

Scribers

STEEL SCRIBERS



One-End Scribers

Model No. 830-2001

Straight, with knurled handle.
Total Length: 175mm



Double-End Scribers

Model No. 830-0386

One straight and one bent point, with knurled handle
Replaceable Point
Total Length: 250mm



Double-End Scribers

Model No. 830-2002

One straight and one hook
Total Length: 9"



Pocket Scribers

Replaceable hardened and centerless ground point.
Point reverses into knurled body for safety.

Body Dia.	Blade Length	Total Length	Model No.
1/4"	2-3/8"	4-3/4"	830-2003
3/8"	2-7/8"	5-7/8"	830-2004



Single Point Scribers

Model No. 830-2005

Fully hardened point.
Total Length: 5"



Right Angle Scribers

Model No. 830-2006

With hardened point.
Total Length: 8"



Three Point Scribers

Model No. 830-2007

Aluminum knurled body, with three interchangeable Threaded points:
One short straight point, one short bent point, one long bent point,
Total Length of two short point combination: 9"
Total Length of one short point and one long point Combination: 12"

HARD-METAL SCRIBERS WITH CARBIDE POINTS



Pocket Type

Model No. 830-2008

Chrome Plated



Heavy Duty Type

Model No. 830-2009

Heavy body, Diameter 8.0mm
Total Length: 180mm



Model No. 830-2010

Metal body, chrome plated.
With 20mm long carbide point
Total Length: 160mm



Replaceable Point Type

Model No. 830-0389

Aluminum body, With carbide point.
Point Reverses for safety, when not in use.
Replacement point
Total Length: 150mm

Replacement Point for 830-0389 Scriber

Model No. 830-0393

Scribers

PEN STYLE SCRIBER

- Features a replaceable Carbide Tip
- Use for scribing, making or engraving on hard steel, glass, plastics, ceramic, jewelry, etc.
- Screw chuck permits reversing point when not in use for your safety
- Overall length 6"
- Includes a pocket clip for your convenience



Model No.5830-0389

- Features a tungsten carbide scriber on one end, Alnico permanent magnet on the other end
- Point reverses for your safety
- Use magnet end for cleaning chips out of holes, retrieving steel parts and more



Model No.5830-0390

- Plastic Handle
- Round spring Collet Pen Scriber. Pen length:150mm
- Include one 40mm carbide point, one 70mm lead point



Model No.830-2021

- Aluminum Handle
- Round spring Collet Pen Scriber. Pen length:150mm
- Include one 40mm carbide point, one 70mm lead point



Model No.830-2022

Retractable Scribers

- Handle with handy pocket clip
- Point retracts for storage
- Looks like a fine writing instrument
- Replacement tips available



Model No.830-0330

2 in 1 scriber with punch

Pen length:150mm



Model No.830-0332

Pocket scriber

Hexagon aluminum body



Model No.830-0333

Pocket scriber

Hexagon aluminum body



Model No.830-0334

"Ball Point" retractable Scriber

Pen length: 148mm



Model No.830-0335

Heavy duty scriber

With carbide point & black, plastic handle, Total length 150mm



Model No.830-0336

Divider

DIVIDER Rivet Joint Type



Size	Carbon Steel Model No.	Stainless Steel Model 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

DIVIDER Adjustable Screw Type



Size	Carbon Steel Model No.	Stainless Steel Model 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

DIVIDER Rivet Join Type, with Wing



Size	Carbon Steel Model No.	Stainless Steel Model 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

DIVIDER Adjustable Screw Type with Wing



Size	Carbon Steel Model No.	Stainless Steel Model 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

DIVIDER Rivet Join Type, with Wing and Pencil Holder



Size	Carbon Steel Model No.	Stainless Steel Model 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

DIVIDER Spring Type



Size	SPRING Carbon Steel Model No.	SPRING Stainless Steel Model 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 CALIPER

Rivet Joint Type



Size	Carbon Steel Model No.	Stainless Steel Model 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 CALIPER

Adjustable Screw Type



Size	Carbon Steel Model No.	Stainless Steel Model 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 CALIPER

Spring Type



Size	Carbon Steel Model No.	Stainless Steel Model 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 CALIPER

Spring Type



Size	Carbon Steel Model No.	Stainless Steel Model 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 CALIPER

Rivet Joint Type



Size	Carbon Steel Model No.	Stainless Steel Model 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 CALIPER

Adjustable Screw Type



Size	Carbon Steel Model No.	Stainless Steel Model 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

Stamping sets

STEEL STAMPING LETTER & NUMBER SETS

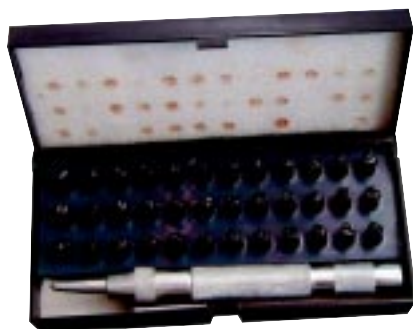
HEAT TREATMENT 50-55 HRC,
ALLOY STEEL



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

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

POWER PUNCH I.D. SET MAKES 38 PCS/SET



- Permanently identifies your belongings.
- Imprints Wood
- Imprints Metal
- Steel Handle 6 x 5/8"

You may order Handle only Model No. 830-8300

"Permanently" apply your name, initials, or phone number to your available
Complete set includes both letters and numbers plus a 6" hammer style.

Description	Model No.
Handle + No. 835-2000 1/16" Letter Punches	830-8350
Handle + No. 835-2001 1/18" Letter Punches	830-8351
Handle + No. 835-2002 3/16" Letter Punches	830-8352
Handle + No. 835-2003 1/4" Letter Punches	830-8353

112-PC. INTERCHANGEABLE STEEL TYPE KITS

For Hand or Machine Use, Special Tool Steel



- A fast easy solution for multi-character marking. Now in a simple stroke 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 59-61 Rockwell Caned nickel finished to resist rust.
- 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.

Sets consist of the following

Size	Model No.
1/16"	829-1800
3/32"	829-1801
1/8"	829-1802
3/16"	829-1803
1/4"	829-1804
3/8"	829-1805

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

Punch Tools

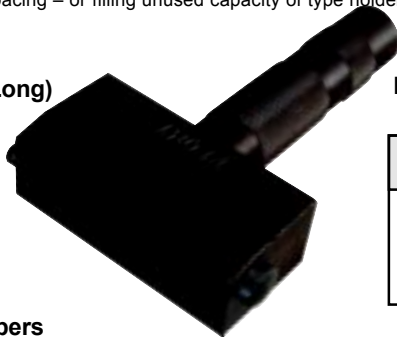
STEEL TYPE & HOLDERS

- 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 Holder

(1/8" Wide, 1/4" High, 1" Long)

Height	Capacity	Model No.
1/8"	8	830-0900
1/8"	12	830-0905
1/4"	8	830-0910
1/4"	12	830-0915



Individual Steel Type Sets

Character Width	Description	Model 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 Blanks

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

Individual Letters & Numbers

Character	1/8" Model No.	1/4" Model No.	Character	1/8" Model No.	1/4" Model No.	Character	1/8" Model No.	1/4" Model 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

FEATURES:

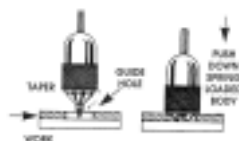
- Moveable components are made from tool steel and hardened. The point is easily removed for sharpening.
- The pressure of marking is controlled by ratching the dunned cap. Screw the cap down for heavy indentations and screw the cap upward for lighter markings
- Automatic Heavy Duty Center Punch..
-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



Model No. 830-3001 steel Handle
Model No. 830-3002 copper Handle

UNIVERSAL TRANSFER PUNCHES & ALIGNERS

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



Specification	Weight (lbs)	Model 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

Individual Punches

Metric 5-pc punch set Model No. 830-0220,
includes all about five sizes.

Metric 3-pc punch set Model No. 830-0230,
includes 1.6mm, 2.0mm, 2.4mm punches.

Inch 5 Piece Punch Set Model No. 830-0200,
includes all about five sizes.

Inch 3 Piece Punch set Model No. 830-0210,
includes 1/16", 5/64", 3/32" punches.

