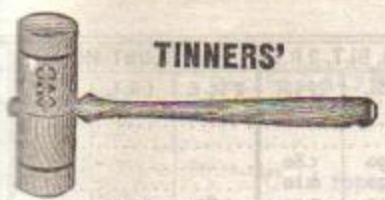


MALLETS

TINNERS'



Cruso, thoroughly seasoned second growth hickory, selected stock, shellac finish, hardwood handle securely fitted extending through head.

No.	60	61
Size, in.	6x2 1/2	6x2 1/2
Wt, doz., lbs.	11	14
Per dozen	\$6.80	7.40

ONE IN A PAPER SACK
Cruso, seasoned second growth hickory, standard stock. Parafine oil finish, securely fitted with hardwood handle extending through head.

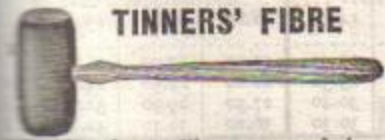
No.	70	71
Size, in.	6x2 1/2	6x2 1/2
Wt, doz., lbs.	10	13
Per dozen	\$5.40	6.20

LOOSE



No. 20—Cruso, hardwood, 5x2 to 2 1/2 in., w't per doz. 10 lbs, doz. \$2.70
LOOSE

TINNERS' FIBRE



Cruso, best fibre, wound in successive layers with film of waterproof cement between. Handle polished white hickory and mallets have coat of shellac.

No.	102	103	104
Size, in.	2x4	2 1/2 x 4 1/2	2 1/2 x 5 1/2
Wt, doz., lbs.	6	12	17
Per dozen	\$11.30	12.30	15.40

LOOSE

CARPENTERS'



Cruso, thoroughly seasoned second growth hickory selected stock, shellac finish, extending through head.

No.	62	63
Size, in.	6x2 1/2	6 1/2 x 3
Wt, doz., lbs.	3	3 1/2
Per dozen	\$11.20	12.50

ONE IN A PAPER SACK
Cruso, seasoned second growth hickory, standard stock. Parafine oil finish, securely fitted with hardwood handle extending through head.

No.	72	73
Size, in.	6x2 1/2	6x3
Wt, doz., lbs.	3	3 1/2
Per dozen	\$7.80	8.50

LOOSE

CARPENTERS' ROUND



Hardwood.

No. 25—Cruso, 6x2 1/2 to 2 1/2 in., w't per doz. 14 lbs.per dozen \$3.60
No. 25 1/2—6x3 in., w't per doz. 15 lbs., per dozen\$4.40
LOOSE



Hardwood.

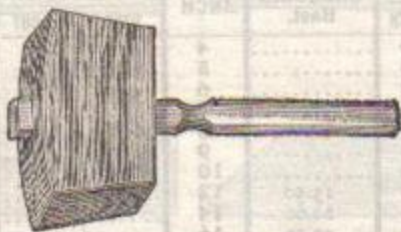
No. 30—6x3 1/2 in., w't per doz. 18 lbs., per dozen\$10.00

Lignumvitae.

No.	35	36
Size, in.	5 1/2 x 3 1/2	6 x 3 1/2
W't, doz., lbs.	28	44
Per dozen	\$19.80	24.00

LOOSE

CARPENTERS' SQUARE



No. 40—Hickory, 6 1/2 x 2 1/2 x 3 1/2 in., w't per doz. 21 lbs. ...per dozen \$13.50

Lignumvitae.

No.	45	46
Size, in.	6x2 1/2 x 3 1/2	6 1/2 x 3 1/2 x 3 1/2
W't, doz., lbs.	32	40
Per dozen	\$22.80	28.90

LOOSE

HARD RUBBER



Hard Rubber Head, Hickory Handle.

No.	6	7	8
Size, in.	3x2	4x2 1/2	5x2 1/2
W't, doz., lbs.	12 1/2	15	29
Per dozen	\$12.00	16.00	23.00

LOOSE

RAWHIDE



Rawhide head, nicely varnished hickory handle.

Nos.	2	3	4	5
Size, in.	3x1 1/2	3 1/2 x 1 1/2	3 1/2 x 2	4 1/2 x 2 1/2
W't, doz., lbs.	4	5 1/2	7 1/2	16
Per dozen	\$18.00	20.80	26.40	58.40

LOOSE

FIBRE HEAD



Beech, fibre head, polished steel ferrules screw handle.

Nos.	12	12 1/2
Size, in.	4 1/2 x 2	5 1/2 x 2 1/2
W't, doz., lbs.	15	21
Per dozen	\$30.00	33.80

LOOSE

IRON RING



No. 50—Wood faced, mortised, 4 1/2 x 2 in. w't per doz. 31 lbs., per dozen\$24.40
LOOSE

IRON SOCKET



No. 51—Heavy malleable iron socket, hickory ends, 5 1/2 x 2 1/2 in., w't per doz. 44 lbs.per dozen \$41.00
LOOSE

IRON BOUND



Hickory.
No. 52—Size 5 1/2 x 3 in., w't per doz. 23 lbs.per dozen \$33.00
LOOSE

PRICE LIST OF FILES AND RASPS

LIST OF NOV. 1, 1899

As Adopted by the File Manufacturers Association of the United States, Nov. 1, 1899.

PRICE PER DOZEN

(REVISED AND REPRINTED AUGUST 1, 1918.)

INCH	MILL			MILL 1 R. E.		MILL 2 R. E.		INCH	MILL BLUNT		MILL BLT. 1 R. E.		MILL BLT. 2 R. E.		MILL BLUNT HEAVY		
	BAST.	2d CUT	SMOOTH	BAST.	2d CUT	BAST.	2d CUT		BAST.	2d CUT	BAST.	2d CUT	BAST.	2d CUT	2 S. E.	1 R. E.	2 R. E.
4	3.00							4									
5	3.20							5									
6	3.50	4.00	4.50	3.90	4.50	4.40	5.00	6	3.90	4.60	4.40	5.20	4.90	5.80			
7	3.90	4.60	4.90	4.40	5.20	4.90	5.80	7	4.30	4.90	4.80	5.50	5.40	6.10			
8	4.30	4.90	5.40	4.80	5.50	5.40	6.10	8	4.90	5.80	5.50	6.50	6.10	7.30	5.80	6.50	7.30
9	4.90	5.80	6.30	5.50	6.50	6.10	7.30	9	5.60	6.40	6.30	7.20	7.00	8.00	6.40	7.20	8.00
10	5.60	6.40	7.00	6.30	7.20	7.00	8.00	10	6.70	7.80	7.50	8.80	8.40	9.80	7.80	8.80	9.80
12	7.50	8.60	9.40	8.40	9.70	9.40	10.80	12	9.40	10.70	10.60	12.00	11.80	13.40			
14	10.70	12.20	13.10	12.00	13.70	13.40	15.30	14									
16	14.70	16.80	17.90					16									
18	20.20							18									

INCH	TAPERS		HANDSAW BLUNT	SLIM TAPER	EXTRA SLIM TAPER	TAPER HEAVY	BANDSAW		INCH	BANDSAW BLUNT SLIM	BANDSAW TAPER HEAVY	HANDSAW HEAVY BLUNT	DOUBLE ENDER	PIT SAW	CANT SAW	CROSS CUT	HOOK TOOTH
	Sgl. Cut	Dbl. Cut					TAPER	BLUNT									
3	2.10	2.50		2.10		2.10			3								
3½	2.10	2.50		2.10		2.10			3½								
4	2.20	2.90	2.60	2.20	2.20	2.20	2.90	2.90	4			2.60		4.80			
4½	2.40	3.10	3.00	2.30	2.30	2.40	3.10	3.10	4½			3.00		5.40			
5	2.60	3.50	3.40	2.50		2.60	3.50	3.50	5			3.40		5.40			
5½	3.00			2.90		3.00			5½			4.00		6.10			
6	3.40	4.70	4.30	3.10	3.10	3.40	4.70	4.70	6	3.90	4.70			6.10	5.40		
7	4.30	5.60	5.40	3.80	3.80	4.30	5.60	5.60	7		5.60		3.50				
8	5.40	6.70	6.60	4.50	4.50	5.40	6.70	6.70	8	5.30	6.70			3.90	7.50	6.40	7.50
9									9					4.40			
10	8.10			6.40		8.10			10					4.70	8.70	9.10	10.10
12	12.50			9.50					12								

INCH	FLAT			HAND			INCH	PILLAR			SQUARE			THREE SQUARE		
	BAST.	2d CUT	SMOOTH	BAST.	2d CUT	SMOOTH		BAST.	2d CUT	SMOOTH	BAST.	2d CUT	SMOOTH	BAST.	2d CUT	SMOOTH
4	3.70	4.30	4.70	3.70	4.30	4.80	4				3.80	4.60	4.90	4.80	5.60	6.10
5	3.90	4.66	4.90	3.90	4.70	5.30	5				4.10	4.80	5.30	5.40	6.10	6.40
6	4.30	4.80	5.30	4.30	5.10	5.60	6	4.30	5.10	5.60	4.60	5.10	5.50	6.10	6.70	7.10
7	4.80	5.50	6.10	4.90	5.80	6.30	7				5.10	5.80	6.30	7.00	7.70	8.20
8	5.30	6.10	6.60	5.40	6.30	6.70	8	5.40	6.30	6.70	5.50	6.30	7.00	7.50	8.30	8.90
9	6.30	7.20	7.90	6.70	7.80	8.30	9									
10	7.00	8.10	8.70	7.50	8.70	9.40	10	7.50	8.70	9.40	7.40	8.50	9.10	9.10	10.10	10.70
11	8.60						11									
12	9.70	11.00	12.10	10.70	12.30	13.50	12	10.70	12.30	13.50	10.20	11.50	12.80	11.80	13.00	13.90
13	11.80						13									
14	13.30	15.30	16.70	15.00	17.00	18.20	14	15.00	17.00	18.20	13.90	16.10	17.50	15.50	17.00	18.30
16	17.80	20.10	22.30	20.10	22.80	24.20	16	20.10	22.80	24.20	18.70	21.20	23.30	20.60	22.50	24.20
18	23.90	26.80	29.20	26.80	29.90	31.50	18				25.10	28.20	30.40	27.50	29.90	32.00
20	31.50	35.70	38.70	35.10	39.20	41.60	20				32.80	36.70	39.30	36.20	39.40	42.70

INCH	HALF ROUND			ROUND			CROSSING BAST.	INCH	WARDING			KNIFE			PLANER KNIFE
	BAST.	2d CUT	SMOOTH	BAST.	2d CUT	SMOOTH			BAST.	2d CUT	SMOOTH	BAST.	2d CUT	SMOOTH	
4	4.80	5.60	6.10	3.00	3.50	3.90		4	4.00	4.80	5.40	5.40	6.10	6.40	
5	5.40	6.10	6.40	3.20	3.80	4.10		5	4.50	5.30	5.80	6.10	6.70	7.10	
6	6.10	6.70	7.10	3.50	4.00	4.50		6	4.90	5.90	6.40	6.90	7.50	7.90	
7	7.00	7.70	8.20	3.90	4.60	4.90		7							
8	7.50	8.30	8.90	4.30	4.90	5.40		8	6.40	7.50	8.20	8.50	9.10	9.50	6.40
9				4.90	5.80	6.30		9							
10	9.10	10.10	10.70	5.60	6.40	7.00		10	8.70	10.10	11.00	10.10	11.50	12.30	8.60
12	11.80	13.00	13.90	7.50	8.60	9.40	15.50	12				13.70	15.20	16.10	
14	15.50	17.00	18.30	10.70	12.20	13.10	20.60	14							
16	20.60	22.50	24.20	14.70	16.80	17.90	27.50	16							
18	27.50	29.90	32.00	20.20	22.70	24.30		18							
20	36.20	39.40	42.30	27.40	30.70	32.90		20							

INCH	FLAT WOOD RASPS			HALF ROUND WOOD RASPS			INCH	CABINET RASPS			CABINET FILES		SHOE RASPS	
	BAST.	2d CUT	SMOOTH	BAST.	2d CUT	SMOOTH		2d CUT	SMOOTH	BAST.	2d CUT	FLAT	HF. RD.	
6				8.10	9.30	10.10	6	10.10	11.70		8.10			
8				10.10	12.20	13.70	8	12.80	15.50		10.10	10.10	10.10	
9	9.40	11.40					9					12.20	12.20	
10				13.70	16.80	18.70	10	17.50	20.70		13.70		13.70	
12				18.70	22.40	24.80	12	22.80	26.80		18.70			
14				24.80	29.70	32.90	14	29.60	33.90		24.80			
16				32.90	38.90	41.60	16							

INCH	HORSE RASPS PLAIN			HORSE RASPS PLAIN SLIM			INCH	HORSE RASPS			
	½ FILE	¼ FILE	REVERSE	½ File	¼ File	TANGED		TANGED SLIM	TANGED THIN		
12	12.80	14.40					12	16.80		1.531" x .270"	16.00
13							13	19.60		1.594" x .275"	18.20
14	17.80	20.10	17.80				14	23.10	14" from 12"	1.750" x .280"	21.90
15			20.90				15				
16	24.40	27.50	24.40	16" from 14"	21.50	24.60	16	32.20	16" from 14"	1.875" x .290"	29.70
18	32.90	36.20		18" from 15"	25.90	28.50	18				

THE ABOVE LIST COMPRISES ALL OF THE KINDS, SIZES AND CUTS OF FILES THAT WILL BE REGULARLY CARRIED IN STOCK. ANYTHING DIFFERING FROM THESE FILES WILL BE CONSIDERED AS SPECIAL AND WILL NOT BE MANUFACTURED EXCEPT IN CASE OF URGENT NECESSITY AND WHEN MANUFACTURED PRICE WILL BE BASED STRICTLY UPON COST OF MATERIAL AND COST OF MANUFACTURE AT TIME GOODS ARE MADE.

SECTIONS OF FILES IN GENERAL USE

Cuts represent practically the full size of the various shapes and length.

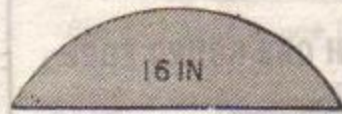
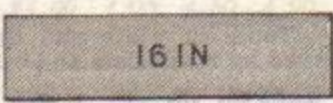
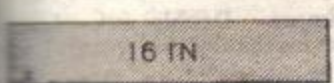
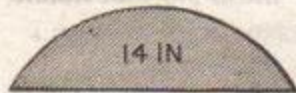
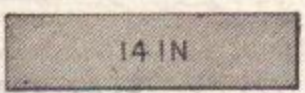
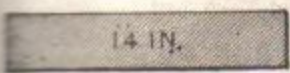
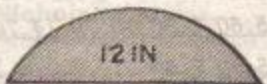
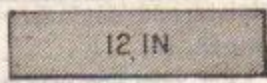
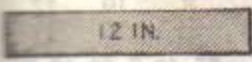
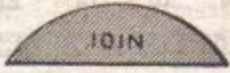
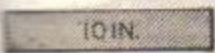
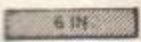
Mill Bastards.

Flat Bastards.

Half Round.

Round.

Square.

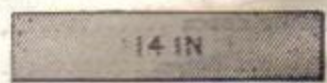
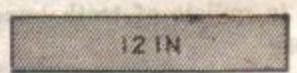


Regular Taper.

Great American.

Cant Saw or Lightning.

Horse Rasps.



MILL BASTARD FILES



Taper in width and thickness from near center to point. Single cut. Principally used for sharpening mill saws, machine knives, etc., also in machine shops for lathe work, draw-filing, etc.

Length, in.	3	4	5	6	7	8
W't per doz., lbs.	1 1/2	1 1/2	2	1 1/2	2 1/2	3
Price, per dozen	\$3.00	3.00	3.20	3.50	3.90	4.30
Hibbard, per dozen	3.00	3.20	3.50	3.90	4.30	
Nicholson's, per dozen ..	3.00	3.00	3.20	3.50	3.90	4.30
American, per dozen	3.00	3.20	3.50	3.90	4.30	
Black Diamond, per dozen ..			3.50		4.30	

Length, in.	9	10	12	14	16
W't per doz., lbs.	3 1/2	6	10	14	21
Price, per dozen	\$4.90	5.60	7.50	10.70	14.70
Hibbard, per dozen	5.60	7.50	10.70	14.70	
Nicholson's, per dozen	4.90	5.60	7.50	10.70	14.70
American, per dozen	4.90	5.60	7.50	10.70	14.70
Black Diamond, per dozen	5.60	7.50			

NOTE 3 TO 7 IN., NICHOLSON'S AND NEW AMERICAN 3 TO 10 IN., ONE DOZEN IN A BOX—OTHERS HALF DOZEN IN A BOX

MILL BASTARD FILES, WITH ONE ROUND EDGE



Similar to MILL FILE but with one edge made round. Single cut. The round edge prevents the filing of sharp corners in gullets of teeth lessening the liability of saws cracking.

