320
600mm/24"	108-0324	109-0324
800mm/32"	108-0332	109-0332
900mm/36"	108-0336	109-0336
1000mm/40"	108-0340	109-0340

Inside Calipers

Adjustable Screw Type



Size	Carbon Steel Order No.	Stainless Steel Order No.
100mm/4"	108-0704	109-0704
125mm/5"	108-0705	109-0705
150mm/6"	108-0706	109-0706
175mm/7"	108-0707	109-0707
200mm/8"	108-0708	109-0708
250mm/10"	108-0710	109-0710
300mm/12"	108-0712	109-0712
400mm/16"	108-0716	109-0716
500mm/20"	108-0720	109-0720
600mm/24"	108-0724	109-0724
800mm/32"	108-0732	109-0732
900mm/36"	108-0736	109-0736
1000mm/40"	108-0740	109-0740

Inside Calipers

Spring Type



Size	Carbon Steel Order No.	Stainless Steel Order No.
75mm/3"	108-1003	109-1003
100mm/4"	108-1004	109-1004
125mm/5"	108-1005	109-1005
150mm/6"	108-1006	109-1006
175mm/7"	108-1007	109-1007
200mm/8"	108-1008	109-1008
250mm/10"	108-1010	109-1010
300mm/12"	108-1012	109-1012
400mm/16"	108-1016	109-1016
500mm/20"	108-1020	109-1020
600mm/24"	108-1024	109-1024

Outside Calipers

Spring Type



Size	Carbon Steel Order No.	Stainless Steel Order No.
75mm/3"	108-1103	109-1103
100mm/4"	108-1104	109-1104
125mm/5"	108-1105	109-1105
150mm/6"	108-1106	109-1106
175mm/7"	108-1107	109-1107
200mm/8"	108-1108	109-1108
250mm/10"	108-1110	109-1110
300mm/12"	108-1112	109-1112
400mm/16"	108-1116	109-1116
500mm/20"	108-1120	109-1120
600mm/24"	108-1124	109-1124

Outside Calipers

Rivet Join Type



Size	Carbon Steel Order No.	Stainless Steel Order No.
100mm/4"	108-0404	109-0404
125mm/5"	108-0405	109-0405
150mm/6"	108-0406	109-0406
175mm/7"	108-0407	109-0407
200mm/8"	108-0408	109-0408
250mm/10"	108-0410	109-0410
300mm/12"	108-0412	109-0412
400mm/16"	108-0416	109-0416
500mm/20"	108-0420	109-0420
600mm/24"	108-0424	109-0424
800mm/32"	108-0432	109-0432
900mm/36"	108-0436	109-0436
1000mm/40"	108-0440	109-0440

Outside Calipers

Adjustable Screw Type



Size	Carbon Steel Order No.	Stainless Steel Order No.
100mm/4"	108-0804	109-0804
125mm/5"	108-0805	109-0805
150mm/6"	108-0806	109-0806
175mm/7"	108-0807	109-0807
200mm/8"	108-0808	109-0808
250mm/10"	108-0810	109-0810
300mm/12"	108-0812	109-0812
400mm/16"	108-0816	109-0816
500mm/20"	108-0820	109-0820
600mm/24"	108-0824	109-0824
800mm/32"	108-0832	109-0832
900mm/36"	108-0836	109-0836
1000mm/40"	108-0840	109-0840

Inside & Outside Calipers



Size	Carbon Steel Order No.	Stainless Steel Order No.
150mm/6"	108-2006	109-2006
175mm/7"	108-2007	109-2007
200mm/8"	108-2008	109-2008
250mm/10"	108-2010	109-2010
300mm/12"	108-2012	109-2012

Hermaphrodite Calipers



Size	Carbon Steel Order No.
100mm/4"	108-1204
150mm/6"	108-1206

NEW

4 Digit Hand Counter

- Mainly used for checking number of persons, tallying of goods and cargo.
- 2" Height x 1-3/4" Width.



Specification	Order No.
ABS Case	840-1614
Reset with push button	840-1617

4 Digit Hand Counters



- Chrome plated.
- Finger ring for convenience.
- 2" Height x 1-3/4" Width.