Inch		Metric	
Point Dia.	Model No.	Point Dia.	Model No.
1/16"	830-0201	1.6mm	830-0211
5/64"	830-0202	2.0mm	830-0212
3/32"	830-0203	2.4mm	830-0213
9/64"	830-0204	3.6mm	830-0214
5/32"	830-0205	4.0mm	830-0215

Punch Tools

EXTRA LONG DRIVE PIN PUNCHES

Sets Includes: 1/8", 3/16", 1/4", 5/16", 3/8".
Overall length of 8". Complete with vinyl pouch.

Inch 5 Piece Set Model No. 830-0240

Sets Includes: 3.2mm
4.8 mm, 6.4mm, 8.0mm, 9.5mm. Overall length
of 200mm. Complete with vinyl pouch.

Metric 5 Piece Set Model No. 830-0270

Individual Punches

Inch		Metric	
Point Dia.	Model No.	Point Dia.	Model No.
1/8"	830-0242	3.2mm	830-1242
3/16"	830-0244	4.8mm	830-1244
1/4"	830-0246	6.4mm	830-1246
5/16"	830-0248	8.0mm	830-1248
3/8"	830-0250	9.5mm	830-1250



DRIVE PIN PUNCH SETS



Inch			Metric		
Description	Pcs.	Model No.	Description	Pcs.	Model No.
1/16, 3/32, 1/8, 5/32"	4Pcs	830-0260	1.6, 2.4, 3.2, 4 mm	4Pcs	830-0290
3/16, 7/32, 1/4, 5/16"	4Pcs	830-0262	4.8, 5.6, 6.4, 8.0mm	4Pcs	830-0292
1/16, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16"	8Pcs	830-0264	1.6, 2.4, 3.2, 4 mm	8Pcs	830-0294
			4.8, 5.6, 6.4, 8.0mm		

TRANSFER PUNCHES & SETS

FEATURES:

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

Sets 28pcs/set Punches includes:

4-7/8" long with indexed stand.

Size: 3/32" - 1/2" by 64ths, plus handy 17/32" size.

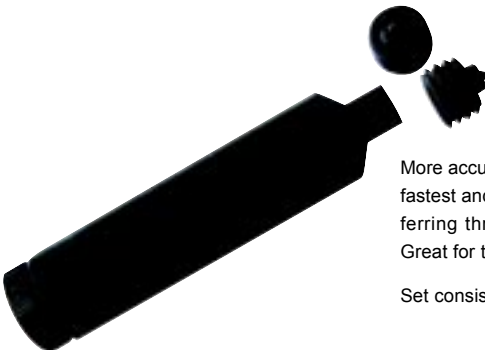


Description	Steel Stand Model No.	Plastic Stand Model No.
25pcs 1mm to 13mm by 0.5mm	830-4025	830-4125
26pcs letters a-z	830-4026	830-4126
28pcs 3/32" to 1/2" by 64ths plus 17/32"	830-4028	830-4128
33pcs 1/2" to 1" by 64ths	830-4033	-----
60pcs numbers 1 to 60	830-4060	830-4160

Individual Punches

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

7-PIECE 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 consist of 1 handle and 6 screws.

Size	Pitch	NC Model No.	Pitch	NF Model No.
4	40	830-3014	48	830-3114
5	40	830-3015	44	830-3115
6	32	830-3016	40	830-3116
8	32	830-3018	36	830-3118
10	24	830-3020	32	830-3120
3/16	24	830-3021	32	830-3121
12	24	830-3022	28	830-3122
1/4	20	830-3023	28	830-3123
5/16	18	830-3024	24	830-3124
3/8	16	830-3025	24	830-3125
7/16	14	830-3026	20	830-3126
1/2	13	830-3027	20	830-3127
9/16	12	830-3028	18	830-3128
5/8	11	830-3029	18	830-3129
3/4	10	830-3030	16	830-3130
7/8	9	830-3031	14	830-3131
1	8	830-3032	14	830-3132

Punch Tools

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

Model No. 830-8006

16 PIECE PUNCH & CHISEL SET

- Comes in a vinyl roll-up pouch.
- 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.



Model No. 830-8016

24 PIECE PIN PUNCH SET

This set combines all the most used pin punches, all are forge hardened, heat-treated tool steel,



Includes:

- 5 piece 8" extra long drive pin punches.
- 8 piece 4" long drive pin punches.
- 5 piece round shank center punches.
- 3 piece 5/32" taper pin punches.
- 1 handle for pin punches.
- 1 piece 6"/150mm ruler.
- 1 piece 4" divider.

Model No. 830-0024

3PCS EXPANDABLE PIN PUNCH SET

- 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.



3pcs set Model No. 830-0029

Size	Model No.
1/4-5/16(6-8mm)	830-0025
5/16-7/16(8-11mm)	830-0026
7/16-11/16(11-17mm)	830-0027

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:
Handle, Plastic case

15pcs sets
Model No.
830-2015



Size	Model No.
9pcs Ø5, Ø6, Ø8, Ø10, Ø12.5, Ø16, Ø20, Ø25	830-2013
10pcs Ø5, Ø6, Ø8, Ø10, Ø12, Ø15, Ø16, Ø20, Ø25	830-2014
15pcs 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 7/8, 1", 1-1/8, 1-1/4, 1-3/8, 1-1/2	830-2015
16pcs 1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4, 7/8, 1", 1-1/16	830-2026
27pcs 1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4, 7/8, 1", 1-1/16, 1-1/8, 1-3/16, 1-1/4, 1-5/16, 1-3/8, 1-7/16, 1-1/2, 1-5/8, 1-11/16, 1-3/4, 1-7/8, 2"	830-2017

BLIND- HOLE SPOTTER

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.



Model No.830-5300 108pcs/set 1/8-21/32" by 32nds. 6pc each.

Model No.830-5305 66pcs/set 11/16-1" By 32nds. 6pc each

Size	Model No.	Size	Model No.	Size	Model No.	Size	Model 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

Deburring Tools

DEBURRING TOOLS & BLADES

Specification	Blade	Picture	Model No.
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 Deburs materials with spiral chips	E100		380-0026
HSS for materials with powdery chips. Rotates clockwise & counter-clockwise	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		380-0040
HSS Blades for deburring small holes in brass and cast	E102		380-0041
iron For straight edge on all materials	E350		380-0042
countersink for hole-edges with up to 12mm/ 0.47" Diameter, M 7	C12		380-0016
Countersink for hole-edges with up to 20mm/ 0.79" Diameter, M 7	C20		380-0017
Countersink for hole-edges with up to 30mm/1.18" Diameter, M 7	C30		380-0043

Specification	Blade	Picture	Model No.
@6X20mm, triangular HSS scraper for precision work, M 5	D20		380-0044
@4.0x25mm, triangular HSS scraper for precision work, M 5	D25		380-0045
@5.6X30mm, triangular HSS scraper for precision work, M 5	D30		380-0046
@6.5X33mm, triangular HSS scraper for precision work, M 5	D40		380-0047
@3.2 X 50 mm, D 1 Bladeholder with UN handle	D50		380-0018
@3.2 x 48 mm, D 1 Bladeholder with UN handle	D66		380-0020
For sheet metal. Range 1-8 mm. Hand-Guard available upon request	L3		380-0048
Used for deburring small ridges in difficult to reach places. Range of 0-2.5mm	L4		380-0049
To relieve corners of narrow slots from 3.5mm. Double ended blade L7 for cutting in two directions also available	L5		380-0050
Effective corner relief. wide range of applications	L6		380-0051
Double-edged, round HSS blade for massive deburring tasks on materials with spiral chips	N80		380-0061
Standard blade for keyways	N80K		380-0055



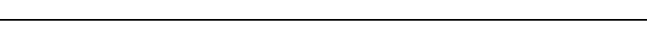
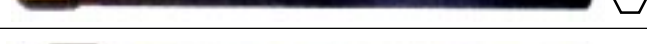
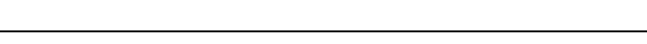
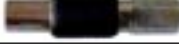
6 PIECE DEBURRING TOOLS SET

Includes: Flat Diamond Coated File, Triangular Scraper, Flat Scraper, Round Scraper, Swivel Blade Tool, Rotational Deburring Tool With Minimum Hole Diameter 0.08"