Length, in.	8	10	12
W't per doz., lbs.	3	6	10
Price, per dozen	\$4.80	6.30	8.40
Hibbard, per dozen	4.80	6.30	8.40
Nicholson's, per dozen	4.80	6.30	8.40

NOTE HALF DOZEN, NICHOLSON'S 8 TO 10 IN., ONE DOZEN—12 IN. HALF DOZEN IN A BOX

Weights on files are for **NOTE**, Weights on other files are approximately the same.

FLAT BASTARD FILES



Same as Flat Second Cut below except coarser teeth.

Length, in.	4	5	6	8	10	12	14	16
W't doz., lbs.	1 1/2	1 1/2	1 1/2	4	6 1/2	13	20	28

Price, per doz. ..	\$3.70	3.90	4.30	5.30	7.00	9.70	13.30	17.50
Hibbard, per doz. ..			4.30	5.30	7.00	9.70	13.30	17.50
Nicholson, per doz. ..	\$3.70	3.90	4.30	5.30	7.00	9.70	13.30	17.50
American, per doz. ..	\$3.70	3.90	4.30	5.30	7.00	9.70	13.30	17.50

4 TO 8 IN. ONE DOZEN, OTHERS HALF DOZEN IN A BOX

HAND BASTARD FILES



Made tapering in thickness and parallel in width. Double cut, with one edge safe (no teeth). Used by machinists and engineers for finishing flat surfaces, etc.

Length, in.	8	10	12	14
W't per doz., lbs.	5 1/2	10	17	24
Price, per dozen	\$5.40	7.50	10.70	15.00

8 IN. ONE DOZEN, OTHERS HALF DOZEN IN A BOX

FLAT SECOND CUT FILES



Taper in width and thickness. Double cut. Largely used by machinists and other mechanics for general work.

Length, in.	6	8	10	12	14	16
W't doz., lbs.	3 1/2	4	8	12	20	29
Price, per dozen ..	\$4.80	6.10	8.10	11.00	15.30	20.10
Nicholson's, per dozen			6.10	8.10	11.00	15.30

6 TO 10 IN. ONE DOZEN, OTHERS HALF DOZEN IN A BOX

HAND SMOOTH FILES



Same as Hand Bastard above except finer cut.

Length, in.	8	10	12	14
W't per dozen, lbs.	5	9	14	22
Price, per dozen	\$6.70	9.40	13.50	18.20

8 IN. ONE DOZEN, OTHERS HALF DOZEN IN A BOX

FLAT SMOOTH FILES



Same as Flat Second Cut on page 87 except finer cut.
 Length, in. 5 6 8 10 12 14
 W't doz., lbs. 1 2 4 7½ 12 20
ROSE, per dozen ... \$4.90 5.30 6.60 8.70 12.10 16.70
 Nicholson's, doz... 4.90 5.30 6.60 8.70 12.10 16.70
 American, dozen... 5.30 6.60 8.70 12.10 16.70
 4 TO 8 IN. ONE DOZEN, OTHERS HALF DOZEN IN A BOX

HALF ROUND BASTARD FILES



Taper to the point from about two-thirds of its length. The shape makes it one of the most useful files for machine shop work.
 Length, in. 4 5 6 8 10 12 14 16
 W't doz., lbs. 1 1½ 1¾ 3¾ 6½ 11 19 27
ROSE, per doz. \$4.80 5.40 6.10 7.50 9.10 11.80 15.50 20.60
 Nicholson's, per doz. 4.80 5.40 6.10 7.50 9.10 11.80 15.50 20.60
 American, per doz. 5.40 6.10 7.50 9.10 11.80 15.50 20.60
 4 TO 8 IN. ONE DOZEN, OTHERS HALF DOZEN IN A BOX

WARDING BASTARD FILES



A very thin file tapering toward and on the point. Double cut. Used for slotting work by jewelers, machinists, and by locksmiths for filing slots or ward notches in keys.
 Length, in. 3 4 5 6
 W't per doz., lbs. — **ROSE** ½ ¾ 1 1
ROSE, per dozen \$4.00 4.00 4.50 4.90
 Nicholson's, per dozen 4.00 4.50 4.90
 American, per dozen 4.00 4.50 4.90
 ONE DOZEN IN A BOX

KNIFE BASTARD FILES



Shaped V style similar to knife blade. Double cut. Used on special forms for which its shape is particularly adapted, die work, etc., having acute angles.
 Length, in. 4 5 6
 W't per doz., lbs. — **ROSE** ½ 1 1½
ROSE, per dozen \$5.40 6.10 6.90
 Nicholson's, per dozen 5.40 6.10 6.90
 American, per dozen 5.40 6.10 6.90
 ONE DOZEN IN A BOX

ONE DOZEN IN A BOX

Weights on files are for **ROSE**. Weights on other files are approximately the same.

ROUND BASTARD FILES



Taper short distance toward and on the point. Double cut. Sometimes called Rat Tail Files. Used in general for gulleting, enlarging holes, etc.

Length, in. 4 5 6 8 10 12 14 16
 Dia., widest part ¾ 1 1¼ 1½ 2 3 4 5
 W't doz., lbs. ½ ¾ 1 2 3½ 8 14 23
ROSE, doz. \$3.00 3.20 3.50 4.30 5.60 7.50 10.70 14.70
 Hibbard, dz. 3.00 3.20 3.50 4.30 5.60 7.50
 Nicholson's, per doz... \$3.00 3.20 3.50 4.30 5.60 7.50 10.70 14.70
 American, per doz... 3.00 3.20 3.50 4.30 5.60 7.50 10.70 14.70
 4 TO 10 IN. ONE DOZEN, OTHERS HALF DOZEN IN A BOX

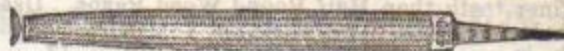
SQUARE BASTARD FILES



Taper short distance toward and on the point. Double cut. Used by most all classes of mechanics for filing apertures dressing out square corners etc.

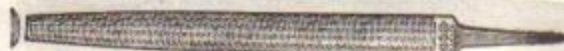
Length, in. 4 5 6 8
 W't doz., lbs. — **ROSE** ½ 1 1 2
ROSE, per dozen \$3.80 4.10 4.60 5.50
 Nicholson's, doz. 3.80 4.10 4.60 5.50
 American, per dozen 3.80 4.10 4.60 5.50
 Length, in. 10 12 14 16
 W't doz., lbs. — **ROSE** 4 9 16 28
ROSE, per dozen \$7.40 10.20 13.90 18.70
 Nicholson's, doz. 7.40 10.20 13.90 18.70
 American, per dozen 7.40 10.20 13.90 18.70
 4 TO 10 IN. ONE DOZEN, OTHERS HALF DOZEN IN A BOX

HALF ROUND SECOND CUT FILES



Same as Half Round Bastard except teeth are finer.
 Length, in. 6 8 10 12 14
 W't per doz., lbs. — **ROSE** 1½ 3 7 11 18
ROSE, per dozen \$6.70 8.30 10.10 13.00 17.00
 Nicholson's, per dozen .. 6.70 8.30 10.10 13.00
 6 TO 10 IN. ONE DOZEN, OTHERS HALF DOZEN IN A BOX

HALF ROUND SMOOTH FILES



Same as Half Round Bastard except teeth are finer.
 Length, in. 5 8 10
 W't doz., lbs. — **ROSE** 1½ 3½ 7
ROSE, per dozen \$7.10 8.90 10.70
 Nicholson's, per dozen 7.10 8.90 10.70
 Length, in. 12 14 16
 W't doz., lbs. — **ROSE** 12 18 25
ROSE, per dozen \$13.90 18.30 24.20
 Nicholson's, per dozen 13.90 18.30
 4 TO 8 IN. ONE DOZEN, OTHERS HALF DOZEN IN A BOX

HALF ROUND CABINET FILES



These are Half Round in shape, but slightly wider and thinner and have finer teeth than Half Round Wood Files. Double cut. Used for finer work in Cabinet making and Woodworking.

Length, in.	8	10	12	14
W't per doz., lbs.—	3	6	9	15
per dozen	\$10.10	13.70	18.70	24.80
Nicholson's, per dozen	10.10	13.70	18.70	24.80
American, per dozen	10.10	13.70	18.70	24.80

8 IN., ONE DOZEN, OTHERS HALF DOZEN IN A BOX

HALF ROUND SHEAR TOOTH OR BABBIT FILES



Similar in shape to the regular Half Round Files, with teeth special. Single cut, being much coarser and deeper than ordinary. Adapted for quick cutting on soft steel, iron, brass castings, wood, marble, and especially for machinists. Makes a "shear cut", rapid, clean and smooth.

Length, in.	12	14
W't per doz., lbs.	11	16
Per dozen	\$11.80	15.50

HALF DOZEN IN A BOX

HALF ROUND CABINET RASPS



Half Round in form, slightly wider and thinner and given finer teeth than Half Round Wood Rasps. Used by Cabinet Makers and Woodworkers.

Length, in.	8	10	12	14
W't per doz., lbs.—	3	7	11	16
per dozen	\$12.80	17.50	22.80	29.60
Hibbard, per dozen	12.80	17.50	22.80	29.60
Nicholson's, per dozen	12.80	17.50	22.80	29.60
American, per dozen	12.80	17.50	22.80	29.60

8 IN., ONE DOZEN, OTHERS HALF DOZEN IN A BOX

HALF ROUND WOOD RASPS



The form of this Rasp, half round one side, flat on the other, permits its use on a great variety of work. Employed by Wheelwrights, Carriage Builders, Plumbers, Cabinet, Saddle-Tree, Patterns, Last Makers, Gunstock Makers and Woodworkers generally.

Length, in.	8	10	12	14
W't per doz., lbs.—	3 1/2	7	12	18
per dozen	\$10.10	13.70	18.70	24.80
Hibbard, per dozen	10.10	13.70	18.70	24.80
Nicholson's, per dozen	10.10	13.70	18.70	24.80
American, per dozen	10.10	13.70	18.70	24.80

HALF DOZEN IN A BOX

Weights on files are for . Weights on other files are approximately the same.

FLAT WOOD RASPS



Flat on both sides. Used by the same classes of trades as Half Round.

Length, in.	10	12	14
W't per doz., lbs.—	8	14	23
per dozen	\$12.80	17.50	23.80
American, per dozen	12.80	17.50	23.80

HALF DOZEN IN A BOX

HALF ROUND SHOE RASPS



Made with punched teeth on half of one side. Double cut teeth on other half. Cut on ends. Used by Shoemakers for filing the soles and heels of shoes.

Length, in.	6	8	10
W't per doz., lbs.—	2	4	8
per dozen	\$8.10	10.10	13.70
American, per dozen	8.10	10.10	13.70

6 IN. AND 8 IN., ONE DOZEN; 10 IN., HALF DOZEN IN A BOX

TANGED HORSE RASPS



Tanged for use with handle. Used by Horse-shoers, Farriers, Blacksmiths, etc.

Length, in.	14	16
W't per doz., lbs.	28	38
per dozen	\$23.10	32.80

PLAIN HORSE RASPS



Used by Horse-shoers etc.

Length, in.	12	14	16
W't per doz., lbs.—	15	19	29
per dozen	\$12.80	17.80	24.80
REVSON, per dozen	12.80	17.80	24.80
REVSON, narrow, length 18 in., w't per doz. 30 lbs., per dozen			\$25.00
REVSON, narrow, length 18 in., w't per doz. 30 lbs., per dozen			\$25.00



Used by Horse-shoers etc.

Length, in.	12	14	16
W't per doz., plain	15	19	29
W't per doz., tanged		28	38
Heller Bros., plain, per dozen	\$12.80	17.80	24.80
Heller Bros., tanged, per dozen	23.10	32.80	
Heller Bros., slim or narrow, length 18 in., w't per doz. 30 lbs.			per dozen \$25.00

ALL HORSE RASPS HALF DOZEN IN A BOX

SLIM TAPER SAW FILES



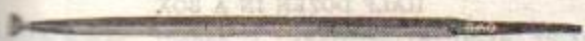
Similar to Regular Taper Saw Files but of a thickness between the Regular and Extra Slim Tapers. Used for filing Hand Saws and other small saws.

Length, in.	3	3½	4	4½	5
W't per doz., lbs.—	½	¾	1	1¼	1½
Hibbard, per dozen	\$2.10	2.10	2.20	2.30	2.50
Nicholson's, per dozen	2.10	2.10	2.20	2.30	2.50
American, per dozen	2.10	2.10	2.20	2.30	2.50

Length, in.	5½	6	7	8	10
W't per doz., lbs.—	1	1½	2	3	6
Hibbard, per dozen	\$2.90	3.10	3.80	4.50	6.40
Nicholson's, per dozen	2.90	3.10	3.80	4.50	6.40
American, per dozen	2.90	3.10	3.80	4.50	6.40

ONE DOZEN IN A BOX

EXTRA SLIM TAPER SAW FILES



Similar to Slim Tapers but of narrower stock. Adapted for filing very fine tooth saws.

Length, in.	4	4½	5
W't per doz., lbs.—	½	¾	1
Hibbard, per dozen	\$2.20	2.30	2.50
Nicholson's, per dozen	2.20	2.30	2.50

Length, in.	5½	6	7	8
W't per doz., lbs.—	¾	1	1½	2
Hibbard, per dozen	\$2.90	3.10	3.80	4.50
Nicholson's, per dozen	2.90	3.10	3.80	4.50

ONE DOZEN IN A BOX

COMMON TAPER SAW FILES



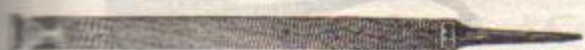
One of the most generally used and best known files made. Single cut. Used principally for filing Hand Saws and other saws.

Length, in.	4	4½	5	5½
W't per doz., lbs.—	¾	1	1½	2
Hibbard, per dozen	\$2.20	2.40	2.60	3.00
Nicholson's, per dozen	2.20	2.40	2.60	3.00
American, per dozen	2.20	2.40	2.60	3.00

Length, in.	6	7	8	10	12
W't per doz., lbs.—	2½	3	4½	8	14
Hibbard, per dozen	\$3.40	4.30	5.40	8.10	12.50
Nicholson's, per dozen	3.40	4.30	5.40	8.10	12.50
American, per dozen	3.40	4.30	5.40	8.10	.....

ONE DOZEN IN A BOX

PIT SAW FILES



A narrow, high back, half-round shaped file. Single cut. Specially for filing the round gullets and teeth in Pit and Round saws, or similar work.

Length, in.	6	8
W't per doz., lbs.—	2	4
Hibbard, per dozen	\$6.10	7.50

ONE DOZEN IN A BOX

Weights on files are for . Weights on other files are approximately the same.

DOUBLE ENDER SAW FILES



These are also termed Reversible Tapers, being practically two files in one. Single cut. Used for the same purpose as Taper Saw Files, filing Hand Saws and smaller saws.

With Handle.

Length, in.	7	8	9	10
W't per doz., lbs.—	1½	2	2½	3½
Hibbard, per dozen	\$3.50	3.90	4.40	4.90
Nicholson's, per dozen	3.50	3.90	4.40	4.90
American, per dozen	3.50	3.90	4.40	4.90

NEW AMERICAN, ONE DOZEN; OTHERS, HALF DOZEN IN A BOX

SLIM BLUNT FILES



A narrow, triangular shaped file, parallel in width, allows greater sweep or stroke. Single cut. Used for filing the firmer or smaller toothed saws.

One Handle Supplied with Every Three Files.

Length, in.	4½	5	5½	6	7
W't per doz., lbs.	½	¾	1	1½	1½
Weed's Special, per dozen	\$2.30	2.50	2.90	3.10	3.80

ONE DOZEN (WITH FOUR HANDLES) IN A BOX

GREAT AMERICAN SAW FILES



This is a particular form of file made expressly for filing the special shaped teeth and gullets in the Great American Cross-Cut Saw. It is single cut.

For Disston's Great American Cross-Cut Saws.

Length, in.	8	10
W't per doz., lbs.—	4	6
Hibbard, per dozen	\$7.50	9.10
American, per dozen	7.50	9.10

ONE DOZEN IN A BOX

NICHOLSON'S BANDSAW BLUNT SLIM FILES



Made especially for filing band saws.

Length, in.	6	8
W't per doz., lbs.	1½	2½
Per dozen	\$3.90	5.30

ONE DOZEN IN A BOX

CANT OR LIGHTNING FILES



A three-sided file, slightly flattened in form, single cut on each side. Specially used for filing the teeth in Wood or Buck Saws and other saws having M shaped teeth.