Specification	Order No.
4 Digital	840-1615
4 Digital with steel base	840-1616

5, 6&7 Digit Ratchet Counters

With Reset Knob

- Base: 2-1/8"x1-3/4" Counter Height: 1-1/4".



Specification	Order No.
5 Digital	840-1610
6 Digital	840-1611
7 Digital	840-1613

Steel Stamping Letter & Number Sets

Alloy Steel, Heat Treatment 50-55 HRC

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

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

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

Size	Holder Capacity	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

Sets Includes:

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



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.

Steel Type Holders

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

Individual Steel Type Sets

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

Steel Spacers

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



Individual Letters & Numbers

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

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 rapping 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	830-3001
Copper Handle	830-3002

2 in 1 Punch Scriber

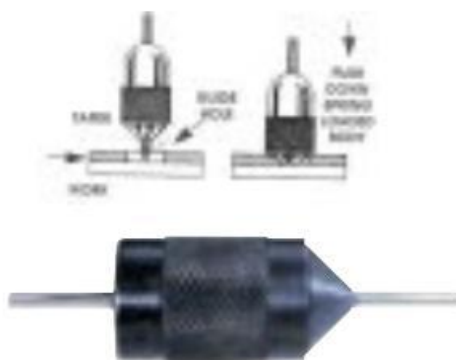
- Attachable carbide scriber head can be stored in the hollow handle for safe carrying.
- The punch scriber consisted of one male handle with punch head and key ring, and one female handle with female thread used to tighten carbide scriber and male handle.



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 (lbs)	Order No.
3/16" Dia. Punch 3-1/8" L for 1/4"-3/4" hole	0.26	830-0150
3/16" Dia. Punch 4-1/8" L for 1/4"-1-1/16" hole	0.46	830-0180

Center Punches

Metric Sets

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

Inch Sets

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

Inch Individuals

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

Metric Individuals

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





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



Drive Pin Punch Sets

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

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

Transfer Punches

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

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

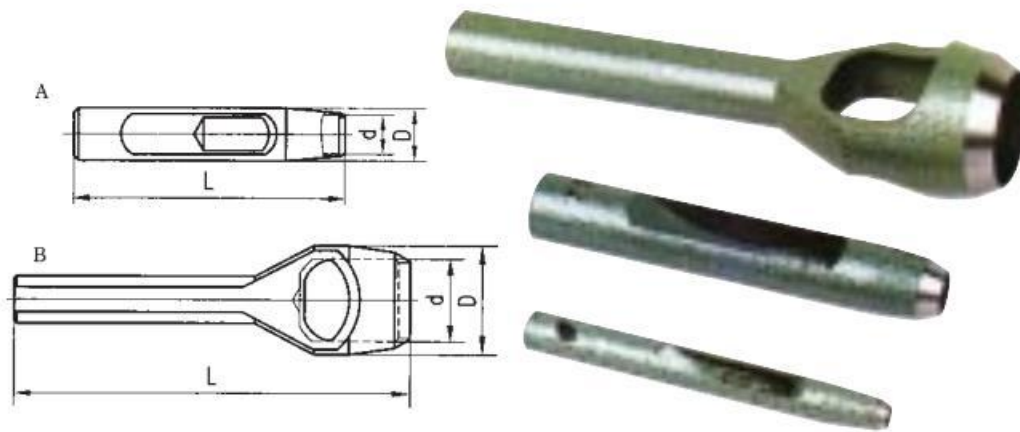
Grommet Refills

Description	Size	Grommet Piece	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



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

7 Pc. Transfer Screw Sets

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.



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

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

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

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

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

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

3 Pc. Expandable Pin Punch Set

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

- Compact set of 3 takes the pace 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	

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.