Model No.380-0160

Deburring Tools

DEBURRING TOOLS & BLADES

Specification	Holder	Picture	Model 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		380-0021
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		380-0023
Blades are held in a 3mm square hole and tightened with 4mm set Holder LD screw. Holds L, L4, L5 & L6 blades	Holder LD		380-0024
Holds all B blades	Holder BH		380-0029
Holds all E blades	Holder EH		380-0030
Has an hexagonal cross section to prevent rotating inside Handle. External M7 thread to accept the countersinks: C12, C20, C30	Holder F7		380-0032
Has an hexagonal cross section to prevent rotating inside Handle. External M5 thread to accept the Adapter: E, B, C & L	Holder F5		380-0033
Has an hexagonal cross section to prevent rotating inside Handle. Inner M5 thread to accept the countersinks: 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		380-0035
Inner M5 thread to holds all B blade	Adapter B		380-0036
Inner M5 thread to holds all E blade	Adapter E		380-0037
Inner M5 thread to holds Holds D20, D25, D30 & D40 blade	Adapter C		380-0038
Inner M5 thread to holds Holds L3, L4, L5 & L6 blade	Adapter L		380-0039

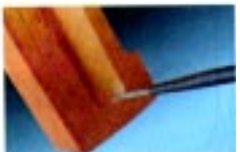
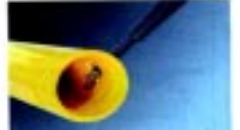
Deburring Tools

Specification	Handle	Picture	Model No.
Ergonomically held handle with soft grip. Accepts both heavy and light duty "B" & "E" blades due to 2 holes	Handle SG		380-0053
Plastic Replacement Handle Fit all E blades	Handle NE		380-0056
A unique handle with large storage space for spare blades. Better grip. Safety button for quick change of blades	Handle NB		380-0057
A unique handle which can hold the total range of Blade holders: round, hexagonal and triangular cross section	Handle UNI		380-0058
Hexagonal aluminium painted Handle. Accept all E blades all blades	Handle RB		380-0059
Rapid deburring tool Handle. Accept 100E blade. Which is replaceable	Handle B		380-0062
Hexagonal plastic handle. Holds all "E" (3.2mm) Blades	Handle EO		380-0063
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

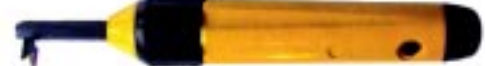
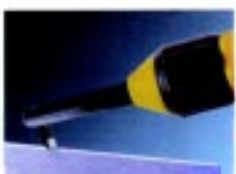
Deburring Tools

Specification		Picture	Model 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" (@3.2mm) Blades.The Blade is replaceable			380-0068
PUSH SLEEVE Includes:E100 Blade,12mm Hexagonal painted Aluminium Handle.all "E" (@3.2mm) Blades.To replace blades,push black sleeve back into handle and pull blade out			380-0069
PUSH BUTTON Rapid deburring tool Handle. Accept 100 E blade.Which is replaceable			380-0054
NE BURR1,3,5 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			380-0070 380-0071 380-0072
NB BURR1,3,5 Includes:NB-handle and "E" series Blade. 1:E100 3:E100,E200,E350 5:E100,E200,E350,E101,E102			380-0073 380-0074 380-0075
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			380-0076

Deburring Tools

Specification		Picture	Model No.
SLOTEGE 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			380-0118
B UN BURR Includes: Un-handle, B-holder, one B10 Blade Includes: Un-handle, B-holder, one B20 Blade			380-0120 380-0122
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			380-0124 380-0126 380-0128
B UNI BURR Includes: Uni-handle, B-holder, one B10 Blade Includes: Uni-handle, B-holder, one B20 Blade			380-0130 380-0132
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			380-0134 380-0136 380-0138
MINI-SCRAPER Includes: UNI-handle, D1-holder, Triangular Mini-Scraper D50. Hollow ground			380-0140
INTERNAL SCRAPER Includes: UNI-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			380-0142
Includes: UNI-handle, DH-holder, D25 blade & key			380-0144
Includes: UNI-handle, DH-holder, D30 blade & key			380-0146
Includes: UNI-handle, DH-holder, D40 blade & key			380-0148

Deburring Tools

Specification		Picture	Model No.
COUNTERSINK Can be locked in any position. Most useful for chamfering deep holes. Includes:Uni-handle,F7-holder,12mm Countersink			380-0150
Includes:Uni-handle,F7-holder,20mm Countersink			380-0152
Includes:Uni-handle,F7-holder,30mm Countersink			380-0154
"V" CUT Includes:UNI-handle,LD Blade-holder,L3 Blade . For sheet metal.Range 1-8 mm.Hand-Guard available upon request			380-0156
MINI-CUT Includes:UNI-handle,LD Blade-holder,L4 Blade . Used for deburring small ridges in difficult to reach places.Range of 0-2.5mm			380-0158
SLOT CLEANER Includes:UNI-handle,LD Blade-holder,L5 Blade . To relieve corners of narrow slots from 3.5mm Double ended blade L7 for cutting in two directions aslo available			380-0162
CORNER CLEANER Includes:UNI handle,LD blade.Effective corner relief. Wide range of applications			380-0164
KEYWAY BURR Includes:UNI-handle,K blade-holder,N80K blade. Effective removes burrs from internal and external keyways.Range 2.4-11mm			380-0166
DOUBLE-BURR Includes:Double burr,hand guard,2xN80 Blades. Simultaneously removes burrs from both sides of sheet metal			380-0060

Deburring Tools

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, Blades: B10, B20, B30, E100, E200, E300, Wrench

Model No. 380-0170

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

Model No. 380-0171

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

Model No. 380-0172

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 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

Model No. 380-0173

UNIVERSAL EXTRA SET



The complete uni kit for professional machinists

Includes: UNI handle, M5 & M7 holder, Adapter L, Adapter E, Cleaners: L3, L4, L5, L6, Blades: E100, E200, Countersink: C12, C20, Hex Wrench, D Wrench

Model No. 380-0174



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, Blades: B10, B12, E100, E200, Countersink: C12, C20, C30, Hex Wrench, D Wrench

Model No. 380-0175

Deburring Tools

3PCS RAPID DEBURRING TOOL

Rapid deburring tool with blade E100,
Which is not replacable

Includes:3Pcs 380-0052



Model No.380-0352

SCRAPER SET

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



Model No.380-0103

4PCS DEBURRING TOOL SET



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

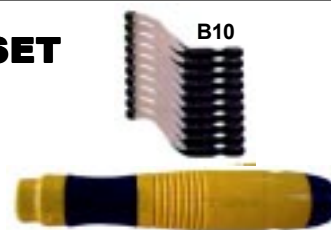
Model No.380-0003

SOFT GRIP SET



Includes:
SG handle.
B10 Blade (10 Pcs)
E100 Blade(10 pcs)

Model No.380-0102



Includes:
SG handle.
B10 Blade (1 Pcs)
E100 Blade (20 Pcs)

Model No.380-0101

5PCS 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

UNIVERSAL SET

The Plastic EDGE OFF Set

for Plastic
for Steel
for Brass
for Aluminium

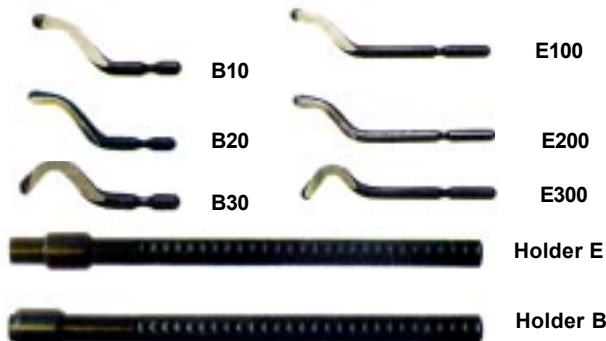


Includes:
EO handle+B10 Blade (for Aluminium).
EO handle+B20 Blade (for Brass & Cast Iron).
EO handle+E100 Blade (for Steel).
EO handle+E200 Blade (for Plastic).

Order No.380-0104

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.



Order No.380-0007

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

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.380-0180

SWISS PATTERN FILES



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Industrial grade

Pillar Files

- Similar in shape to Hand Files but only two-thirds as wide.
- Double cut on two sides only.