Length, in.	6	8	10
W't per doz., lbs.—	1½	2½	5
Hibbard, per dozen	\$5.40	6.40	8.70
Nicholson's, per dozen	5.40	6.40	8.70
American, per dozen	5.40	6.40	8.70

ONE DOZEN IN A BOX

CORRUGATING FILES



DISSTON, 8 in. crucible steel, fine cut, carefully tempered. This file is made especially for barber's use.

No. 8—W't per doz. 4½ lbs.per dozen \$5.20
ONE DOZEN IN A BOX

NEEDLE FILES

Small, slender, extremely fine cut files, made in different forms. Used by Jewelers, Watchmakers, Die Sinkers, Tool Makers and for general superfine work.



Flat.



Square.



Three-Square.



Round.



Half-Round.



Knife.

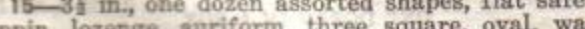
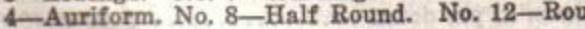
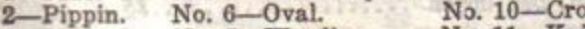


Oval.

Disston's, assorted, 2 each, flat, square, round, half-round and oval, 1 each three-square and knife, length 5½ in. per dozen\$4.70

ONE DOZEN IN A BOX

ASSORTED DIE SINKERS' FILES



No. 1—Flat. No. 5—Three Square. No. 9—Square.
No. 2—Pippin. No. 6—Oval. No. 10—Crochet.
No. 3—Lozenge. No. 7—Warding. No. 11—Knife.
No. 4—Auriform. No. 8—Half Round. No. 12—Round.

No. 15—3½ in., one dozen assorted shapes, flat safe edge, pippin, lozenge, auriform, three square, oval, warding, half round, square, crochet, knife and round—sold in sets onlyper set \$6.30

AUGER BIT FILES

Prices on Application



For Auger Bits of All Sizes.

This file is made especially for the purpose, and will do quick and fine work without the danger of ruining the bit.

No. 1—7 in., double ender, one end having flat file with smooth edges, the other end being smooth with file edge per dozen.....\$4.00

ONE DOZEN ON AN EASEL BACK CARD
WEIGHT ¼ LB. PER DOZEN

FILE CLEANERS



No. 9—Nicholson's, wood back and frame, hardened and tempered steel wire teeth, with scorer, length 10 in., w't per doz. 3½ lbs.per dozen \$13.00

HALF DOZEN IN A BOX



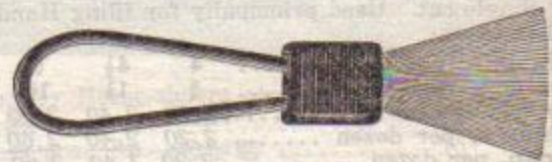
No. 1—Hargrave's, wood back and frame, tempered steel wire teeth, insuring long service, length 8½ in., w't per doz. 2½ lbs.per dozen \$9.00

ONE DOZEN IN A BOX



No. 10 REVNOG—Colton's patent file cleaners, steel back frame and face, hardened and tempered, steel wire teeth with soft steel pick for removing substances deeply imbedded between teeth of files, length 7½ in., w't per doz. 2½ lbs.per dozen \$8.00

ONE DOZEN IN A BOX



This brush is made of round tempered steel wire, iron handle and ferrule, and is non-breakable. This is a handy little brush for the tool kit.

No. 766—Length 5 in., 1½ in. bristles, w't per doz. 2 lbs. per dozen\$1.00

ONE DOZEN IN A BOX



Useful in engine room, factory farm and household. May be used for removing rust if used with a little acid for cleaning brass, iron that needs painting, pots and pans. Indispensable in cleaning harvesting machinery, etc., as it reaches every nook and corner.

No. 05—Pillely Quick, wire handle, 5 in. long steel bristles 1½ in., width 2½ in., length 7½ in. over all, w't per doz. 3 lbs.\$5.00

ONE DOZEN IN A BOX

AUGER BITS

JENNINGS



JENNINGS pattern, extra cast steel, extension lips.

No. 15 **EVB**—Inches 3-16 4-16 5-16 6-16 7-16 8-16
Wt per doz., lbs. 1 1½ 1½ 1½ 2 2½

Per dozen \$8.40 7.00 7.00 7.00 7.00 7.00

No. 15 **EVB**—Inches 9-16 10-16 11-16 12-16 13-16

Wt per doz., lbs. 2½ 3 3½ 4 4½

Per dozen \$8.40 8.40 9.80 9.80 11.50

No. 15 **EVB**—Inches 14-16 15-16 16-16 18-16 20-16

Wt per doz., lbs. 5 5½ 6 6½ 7½

Per dozen \$11.50 13.30 13.30 16.80 19.60

HALF DOZEN IN A WOOD BOX

SETS IN BOXES

No. 15 **EVB**—Sets of 32½ quarters, one each 4-16, 5-16,

6-16, 7-16, 8-16, 9-16, 10-16, 11-16, 12-16, 13-16, 14-16,

15-16 and 16-16 in., w't 3½ lbs. per set \$10.50



IRWIN pattern, solid centers, extra high grade crucible steel, extension lip, double cutter, patent squared shanks.

No. 25 **EVB**—Inches 3-16 4-16 5-16 6-16 7-16 8-16

Wt per doz., lbs. 1 1½ 1½ 1½ 2 2½

Per dozen \$6.40 5.70 5.70 5.70 6.40 7.00

No. 25 **EVB**—Inches ... 9-16 10-16 11-16 12-16 13-16

Wt per doz., lbs. 2½ 3 3½ 4 4½

Per dozen \$7.80 8.50 10.00 10.00 11.40

No. 25 **EVB**—Inches 14-16 15-16 16-16 18-16 20-16 22-16 24-16

Wt per doz., lbs. 5 5½ 6 6½ 7½ 9 10

Per dozen \$11.40 12.80 12.80 15.00 17.00 19.20 22.30

HALF DOZEN IN A BOX

IRWIN



Extra cast steel, solid center stem, double cutter, extension lips patent squared shanks.

No. 62T—In. . 3-16 4-16 5-16 6-16 7-16 8-16 9-16

W't doz., lbs. 1 1 1½ 1½ 2 2 2½

Per dozen .. \$6.40 5.70 5.70 5.70 6.40 7.10 7.80

No. 62T—In. 10-16 11-16 12-16 13-16 14-16 15-16 16-16

W't doz., lbs. . 2½ 3 3½ 3½ 3½ 4 4½

Per dozen .. \$8.50 10.00 10.00 11.40 11.40 12.80 12.80

HALF DOZEN IN A BOX

SETS IN BOXES OR ROLLS

No. 35—12x4½x3¼ in. varnished hardwood box, containing

one set 20½ quarters, one each 4-16, 5-16, 6-16, 7-16, 8-16,

10-16, 12-16, 14-16 and 16-16ths Irwin auger bits, w't

4½ lbs per set \$7.30

No. 32—11½x6½x3 in., handsome hardwood box, containing

one set 32½ quarters, 4-16, 5-16, 6-16, 7-16, 8-16, 9-16,

10-16, 11-16, 12-16, 13-16, 14-16, 15-16 and 16-16ths,

Irwin auger bits, w't 5½ lbs. per set \$10.60



IRWIN pattern solid center, extension lip, single cutter, polished coarse screw for fast boring.

A high grade bit, specially designed for Electricians, Plumbers, boring in hard wood and rough work.

No. 31 **EVB**—

Inches 3-16 4-16 5-16 6-16 7-16 8-16 9-16

W't, doz., lbs. 1 1½ 1½ 1½ 2 2½ 2½

Per dozen \$6.40 5.70 5.70 5.70 6.40 7.10 7.80

No. 31 **EVB**—

Inches ... 10-16 11-16 12-16 13-16 14-16 15-16 16-16

W't, doz. lbs. 3 3½ 4 4½ 5 5½ 6

Per dozen ... \$8.50 10.00 10.00 11.40 11.40 12.80 12.80

HALF DOZEN IN A BOX

SETS IN BOXES

No. 332 **EVB**—Sets of 32½ quarters, one each ¼, ½, ¾,

1, 1½, 2, 2½, 3, 3½, 4, 4½, 5, 5½ and 6,

w't per set 5½ lbs. \$10.60

AUGER BITS

REYNOLDS



IRWIN pattern, extra cast steel, extension lip, double cutter, black japanned finish, polished edges on twist.

No. 26 REYNOLDS—

Inches	3-16	4-16	5-16	6-16	7-16	8-16	9-16
W't doz. lbs.,	1	1½	1½	1½	2	2½	3
Per dozen	\$5.50	4.90	4.90	4.90	5.50	6.10	6.60

No. 26 REYNOLDS—

Inches	10-16	11-16	12-16	13-16	14-16	15-16	16-16
W't doz., lbs.,	3½	3½	4	4½	5	5½	5½
Per doz.	\$7.30	8.50	8.50	9.70	9.70	10.90	10.90

HALF DOZEN IN A BOX

SETS IN BOXES

Oiled hardwood boxes 11x5½x2½ in.

No. 262—One set of 32½ quarters, one each 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 and 16-16, No. 26 bits, w't per set 2½ lbsper set \$9.50

FORD



Extra cast steel, single concaved twist, extension lip.

No. 29—Inches ... 3-16 4-16 5-16 6-16 7-16 8-16

W't per doz., lbs.,	¾	1½	1½	2	2½	2½
Per dozen	\$10.80	9.00	9.00	9.00	9.00	9.00

No. 29—Inches ... 9-16 10-16 11-16 12-16 13-16 14-16

W't per doz., lbs.,	3	3½	4	4½	5	5½
Per. dozen	\$10.80	10.80	12.60	12.60	14.90	14.90

No. 29—Inches ... 15-16 16-16 18-16 20-16 24-16

W't per doz. lbs.,	6½	6½	8	8½	11½
Per dozen	\$17.10	17.10	11.60	25.20	32.40

SETS IN BOXES

No. 29—Sets of 32½ quarters, one each 4-16, 5-16, 6-16, 7-16, 8-16, 9-16, 10-16, 11-16, 12-16, 13-16, 14-16, 15-16 and 16-16ths in., in hardwood boxper set \$13.50
3-16 TO 20-16THS, HALF DOZEN; 24-16THS, THIRD DOZEN IN A BOX

CRUSO JAPANNED AUGER BITS



Cast Steel, Solid Center, Extension Lip, Double Cutter.

No. 062—Cruso,

Inches	3-16	4-16	5-16	6-16	7-16	8-16	9-16
W't, doz., lbs.	1	1½	1½	1½	2	2½	2½
Per dozen	\$4.50	4.00	4.00	4.00	4.50	4.50	5.00

No. 062—Cruso,

Inches	10-16	11-16	12-16	13-16	14-16	15-16	16-16
W't, doz., lbs.	2½	3	3½	4	4½	4½	5½
Per dozen	\$5.60	6.50	6.50	7.80	7.80	8.50	8.50

HALF DOZEN IN A BOX

IN SETS

No. 062—Cruso, sets of 32½ quarters, one each 4-16, 5-16, 6-16, 7-16, 8-16, 9-16, 10-16, 11-16, 12-16, 13-16, 14-16, 15-16 and 16-16 in., w't 5 lbs.per set \$6.50

PUGH AUGER BITS



Hand made from highest grade crucible steel. Bore exact size, double spur, natural finish twist. Used especially in car and railroad shops, and by high class mechanics, but are well adapted for all general purposes. The lasting qualities of these bits are unequaled by any on the market.

No. 72—

Inches	4-16	5-16	6-16	7-16	8-16	9-16	10-16
W't, doz., lbs.	1	1½	1½	1½	2	2½	2½
Per dozen	\$17.60	17.60	17.60	17.60	17.60	19.60	21.90

No. 72—

Inches	11-16	12-16	13-16	14-16	15-16	16-16
W't, doz., lbs.	3½	3½	3½	4	4½	4½
Per dozen	\$24.00	26.30	28.50	30.60	32.80	35.00

HALF DOZEN IN A BOX.

SETS IN BOXES

No. 72—Sets of 32½ quarters, one each 4-16, 5-16, 6-16, 7-16, 8-16, 9-16, 10-16, 11-16, 12-16, 13-16, 14-16, 15-16, 16-16 in., in hardwood box, w't 3½ lbs., per set\$25.80

ONE SET IN A BOX

RUSSELL JENNINGS AUGER BITS



Extra Cast Steel, Extension Lips.

No. 24—

Inches	3-16	4-16	5-16	6-16	7-16	8-16	9-16
W't, doz., lbs.	¾	1½	1½	1½	2	2½	2½
Per dozen	\$11.40	9.50	9.50	9.50	9.50	9.50	11.40

No. 24—

Inches	10-16	11-16	12-16	13-16	14-16	15-16	16-16
W't, doz., lbs.	3	3½	3½	3½	4½	5	5½
Per dozen	\$11.40	13.30	13.30	15.70	15.70	18.00	18.00

3 TO 12-16THS, ONE DOZEN; 13 TO 16-16THS, HALF DOZEN IN A BOX

IN SETS

No. 24—Sets of 32½ quarters, one each 4-16, 5-16, 6-16, 7-16, 8-16, 9-16, 10-16, 11-16, 12-16, 13-16, 14-16, 15-16 and 16-16 in., w't 5 lbs., in hardwood box, per set\$16.00

AUGER BIT SETS



In Bartlett cherry finished wood boxes with compartments for each size bit.

No. 15 EYE—Extra Cast Steel.

- No. 213—11x6x2 in., one set of 32 1/4 quarters, one each 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 and 16-16 in., w't per set, 13 lbs.per set \$13.50
- No. 6—11x5 1/2 x 1 1/2 in., one each 4, 6, 8, 10, 12 and 16-16 in., w't per set 3 lbs.per set \$5.80
- No. 3—11x7x1 1/2 in., one each 4, 5, 6, 8, 10, 12, 14 and 16-16 in., w't per set 3 1/2 lbs.per set \$7.70

EYE AUGER BIT SETS



EYE auger bits are made from extra quality tool steel, they are carefully forged so that the steel may be of uniform density and every precaution is taken to secure strength at the points of strain. The tempering is done by the most accurate, modern method. The lips, spine and throat are filed to such form that they will retain their cutting edges and give the greatest amount of service, patent square shanks that center accurately with center of bit.

No. 20 Irwin Pattern.

- No. 220 **EYE**—Sets or 20 1/4 quarters, one each 4-16, 5-16, 6-16, 7-16, 8-16, 10-16, 12-16, 14-16 and 16-16 in., and one screw driver bit, w't per set 4 1/2 lbs. ...per set \$7.30
- No. 232 **EYE**—Sets of 32 1/4 quarters, one each 4-16, 5-16, 6-16, 7-16, 8-16, 9-16, 10-16, 12-16, 13-16, 14-16, 15-16 and 16-16 in., w't per set 4 1/2 lbs.per set \$10.60

LOOSE

EYE AUGER BIT SETS



Consists of No. 20 **EYE** Bits.

No. 500 EYE—Size 10 1/2 x 4 1/2 x 1 1/2 in., one each 4, 5, 6, 8, 10 and 1 1/2 in., w't 1 1/2 lbs.per set \$4.40

CRUSO AUGER BIT SETS

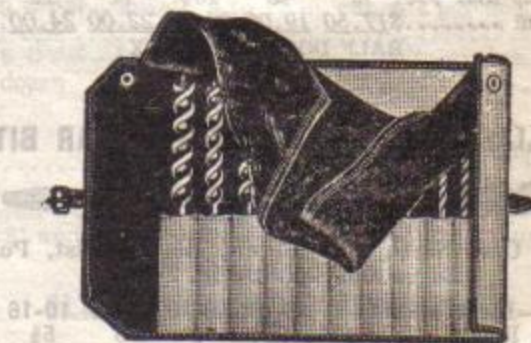


CRUSO

Consists of six japanned solid center bits.

No. 600—Cruso, 10 1/2 x 4 1/2 x 1 1/2 in., one each 4, 5, 6, 8, 10 and 1 1/2 in. in slide cover box, w't 1 1/2 lbs.per set \$3.00

EYE AUGER BIT ROLLS



Canvas case only, leather bound, leather strap and buckle.

Nos.	3	2
Size, in.	18x11	12x10
To hold bits	13	6
W't doz. lbs.	3 1/2	2 1/2
Per dozen	\$15.40	10.80

BARTLETT AUGER BIT BOXES

Nos.	16	18	013
Bits	6	8	13
W't each, lbs.	1 1/2	1 1/2	2
Per dozen	\$11.50	15.60	19.80

LOOSE

IRWIN PATTERN CAR BITS



Extra Cast Steel, Solid Center Stem, Double Cutter, Extension Lip, 12 Inch Twist.