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

Long Nose Locking Pliers

with Wire cutter



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

Straight Jaws Locking Pliers

with Wire Cutter



Size (in.)	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

Slip Joint Pliers

with Wire Cutter & Grips



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

Long Nose Pliers, American type, Polished

with Side Cutter



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

Linemen's Pliers



Size (in.)	Order No.
6	802-0616
7	802-0617
8	802-0618

Diagonal Pliers (Polished)



Size (in.)	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

Mini Plier set

3 Piece Set:
American type:
Long Nose, Diagonal & Bent nose

Order No. 802-0903



Plier set

3 Piece Set:
American type:
6" Long Nose, 6" Diagonal & 7" Linesman

Order No. 802-0923

4 Piece Set:
one each 6" Linemen, Diagonal,
Long Nose, Slipjoint

Order No. 802-0914



Bolt Cutters American Standard

Alloy Steel Blade, Steel Handle

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

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



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

Steel Pipe Wrenches

Alloy Steel Blade

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



Size(in.)	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

Aluminum Pipe Wrenches

Alloy Steel

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



Size (in.)	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", 18"	800-0150

Dead Blow Hammers

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



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

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

Hammer/mallet



Black Rubber Mallets

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

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

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

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

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.

Replace Blade
for PVC pipe cutter(839-0005)

Order No. 839-0006



Order No. 839-0005

Hacksaw Frames



Specification	Order No.
Basic Model, Fits both 10" and 12" blades BT105	810-5001
12" High Tension BT304	810-5002
Tubular frame fits both 10" or 12" blades BT319	810-5003

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



Replacement Blade (0.5mm)
for Utility Knife (839-0090) 100pcs/box

Order No. 839-0099

Screwdriver Sets



Order No.803-0080



Order No.803-0001



Order No.803-0006



Order No.803-0060



Order No.803-0016



Order No.803-0081

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,screwdrive & 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

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

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

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



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



Double Offset Ring Spanner Sets



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

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 PC Nut Splitter Set

Remove frozen or rusted nuts easily without damaging the bolt threads.

Use the 3-3/4" splitter 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

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

4PC Pin Vise Set



Includes: 1 each size of 0-1mm, .8-1.5mm, 1.3-3.1mm, 3-4.8mm

Order No. 830-3104

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

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.

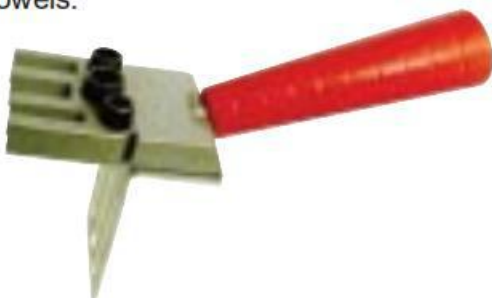


Order No. 209-9020

Handled Doweling Jigs

3 in 1 Doweling Jig

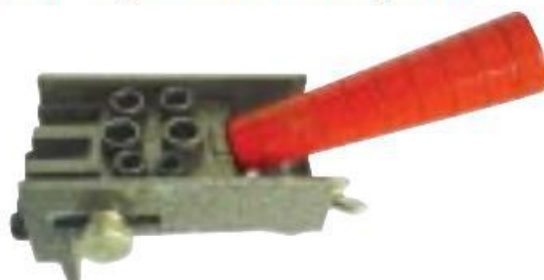
Makes T and L joints, makes edge to edge joints for 1/4", 5/16" and 3/8" dowels.



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

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

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



0126 0129 0132 0135 0138 0142 0146 0150



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 motorcycles and bicycle.



Order No. 830-2018

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

Rubber Sanding Block

NEW

- 4-3/4x2-5/8 Rubber

Order No. 810-6220



Magnetizer & Demagnetizer

NEW



Order No. 625-0000

Screw Extractors & Sets

- For removing broken screws, bolts, studs, and pipes
- Material: GCr15



No.	Screw and Bolt Size	Size Drill	Light Duty Order No.	Heavy Duty Order No.	Straight Flute Order No.
1#	3/32—5/32"	5/64"	312-8901	312-8921	312-8961
2#	5/32—7/32"	7/64"	312-8902	312-8922	312-8962
3#	7/32—9/32"	5/32"	312-8903	312-8923	312-8963
4#	9/32—3/8"	1/4"	312-8904	312-8924	312-8964
5#	3/8—5/8"	17/64"	312-8905	312-8925	312-8965
6#	5/8—7/8"	13/32"	312-8906	312-8926	312-8966
7#	7/8—1-1/8"	17/32"	312-8907	312-8927	312-8967
8#	1-1/8—1-3/8"	13/16"	312-8908	312-8928	312-8968
9#	1-3/8—2"	1-1/16"	312-8909	312-8929	312-8969
10#	2-1/8—2-1/2"	1-5/16"	312-8910	312-8930	312-8970
11#	2-1/2—3"	1-17/32"	312-8911	312-8931	312-8971