Length	Approx. Width	Cut No. 00 Model No.	Cut No. 0 Model No.	Cut No. 2 Model No.
4"	3/8 x 7/64"	511-0004	511-0104	511-0204
6"	1/2 x 9/64"	511-0006	511-0106	511-0206
8"	39/64 x 13/64"	511-0008	511-0108	511-0208

Pillar Narrow & Extra Narrow Files

- Similar in shape to Hand Files but only two-thirds as wide.
- Double cut on two sides only.
- Edges are safe.

Length	Approx. Width	Cut No. 00 Model No.	Cut No. 0 Model No.	Cut No. 2 Model No.
6"	23/64 x 9/64"	511-1006	511-1106	511-1206
8"	29/64 x 13/64"	511-1008	511-1108	511-1208
8"	1/4 x 5/32"	511-1018	511-1118	511-1218

Half Round Files

- Taper in thickness and width to a point.
- Double cut on both flat and half round sides

Length	Approx. Width	Cut No. 00 Model No.	Cut No. 0 Model No.	Cut No. 2 Model No.
4"	11/32 x 1/8"	511-2004	511-2104	511-2204
6"	17/32 x 9/64"	511-2006	511-2106	511-2206
8"	45/64 x 3/64"	511-2008	511-2108	511-2208

Round Files

- Taper throughout length to a fine point.
- Double cut .

Length	Approx. Width	Cut No. 00 Model No.	Cut No. 0 Model No.	Cut No. 2 Model No.
4"	1/8"	511-3004	511-3104	511-3204
6"	3/16"	511-3006	511-3106	511-3206
8"	1/4"	511-3008	511-3108	511-3208

Hand Files

- Parallel in width but taper in thickness
- Sides are double cut.
- Single cut on one edge, safe cut on other edge.

Length	Approx. Width	Cut No. 00 Model No.	Cut No. 0 Model No.	Cut No. 2 Model No.
4"	17/32 x 1/8"	511-4004	511-4104	511-4204
6"	3/4 x 5/32"	511-4006	511-4106	511-4206

Warding Files

- Rectangular in cross section with thickness approx. One-eighth their width.
- Taper slightly in thickness and to a point in width.
- Double cut on flat sides & single on edges.

Length	Approx. Width	Cut No. 00 Model No.	Cut No. 0 Model No.	Cut No. 2 Model No.
4"	17/32 x 3/64"	511-5004	511-5104	511-5204
6"	5/16 x 5/64"	511-5006	511-5106	511-5206

Three square Files

- A triangular section with 60° angles.
- Gradually tapered on all sides to fine point.
- Ideal for filing corners and edges in extrusion dies where sharp edges must be held.

Length	Approx. Width	Cut No. 00 Model No.	Cut No. 0 Model No.	Cut No. 2 Model No.
4"	9/32"	511-6004	511-6104	511-6204
6"	3/4 x 3/8" 5/32"	511-6006	511-6106	511-6206

Knife Files

- Tapered in width and thickness .
- Same thickness from point to shoulder at the knife edge.
- Approx 10° included angle of sharp edge.
- Ideal for filing in a slot, wedge shape opening, or restricted area.

Length	Approx. Width	Cut No. 00 Model No.	Cut No. 0 Model No.	Cut No. 2 Model No.
4"	15/32x1/8"	511-7004	511-7104	511-7204
6"	23/32x5/32"	511-7006	511-7106	511-7206



BASTARD



SECOND CUT



SMOOTH

AMERICAN PATTERN FILES

Industrial Grade

Three square files



- Machinist's Files.
- Triangular in cross-section, double-cut, have fairly sharp corners.
- For filing internal angles.
- More acute than the right angle for clearing out square corners.

Length	Approx. Width	Bastard Cut Second CutSmooth Cut		
		Model No.	Model No	Model No.
4"	11/32"	510-6004	510-6104	510-6204
6"	15/32"	510-6006	510-6106	510-6206
8"	5/8"	510-6008	510-6108	510-6208
10"	3/4"	510-6010	510-6110	510-6210
12"	27/32"	510-6012	510-6112	510-6212
14"	15/16"	510-6014	510-6114	510-6214

Mill files



- For sharpening Mill or Circular Saws, and finishing metals.
- All sizes tapered slightly in width.
- 12", 14" and 16" tapered slightly in thickness for about one-third of length.
- Two square edges.
- Single cut on sides and edges.

Length	Approx. Width	Bastard Cut Second CutSmooth Cut		
		Model No.	Model No	Model No.
4"	7/16 x 5/64"	510-7004	510-7104	510-7204
6"	19/32 x 7/64"	510-7006	510-7106	510-7206
8"	25/32 x 9/64"	510-7008	510-7108	510-7208
10"	31/32 x 11/64"	510-7010	510-7110	510-7210
12"	1-5/32 x 7/32"	510-7012	510-7112	510-7212
14"	1-5/16 x 1/4"	510-7014	510-7114	510-7214
16"	1-1/2 x 9/32"	510-7016	510-7116	510-7216

Warding files



- Rectangular in section and used principally by locksmiths in repairing or in filing ward notches in keys.
- Also suitable for use in narrow spaces where other files will not fit. All double cut on sides, single cut on edges.

Length	Approx. Width	Bastard Cut Second CutSmooth Cut		
		Model No.	Model No	Model No.
4"	15/32 x 3/64"	510-8004	510-8104	510-8204
6"	5/8 x 5/64"	510-8006	510-8106	510-8206
8"	25/32 x 3/32"	510-8008	510-8108	510-8208
10"	15/16 x 1/8"	510-8010	510-8110	510-8210
12"	1-3/32 x 5/32"	510-8012	510-8112	510-8212
14"	1-1/4 x 3/16"	510-8014	510-8114	510-8214

Knife files



- Double cut.
- Used in getting through very small.
- Crevices, slots, keyways, etc.
- Generally used by tool and die makers on work having acute angles

Length	Approx. Width	Bastard Cut Second CutSmooth Cut		
		Model No.	Model No	Model No.
4"	15/32 x 7/64"	510-0004	510-0104	510-0204
6"	21/32 x 5/32"	510-0006	510-0106	510-0206
8"	27/32 x 3/16"	510-0008	510-0108	510-0208
10"	1-1/32 x 1/4"	510-0010	510-0110	510-0210

Flat files



- Rectangular cross-section.
- Double cut teeth.
- Slight taper.
- Cut on both sides.
- Used wherever metal must be removed rapidly.

Length	Approx. Width	Bastard Cut Second CutSmooth Cut		
		Model No.	Model No	Model No.
4"	7/16 x 1/8"	510-1004	510-1104	510-1204
6"	19/32 x 5/32"	510-1006	510-1106	510-1206
8"	3/4 x 7/32"	510-1008	510-1108	510-1208
10"	15/16 x 9/32"	510-1010	510-1110	510-1210
12"	1-1/8 x 11/32"	510-1012	510-1112	510-1212
14"	1-9/32 x 13/32"	510-1014	510-1114	510-1214
16"	1-15/32 x 15/32"	510-1016	510-1116	510-1216

Half round files



- The cross-section is rounded on one side and flat on the other.
- Allows the file to be used effectively on convex and concave surfaces.
- Tapered towards the points in width and thickness.

Length	Approx. Width	Bastard Cut Second CutSmooth Cut		
		Model No.	Model No	Model No.
4"	7/16 x 1/8"	510-2004	510-2104	510-2204
6"	19/32 x 5/32"	510-2006	510-2106	510-2206
8"	3/4 x 7/32"	510-2008	510-2108	510-2208
10"	15/16 x 9/32"	510-2010	510-2110	510-2210
12"	1-1/8 x 11/32"	510-2012	510-2112	510-2212
14"	1-9/32 x 13/32"	510-2014	510-2114	510-2214
16"	1-15/32 x 15/32"	510-2016	510-2116	510-2216

Round files



- Machinist's file.
- Circular in cross-section.
- Use to file circular openings or concave surfaces.
- Bastard cut 6" and longer, second cut files 12" and longer are double cut. All others are single cut.