No. 40—Inches 4-16 5-16 6-16 7-16 8-16
W't per doz., lbs. 3 3½ 4½ 4¾ 5½
Per dozen \$9.00 9.00 9.00 10.00 11.25

No. 40—Inches 9-16 10-16 11-16 12-16
W't per doz., lbs. 5½ 6½ 7½ 7¾
Per dozen \$12.50 13.75 15.00 16.25

No. 40—Inches 13-16 14-16 15-16 16-16
W't per doz., lbs. 8½ 8¾ 10 10½
Per dozen \$17.50 19.00 20.50 22.00

No. 40—Inches 17-16 18-16 20-16
W't per doz., lbs. 13 13½ 15
Per dozen \$24.00 26.00 30.00

HALF DOZEN IN A BOX

IRWIN PATTERN SHIP AUGER CAR BITS



Extra Cast Steel, Solid Center, Full Polished. 8 in. Twist, 12 in. Over all.

No. 53—Inches 6-16 7-16 8-16 9-16 10-16 11-16
W't, doz., lbs. 2 2½ 3 4 4½ 5
Per dozen \$8.25 8.25 8.25 10.00 10.00 11.50

No. 53—Inches 12-16 13-16 14-16 15-16 16-16
W't, doz., lbs. 5½ 6 6½ 7 7½
Per dozen \$11.50 13.50 13.50 15.00 15.00

12 in. Twist, 18 in. Over all

No. 55—In. 6-16 7-16 8-16 9-16 10-16 11-16 12-16
W't doz., lbs. 4 4½ 5½ 6 7 7½ 8
Per dozen \$9.00 10.00 11.25 12.50 13.75 15.00 16.75

No. 55—Inches 13-16 14-16 15-16 16-16 17-16 18-16
W't, doz., lbs. 9 10 10½ 11 12 13
Per dozen \$17.50 19.00 20.50 22.00 24.00 26.00

HALF DOZEN IN A BOX

SNELL'S SHIP AUGER PATTERN CAR BITS



Superior Cast Steel, with Screw, Black Twist, Polished Edges and Shank, 8 in. Twist.

No. 507—Inches 6-16 7-16 8-16 9-16 10-16 11-16
W't doz., lbs. 2½ 3½ 4 5 5½ 6½
Per dozen \$10.00 10.00 10.00 10.00 10.00 11.00

No. 507—Inches 12-16 13-16 14-16 15-16 16-16 17-16
W't doz., lbs. 7 8 9 10½ 12 14
Per dozen \$11.00 12.00 12.00 13.00 13.50 15.00

12 In. Twist.

No. 509—Inches 6-16 7-16 8-16 9-16 10-16
W't doz., lbs. 3 4 5 6 7
Per dozen \$11.00 11.00 11.00 11.00 11.00

No. 509—Inches 11-16 12-16 13-16 14-16
W't per doz., lbs. 7½ 9 10½ 11½
Per dozen \$12.00 12.00 13.00 13.00

No. 509—Inches 15-16 16-16 17-16 18-16
W't per doz., lbs. 13 14 15 18½
Per dozen \$14.50 14.50 16.00 16.00

HALF DOZEN IN A BOX

SNELL'S CAR BITS



Superior cast steel, extension lip, 12. in. polished twist.

No. 206—Inches 6-16 7-16 8-16 9-16
W't per doz., lbs. 3 3½ 4 5
Per dozen \$11.25 11.25 11.25 12.50

No. 206—Inches 10-16 11-16 12-16 13-16
W't per doz., lbs. 6 6 6½ 7½
Per dozen \$13.75 15.00 16.25 17.50

HALF DOZEN IN A BOX

PUGH CAR BITS



Hand made to exact size from highest grade crucible steel. Double spur natural finish twist. Because of their great lasting qualities they are preferred by many for use in car and railroad shops and by high grade mechanics. Especially adapted for boring hard wood.

6 IN. TWIST

No. 78—
Inches 6-16 7-16 8-16 9-16 10-16 11-16 12-16
W't, doz. lbs. 2½ 3 3½ 3½ 4 4½ 5
Per dozen . . . \$22.00 22.00 22.00 25.00 28.00 30.50 33.00

9 IN. TWIST

No. 178—
Inches 6-16 7-16 8-16 9-16 10-16 11-16 12-16
W't, doz., lbs. 3 3½ 4 4½ 5 5½ 6½
Per dozen . . . \$26.00 26.00 26.00 29.00 32.50 35.00 39.50

HALF DOZEN IN A BOX

SNELL'S SHIP AUGERS



With Screw.



Without Screw.

Superior Cast Steel, Japanned Inside, Polished Edges and Shank.

Inches 6-16 7-16 8-16 9-16 10-16
Twist, in. 8½ 9 9½ 10½ 11½
W't per doz., lbs. 2½ 3 4 6 7½

No. 541—With screws,
dozen \$11.00 11.00 11.00 11.00 11.00

No. 542—Without screw,
dozen \$13.20 13.20 13.20 13.20 13.20

Inches 11-16 12-16 13-16 14-16 15-16
Twist, in. 12 12 12½ 12½ 13
W't per doz., lbs. 8 9 9½ 10½ 12

No. 541—With screw,
dozen \$12.00 12.00 13.00 13.00 14.50

No. 542—Without screw,
dozen \$14.40 14.40 15.60 15.60 17.40

Inches 16-16 17-16 18-16 19-16
Twist, in. 13 13½ 13½ 14
W't per doz., lbs. 14 18 20½ 23

No. 541—With screws, dozen . . \$14.50 16.00 16.00 18.00
No. 542—Without screws, doz. \$17.40 19.20 19.20 21.60

Inches 20-16 24-16 28-16 32-16
Twist, in. 14 14 14 15
W't per doz., lbs. 26 35 42 52

No. 541—With screws, dozen . . \$18.00 23.00 32.00 45.00
No. 542—Without screws, dozen \$21.00

4-16 TO 16-16TH HALF DOZEN; OTHERS QUARTER DOZEN
IN A BOX

SNELL'S SHIP AUGER BITS



Superior Cast Steel, with Screw, 5 Inch Polished Twist.

No. 503—Inches	4-16	5-16	6-16	7-16	8-16
Wt. per doz., lbs.	1	1½	2	2½	3
Per dozen	\$9.00	9.00	9.00	9.00	9.00

No. 503—Inches	9-16	10-16	11-16	12-16
Wt. per doz., lbs.	3½	3½	4	4½
Per dozen	\$11.20	11.20	13.50	13.50

No. 503—Inches	13-16	14-16	15-16	16-16
Wt. per doz., lbs.	5	5½	6½	8
Per dozen	\$15.80	15.80	18.00	18.00

HALF DOZEN IN A BOX

SHIP AUGERS



Superior Cast Steel, Solid Center, Full Polished, With Screw

No. 57—Inches	6-16	7-16	8-16	9-16	10-16	11-16
Twist, in.	9	9½	9½	9½	9½	10
Wt. doz., lbs.	3	3½	4	5	6	7
Per dozen	\$15.00	15.00	15.00	18.00	18.00	21.00

No. 57—Inches	12-16	13-16	14-16	15-16	16-16
Twist, in.	10½	10½	10½	10½	11
Wt. doz., lbs.	8	9	11	11½	12
Per dozen	\$21.00	24.00	24.00	27.00	27.00

No. 57—Inches	17-16	18-16	19-16	20-16	24-16
Twist, in.	11½	11½	11½	11½	12½
Wt. doz., lbs.	13	14	15	16	21
Per dozen	\$30.00	30.00	33.00	33.00	42.00

HALF DOZEN IN A BOX

BIT EXTENSIONS

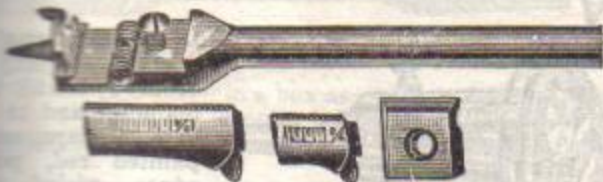


No. 5—Inches	12	15	18	21	24
Wt. per doz., lbs.	6	7½	8½	9	11
Per dozen	\$32.00	32.80	33.60	34.60	35.60

Extensions will follow ½ in. bit and longer.

ONE IN A BOX

STEER'S EXPANSIVE AUGER BITS



Highly Polished, Two Cutters, Micrometer Screw Adjustment, Cutters are Toothed and Will Not Slip or Creep.

Small, ½ to 2 in. cut, w't per doz. 4½ lbs.,	
per dozen	\$48.60
Large, ¾ to 3 in. cut, w't per doz. 8½ lbs.,	
per dozen	\$59.40

ONE IN A BOX; HALF DOZEN IN A CARTON

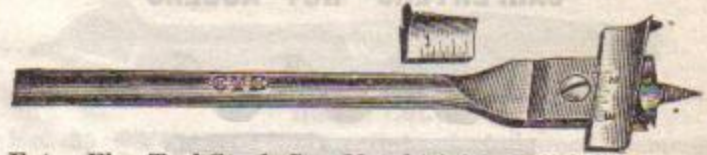
Extra Cutters.

Nos.	1	2	3	4
Cut, in.	¾to1½	1½to2	2to2½	2½to3
Per dozen	\$9.00	9.00	9.60	10.80

Nos. 1 and 2 are adapted to small, Nos 3 and 4 are adapted to large bits.

ONE DOZEN IN A BOX

EXPANSIVE AUGER BITS



Extra Fine Tool Steel, Gun Metal Finish, Polished Cutters, Carefully Tempered, with Two Cutters.

The bits are made of an extra fine tool steel, carefully tempered cutters are accurately fitted to bits and are as high grade as can be made.

No. 100 **EXP**—Small, ½ to 1½ in. cut, w't per doz. 3 lbs., per dozen \$32.40

No. 125 **EXP**—Large, ¾ to 3 in. cut, w't per doz. 7½ lbs., per dozen \$46.80

ONE IN A BOX; HALF DOZEN IN A CARTON

Extra Cutters.

Nos.	11	12	13	14	15	16
Cut, in.	1½to2	2to2½	2½to3	3to4	4to5	4to5
Per dozen	\$5.40	6.80	9.50	10.80	16.20	21.60

Nos. 1 and 2 are adapted to small, Nos. 3 to 6 to large bits

ONE DOZEN IN A BOX

SPECIAL EXPANSIVE BITS



Extra Fine, Tool Steel, Full Polished, Carefully Tempered, with Two Cutters.

The cutter intermeshes with a cross feed screw, which is firmly held and is forced into a dovetail and directly against the stem of bit.

It is impossible for the cutter to move while the bit is in operation. The cutter itself is of special construction, having a uniform bevel or cutting edge its entire length.

These bits are patented and have the latest and most improved features, as high grade a bit as can be made.

No. 150 **EXP**—Small, ¾ to 1½ in. cut, w't per doz. 4½ lbs., per dozen \$49.50

No. 175 **EXP**—Large, ¾ to 3 in. cut, w't per doz. 8½ lbs., per dozen \$58.50

ONE IN A BOX

Extra Cutters.

Nos.	21	22	23	24	25
Cut, in.	¾to1½	1½to2	2to2½	2½to3	3to4
Per dozen	\$6.90	8.60	12.00	13.80	20.70

Nos. 21 and 22 are adapted to small, balance to large bits.

ONE DOZEN IN A BOX

CLARK EXPANSIVE AUGER BITS



Highly Polished, Two Cutters.

Small, ½ to 1½ in. cut, w't per doz. 6 lbs., per dozen \$28.80

Large, ¾ to 3 in. cut, w't per doz. 8 lbs., per dozen \$41.60

ONE IN A BOX; HALF DOZEN IN A CARTON

Extra Cutters.

Nos.	31	32	33	34	35	36
Cut, in.	1to1½	1½to2	2to2½	2½to3	3to4	4to5
Per dozen	\$4.80	6.00	8.40	9.60	14.40	19.20

Nos. 31 and 32 are adapted to small, Nos. 3 to 6 are adapted to large bits.

ONE DOZEN IN A BOX

CARPENTERS' NUT AUGERS



REVISED Solid Center, Superior Cast Steel, Full Polished, Double Center 10 in. Twist, 18 in. Over All.

No. 74

Inches	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2
W't, doz., lbs.	10	14	18	22	26	30	33
Per dozen	\$23.90	30.60	39.60	46.80	54.00	61.20	68.40

QUARTER DOZEN IN A BOX



REVISED Solid Cast Steel, Brass Nut, Full Polished Shank.

No. 126—Inches .. 1-2 3-4 1 1 1/2 1 3/4 2

W't, doz., lbs.	4	5 1/2	8 1/2	11 1/2	12	15
Per dozen	\$15.00	16.50	22.50	25.50	28.50	36.00

Inches 1 1/2 2 2 1/4 2 1/2 3

W't per doz., lbs.	19	21 1/2	27	30	37 1/2
Per dozen	\$42.00	48.00	75.60	93.60	165.60

HALF DOZEN IN A BOX

BORING MACHINE AUGERS



1/2 In. Shank, 8 1/2 In. Twist, Will Fit Any Make of Machine.

No. 128—Inches 1 1 1/4 1 1/2 2

W't per doz., lbs.	2 1/2	3	3 1/2	4 1/2
Per dozen	\$22.50	28.50	36.00	48.00

In Sets.

Sets of 18 quarters, 1, 1 1/4 and 2 in. per set \$8.80
QUARTER DOZEN IN A BOX

IRWIN BORING MACHINE AUGERS



Solid Center Stem, Double Cutter, Extension Lip.

No. 73R—Inches 1 1 1/4 2

W't per doz., lbs.	8 1/2	12 1/2	16 1/2
Per dozen	\$23.90	39.60	54.00

1 IN., ONE DOZEN; 1 1/4 IN., HALF DOZEN; 2 IN., QUARTER DOZEN IN A BOX

DOWEL SHARPENERS



No. 22—Stanley's, improved, w't per doz. 1 lb.,
per dozen \$6.20
HALF DOZEN IN A BOX

OYB DOWEL BITS



3 1/2 Inches Long.

Inch	1-4	5-16	3-8	1-2
W't per doz.	2	2 1/2	3	4
Per dozen	\$9.50	9.50	9.50	9.50

ONE DOZEN IN A BOX

PLUG CUTTERS

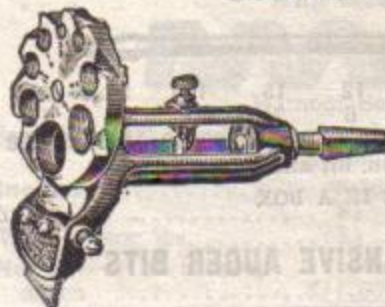


Polished knives, made from high grade tool steel carefully tempered. Knives are held in place by a steel band and easily replaced. These are used for cutting plugs where it is necessary to cover the heads of screws on all work requiring a fine finish.

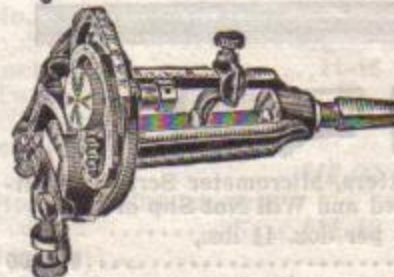
Nos.	1	2	3	4	5
Size	3/8	7/16	1/2	9/16	5/8
W't per doz., lbs.	2	2 1/2	3	3 1/2	4
Per dozen	\$9.40	10.00	10.50	11.30	12.00

HALF DOZEN IN A BOX

HOLLOW AUGERS

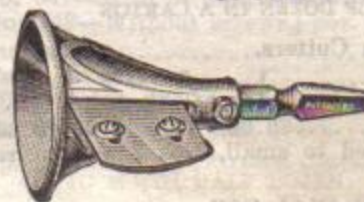


No. 4 — Adjustable, japanned disc with nickel trimmings, cuts 3/4 to 1 in., w't per doz. 20 lbs.,
per dozen \$24.00
SIXTH DOZEN IN A BOX



No. 33—Stearns', adjustable to any size from 3/4 to 1 1/4 in. in diameter and to depth of 3 in., japanned and painted red, polished edges, nickel plated thumb screws, w't per doz. 21 lbs.,
per dozen... \$104.00
SIXTH DOZEN IN A BOX

SPOKE POINTERS



No. 1—Stearns', with graduated adjustable shank and cast steel adjustable knife, w't per doz. 15 1/2 lbs.,
per dozen.... \$19.20
HALF DOZEN IN A BOX

GIMLET BITS



Double cut, hammer forged from best crucible steel, hardened, tempered and polished.