Sets



	Light Duty Order No.	Heavy Duty Order No.	Straight Flute Order No.
5pcs/set (1-5#)	312-8900	312-8920	312-8960
6pcs/set (1-6#)	312-8916	312-8936	
8pcs/set (1-8#)		312-8938	
12pcs/set (1-6# & Drills, 2, 3, 4, 5, 7, 10)		312-8937	

Reel Tapes

- 1/2" Blade reads in inch and metric.
- ABS case with folding winding lever.
- Blade reads both sides.
- Blade made of fiberglass and vinyl coated.

Blade	Length	Order No.
1/2"	50'(15m)	810-1015
1/2"	100'(30m)	810-1030

Serise 02



Surveyor Tapes

- 1/2" Blade reads in inch and metric.
- ABS case with folding winding lever.
- Blade reads both sides.
- Blade made of fiberglass and vinyl coated.

Blade	Length	Order No.
1/2"	67'(20m)	810-1120
1/2"	100'(30m)	810-1130
1/2"	165'(50m)	810-1150

Serise J3



High Speed Hand Hacksaw Blades

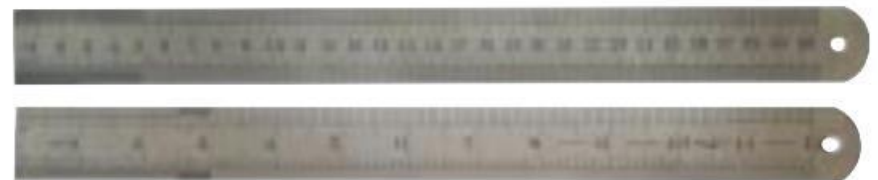
Length	Width	Teeth per		M2 HSS Order No.	Alloy Steel Order No.
		Inch	Thickness		
10"	1/2"	18	.025"	402-7568	402-8568
10"	1/2"	24	.025"	402-7572	402-8572
10"	1/2"	32	.025"	402-7576	402-8576
12"	1/2"	14	.025"	402-7625	402-8525
12"	1/2"	18	.025"	402-7629	402-8529
12"	1/2"	24	.025"	402-7633	402-8533
12"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

Stainless Steel Rulers



Range	Thickness x Width	Order No.	Range	Thickness x Width	Order No.
100mm/4"	0.5x13mm	638-9041	500mm/20"	0.5x13mm	638-9203
150mm/6"	0.75x19mm	638-9061	600mm/24"	0.75x30mm	638-9241
150mm/6"	1.0x19mm	638-9062	600mm/24"	1.0x30mm	638-9242
150mm/6"	0.5x13mm	638-9063	600mm/24"	0.5x13mm	638-9243
200mm/8"	0.75x19mm	638-9081	1000mm/40"	1.0x30mm	638-9401
200mm/8"	1.0x19mm	638-9082	1000mm/40"	2.0x30mm	638-9402
200mm/8"	0.5x13mm	638-9083	1000mm/40"	2.0x40mm	638-9403
250mm/10"	0.75x19mm	638-9101	1000mm/20"	0.5x24mm	638-9404
250mm/10"	1.0x19mm	638-9102	1200mm/48"	1.0x30mm	638-9481
250mm/10"	0.5x13mm	638-9103	1200mm/48"	2.0x30mm	638-9482
300mm/12"	0.75x30mm	638-9121	1200mm/48"	2.0x40mm	638-9483
300mm/12"	1.0x30mm	638-9122	1200mm/48"	0.5x24mm	638-9484
300mm/12"	0.5x13mm	638-9123	1500mm/60"	1.0x30mm	638-9601
400mm/16"	0.75x30mm	638-9161	1500mm/60"	2.00x30mm	638-9602
400mm/16"	1.0x30mm	638-9162	1500mm/60"	2.00x40mm	638-9603
400mm/16"	0.5x13mm	638-9163	2000mm/80"	1.0x30mm	638-9801
500mm/20"	0.75x30mm	638-9201	2000mm/80"	2.0x30mm	638-9802
500mm/20"	1.0x30mm	638-9202	2000mm/80"	2.0x40mm	638-9803