Length	Approx. Width	Bastard Cut Model No.	Second Cut Model No.	Smooth Cut Model No.
4"	5/32"	510-4004	510-4104	510-4204
6"	1/4"	510-4006	510-4106	510-4206
8"	5/16"	510-4008	510-4108	510-4208
10"	3/8"	510-4010	510-4110	510-4210
12"	1/2"	510-4012	510-4112	510-4212
14"	5/8"	510-4014	510-4114	510-4214

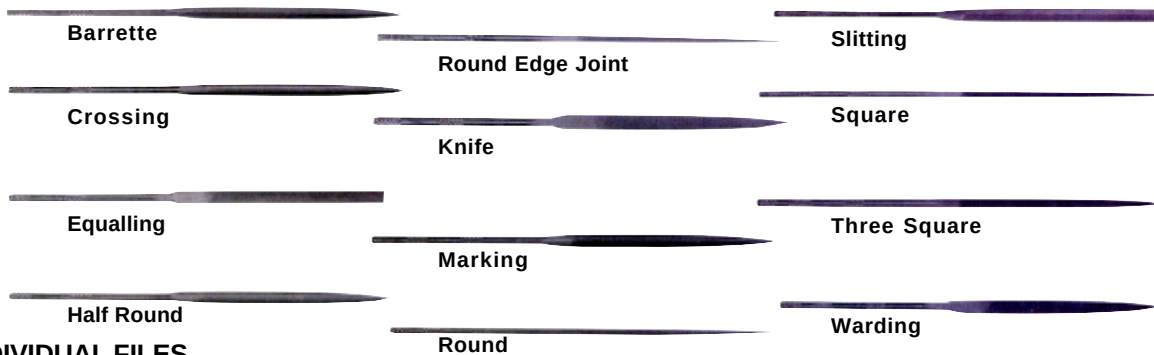
Square files



- Square in cross-section.
- Used principally for filing slots, keyways.
- General surface filing.
- Double cut.

Length	Approx. Width	Bastard Cut Model No.	Second Cut Model No.	Smooth Cut Model No.
4"	5/32"	510-5004	510-5104	510-5204
6"	1/4"	510-5006	510-5106	510-5206
8"	5/16"	510-5008	510-5108	510-5208
10"	3/8"	510-5010	510-5110	510-5210
12"	1/2"	510-5012	510-5112	510-5212
14"	5/8"	510-5014	510-5114	510-5214

SWISS PATTERN KNURLED ROUND HANDLE NEEDLE FILES



INDIVIDUAL FILES

Type	Overall Length	Length Of Cut	Cut No. 0 Model No.	Cut No.1 Model No.	Cut No.2 Model No.
Round	4"	2"	382-0401	382-0421	382-0431
Round	5-1/2"	2-1/2"	382-0501	382-0521	382-0531
Round	6-1/4"	3"	382-0601	382-0621	382-0631
Half Round	4"	2"	382-0402	382-0422	382-0462
Half Round	5-1/2"	2-1/2"	382-0502	382-0522	382-0562
Half Round	6-1/4"	3"	382-0602	382-0622	382-0632
Square	4"	2"	382-0403	382-0423	382-0433
Square	5-1/2"	2-1/2"	382-0503	382-0523	382-0533
Square	6-1/4"	3"	382-0603	382-0623	382-0633
Three Square	4"	2"	382-0404	382-0424	382-0434
Three Square	5-1/2"	2-1/2"	382-0504	382-0524	382-0534
Three Square	6-1/4"	3"	382-0604	382-0624	382-0634
Knife	4"	2"	382-0405	382-0425	382-0435
Knife	5-1/2"	2-1/2"	382-0505	382-0525	382-0535
Knife	6-1/4"	3"	382-0605	382-0625	382-0635
Flat	4"	2"	382-0406	382-0426	382-0436
Flat	5-1/2"	2-1/2"	382-0506	382-0526	382-0536
Flat	6-1/4"	3"	382-0606	382-0626	382-0636
Equaling	4"	2"	382-0407	382-0427	382-0437
Equaling	5-1/2"	2-1/2"	382-0507	382-0527	382-0537
Equaling	6-1/4"	3"	382-0607	382-0627	382-0637
Barrette	4"	2"	382-0408	382-0428	382-0438
Barrette	5-1/2"	2-1/2"	382-0508	382-0528	382-0538
Barrette	6-1/4"	3"	382-0608	382-0628	382-0638
Crossing	4"	2"	382-0409	382-0429	382-0439
Crossing	5-1/2"	2-1/2"	382-0509	382-0529	382-0539
Crossing	6-1/4"	3"	382-0609	382-0629	382-0639
Joint	4"	2"	382-0410	382-0420	382-0430
Joint	5-1/2"	2-1/2"	382-0510	382-0520	382-0530
Joint	6-1/4"	3"	382-0610	382-0620	382-0630
Marking	4"	2"	382-1411	382-1421	382-1431
Marking	5-1/2"	2-1/2"	382-1511	382-1521	382-1531
Marking	6-1/4"	3"	382-1611	382-1621	382-1631
Slitting	4"	2"	382-1412	382-1422	382-1432
Slitting	5-1/2"	2-1/2"	382-1512	382-1522	382-1532
Slitting	6-1/4"	3"	382-1612	382-1622	382-1632

NEEDLE FILE SETS



6 Piece

Size	Cut No. 0 Model No.	Cut No. 2 Model No.	Cut No. 3 Model No.
4"	382-0640	382-0642	382-0643
5-1/2"	382-0650	382-0652	382-0653
6-1/4"	382-0660	382-0662	382-0663

12 Piece

Include one each of the same size of the above styles.

Size	Cut No. 0 Model No.	Cut No. 2 Model No.	Cut No. 3 Model No.
4"	382-0040	382-0042	382-0043
5-1/2"	382-0050	382-0052	382-0053
6-1/4"	382-0060	382-0062	382-0063
7"	382-0064	382-0065	382-0066

10 Piece

Size	Cut No. 0 Model No.	Cut No. 2 Model No.	Cut No. 3 Model No.
4"	382-0140	382-0142	382-0143
5-1/2"	382-0150	382-0152	382-0153
6-1/4"	382-0160	382-0162	382-0163

5 Piece

7" 2-CUT

Model No. 382-0071

10 Piece Set

7" 2-CUT

Model No. 382-0072

DIAMOND NEEDLE FILE SETS

Can be used on carbide, hardened steel, and ceramics, made with a hard chrome bond that gives a long life and wears extremely well.



5 Piece

Set include one each of:

Round, Half Round, Square, Equaling, Triangle

Approx. Length	Coarse Width	Coarse Model No.	Medium Model No.	Fine Model No.
7-1/4"	2"	382-0707	382-0708	382-0709
5-3/4"	2-3/4"	382-0711	382-0715	382-0720
5-3/4"	1-5/8"	382-0701	382-0705	382-0710

10 Piece

Sets include one each of:

Round, Half Round, Square, Three Square, Flat, Crossing, Equaling, Barrette, Marking, Slitting.

MEDIUMTYPE

OAL	Length of Cut	Model No.
5-1/2"	2-3/4"	382-0724
6-1/4"	3"	382-0725

DIE MAKERS RIFFLER FILE SETS

Riffler Files are used by tool and die makers to clean odd and difficult places. A hobbyist's dream. Available in 6-3/4". No.0 and No. 2 Cut.

Cut	Model No.
No. 0	382-0032
No. 2	382-0034



8 PIECE DIE MAKER RIFFLER FILE SET EXTRA ROUGH CUT

Heavy Duty

8" Long, 3/16" Square Handle, 16 Different File Shapes. Complete With Plastic Pouch.

Model No. 382-0039



DIE SINKER RIFFLER FILE SETS



Double End No. 2 Cut

Complete with Plastic Wallet

5 Piece Model No. 382-0035

7" Heavy Duty Set 3/16" Body

5 Piece Model No. 382-0038

7" Set 1/8" Body

10 Piece Model No. 382-0041

6-1/2" Set 1/8" Body

10 Piece Model No. 382-0044

6-1/2" Heavy Duty Set 3/16" Body

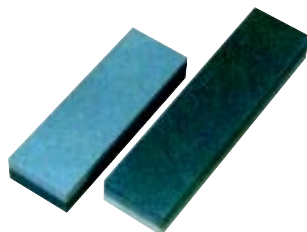
DIAMOND MOUNTED POINT



Piece	Shank Size	Overall Length	Model No.
10pcs	3/32"	1-3/4"	389-9100
20pcs	3/32"	1-3/4"	389-9200
25pcs	3/32"	1-3/4"	389-9250
10pcs	1/8"	1-3/4"	389-9101
20pcs	1/8"	1-3/4"	389-9201
25pcs	1/8"	1-3/4"	389-9251
30pcs	1/8"	1-3/4"	389-9300
10pcs	1/4"	2-3/8"	389-9102
20pcs	1/4"	2-3/8"	389-9202

Pieces/set	Shank Size	Overall Length	Model No.
20pcs/set	3mm	45mm	389-9204
25pcs/set	3mm	45mm	389-9254
30pcs/set	3mm	45mm	389-9304
10pcs/set	6mm	45mm	389-9104
10pcs/set	6mm	60mm	389-9106
20pcs/set	6mm	60mm	389-9206

SHARPENING STONES

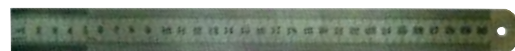


Coarse and fine grit vitrified into one stone. 120 & 150 grit.