No. 21 GVB—Inch	4-32	5-32	6-32	7-32
Per dozen	\$3.60	3.60	3.60	3.60
No. 21 GVB—Inch	8-32	9-32	10-32	Asst.
Per dozen	\$3.60	3.60	3.60	3.60

Each bit is carefully tested at factory and is fully warranted. Made exact size as listed.

ONE DOZEN IN A BOX. AVERAGE W'T 8 OZ.



German Pattern, Forged Steel, Straw Colored.

No. 30 GVB—Inch	2-32	3-32	4-32	5-32	6-32	7-32
Per dozen	\$3.20	3.20	3.20	3.20	3.20	3.20
No. 30 GVB—Inch	8-32	9-32	10-32	12-32	Asst'd 2 to 8	
Per dozen	\$3.20	3.30	3.30	3.60	3.20	

ONE DOZEN IN A BOX. AVERAGE W'T 12 OZ. PER DOZEN



German Pattern, Forged Steel, Straw Colored.

No. 25—Inch	2-32	3-32	4-32	5-32	6-32
Per dozen	\$2.40	2.40	2.40	2.40	2.40
No. 25—Inch	7-32	8-32	9-32	10-32	Asst'd
Per dozen	\$2.40	2.40	2.40	2.40	2.40

ONE DOZEN IN A BOX. AVERAGE W'T 12 OZ. PER DOZEN

SCREW DRIVER BITS



Round shank, hammer forged from extra fine tool steel, polished.

No. 17 GVB—One dozen in a box assorted as follows, 1 only 1/8 in., 2 only 1/4 in., 4 only 3/8 in., 5 only 1/2 in., w't per dozen 1 lb.	per dozen..\$5.60			
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ONE DOZEN IN A BOX
STRAIGHT SIZES

No.	174	175	176	178
Inches	1/8	1/4	3/8	1/2
W't, per doz., lbs.	1/2	3/4	1	1
Per dozen	\$5.60	5.60	5.60	5.60

ONE DOZEN IN A BOX



Round shank hammer forged tool steel, straw colored, extra quality.

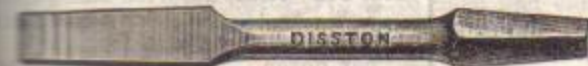
No. 7 GVB—One dozen in a box assorted as follows, 3 only 1/8 in., 6 only 1/4 in., 3 only 3/8 in., w't per doz. 1 lb., per dozen	\$4.00
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Round Shank, Cast Steel, Polished, Extra Quality.

No. 127 HVB—One dozen in a box assorted as follows, 3 each 1/8 in. and 1/4 in., w't per doz. 1 lb., per dozen	\$3.00
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ONE DOZEN IN A BOX



DISSTON'S, round shank, crucible tool steel, polished.

No. 5—Assorted one dozen in a box as follows: 4 each 1/8, 1/4 and 3/8 in., w't per doz. 1 lb.	per dozen \$3.60
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ONE DOZEN IN A BOX

COUNTERSINK BITS



Double Cut.

No. 35 GVB—1/2x3 1/2 in., snail head, for wood, hammer forged from finest tool steel, straw colored, w't per doz. 1 lb.	per dozen \$4.60
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ONE DOZEN IN A BOX



Single Cut.

No. 32—American, 5/8x3 1/2 in., snail head, cast steel, polished, round shank, for wood, w't per doz. 1 1/2 lbs., per dozen	\$3.00
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ONE DOZEN IN A BOX



Rose head, for metal, hammer forged from finest tool steel, milled teeth, straw colored.

No. 45 GVB—Inches	1/2x3 1/2	3/4x4 1/2
W't, doz., lbs.	1	1 1/2
Per dozen	\$5.00	6.00

ONE DOZEN IN A BOX



No. 30—American, 1/2x3 1/2 in., rose head, cast steel, polished, round shank, for metal, w't per doz. 1 lb., per dozen	\$3.00
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ONE DOZEN IN A BOX



No. 20.

WHEELER'S, cast steel, nickel plated, size 1/2x4 inches, round shank, for wood.

No. 18—Without gauge, w't per doz. 1 lb., per dozen	\$6.00
No. 20—With gauge, w't per doz. 1 1/2 lbs., per dozen	\$8.00

ONE DOZEN IN A BOX

COUNTERSINK GIMLET BITS



No. 5 GVB—Sizes	0	1	2	3	Asst'd 0 to 3
For screws, in.	1/8	1/4	3/8	1/2	1/2 to 1 1/2
Per dozen	\$4.60	4.60	4.60	4.60	4.60

ONE DOZEN IN A BOX. AVERAGE W'T 8 OZ. PER DOZEN

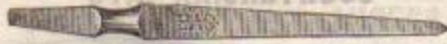


Polished Cast Steel.

No. 12—One dozen in a box, assorted as follows, 3 each sizes 0, 1, 2, 3, for screws 1/8 to 1 1/2 in., w't per doz. 12 oz., per dozen	\$3.00
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ONE DOZEN IN A BOX

REAMER BITS



square, hammer forged from finest tool steel, straw colored.
 No. 1—Inches 1-2 3-4
 W't per doz., lbs. 2 5½
 Per dozen \$6.00 7.40
 ONE DOZEN IN A BOX



No. 342—German, square, cast steel, straw colored, w't per doz 1½ lbs. per dozen \$2.00
 ONE DOZEN IN A BOX



No. 2—½ in., octagon, hammer forged from finest tool steel, straw colored, w't per doz. 1½ lbs., per dozen \$5.40
 ONE DOZEN IN A BOX



Lighting taper, round shank, fine steel, for bit brace.
 No. 460—Inch 1-4 5-16 3-8 7-16 1-2 9-16
 W't per doz., lbs. ... 3 1 1½ 1½ 2½ 2½
 Per dozen \$9.60 9.60 10.40 11.20 12.00 12.80
 No. 460—Inch 5-8 11-16 3-4 7-8 1
 W't per doz., lbs. 3½ 4½ 6 8 10½
 Per dozen \$15.20 17.60 23.50 28.00 36.00
 HALF DOZEN IN A BOX

BURRING REAMERS

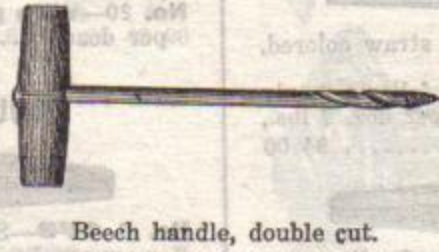


Bit stock, spiral fluted, made from finest steel. Are designed especially for removing burrs caused in cutting pipe. Extensively used for countersinking. Great care taken in tempering to adapt them to a variety of metals
 Nos. 241 242 242½ 244
 Length, in. 3½ 4½ 4½ 5½
 For pipe, in. ½ to 1 ½ to 1½ to 1½ to 2
 W't per doz., lbs. 1½ 5 5½ 18
 Per dozen \$21.60 25.20 30.60 64.80
 ONE IN A BOX

WOOD HEAD GIMLETS

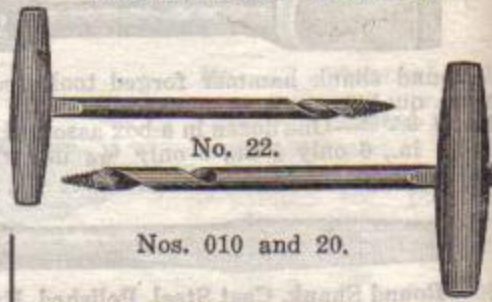


No. 200—Rosewood handle, bit point, hammer forged from best tool steel, oil tempered, cocobola handle, assorted 4 to 8-32 in., w't per doz. 5 oz. per dozen \$3.30
 No. 1—German Pattern, bit point, hammer forged from best tool steel, oil tempered, cocobola handle, assorted 4 to 8-32 in., w't per doz. 10 oz. per dozen \$2.90
 THREE DOZEN IN A BOX
 GROSS IN A BOX



Beech handle, double cut.
 No. 2—Small, size 2, 1¼ in., w't per gro. 5 lbs., per dozen \$2.00
 No. 3—Medium, size 3, 1¾ in., w't per gro. 5 lbs. per dozen \$2.00
 No. 4—Large, size 4, 1¾ in., w't per gro. 8 lbs., per dozen \$2.00
 No. 14—Sizes assorted, 1 to 4, 1¼ to 1¾ in., w't per gro. 6 lbs., per dozen \$2.00
 QUARTER GROSS IN A BOX

METAL HEAD GIMLETS



No. 22—Spike, assorted sizes, 2, 3 and 4, 1¼ to 1¾ in., small medium and large, w't per gro. 18 lbs., per dozen \$1.50
 No. 010—Nail, assorted sizes, 1, 2 and 3, ¾ to 1¼ in., small medium and large, w't per gro. 7 lbs., per dozen \$1.40
 No. 20—Nail, assorted sizes, 2 and 3, 1¼ and 1¾ in., medium and large, w't per gro. 8½ lbs., per dozen \$1.50
 O. 22, QUARTER GROSS; OTHERS, HALF

GENUINE CRITCHLEY EXPANDING REAMERS



These Reamers have six cutters made of special alloy Semi-High Speed Steel, fitted to parallel slots cut lengthwise in the shaft of the Reamer. These slots are of sufficient depth that when the blades are forced up to their extreme limit they are sufficiently deep to hold firmly so that blades will not spring out.

Blades are beveled on each end and are confined to their place by special nuts. To increase the diameter of Reamer, it is only necessary to slack up on one nut and screw up on the other. Body of Reamer made of tool steel nicely finished. These Reamers are especially valuable in garages and machine shops.

Nos.	19	20	21	22	23	24
Expansion, in. 2¼ to 2½	2½ to 2¾	2¾ to 3	3 to 3¼	3¼ to 3½	3½ to 3¾	3¾ to 4
Length, in. ...	5½	5½	5½	5½	6½	6½
W't, doz., lbs. 2	2	2	3	4	4½	4½
Per dozen ..	\$86.40	86.40	86.40	86.40	91.20	91.20
Nos.	25	26	27	28	29	30
Expansion, in. 2 to 2¼	2¼ to 2½	2½ to 2¾	2¾ to 3	3 to 3¼	3¼ to 3½	3½ to 3¾
Length, in. ...	7	7½	8	9	10	11
W't, doz., lbs. 6½	8	10	14½	20½	28	28
Per dozen ..	\$96.00	96.00	105.60	111.40	134.40	153.60



IN SETS

No. 10—Set consists of ten reamers. Nos. 20 to 29 inclusive. W't per set 7 lbs. per set \$82.00
 ONE SET IN A WOOD BOX

TWIST DRILLS IN SETS



Wood pocket case, 8x3 1/2 x 8 3/4 in., cloth covered in imitation leather, one each 4-32, 5-32, 6-32, 7-32, 8-32, 10-32 and 12-32 in.

STD

No. 3A—For wood, w't per set 3/4 lb., per set \$3.70

No. 5A—For iron, w't per set 1 lb., per set 4.35

ONE SET IN A BOX

STANDARD

No. 13B—For wood, w't 1 lb. per set \$3.70

No. 14A—For iron, w't 1 lb. per set 4.35

ONE SET IN A BOX

ARMSTRONG PACKER RATCHET DRILLS



Nos.	1	2	3
Length, in.	10	12	15
Size of drill socket, square taper, in.	1	1	1
Length of head, in.	6	6 1/2	7 1/2
Feed, in.	2 1/2	2 1/2	3
W't each, lbs.	4	6	8 1/2
Each	\$5.75	7.25	9.00

No. 1 socket is 1/2 in. square at small end, 3/4 in. at large end.

No. 2 socket is 1/2 in. square at small end, 3/4 in. at large end.

LOOSE

ARMSTRONG RATCHET DRILLS WITH SLEEVE FEED SCREW AND TAPER SOCKET FOR TAPER SHANK DRILLS

Nos.	1M	2M	3M
Length, in.	10	12	15
Drill socket, in.	2	3	3
Takes taper shank drills, in.	2 3/4 to 2 3/2	5 3/4 to 1 1/2	5 3/4 to 1 1/2
Length of head, in.	6	6 1/2	7 1/2
Feed, in.	2 1/2	2 1/2	3
W't each, lbs.	4 1/2	6	8 1/2
Each	\$5.75	7.25	9.00

ONE IN A BOX

DRILL CHUCKS



The three steel jaws are carefully adjusted in a socket to keep them in place and are so arranged as to open and close with the loosening or tightening of the chuck upon the spindle.

No. 7—Miller Falls, for post drills, polished, nickel plated steel, knurled sleeve, 2 1/2 x 1 1/2 in., shank capacity 0 to 3/4 in., round shank drills, w't 1 1/2 lbs., each \$3.00

ONE IN A BOX

TWIST DRILLS



STD bit stock, for metal or wood, 5/16 x 3/8 x 1 1/4 in. shank.

No. 8A	In. 1-16	3-32	1-8	5-32	3-16	7-32
Length, in.	3 1/2	3 1/2	3 3/4	4 1/2	4 3/4	4 1/2
W't per doz., lbs.	8	8	8	11 1/2	11	8
Per dozen	\$2.50	2.70	3.00	3.50	4.00	4.50
No. 8A	In. 1-4	9-32	5-16	11-32	3-8	13-32
Length, in.	5 1/2	5 1/2	5 1/2	5 1/2	6	6 1/2
W't per doz., lbs.	1	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Per dozen	\$5.00	6.00	7.00	8.00	8.50	9.25
No. 8A	In. 7-16	15-32	1-2	9-16	5-8	3-4
Length, in.	6 1/2	6 1/2	7	7 1/2	8	8
W't per doz., lbs.	2 1/2	2 1/2	2 1/2	3 1/2	4 1/2	6
Per dozen	\$10.50	11.75	13.00	15.50	18.00	24.00

No. 8A—In sets of 9, one each 1-16, 3-32, 1-8, 5-32, 3-16, 7-32, 1-4, 5-16, 3-8 in. per set \$4.25



STD bit stock, Syracuse pattern, for wood, 5/16 x 3/8 x 1 1/4 in. shank.

No. 9A	In. 1-16	3-32	1-8	5-32	3-16	7-32
Length, in.	3 1/2	4	4 1/2	5	5 1/2	6
W't per doz., lbs.	1	1	1 1/2	1 1/2	1 1/2	1 1/2
Per dozen	\$3.25	3.25	3.25	3.50	4.00	4.50
No. 9A	In. 1-4	9-32	5-16	11-32	3-8	13-32
Length, in.	6 1/2	7	7 1/2	7 1/2	8	8 1/2
W't per doz., lbs.	1	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Per dozen	\$5.00	5.50	6.00	6.50	7.00	7.50
No. 9A	In. 7-16	15-32	1-2	9-16	5-8	
Length, in.	8 1/2	8 1/2	9	9 1/2	9 1/2	
W't per doz., lbs.	2 1/2	2 1/2	2 1/2	3 1/2	4	
Per dozen	\$8.00	8.75	9.50	11.00	12.50	

TWIST DRILL



Standard Syracuse pattern, bit stock, for wood, specially tempered and pointed for wood, but are not injured by contact with nails, etc., length 9 in.

No. 109A	Diam., in. 1-16	3-32	1-8	5-32	3-16
W't per doz., lbs.	1	1	1 1/2	1 1/2	1 1/2
Per dozen	\$3.25	3.25	3.25	3.50	4.00
No. 109A	Diam., in. 7-32	1-4	9-32	5-16	11-32
W't per doz., lbs.	1	1 1/2	1 1/2	1 1/2	1 1/2
Per dozen	\$4.50	5.00	5.50	6.00	6.50
No. 109A	Diam., in. 3-8	13-32	7-16	15-32	1-2
W't per doz., lbs.	2	2 1/2	2 1/2	2 1/2	2 1/2
Per dozen	\$7.00	7.50	8.00	8.75	9.50

EXTRA LENGTH DRILL



FOR BELL HANGERS AND ELECTRICIANS

Bit stock for wood, will drill through plastering, bricks, etc., can be sharpened, 5/16 x 3/8 x 1 in. shank.

No. 109B	Diam., in. 1-4	1-4	5-16	5-16	3-8
Length, in.	12	18	12	18	12
W't per doz., lbs.	2	2 1/2	2 1/2	3 1/2	2 1/2
Per dozen	\$8.00	10.50	8.75	11.00	13.50
No. 109B	Diam., in. 3-8	3-8	7-16	7-16	1-2
Length, in.	18	24	12	12	12
W't per doz., lbs.	4 1/2	5 1/2	2 1/2	2 1/2	3
Per dozen	\$12.00	14.50	10.50	12.00	
No. 109B	Diam., in. 1-2	1-2	5-8	5-8	
Length, in.	18	12	18	18	
W't per doz., lbs.	5	4	6	6	
Per dozen	\$14.50	15.25	17.75		

ALL ABOVE ONE DOZEN IN A BOX

TWIST DRILLS

BIT STOCK, FOR WOOD AND IRON



Size Shank $\frac{3}{16} \times 1 \frac{1}{4}$ in.