Telescoping Magnetic Mirror & Pen



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



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



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

Magnetic Safe Catcher

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



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



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



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

Trash Pickup Tools

Retrieval Tools

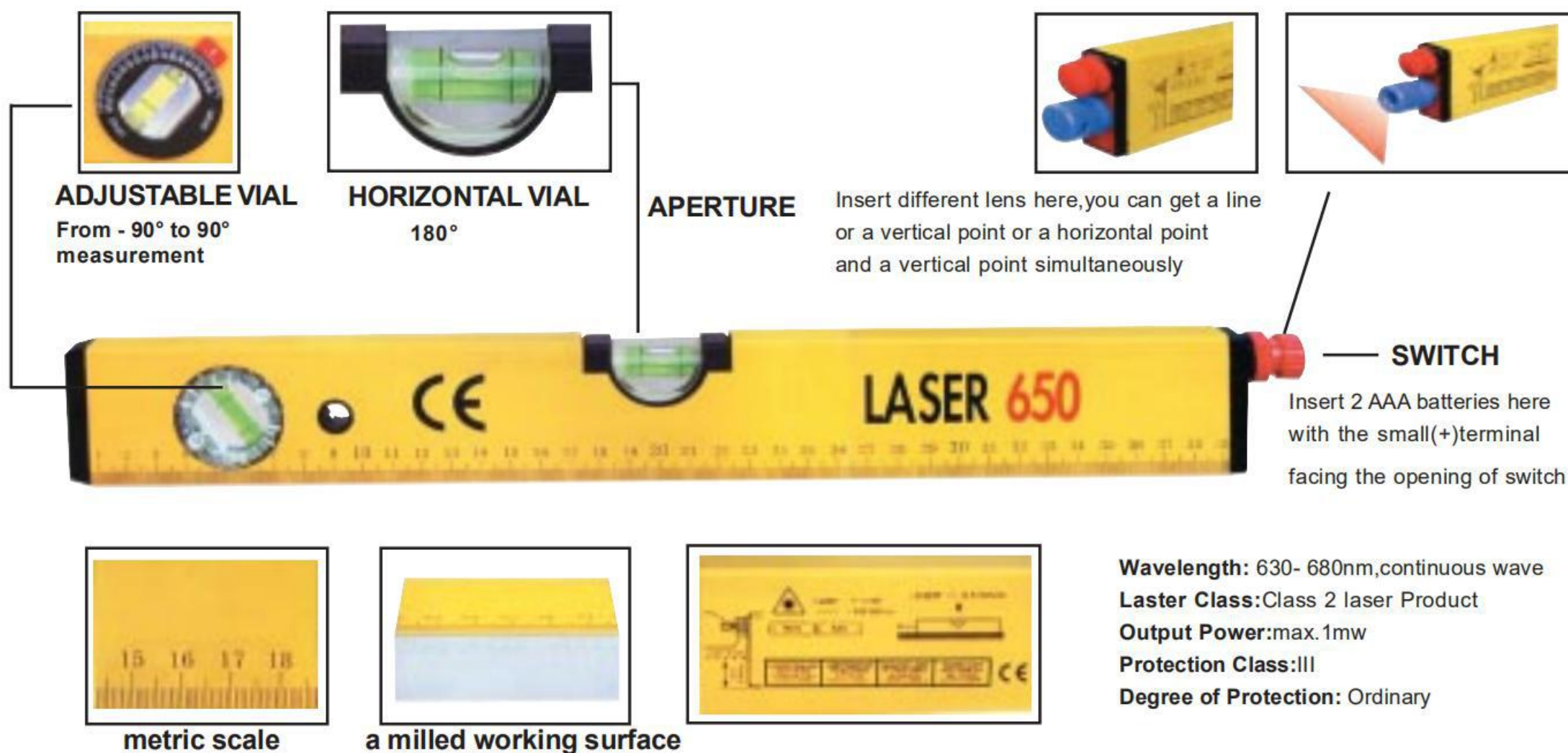
NEW

- Strong enough to pick up a brick
- Agile enough to pick up a dime
- Comfortable impact resistant plastic handle
- 72" Model folds for easy storage
- Rod made of durable stainless steel and aluminum parts
- Features trigger latch for retrieval in hard to reach places



Desc.	Order No.
30", no Latch Lock	810-0231
60", Latch Lock	810-0232
72", Latch Lock & Fold	810-0233

Laser Levels



Laser Level Kit

Laser Level Kit 8110

LASER LEVEL 40CM

Complete in blow mould case with Die cast rotary base type E,
 Tripod,
 Line lens, Plumb point lens



Spec.	Qty/Pack	Gw/Nw	Packing Size	Order No.
16"/40cm	4set	15/13.5kg	52x46x28cm	831-0540

Laser Level Kit 5210

LASER LEVEL 30CM

Complete in blow mould case with ASB rotary base type D,
 line lens, Plumb point lens, Enhancement glasses.



Spec.	Qty/Pack	Gw/Nw	Packing Size	Order No.
12"/30cm	5set	16/14kg	46x32x32cm	831-0830

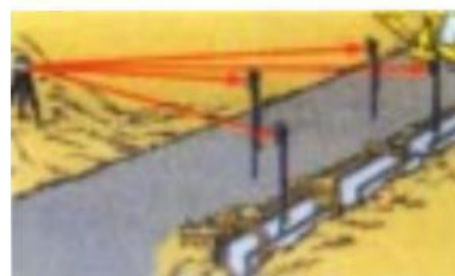
Scan Laser Level