Size	Aluminum Oxide Model No.	Silicon Carbide Model No.
1 x 2 x 6"	399-6790	399-6792
1 x 2 x 8"	399-6791	399-6793

Ruler

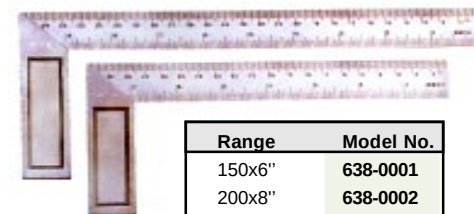
STAINLESS STEEL RULER



Thickness		
Range	x Width	Model No.
100x4"	0.5x13mm	638-9041
150x6"	0.75x19mm	638-9061
150x6"	1.0x19mm	638-9062
150x6"	0.5x13mm	638-9063
200x8"	0.75x19mm	638-9081
200x8"	1.0x19mm	638-9082
200x8"	0.5x13mm	638-9083
250x10"	0.75x19mm	638-9101
250x10"	1.0x19mm	638-9102
250x10"	0.5x13mm	638-9103
300x12"	0.75x30mm	638-9121
300x12"	1.0x30mm	638-9122
300x12"	0.5x13mm	638-9123
400x16"	0.75x30mm	638-9161
400x16"	1.0x30mm	638-9162
400x16"	0.5x13mm	638-9163
500x20"	0.75x30mm	638-9201
500x20"	1.0x30mm	638-9202

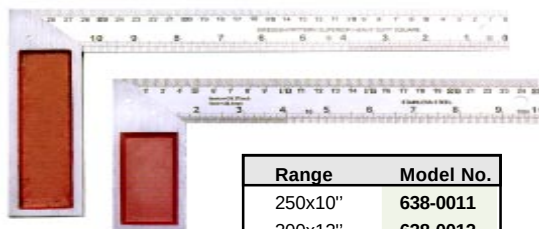
Thickness		
Range	x Width	Model No.
500x20"	0.5x13mm	638-9203
600x24"	0.75x30mm	638-9241
600x24"	1.0x30mm	638-9242
600x24"	0.5x13mm	638-9243
1000x40"	1.0x30mm	638-9401
1000x40"	2.0x30mm	638-9402
1000x40"	2.0x40mm	638-9403
1000x20"	0.5x24mm	638-9404
1200x48"	1.0x30mm	638-9481
1200x48"	2.0x30mm	638-9482
1200x48"	2.0x40mm	638-9483
1200x48"	0.5x24mm	638-9484
1500x60"	1.0x30mm	638-9601
1500x60"	2.0x30mm	638-9602
1500x60"	2.0x40mm	638-9603
2000x80"	1.0x30mm	638-9801
2000x80"	2.0x30mm	638-9802
2000x80"	2.0x40mm	638-9803

CAST IRON HANDLE SQUARE



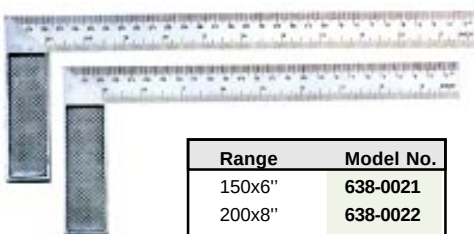
Range	Model No.
150x6"	638-0001
200x8"	638-0002
250x10"	638-0003
300x12"	638-0004

CAST IRON HEAVY STEEL SQUARE



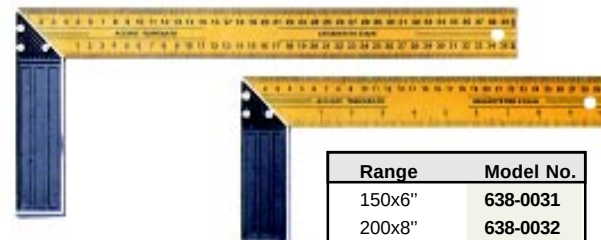
Range	Model No.
250x10"	638-0011
300x12"	638-0012

ALUMINIUM HANDLESQUARE



Range	Model No.
150x6"	638-0021
200x8"	638-0022
250x10"	638-0023
300x12"	638-0024

ALUMINIUM HANDLE SQUARE WITH PAINTED



Range	Model No.
150x6"	638-0031
200x8"	638-0032
250x10"	638-0033
300x12"	638-0034
350x14"	638-0035

SCREW EXTRACTOR

Spiral Flute

For removing broken screws, bolts, studs, and pipes



Remove Screws	Use Drill	Carbon Steel	Alloy Steel
	Size	Model No.	Model 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"&1/8" pipe	1/4"	312-8904	312-8924
5# 3/8— 5/8"&1/4" pipe	19/64"	312-8905	312-8925
6# 5/8-7/8" & 3/8" pipe	13/32"	312-8906	312-8926
7# 7/8— 1-1/8" & 1/2" pipe	17/32"	312-8907	312-8927
8# 1-1/8— 1-3/8" & 3/4" pipe	13/16"	312-8908	312-8928
9# 1-3/8— 2" & 1" pipe	1-1/16"	312-8909	312-8929
10# 2-1/8— 2-1/2" & 1-1/4" pipe		312-8910	312-8930
11# 2-1/2— 3" & 1-1/2" pipe		312-8911	312-8931
5pcs/set in Plastic case #1-5.		312-8900	312-8920

POWER HACKSAW BLADES



Metric Size

L	W	Thickness	TPI	M2 Model No.	W9 Model No.
300	25	1.25	10T	402-1001	402-1101
300	25	1.6	10T	402-1002	402-1102
350	25	1.25	10T	402-1003	402-1103
350	32	1.6	10T	402-1004	402-1104
400	32	1.6	10T	402-1005	402-1105
400	32	1.6	8T	402-1006	402-1106
400	32	1.6	6T	406-1007	402-1107
400	32	1.6	4T	402-1008	402-1108
400	32	2	10T	402-1009	402-1109
400	32	2	8T	402-1010	402-1110
400	32	2	6T	402-1011	402-1111
400	32	2	4T	402-1012	402-1112
450	36	1.8	10T	402-1013	402-1113
450	36	1.8	8T	402-1014	402-1114
450	36	1.8	6T	402-1015	402-1115
450	36	1.8	4T	402-1016	402-1116
450	38	1.8	10T	402-1017	402-1117
450	38	1.8	8T	402-1018	402-1118
450	38	1.8	6T	402-1019	402-1119
450	38	1.8	4T	402-1020	402-1120
450	38	2	10T	402-1021	402-1121
450	38	2	8T	402-1022	402-1122
450	38	2	6T	402-1023	402-1123
450	38	2	4T	402-1024	402-1124
500	40	2	6T	402-1025	402-1125
500	40	2	4T	402-1026	402-1126
550	40	2	6T	402-1027	402-1127
550	40	2	4T	402-1028	402-1128
550	40	2.5	6T	402-1029	402-1129
550	40	2.5	4T	402-1030	402-1130
550	40	2.5	6T	402-1031	402-1131
550	40	2.5	4T	402-1032	402-1132
600	40	2	6T	402-1033	402-1133
600	40	2	4T	402-1034	402-1134
600	40	2.5	6T	402-1035	402-1135
600	40	2.5	4T	402-1036	402-1136
600	45	2.5	6T	402-1037	402-1137
600	45	2.5	4T	402-1038	402-1138
650	45	2.5	6T	402-1039	402-1139
650	45	2.5	4T	402-1040	402-1140
700	45	2.5	6T	402-1041	402-1141
700	45	2.5	4T	402-1042	402-1142
750	45	2.5	6T	402-1043	402-1143
750	45	2.5	4T	402-1044	402-1144