No. 108—109—In.	1-16	3-32	1-8	5-32	3-16	7-32
W't per doz., lbs.	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{11}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1
Per dozen	\$2.50	2.70	3.00	3.50	4.00	4.50

No. 108—109—In.	1-4	9-32	5-16	11-32	3-8	13-32
W't per doz., lbs.	$1 \frac{1}{2}$	$1 \frac{1}{2}$	$1 \frac{1}{2}$	$1 \frac{1}{2}$	$1 \frac{1}{2}$	$1 \frac{1}{2}$
Per dozen	\$5.00	6.00	7.00	8.00	8.50	9.25

No. 108—109—In.	7-16	15-32	1-2	9-16	5-8	3-4
W't per doz., lbs.	2	$2 \frac{3}{8}$	$2 \frac{1}{2}$	$2 \frac{3}{8}$	3	$3 \frac{1}{2}$
Per dozen	\$10.50	11.75	13.00	15.50	18.00	24.00

ONE DOZEN IN A BOX

No. 13—Sets of nine, one each $\frac{1}{16}$, $\frac{3}{32}$, $\frac{1}{8}$, $\frac{5}{32}$, $\frac{3}{16}$, $\frac{7}{32}$, $\frac{1}{2}$, $\frac{5}{16}$ and $\frac{3}{4}$ in., w't per set $2 \frac{1}{2}$ lbs. per set \$4.25

ONE SET IN A BOX

STUBBS' STEEL WIRE GAUGE, STRAIGHT SHANK



No. 107—						
Gauge	1to5	6to10	11to15	16to20	21to25	26to30
Avg. lgth., in.	4	$3 \frac{1}{2}$	$3 \frac{1}{2}$	$3 \frac{1}{2}$	$3 \frac{1}{2}$	$2 \frac{7}{8}$
Per dozen	\$2.75	2.50	2.25	2.00	1.90	1.80

No. 107—						
Gauge	31to40	41to45	46to50	51to55	56to60	61to65
Avg. lgth., in.	$2 \frac{1}{2}$	$2 \frac{1}{2}$	$2 \frac{1}{8}$	$1 \frac{7}{8}$	$1 \frac{7}{8}$	$1 \frac{1}{2}$
Per dozen	\$1.75	1.70	1.65	1.60	1.55	1.50

ONE DOZEN IN A BOX

MOUNTED SETS

No. 9—30 drills, alternate sizes, from 1 to 59 gauge, w't per set 2 lbs. per set \$8.50

No. 8—60 drills, all sizes from 1 to 60 gauge, w't per set $2 \frac{1}{2}$ lbs. per set \$13.75

No. 7—65 drills, all sizes from 1 to 60 gauge and $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $1 \frac{1}{2}$ and $\frac{3}{4}$ in., w't per set $2 \frac{1}{2}$ lbs., per set \$15.75

ONE SET IN A BOX

PATENT INCREASE, STRAIGHT SHANK



Length, in.	10 $\frac{1}{2}$	10 $\frac{3}{4}$	11
Length, in.	8	$8 \frac{1}{4}$	$8 \frac{3}{4}$
Each	\$1.30	1.40	1.60

No. 104B—104—In.	7-8	15-16	1
Length, in.	10 $\frac{1}{2}$	10 $\frac{3}{4}$	11
Each	\$2.60	3.00	3.50

ONE DOZEN IN A BOX

JOBBER'S AND MACHINISTS', STRAIGHT SHANK



No. 105—In.	1-16	5-64	3-32	7-64	1-8	9-64
Page 118						
W't per doz., lbs.	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{16}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$
Per dozen	\$1.60	1.65	1.70	1.75	1.80	1.85

No. 105—In.	5-32	11-64	3-16	13-64	7-32	15-64
Length, in.	$3 \frac{1}{2}$	$3 \frac{1}{2}$	$3 \frac{1}{2}$	$3 \frac{3}{8}$	$3 \frac{1}{2}$	$3 \frac{1}{2}$
W't per doz., lbs.	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$
Per dozen	\$1.90	2.00	2.25	2.50	2.75	3.00

No. 105—In.	1-4	17-64	9-32	19-64	5-16	21-64
Length, in.	4	$4 \frac{1}{8}$	$4 \frac{1}{2}$	4 $\frac{3}{8}$	$4 \frac{1}{2}$	4 $\frac{3}{8}$
W't per doz., lbs.	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	1	1	$1 \frac{1}{8}$
Per dozen	\$3.25	3.50	3.80	4.00	4.35	4.70

No. 105—In.	11-32	23-64	3-8	25-64	13-32	27-64
Length, in.	$4 \frac{1}{2}$	$4 \frac{1}{2}$	5	$5 \frac{1}{8}$	$5 \frac{1}{2}$	$5 \frac{1}{2}$
W't per doz., lbs.	$1 \frac{1}{8}$	$1 \frac{1}{8}$	$1 \frac{1}{2}$	$1 \frac{1}{2}$	$1 \frac{1}{2}$	$1 \frac{1}{2}$
Per dozen	\$5.05	5.50	6.00	6.50	7.00	7.75

No. 105—In.	7-16	29-64	15-32	31-64	1-2
Length, in.	$5 \frac{1}{2}$	$5 \frac{3}{8}$	$5 \frac{1}{2}$	$5 \frac{3}{8}$	6
W't per doz., lbs.	2	$2 \frac{1}{2}$	$2 \frac{1}{2}$	$2 \frac{1}{2}$	3
Per dozen	\$8.50	9.25	10.00	11.00	12.00

ONE DOZEN IN A BOX

MOUNTED SETS

No. 18—Sets of nine, one each $\frac{1}{16}$ to $\frac{3}{16}$ in. inclusive, w't per set 2 lbs. per set \$1.60

No. 6—15 drills, alternate sizes from $\frac{1}{16}$ to $\frac{1}{2}$ in., w't per set 2 lbs. per set \$9.50

No. 5—29 drills, all sizes from $\frac{1}{16}$ to $\frac{1}{2}$ in., w't per set 3 lbs. per set \$15.00

ONE SET IN A BOX

TAPER SHANK, PATENT INCREASE



No. 104—102—						
In.	3-16	1-4	9-32	5-16	11-32	3-8
Length, in.	6	$6 \frac{1}{2}$	$6 \frac{1}{2}$	$6 \frac{1}{2}$	$6 \frac{1}{2}$	7
Each	\$0.50	.60	.65	.70	.75	.80

No. 104—102—In.	7-16	15-32	1-2	17-32	9-16	19-32
Length, in.	$7 \frac{1}{2}$	$7 \frac{1}{2}$	$7 \frac{1}{2}$	8	$8 \frac{1}{2}$	$8 \frac{1}{2}$
Each	\$1.00	1.10	1.20	1.30	1.40	1.50

No. 104—102—In.	5-8	21-32	11-16	23-32	3-4	25-32
Length, in.	$8 \frac{3}{4}$	9	$9 \frac{1}{2}$	$9 \frac{1}{2}$	$9 \frac{1}{2}$	$9 \frac{1}{2}$
Each	\$1.60	1.70	1.80	1.90	2.00	2.10

No. 104—102—In.	13-16	27-32	7-8	29-32	15-16	31-32
Length, in.	10	$10 \frac{1}{2}$	$10 \frac{1}{2}$	10 $\frac{3}{8}$	$10 \frac{1}{2}$	$10 \frac{1}{2}$
Each	\$2.20	2.40	2.60	2.80	3.00	3.25

No. 104—102—In.	1	$1 \frac{1}{8}$	$1 \frac{1}{2}$	$1 \frac{3}{8}$	$1 \frac{1}{2}$	$1 \frac{3}{4}$
Length, in.	11	$11 \frac{1}{2}$	$11 \frac{1}{2}$	12	$12 \frac{1}{2}$	$14 \frac{1}{2}$
Each	\$3.50	4.00	4.50	5.00	5.50	6.00

No. 104—102—In.						
Length, in.	$1 \frac{1}{2}$	$1 \frac{1}{2}$	$1 \frac{1}{2}$	$1 \frac{1}{2}$	$1 \frac{1}{2}$	$1 \frac{1}{2}$
Each	\$6.50	7.50	8.05			

ONE DOZEN IN A BOX

TWIST DRILLS

BLACKSMITHS'



For Nos. 1 and 2 Prentice Drill Presses, Shanks
2 1/2 Inches Long, 1/4 Inch in Diameter.

No. 112—							
In.	1-8	5-32	3-16	7-32	1-4	9-32	5-16
Length, in.	4 1/2	5 1/2	5 1/2	6	6	6	6
Each	\$0.45	.45	.50	.55	.60	.65	.70
No. 112—							
In.	11-32	3-8	13-32	7-16	15-32	1-2	17-32
Length, in.	6	6	6	6	6	6	6
Each	\$0.75	.80	.85	.90	.95	1.00	1.05
No. 112—							
In.	9-16	19-32	5-8	21-32	11-16	23-32	3-4
Length, in.	6	6	6	6	6	6	6
Each	\$1.10	1.20	1.30	1.40	1.50	1.60	1.70
No. 112—							
In.						7-8	1
Length, in.						6	6
Each						\$2.10	2.50

ONE DOZEN IN A BOX

BLACKSMITHS'



For Coe's and No. 3 Prentice Drill Presses, Shanks
2 1/2 Inches Long, 41-64 Inch in Diameter.

No. 110—Diam., in.	1-8	5-32	3-16	7-32	1-4	9-32
Length, in.	4 1/2	5 1/2	6	6	6	6
Each	\$0.50	.55	.60	.65	.70	.75
No. 110—Diam., in.	5-16	11-32	3-8	13-32	7-16	15-32
Length, in.	6	6	6	6	6	6
Each	\$0.80	.85	.90	.95	1.00	1.05
No. 110—Diam., in.	1-2	17-32	9-16	19-32	5-8	21-32
Length, in.	6	6	6	6	6	6
Each	\$1.10	1.15	1.20	1.25	1.30	1.40
No. 110—Diam., in.	11-16	3-4	13-16	7-8	15-16	1
Length, in.	6	6	6	6	6	6
Each	\$1.50	1.70	1.90	2.10	2.30	2.50

LOOSE

MACHINISTS' HAND TAPS

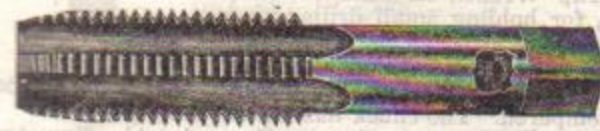


Taper U. S. S. Threads.

1/2 in., 32 threads, right hand, w't 1/4 lb. each \$0.35
3-16 in., 32 threads, right hand, w't 1/4 lbs. each .40



Taper.



Plug.



Bottoming.

U. S. S. RIGHT HAND TAPER, PLUG AND BOTTOMING

Diameter, in.	1-4	5-16	3-8	7-16	1-2
Threads to inch	20	18	16	14	13
W't, oz.	1/2	3/4	1	1 1/2	1 3/4
Each	\$0.45	.50	.55	.60	.70
Per set of three each Taper, Plug and Bottoming,	\$1.35 1.50 1.65 1.80 2.10				
Diameter, in.	9-16	5-8	3-4	7-8	1
Threads to inch	12	11	10	9	8
W't, oz.	2 1/2	3	5	7 1/2	10
Each	\$0.80	.90	1.20	1.60	2.00
Per set of three, one each Taper, Plug and Bottoming,	\$2.40 2.70 3.60 4.80 6.00				

When ordering state whether single or set is wanted.

LOOSE

TAPS

MACHINE SCREW



No. of gauge	2	3	4	5	6
Threads to inch	56	48	36	36	32
Each	\$0.45	.40	.40	.35	.35
No. of gauge	8	10	12	14	16
Threads to inch	32	24, 32	24	20, 24	18
Each	\$0.35	.40	.45	.45	.50

All the above numbers weigh less than an ounce.
LOOSE

S. A. E. PLUG HAND TAPS FOR AUTOMOBILE USE

Diameter, in.	1-4	5-16	3-8	7-16	1-2	9-16
Threads to in.	28	24	24	20	20	18
W't., doz.	1/2	3/4	1	1 1/2	1 1/2	2 1/2
Each	\$0.45	.50	.55	.60	.70	.80
Diameter, in.					5-8	3-4
Threads to in.					18	16
W't., doz.					3	5
Each					\$0.90	1.20

BLACKSMITHS' TAPER



RIGHT HAND

Diameter, in.	1-4	5-16	3-8	7-16	1-2	5-8
Threads to inch	20	18	16	14	12, 14	12, 14
Each	\$0.45	.50	.55	.60	.70	.90

Specify Size Thread When Ordering.
HALF DOZEN IN A BOX

STOVE BOLT



Diameter, in.	3-16	1-4	5-16
Threads to inch	24	18	18
W't, oz.	1/2	3/4	1
Each	\$0.35	.45	.50

LOOSE

BEAVER PIPE STOCKS AND DIES



No. 4—Beaver ratchet stock consists of only three parts. Is an easy-working receding die stock using narrow dies that ease the labor as the thread is cut; threads 1, 1½, 1¾ and 2 in. pipe, in addition ¾ or 1 in. die heads can be furnished for this set; w't per 24 lbs., per set\$30.00
Extra Die Heads for No. 4—¾ or 1 in.,each \$5.50

STOCKS AND DIES



With Set Screw at End.

- No. 23**—3 sets of dies, 3 taps, one each ½×14, ¾×10, 1×9 right hand, w't 8½ lbs.per set \$12.00
- No. 37**—3 sets of dies, 6 taps, one each ¼×22, ⅝×22, ¾×18, ⅞×18, 1×14, 1¼×14 right hand, w't 4 lbs., per set\$10.20
- No. 37A**—3 sets of dies, 6 taps, one each ¼×16, ⅝×16, ¾×14, ⅞×14, 1×12, 1¼×12, w't 3½ lbs.per set \$10.20
- No. 37B**—3 sets of dies, 6 taps, one each ¼×18, ⅝×18, ¾×16, ⅞×16, 1×14 and 1¼×14 right hand, w't 3½ lbs., per set\$10.20
- No. 41**—3 sets of dies, 6 taps, one each ⅜×26, ½×26, ¾×20, ⅞×20, 1×16, 1¼×16 right hand, w't 2 lbs., per set\$9.00
- No. 53**—4 sets of dies, 4 taps, one each ½×32, ⅜×24, ½×20, ⅞×16 right hand, w't 1 lb.per set \$6.60

ONE SET IN A BOX

PIPE STOCK AND DIES



REED'S, Complete with Right Hand Dies.

- All Reed stocks are made of malleable iron, all parts interchangeable, bushings are all machined, handles polished, and the ends carefully rounded.
- No. 0SP**—for pipe ½, ¾, 1 and 1½ in., w't 5½ lbs., per set\$9.80
 - No. 1SP**—For pipe ¾, 1, 1½, 2 and 1 in., w't 13½ lbs., per set\$11.50
 - No. 1½SP**—For pipe 1, 1½ and 2 in., w't 20 lbs., per set\$10.40
 - No. 2SP**—For pipe 1½, 2 and 2 in. with lead screw, w't 27 lbs., per set\$15.90

ONE SET IN A BOX

TAP WRENCHES



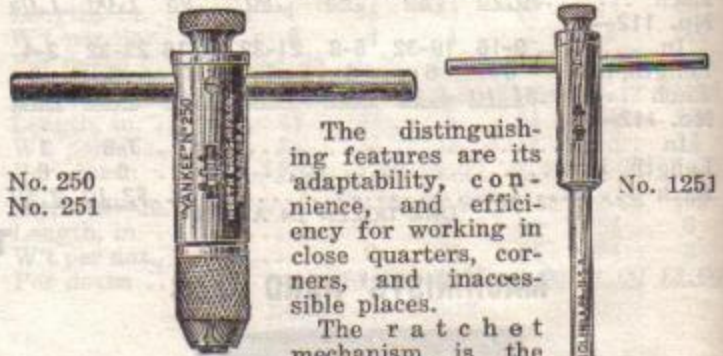
For Hand Taps, Hardened and Tempered Jaws, Ground and Polished Knurled Chuck.

Nos.	07	6	5
For taps	0to14	¾to1½	5to16
W't per doz., lbs.	2½	5	3
Per dozen	\$6.00	12.00	9.00

HALF DOZEN IN A BOX

"YANKEE" RATCHET TAP WRENCH

Right and Left Hand and Rigid



No. 250
No. 251

No. 1251

The distinguishing features are its adaptability, convenience, and efficiency for working in close quarters, corners, and inaccessible places.