Use scan laser together with tripod, you can precisely and conveniently aline at any height.

- Laser: Class 2 (EN 60825-1)
- Output Power: <= 1mW
- Wave Length: 630-680nm
- Rotating Speed: 0-500RPM
- Accurach+/-0.5mm/m
- Rechargeable Battery of 2 to 4 hours charging time.
- Complete with blow mould case.



Order No.831-0001



Ultrasonic Measuring Laser Level

The instrument features laser level and ultrasonic distance measurement

Laser Level Function

- Laser: Class 2 (EN 60825-1)
- Output Power: $\leq 1\text{mW}$
- Wave Length: 630-680nm
- Accuracy: $\pm 3\text{cm}$
- Complete with blow mould case.

Ultrasonic Distance Measurement

- Distance Range: 0.5-12m
- Graduation: 1cm
- Accuracy: $\pm 3\text{cm}$
- Battery: 9V 6F22
- Inch/mm conversion



Order No.831-0002

Notice:

Laser point shows where you aiming, while the ultrasonic beam takes an instant, accurate measurement and display the result on the LTD. In order to get accuracy result, large, flat hard surface target is a must. Working under normal temperature from 10-30 celsius degree.

Digital Level

The digital level that combined with laser technology is the most advanced and easy use instrument today. It can display both degree and slope. The digital level can measure all angles in either a 360 degree range or 90 degree quadrants. The digital level also includes a backlight so the unit can used day or night. Not only can this instrument measure with a surface at level or at right angles, it can measure the angles of all slopes rise and fall.