Inch Size

L	W	Thickness	TPI	M2 Model No.	W9 Model No.
12	1	1.25	14T	402-1201	402-1301
12	1	1.6	14T	402-1202	402-1302
14	1	1.25	14T	402-1203	402-1303
14	1	1.6	14T	402-1204	402-1304
17	1	1.6	14T	402-1205	402-1305
12	1	1.25	10T	402-1206	402-1306
14	1	1.25	10T	402-1207	402-1307
14	1	1.6	10T	402-1208	402-1308
14	1-1/4	1.6	10T	402-1209	402-1309
16	1	1.25	10T	402-1210	402-1310
16	1-1/4	1.6	10T	402-1211	402-1311
17	1-1/4	1.6	10T	402-1212	402-1312
18	1-1/4	1.6	10T	402-1213	402-1313
18	1-1/4	1.8	10T	402-1214	402-1314
18	1-1/2	2	10T	402-1215	402-1315
18	1	1.6	10T	402-1216	402-1316
21	1-1/2	2	10T	402-1217	402-1317
24	1-1/2	2	10T	402-1218	402-1318
14	1-1/4	1.6	6T	402-1219	402-1319
14	1-1/2	1.8	6T	402-1220	402-1320
16	1-1/4	1.6	6T	402-1221	402-1321
17	1-1/4	1.6	6T	402-1222	402-1322
18	1-1/4	1.6	6T	402-1223	402-1323
18	1-1/2	1.8	6T	402-1224	402-1324
18	1-1/2	2	6T	402-1225	402-1325
20	1-1/2	2	6T	402-1226	402-1326
20	2	2.5	6T	402-1227	402-1327
21	1-1/2	2	6T	402-1228	402-1328
21	1-3/4	2.5	6T	402-1229	402-1329
24	1-1/2	2	6T	402-1230	402-1330
24	2	2.5	6T	402-1231	402-1331
28	2	2.5	6T	402-1232	402-1332
14	1-1/4	1.6	4T	402-1233	402-1333
16	1-1/4	1.6	4T	402-1234	402-1334
18	1-1/4	1.6	4T	402-1235	402-1335
18	1-1/4	1.8	4T	402-1236	402-1336
18	1-1/2	2	4T	402-1237	402-1337
21	1-1/4	2.5	4T	402-1238	402-1338
21	1-1/2	2	4T	402-1239	402-1339
21	1-3/4	2.5	4T	402-1240	402-1340

Tape

HIGH SPEED HAND HACKSAW BLADE



Length	Width	Teeth per Inch	Thickness	M2 HSS Model No.	Alloy Steel Model No.
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	402-8625
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

LOCKING STEEL TAPE



Range	Tape Width	Series 58 Model No.	Series 56 Model No.	Series 78 Model No.	Series 53 Model No.
2m/6Feet	12.5mm	810-0006	810-0101	810-0121	810-0141
3m/ 10Feet	12.5mm	810-0010	810-0102	810-0122	810-0142
3m/10Feet	16mm	810-0011			
3m/10Feet	19mm	810-0012	810-0103	810-0123	810-0143
3.5m/12Feet	12.5mm	810-0013	810-0104	810-0124	810-0144
3.5m/12Feet	16mm	810-0014			
3.5m/12Feet	19mm	810-0015	810-0105	810-0125	810-0145
5m/16Feet	16mm	810-0016	810-0106		810-0146
5m/16Feet	19mm	810-0017	810-0107	810-0126	810-0147
5m/16Feet	25mm	810-0018	810-0109	810-0127	810-0148
5.5m/18Feet	19mm	810-0019		810-0128	
5.5m/18Feet	25mm	810-0020	810-0110	810-0129	810-0149
7.5m/25Feet	19mm	810-0021	810-0111		810-0150
7.5m/25Feet	25mm	810-0022	810-0112	810-0130	810-0151

METRIC TAPE MEASURE



Range	Tape Width	Series 73 Model No.	Series 99 Model No.	Series 82 Model No.
2m	12.5mm	810-0201		
2m	16mm	810-0202	810-0302	810-0402
3m	12.5mm	810-0203		
3m	16mm	810-0204	810-0304	810-0404
3.5m	12.5mm	810-0205		
3.5m	16mm	810-0206		810-0406
5m	16mm	810-0207		810-0407
5m	19mm	810-0208	810-0308	810-0408
5m	25mm	810-0209	810-0309	
7.5m	25mm	810-0210	810-0310	810-0410
10m	25mm		810-0311	



STEEL LONG TAPE

Range	Tape Width	Series 73 Model No.
15m	13mm	810-0501
20m	13mm	810-0502
30m	13mm	810-0503
50m	13mm	810-0504

ELECTRONIC TAPES

Feature:

- Width of tape: 19mm.
- Range: 5m; Resolution: 1mm.
- Accuracy: (0.6+0.2L) mm. (L:m)



Model No. 810-0700

The origin data is 89mm when measuring inside dimensions.

Power ON/OFF	⏻
Hold display data	⏸
Metric/inch conversion	↔
Outside and inside measurement	↔
Zero-set at any position	⏻
Reading direction changed	↔
Battery	CR2032
Auto power off	⏻
Power consumption	≤50 μA

Hand Tools

GRINDING WHEEL DRESSER AND CUTTERS



- Fulfill most general dressing needs where fast dressing is the primary requirement.
- Hunting on type cutters will quickly remove the load from grinding wheels and present a new and face grinding surface.

No.	Size	For (Dia)	Dresser with one cutter Model No.	Replacement Cutters Model No.
#0		UP to 10"	287-6300	287-6350
#1		10" to 16"	287-6301	287-6351
#2		16" to 26"	287-6302	287-6352

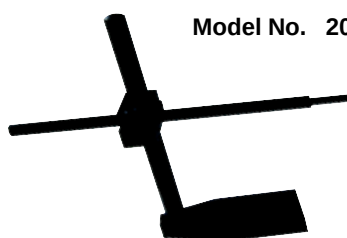
Plastic Holder



#1 10 to 16" wheel face 3"

Model No. 287-6353

ADJUSTABLE UNIVERSAL STOP



Model No. 209-9008

Column: 3/4"x6-1/4"
Base: 3/4"x2x4-1/2"
Rod: 3/8"x10"

- Serves as a rigid stop for milling setups.
- Used with vises, angle plates, jigs, etc.
- Usable as a versatile holder, as well as stop.

ADJUSTABLE TRAMMELS

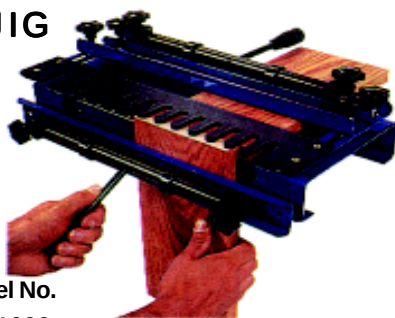
- Adjustable trammels accurately mark distance that are too great or conventional compasses and dividers
- For layouts, marking templates and drawing large circles
- 6" off center eccentric points provide fine adjustment
- points can be replaced with pencils, ballpoint pens, crayons or soapstone sticks for marking various materials
- Clamp onto beam 5/8" to 1/2" thick of any width or length

Model No.
117-0040



ROUTER DOVETAIL JIG

- For making fast and accurate dovetail joints. The two edges being joined are cut at the same time ensuring a perfect fit. Comes with 5/16" eccentric fixing feature. To be used with 7/16" Template follower and a 1/2" dovetail cutter with a 1/4" shank
- Max. Width: 12" thickness: 5/16"-1-1/4"
- Weight: 23lbs

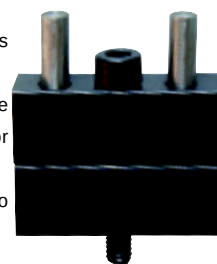


Model No.
117-1000

QUICK CLAMP

- Fits all milling machine vises with 3/8"-3/4" vise jaws.
- Hardened steel body. 1" wide and two steel guide pins for positive clamping.
- Clamps quickly and easily to the top of hard or soft jaws.