The ratchet mechanism is the same construction used in other "Yankee" Tools. With the shifter at top, it is left hand; at bottom, right hand; and in center, rigid, as ordinary Tap wrench.

The crossbar is held central by a friction device and of ample leverage for even larger taps than the chuck will hold.

A knurled thumb piece at top of Wrench affords a ready means of starting in and backing out the tap quickly. In the end of this thumb piece is a countersunk hole to use Tap Wrench on lathe center when desired, for holding small drills, etc.

The cross arm can be readily withdrawn, so that little room is taken up in tool chest or drawer. The ratchet and pawls are made of tool steel, hardened and tempered. The chuck has harden steel jaws.

- No. 250**—Holds up to ⅜ in. Taps, outside diameter of chuck ¾ in., length over all 3½ in., w't per doz. 4½ lbs., per dozen\$30.00
- No. 251**—Holds up to ⅝ in. Taps, outside diameter of chuck 1 in., length over all 3½ in., w't per doz. 6½ lbs., per dozen\$39.60
- No. 1251**—Same as No. 251 except length over all is 13 in. for work in steel cars, etc., and where long reach is necessary, w't per doz. 10½ lbs.per dozen \$50.40

ONE IN A BOX

TAP AND REAMER WRENCHES



Handles made from best steel tubing, capped and knurled, fine steel jaws, gun-metal finish.

Nos.	28	29	42
Length, in.	11	16	21
For taps	⅝ to 1	¾ to 1	1 to 1½
W't per doz., lbs.	9	24	27
Per dozen	\$75.60	86.40	108.00

ONE IN A BOX

PIPE STOCKS AND DIES



No. 2A—Reed's, adjustable, with right hand dies for pipe $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{2}$ and 1 in., w't 18 lbs. per set \$13.20
ONE SET IN A FINISHED HARDWOOD BOX



REED'S, Complete with Right Hand Dies.

No. 2A—For pipe $\frac{1}{2}$, $\frac{3}{4}$, 1 and $1\frac{1}{2}$ in., w't 19 lbs.,
per set \$15.40
No. 3A—For pipe $1\frac{1}{2}$, 1 $\frac{1}{2}$ and 2 in., w't 39 lbs.,
per set \$19.80

ONE SET IN CASE

PIPE DIES



No. 11—Diam. $2\frac{1}{2}$ in., for No. 1 pipe stock and dies $\frac{1}{2}$, $\frac{3}{4}$, 1 and 1 in., w't 1 lb., each \$2.20
No. 11 $\frac{1}{2}$ —Diam. 3 in., for No. 1 $\frac{1}{2}$ pipe stocks and dies $\frac{3}{4}$, 1 and 1 $\frac{1}{2}$ in., w't 1 $\frac{1}{2}$ lbs. each \$2.70
No. 12—Diam. $3\frac{1}{2}$ in., for No. 2 pipe stock and dies $1\frac{1}{2}$, 1 $\frac{1}{2}$ and 2 $\frac{1}{2}$ in., w't 2 lbs. each \$3.80

STOCK AND DIES



These stocks have a positive setting arrangement without the use of any thumb screws or friction clamps of any kind. The dies are controlled by lever handle on top as shown in illustration. By moving this handle to the right as far as it will go, the dies are set and held in place while cutting. One movement of the top lever handle will open or close the dies. No resetting or backing off the threads.

The tool is equipped with adjustable guides which do away with loose bushings. These guides are operated on a scroll and can be set for all sizes the tool will thread. The scroll is constructed so that the guides are held in any position without locking. The more pressure on the ends of the guides, the more solid the locking arrangement. Great pressure on the ends of the guides only tends to lock them more firmly in position.

No. 102—Three sets dies for threading $\frac{1}{2}$, $\frac{3}{4}$, 1 and $1\frac{1}{2}$ in. pipe, w't per set 20 lbs. per set \$20.40
No. 103—Two sets dies for threading 1, $1\frac{1}{2}$, $1\frac{1}{2}$ and 2 in. pipe, w't per set 27 lbs. per set \$26.40
No. 104—Three sets dies for threading $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{2}$, $1\frac{1}{2}$ and 2 in. pipe, w't per set 29 lbs. per set \$30.00
No. 104 $\frac{1}{2}$ —Four sets dies for threading $\frac{1}{2}$, $\frac{3}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{2}$, $1\frac{1}{2}$ and 2 in. pipe, w't per set 30 lbs. per set \$33.60
No. 105—Two sets dies for threading $1\frac{1}{2}$, 2, $2\frac{1}{2}$ and 3 in. pipe, w't per set 62 lbs. per set \$48.00
ONE SET IN A BOX



No. 6—Beaver, threads $\frac{1}{2}$, $\frac{3}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$ in. pipe, without changing dies or bushings. The two sets of dies are operated by a single adjusting handle, simply set to size and the thread may be cut in less time than it takes to change the dies in other tools. Will cut deep or shallow threads, w't per set 12 lbs.,
per set \$24.00



Illustration of No. 25.

No. 25—Beaver, threads 1, $1\frac{1}{2}$, $1\frac{1}{2}$ and 2 in. pipe without changing dies or bushings. Can be instantly adjusted to cut any of the four sizes, w't per set 30 lbs.,
per set \$36.00
No. 26—Beaver Ratchet Stock, threads 1, $1\frac{1}{2}$, $1\frac{1}{2}$ and 2 in pipe without changing dies or bushings. Same construction as No. 25 except has ratchet operation, making it cut easier, w't per set 35 lbs. per set \$42.00

STOCKS AND DIES



These stocks are used in pump installation and repair work to thread the ends of pump rods ready for the couplings.

No. 900—Pump Makers', 15 in. stock with one each $\frac{3}{4} \times 14$, and one $\frac{7}{16} \times 12$ die, w't each $1\frac{3}{4}$ lbs., per set\$6.40

ONE SET IN A BOX



Dies change instantly by pulling the pawl and dropping one die out and inserting another. A simple tool, operates easily.

No. 00—Toledo, ratchet stock with die heads for threading $\frac{1}{2}$, $\frac{3}{4}$, $\frac{5}{8}$, $\frac{1}{2}$ and $\frac{3}{4}$ in. pipe, w't per set 9 lbs., per set\$26.60

ONE SET IN A BOX



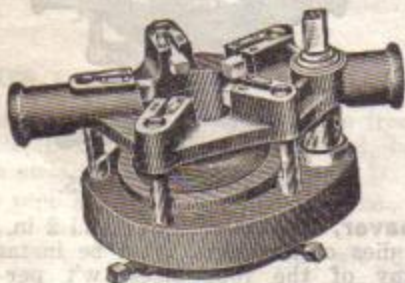
Toledo Adjustable.

No. 0T—Contains 24 in. stock and 3 sets R. H. dies for threading $\frac{1}{2}$, $\frac{3}{4}$, $\frac{5}{8}$, $\frac{1}{2}$ and $\frac{3}{4}$ in. pipe, w't per set 8 lbs., per set\$20.80

ONE SET IN A BOX

EXTRA DIES

No. 5—For No. 0T sizes $\frac{1}{2}$, $\frac{3}{4}$, $\frac{5}{8}$, $\frac{1}{2}$ and $\frac{3}{4}$ in.each \$2.80

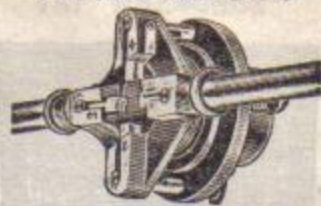


TOLEDO

No. 2—With ratchet, contains stock and four sets R. H. Dies for $2\frac{1}{2}$, 3, $3\frac{1}{2}$ and 4 in. pipe, w't per set 103 lbs., per set\$110.00

ONE SET IN A BOX

STOCKS AND DIES



NO. 1T WITHOUT RATCHET.

No. 1T—Contains stock and 4 sets R. H. dies for threading 1, $1\frac{1}{2}$, $1\frac{1}{2}$ and 2 in. pipe, w't per set 19 lbs., per set\$26.40

One man can easily thread a 2 in. pipe with this tool.

ONE SET IN A BOX

NO. 1A WITH RATCHET.

No. 1A—Contains stock and four sets R. H. dies for threading 1, $1\frac{1}{2}$, $1\frac{1}{2}$ and 2 in. pipe, w't per set 22 lbs., per set\$33.00

ONE SET IN A BOX

EXTRA DIES

No. 10—For Nos. 1T and 1A,
Size 1, $1\frac{1}{2}$ ad $1\frac{1}{2}$ in.each \$2.00
Size 2 in.each \$3.00

No. 1A may be used with two handles as die stock or with one handle inserted in the ratchet case. Desirable for threading pipe down in a trench or against walls, etc. A boy can thread a 2 in. pipe with it.

PIPE TAPS



Nos.	171	172	173	174	176
Size	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{5}{8}$	$\frac{1}{2}$	$\frac{3}{4}$
W't, oz.	$1\frac{1}{2}$	2 $\frac{3}{4}$	3 $\frac{1}{2}$	7 $\frac{1}{4}$	12 $\frac{1}{2}$
Each	\$0.70	.90	1.20	1.40	2.00

Nos.	178	1710	1712	1716
Size	1	$1\frac{1}{2}$	$1\frac{1}{2}$	2
W't, oz.	20 $\frac{1}{2}$	30 $\frac{1}{2}$	47	65
Each	\$3.20	4.00	5.20	8.00

ONE IN A BOX

PIPE REAMERS



Nos.	181	182	183	184	186
Size	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{5}{8}$	$\frac{1}{2}$	$\frac{3}{4}$
W't, oz.	$1\frac{1}{2}$	2 $\frac{3}{4}$	3 $\frac{1}{2}$	6 $\frac{1}{4}$	12
Each	\$0.90	1.10	1.45	1.80	2.50

Nos.	188	1810	1812	1816
Size	1	$1\frac{1}{2}$	$1\frac{1}{2}$	2
W't, oz.	20	29	45	62
Each	\$4.00	4.50	6.00	9.00

ONE IN A BOX

OPENING DIE SCREW PLATES



U. S. S. Thread.

Special attention is called to the opening dies, which are opened or closed by a single movement of lever on side of stock. After thread has been cut a movement of the lever throws the dies open so that the entire tool may be quickly lifted off, thus wasting no time in turning back over finished work. Prevents the marring or stripping of thread caused by chips and also increases the life of die.

- No. 11—26 in. stock, adjustable tap wrench and 5 sizes taper taps, dies and collets cutting $\frac{1}{4} \times 20$, $\frac{5}{16} \times 18$, $\frac{3}{8} \times 16$, $\frac{7}{16} \times 14$ and $\frac{1}{2} \times 13$ U. S. thread, w't per set 11 lbs., per set\$25.90
- No. 22—26 in. stock, adjustable tap wrench and 5 sizes taper taps, dies and collets cutting $\frac{1}{4} \times 20$, $\frac{3}{8} \times 16$, $\frac{1}{2} \times 13$, $\frac{5}{16} \times 11$ and $\frac{3}{8} \times 10$ V U. S. thread, w't per set 18 lbs., per set\$32.00
- No. 55—26 in. stock, adjustable tap wrench and 7 sizes taper taps, dies and collets cutting $\frac{1}{4} \times 20$, $\frac{5}{16} \times 18$, $\frac{3}{8} \times 16$, $\frac{7}{16} \times 14$, $\frac{1}{2} \times 13$, $\frac{5}{8} \times 11$ U. S. thread, w't per set 18 lbs., per set\$38.50
- No. 77—26 in. stock, adjustable tap wrench and 9 sizes taper taps, dies and collets cutting $\frac{1}{4} \times 20$, $\frac{5}{16} \times 18$, $\frac{3}{8} \times 16$, $\frac{7}{16} \times 14$, $\frac{1}{2} \times 13$, $\frac{5}{8} \times 11$, $\frac{3}{4} \times 10$, $\frac{7}{8} \times 9$ and 1×8 U. S. thread, w't per set 27 lbs.per set \$58.80

EACH SET IN A HANDSOME HARDWOOD CASE

RUSSELL SCREW PLATES



Hardwood case nicely finished. Dies are made double reversible so they will cut from either face. The dies, when reversed, bring the new set of cutting edges into action, thus making one die last as long as two of the old style.

- No. 1R— $\frac{1}{4}$ to $\frac{1}{2}$ in., 5 sizes, contains 15 in. stock, tap wrench, bit brace attachment, 5 taps and dies cutting $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$ and $\frac{1}{2}$ in., U. S. S. bolt size, w't per set 9 lbs.per set \$23.30
- No. 2R— $\frac{1}{4}$ to $\frac{3}{4}$ in., 5 sizes, contains 23 in. stock, tap wrench, bit brace attachment, 5 taps and dies cutting $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{3}{4}$ in. U. S. S. bolt sizes, w't per set 17 lbs., per set\$28.60
- No. 4R— $\frac{1}{4}$ to 1 in., 5 sizes, contains 26 in. stock, tap wrench, 5 taps and dies cutting $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$ and 1 in. U. S. S. bolt sizes, per set 20 lbs.per set \$36.80
- No. 5R— $\frac{1}{4}$ to $\frac{3}{4}$ in., 7 sizes, contains 23 in. stock, tap wrench, bit brace attachment, 7 taps and dies cutting $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ and $\frac{3}{4}$ in. U. S. S. bolt sizes, w't per set 20 lbs.per set \$34.60

RUSSELL SCREW PLATES

Hardwood case nicely finished. Dies are made double reversible so they will cut from either face. The dies, when reversed, bring the new set of cutting edges into action, thus making one die last as long as two of the old style.



- No. 7R— $\frac{1}{4}$ to 1 in., 9 sizes, contains 26 in. stock, tap wrench, bit brace attachment, 9 taps and dies cutting $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{3}{4}$, $\frac{7}{8}$ and 1 in. U. S. S. bolt sizes, w't per set 27 lbs.per set \$52.90

RUSSELL AUTOMOBILE SCREW PLATES



- No. 108 $\frac{1}{2}$ — $\frac{1}{4}$ to $\frac{3}{4}$ in., 16 sizes, contains one each 15 in. and 23 in. stock, two tap wrenches, bit brace attachment, 8 taps and dies cutting $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$ and $\frac{7}{8}$ in. U. S. S. bolt sizes, 8 taps and dies cutting $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{5}{8}$ and $\frac{3}{4}$ in. S. A. E. bolt sizes, w't per set 31 lbs., per set\$70.60



- No. 215—Contains two stocks $6\frac{1}{2}$ and 14 in. long, and two adjustable Tap Wrenches. 23 Taps and Dies Cutting Machine Screw. Sizes 2x56, 3x48, 4x36, 6x32, 8x32, 10x24, 12x24, 14x20, 16x18, 18x16. U. S. Standard Thread $\frac{7}{16} \times 24$, $\frac{1}{2} \times 20$, $\frac{5}{16} \times 18$, $\frac{3}{8} \times 16$, $\frac{7}{16} \times 14$ and $\frac{1}{2} \times 13$. S. A. E. Sizes $\frac{1}{2} \times 28$, $\frac{5}{16} \times 24$, $\frac{3}{8} \times 24$, $\frac{7}{16} \times 20$, $\frac{1}{2} \times 20$, $\frac{5}{16} \times 18$ and $\frac{3}{8} \times 18$. Diameter of small dies $1\frac{1}{16}$ in., diameter of large dies $1\frac{1}{2}$ in., w't per set 12 lbs., each\$38.40

ONE SET IN A NICELY FINISHED CASE

SCREW PLATES



No. 152.

GREEN RIVER, oiled hardwood case.

No. 156—With stock, tap wrench—fitting in stock—and 5 sizes taps, dies and guides, sizes $\frac{1}{2} \times 40$, $\frac{5}{16} \times 32$, $\frac{3}{16} \times 24$, $\frac{7}{16} \times 24$ and $\frac{1}{2} \times 20$, stock 6 in. long, diameter of dies $\frac{3}{8}$ in., w't per set 1 $\frac{1}{2}$ lbs.per set \$14.00

No. 152—With stock, tap wrench—fitting in stock—and 7 sizes taps, dies and guides, sizes $\frac{7}{16} \times 56$, $\frac{1}{2} \times 40$, $\frac{9}{16} \times 40$, $\frac{5}{16} \times 32$, $\frac{3}{16} \times 24$, $\frac{7}{16} \times 24$ and $\frac{1}{2} \times 20$, stock 6 in. long, diameter of dies $\frac{3}{8}$ in., w't per set 1 $\frac{3}{4}$ lbs.per set \$18.00



GREEN RIVER, oiled, hardwood case, U. S. S. thread.

Do the work in a single cut. Die is adjustable for wear and to make bolts or nuts fit tightly or loosely as desired.