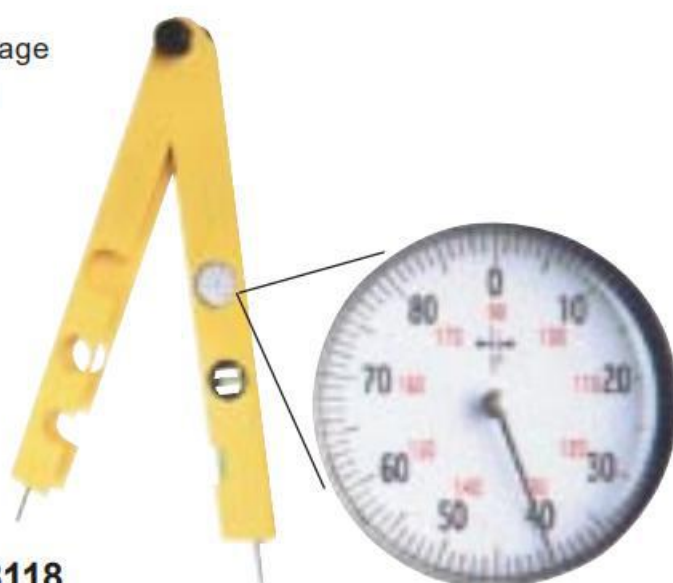
- Range: $4 \times 90^\circ (0-360^\circ)$
- Resolution: 0.1°
- Accuracy $\leq 0.1^\circ$, other angle $\leq 0.2^\circ$
- Working temperature: $+5^\circ\text{C} \sim +40^\circ\text{C}$
- Working temperature: $\leq 85\%\text{RH}$
- Power: AAA3V (1.5v x2)



Ruler Length	Order No.
600mm	831-0060
800mm	831-0080
1000mm	831-0100
1200mm	831-0120

Angle Spirit Level

With round angle gage
Powder coat finish
With 2 vials
Length 47cm



Order No.831-8118

Spirit Levels

Type 92B

Box-profile of extruded aluminium powder coat finish with 3 vials, 1 milled working surface and scale upon require, with screws is available



Spec	Qty/Pack	Gw/Nw	Packing Size	Order No.
16"/40cm	60pc	10/8kg	42x35x28cm	831-2340
20"/50cm	60pc	14/12kg	52x35x28cm	831-2350
24"/60cm	60pc	18/16kg	62x35x28cm	831-2360
32"/80cm	60pc	24/22kg	82x35x28cm	831-2380
40"/100cm	30pc	14/12kg	102x29x19cm	831-2400

Type 89

Die cast aluminium frame Powder coat finish
With 2 vials & 1 milled working surface



Spec	Qty/Pack	Gw/Nw	Packing Size	Order No.
16"/40cm	60pc	19/17kg	42x28x28cm	831-2640
20"/50cm	60pc	22/20kg	52x28x28cm	831-2650
24"/60cm	60pc	26.5/24.5kg	62x28x28cm	831-2660

Magnetic Spirit Levels

Type 98SB

Box-profile of extruded aluminium powder coat finish with 3 vials and magnet



Spec	Qty/Pack	Gw/Nw	Packing Size	Order No.
16"/40cm	60pc	15/13kg	41x25x26cm	831-3040
20"/50cm	60pc	17/15kg	51x25x26cm	831-3050
24"/60cm	60pc	19/17kg	61x25x26cm	831-3060
32"/80cm	30pc	15/13kg	81x20x16.5cm	831-3080
40"/100cm	30pc	17/15kg	101x20x16.5cm	831-3100

Torpedo Levels



Spec	Qty/Pack	Gw/Nw	Packing Size	Order No.
9"	100pc	14/12kg	46x25x22.5cm(Case)	831-6029
9"	100pc		42x32x30cm(Skin Card)	831-6039

Alkaline & Super Heavy Duty Batteries

Alkaline



QTY				
Type	Voltages	Per Pkg.	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

QTY				
Type	Voltages	Per Pkg.	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

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

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

Blow Gun

Thumb Lever Action, Short type

NEW

This is mainly used for blowing off dust and metal particles

- Duster Gun
- Rated Pressure: 0.2-0.4 Mpa
- Max. Pressure: $\leq 8 \text{ kg/cm}^2$

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

Order No. 106-1091

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

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-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

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



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



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



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



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 hols for easy installation
- Two inlets, one each end
- Pressure ratings: air 1000psi, non-shock hydraulic 3000 psi
- Temperature range: -10° to +200°F



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

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