Model No. 209-9006



DRILL GAUGE

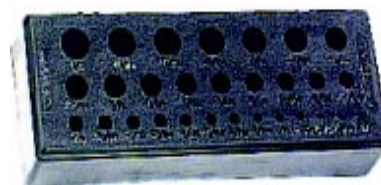


Model No.
608-0020

- Our drill gauge is used to quickly and conveniently identify drill bit sizes
- Made of heavy gauge steel, machined and ground to close tolerances
- Hole sizes and decimal equivalents are permanently etched on the face
- 5" x 2" wide approximately
- Fractional size drills 1/16" to 1/2" by 64ths

DRILL STAND

- Our drill stand works on bench or mounted pegboard or wall, for easy drill bit access
- Made of high strength ABS black plastic
- Indexed for 29 drill from 1/16" to 1/2" by 64ths



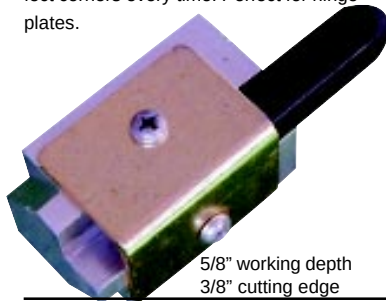
Model No.
608-0010

Hand Tools

CORNER CHISEL

Model No. 830-0000

A slight hammer tap could give you perfect corners every time. Perfect for hinge plates.



5/8" working depth
3/8" cutting edge

2 PIECE 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"

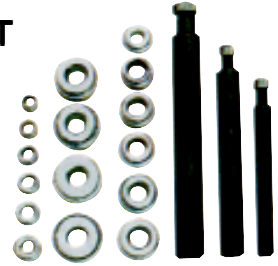


Model No. 318-0005

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

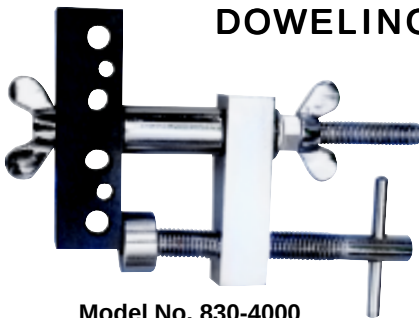
Adapters ranging in size from 7/16" to 1-3/8" O. D. and 3/8" to 1-1/4" L.D. Fitted storage case.



Model No. 209-9020

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.



Model No. 830-4000

PLUG CUTTER 4PCS SET

- 1/4" shank
- 4pc set for use with #6,8,10&12 screw
- Cut perfectly formed wooden plugs to hide counterbored holes made by adjustable screw drills



Model No. 380-0000

KNIFE HONE AND HOLDER

Model No. 318-0006

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



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.

Model No. 830-3000



DRILL STOP SET



Allows drilling to exact depth. Locks into the bit for drill press depth precision.

Model No. 300-0007

7 pcs/set 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2"

Model No. 300-0004

4 pcs/set 5/8", 3/4", 7/8", 1"

KNURLING TOOL

Single head model

- Size of holder: 4"x1/2x1/2
- Size of Knurls: Dia: 3/4", face: 1/4", Hole: 1/4"



Model No. 318-6002

Pivot head model

- Self centering
- Size of holder: 4"x1/2x1/2
- Size of Knurls: Dia: 3/4", face: 1/4", Hole: 1/4"



Model No. 318-6000

Adjustable model

- Size of holder: 4"x1/2x1/2
- The knurler has a capacity of 0 to 2" diameter
- Include 3 pairs knurling wheels: 0.8mm, 1.2mm, 1.8mm

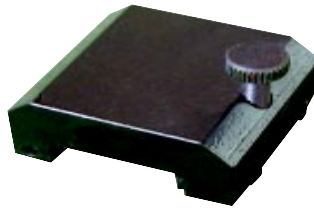


Model No. 318-6001

Hand Tools

WISE WORK STOP

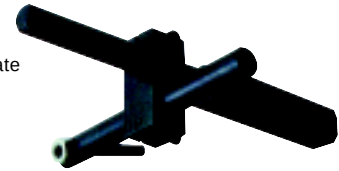
- To fit angle lock type vises.
- Single thumbscrew tightens clamp to vise jaw.
- Two ground-pins on both sides of clamp.
- Easily mounts to the top of most vise jaws.
- 1 pc.clamping screw.
- 7/8" capacity.



Model No. 209-9007

MILLING VISE WORK STOP

Permits fast completely accurate positioning or repetitive work.



Model No. 209-9013 FOR 3",4" VISE

Model No. 209-9010 FOR 6" VISE

QUILL STOP

Set Model No. 209-9003
For Bridge Port Type Mills
FEATURES:

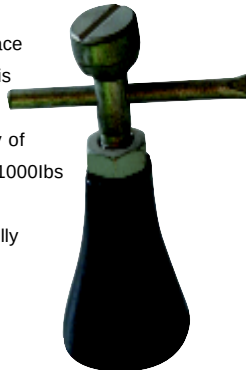


- Quick action clip.
- Clips on quill easily for rapid depth setting.
- Top or bottom positioning.
- 0.020" fine adjustable.
- Easily installed, quickly moved.

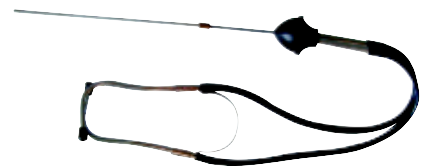
MACHINIST JACK

Model No. 827-9360

- For use any place where leveling is necessary.
- Lifting capacity of approximately 1000lbs
- 1" adjustment.
- 4" high when fully extended.



MECHANICS'SONARSCOPE



Model No. 606-0250

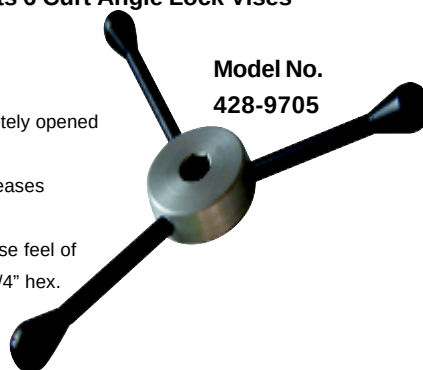
- Effective whenever trouble can be traced by sound.
- Can easily locate and isolate trouble in engines, motors and other moving parts.

SPEED HANDLE

For Machine Visers. Fits 6 Curt Angle Lock Visers

FEATURES:

- Visers can be completely opened in a few seconds.
- Saves time and increases production.
- Tassures more precise feel of clamping pressure 3/4" hex.



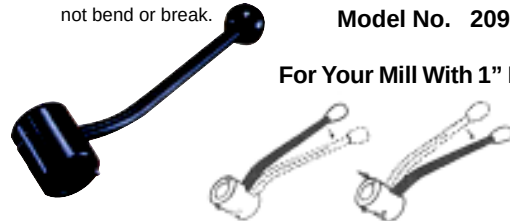
Model No. 428-9705

QUICK INDEXING QUILL FEED HANDLE

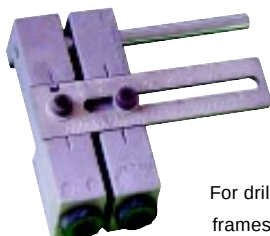
Eliminates removing quill fees resetting or repositioning.Quick flick of the wrist retracts index plate pin of quill allowing you to move the handle into any position. Spring loaded pin activates quill feed. Speeds up all opearations. Heavy duty, will not bend or break.

Model No. 209-9002

For Your Mill With 1" Die.Hub.



DRILL GUIDE

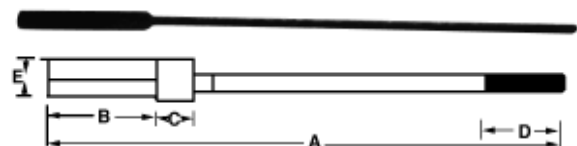


Model No. 830-2020

For drilling perfect pocket holes in face frames quickly and easily.

DRAW BAR

Fits All Mill(Check Specs Below)



A	B	C	D	E	Model No.
23-1/2"	4-1/2"	0.99"	1-3/4"	3/4"	209-9015
21-1/8"	1-3/4"	0.99"	2"	3/4"	209-9016
24-3/16"	6-5/16"	5/16"	1"	3/4"	209-9017