No. 5002—With stock, adjustable tap wrench and 5 sizes taps, dies and guides, sizes $\frac{1}{2} \times 20$, $\frac{3}{8} \times 16$, $\frac{1}{2} \times 13$, $\frac{3}{8} \times 11$, $\frac{1}{2} \times 10$, stock 22 in. long, diameter of dies $2\frac{1}{16}$ in., w't per set 14 lbs.\$30.30

No. 5005—With stock, adjustable tap wrench and 7 sizes taps, dies and guides, sizes $\frac{1}{2} \times 20$, $\frac{5}{16} \times 18$, $\frac{3}{8} \times 16$, $\frac{7}{16} \times 14$, $\frac{1}{2} \times 13$, $\frac{3}{8} \times 11$ and $\frac{1}{2} \times 10$, stock 22 in. long, diameter of dies $2\frac{1}{16}$ in., w't per set 16 lbs.per set \$36.60

No. 5007—With stock, adjustable tap wrench and 9 sizes taps, dies and guides, sizes $\frac{1}{2} \times 20$, $\frac{5}{16} \times 18$, $\frac{3}{8} \times 16$, $\frac{7}{16} \times 14$, $\frac{1}{2} \times 13$, $\frac{3}{8} \times 11$, $\frac{1}{2} \times 10$, $\frac{1}{2} \times 9$, $\frac{1}{2} \times 8$, stock 29 in. long, diameter of dies 2 $\frac{1}{16}$ in., w't per set 29 lbs.per set \$56.00



GREEN RIVER, for Automobile Use, Oiled Hardwood Case, S. A. E. Thread.

No. 5031—With stock, adjustable tap wrench and 5 sizes taps, dies and guides, sizes $\frac{1}{2} \times 28$, $\frac{5}{16} \times 24$, $\frac{3}{8} \times 24$, $\frac{7}{16} \times 20$, $\frac{1}{2} \times 20$, stock 18 in. long, w't per set 11 lbs., per set\$24.60

No. 5037—With stock, adjustable tap wrench and 11 sizes taps, dies and guides, sizes $\frac{1}{2} \times 28$, $\frac{5}{16} \times 24$, $\frac{3}{8} \times 24$, $\frac{7}{16} \times 20$, $\frac{1}{2} \times 20$, $\frac{5}{16} \times 18$, $\frac{3}{8} \times 18$, $1\frac{1}{16} \times 16$, $\frac{1}{2} \times 16$, $\frac{3}{8} \times 14$ and 1×14 , stock 22 in long, w't per set 22 lbs.\$64.30



No. 1470—Automobile, with stock and 7 sizes round adjustable dies and plug taps, sizes $\frac{1}{2} \times 28$, $\frac{5}{16} \times 24$, $\frac{3}{8} \times 24$, $\frac{7}{16} \times 20$, $\frac{1}{2} \times 20$, $\frac{5}{16} \times 18$ and $\frac{3}{8} \times 18$, S. A. E. standard thread, complete in handsome leather roll, w't 3 $\frac{1}{2}$ lbs., per set\$27.30

THE EASY



Champion Easy Combination

Champion Easy combination. These sets are well made, are put up in a nicely finished case and are especially suitable for garage repair work.

No. 111—Contains one 15 $\frac{1}{2}$ in. stock, one adjustable tap wrench, 10 taps and dies cutting $\frac{1}{2} \times 20$, $\frac{5}{16} \times 18$, $\frac{3}{8} \times 16$, $\frac{7}{16} \times 14$, $\frac{1}{2} \times 13$, U. S. Standard Threads and $\frac{1}{2} \times 28$, $\frac{5}{16} \times 24$, $\frac{3}{8} \times 24$, $\frac{7}{16} \times 20$, $\frac{1}{2} \times 20$, S. A. E. Standard Threads, w't per set 11 lbs.per set \$25.20

No. 15—Contains two stocks 15 $\frac{1}{2}$ and 23 in. long, one adjustable tap wrench, 16 taps and dies cutting $\frac{1}{2} \times 20$, $\frac{5}{16} \times 18$, $\frac{3}{8} \times 16$, $\frac{7}{16} \times 14$, $\frac{1}{2} \times 13$, $\frac{5}{16} \times 12$, $\frac{3}{8} \times 11$, $\frac{1}{2} \times 10$, U. S. Standard Threads and $\frac{1}{2} \times 28$, $\frac{5}{16} \times 24$, $\frac{3}{8} \times 24$, $\frac{7}{16} \times 20$, $\frac{1}{2} \times 20$, $\frac{5}{16} \times 18$, $5-18 \times 18$, $\frac{3}{8} \times 16$, S. A. E. Standard Threads, w't per set 21 lbs.per set \$48.40

SCREW PLATES

These taps and dies make perfect threads at one cut. The claim for the adjustable dies is its solidity, the impossibility of stripping of threads, its perfect adjustment, its simplicity, durability and strength, doing away with all taper-pointed and cup-headed screws, common in many makes of dies. U. S. Standard threads always furnished unless otherwise specified.



Sectional view of die and collet.



Split die.



G. T. D.

G. T. D., adjustable round dies 13-16 inch in diameter, with stock 6 1/2 in. long, tap wrench is made by inserting adjustable socket in stock.

- No. 5D—5 taps, 5 dies cutting 4-36, 6-32, 8-32, 10-24, 12-24, 14-20, w't per set 1 1/2 lbs. per set \$10.70
 - No. 5DD—5 taps, 5 dies, cutting 1/2-40, 5/32-32, 3/16-24, 1/4-24, 1-20, w't per set 1 1/2 lbs. per set \$10.70
 - No. 6D—6 taps, 6 dies, cutting 4-36, 6-32, 8-32, 10-24, 12-24, 14-20, w't per set 1 1/2 lbs. per set \$12.00
 - No. 6DD—6 taps, 6 dies, cutting 1/2-40, 5/32-32, 3/16-24, 1/4-24, 1-20, 3/32-20, w't per set 1 1/2 lbs., per set... \$12.00
- 20 dies in Nos. 5D and 6D are machine screw thread.



- No. 2—“Little Giant,” 14 1/2 in. stock, 5 taper taps, 5 dies, 2 in. collets, 10 1/2 in. adjustable tap wrench, cutting 1-20, 3/8-18, 1/2-16, 5/16-14, 3/4-13, w't per set 7 1/2 lbs., per set \$24.60
- No. 3—“Little Giant,” 23 in. stock, taper taps, dies, 15 in. adjustable tap wrench, 2 1/2 in. collets.
- No. 5—7 taps, 7 dies, cutting 1-20, 5/16-18, 3/8-16, 7/16-14, 1-11, 1-11, 1-10, w't per set 19 1/2 lbs. per set \$36.60



- No. 4—“Little Giant,” one 14 1/2 in. stock, one 26 in. stock, 15 in. adjustable tap wrench, 7 taper taps, 7 dies, cutting 1-20, 5/16-18, 3/8-16, 7/16-14, 1-13, 1-11, 1-10, w't per set 29 lbs. per set \$40.00
 - No. 6—“Little Giant,” one 14 in. stock, one 29 in. stock, one 26 in. and one 20 in. adjustable tap wrench, 9 taper taps, 9 dies, cutting 1-20, 5/16-18, 3/8-16, 7/16-14, 1-13, 1-11, 1-10, 1-8, 1-8, w't per set 27 lbs. per set \$58.00
- Collets for four smaller sizes 2 in. in diameter, for larger sizes 1 1/2 in. in diameter.

CHAMPION EASY.

All U. S. S. thread.



No. 1B—15 1/2 in. stock, adjustable tap wrench, 5 taper taps and dies, cuts 1/2x20, 5/16x18, 3/8x16, 7/16x14 and 1/2x13, w't per set 8 lbs. per set \$16.20

No. 2B—Two stocks, 15 1/2 and 23 in. long, adjustable tap wrench, 5 taper taps and dies, cuts 1/2x20, 3/8x16, 1/2x13, 3/4x11 and 1x10, w't per set 14 lbs. per set \$21.30



No. 5B—Two stocks, 15 1/2 and 23 in. long, adjustable tap wrench, 7 taper taps and dies, cut 1/2x20, 5/16x18, 3/8x16, 7/16x14, 1/2x13, 3/4x11 and 1x10, w't per set 16 lbs., per set \$25.20



Simple in construction, neat in design. Die adjusted by use of taper, head screw with taper nut, thus being braced on both sides of die making it rigid and solid. Well made and guaranteed.

No. 7B—Two stocks, 15 1/2 and 26 in. long, adjustable tap wrench, 9 taps and dies, cuts 1/2x20, 5/16x18, 3/8x16, 7/16x14, 1/2x13, 3/4x11, 1x10, 1x9 and 1x8, w't per set 20 lbs., per set \$37.20

BIT BRACES

CVB BALL BEARING RATCHET

Nickel plated, ball bearing, metal clad cocobola head and handle, adjustable handle collars, spindle and chuck body made from one piece of steel.



Alligator pattern, toothed forged steel jaws, anti-friction washer, knurled thimble ratchet adjustment and swell-end chuck.

No. 1908 CVB—Sweep, in.	6	8	10	12	14
W't, doz., lbs.	33	35	38	41	43
Per dozen	\$70.00	70.70	71.70	74.00	76.00

Extra Jaws per dozen \$8.00

TWO IN A BOX



Universal jaws holding square, taper or round shank drills up to 3/4 in. diameter, ball bearing chuck sleeve with case hardened hood.

No. 1914 CVB—Sweep, in.	8	10	12	14	16
W't, doz., lbs.	40	42	45	48	51
Per dozen	\$86.30	87.70	89.90	92.00	97.20

Extra Jaws per dozen \$9.00

TWO IN A BOX

CVB CORNER



Power is applied by milled steel bevel gears. Gearing is fully enclosed by metal caps.

Nickel plated steel frame, sweep and chuck, metal clad cocobola head, cocobola handle, drop forged steel jaws, length 18 1/2 inches.

No. 55 CVB—Sweep, in.	8	10
W't, doz., lbs.	48	52
Per dozen	\$103.70	113.20

HIBBARD RATCHET



Nickel plated steel shank, extra knurled steel sleeve, metal clad cocobola head and handle, forged steel jaws, anti-friction washer above chuck.

Nos.	33	32	31
Sweep, in.	8	10	12
W't, doz., lbs.	27	31 1/2	33
Per dozen	\$60.00	61.50	63.60

Extra Jaws per dozen \$5.00

HALF DOZEN IN A BOX

REVONOC RATCHET



Nickel plated steel shank and sleeve, stained head and handle, steel jaws.

Nos.	Nickel Plated.			Polished.		
	1008	1010	1012	2608	2610	2612
Sweep, in.	8	10	12	8	10	12
W't, doz., lbs.	27	29	33	27	27 1/2	30
Per dozen	\$42.50	43.00	43.60	37.20	37.70	38.40

Extra Jaws per dozen \$4.50

HALF DOZEN IN A BOX

REVONOC PLAIN



Steel shank and sleeve, stained head and handle, steel jaws.

Nos.	Nickel Plated.		Polished.		
	208	210	2308	2310	2312
Sweep, in.	8	10	8	10	12
W't, doz., lbs.	21	23	22	24 1/2	28
Per dozen	\$27.00	27.60	21.60	22.10	22.70

Extra Jaws per dozen \$4.50

HALF DOZEN IN A BOX

STANLEY'S BALL BEARING RATCHET



Nickel plated steel shank and sleeve, metal clad cocobola ball bearing head, cocobola handle forged steel, alligator jaws, concealed ratchet.

No. 321—

Sweep, in.	8	10
W't per doz., lbs.	33	37
Per dozen	\$73.40	74.90

Sweep, in.	12	14
W't per doz., lbs.	40	42
Per dozen	\$77.70	80.30

Extra Jawsper dozen \$8.00
HALF DOZEN IN A BOX

STANLEY'S UNIVERSAL BALL BEARING RATCHET



Full nickel plated, metal clad, ball bearing cocobola heads.

Universal jaws for both wood and metal workers, holds round shank bits and drills 1/2 to 3/4 in., and taper shank as large as No. 2 Clark's expansive bit, concealed ratchet.

No. 311—

Sweep, in.	8	10	12	14
W't doz., lbs.	36	40	44	46
Per dozen	\$86.00	87.50	90.00	92.00

TWO IN A BOX

SAMSON BALL BEARING RATCHET



Nickel plated steel shank and fittings, ball bearing metal clad cocobola head, cocobola handle, Samson ball bearing milled chuck, holding round shank, bits or drills, forged steel alligator jaws.

No. 8008B 8010B 8012B 8014B

Sweep, in.	8	10	12	14
W't doz., lbs.	37	41	44	46
Per dozen	\$87.00	88.60	90.60	92.70

Extra Jawsper dozen \$9.00
TWO IN A BOX

BIT BRACES

PECK'S BALL BEARING RATCHET



Nickel plated steel shank and sleeve, metal clad cocobola ball bearing head, head, cocobola handle, forged steel jaws.

Nos. 7008 7010 7012 7014

Sweep, in. ...	8	10	12	14
W't doz., lbs.	35	39 1/2	41	43
Per dozen	\$71.20	72.80	74.90	77.00

Extra Jawsper dozen \$8.00
TWO IN A BOX

PEXTO BALL BEARING RATCHET



Full nickel plated, steel shank and knurled sleeve, open ratchet, alligator jaws, metal clad head with ball bearing cup and washer, head and handle ebonized finish.

Nos. 5308 5310 5312

Sweep, in.	8	10	12
W't per doz., lbs. ...	29	32	34
Per dozen	\$49.30	50.60	52.20

HALF DOZEN IN A BOX

FRAY'S BALL BEARING RATCHET



Nickel plated steel shank and fittings, cocobola metal clad head, ball bearing, cocobola handle.

Adjustable to square and round shank bits 1/2 in. and larger.

Nos. 66 86 106

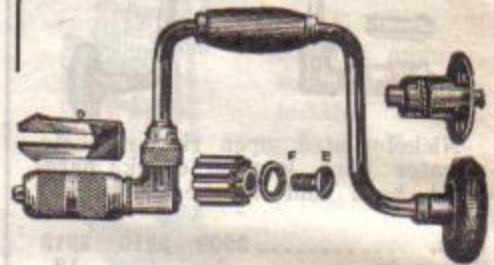
Sweep, in.	6	8	10
W't doz., lbs.	25	29	32
Per dozen	\$69.00	69.20	70.70

Nos. 126 146

Sweep, in.	12	14
W't per doz., lbs.	40	42
Per dozen	\$72.60	74.80

Extra Jawsper dozen \$9.00
HALF DOZEN IN A BOX

MILLERS FALLS BALL BEARING RATCHET



Full nickel plated, ball bearing head, cocobola head and handle. Has the Hold All Chuck which takes bit stock shanks and round shanks. 1/2 to 3/4 in. in diameter, also No. 1 Morse taper shanks. This is one of the most popular numbers.

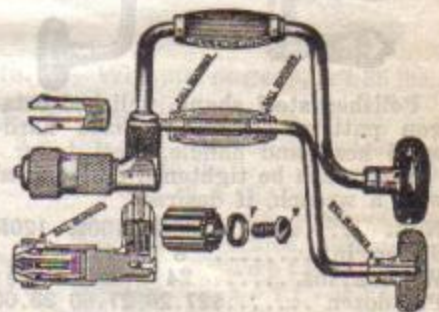
Nos. 733 732 731 730

Sweep, in. ...	8	10	12	14
W't doz., lbs.	37 1/2	42	44	51
Per dozen	\$76.00	76.70	80.80	83.40

TWO IN A BOX

Extra Jawsper dozen \$8.00

Millers Falls Ratchet Braces.



Full nickel plated, metal clad, ball bearing cocobola head and handle. Has the Lion ball bearing chuck which takes bit stock shanks, and round shanks from 1/2 to 3/4 in. in diameter, also No. 1 Morse Taper shanks. This chuck makes it possible to lock any style shank with a tremendous grip. All ball bearing parts including the ratchets have rust proof coverings.

Nos. 827 871 870

Sweep, in.	10	12	14
W't, doz., lbs.	45	48	53
Per dozen ...	\$106.40	111.00	113.70

TWO IN A BOX

Extra Jawsper dozen \$8.00

PEXTO RATCHET BIT BRACES



Nickel plated, open ring ratchets, alligator jaws, knurled chuck, hardwood head and handle, mahogany finish.

Nos.	3908	3910	3912
Sweep, in.	8	10	12
W't doz., lbs.	26	27	28
Per dozen	\$36.50	37.00	37.80



Nickel plated, open ratchet, alligator jaws, knurled sleeve, half clad head, nicely finished.

Nos.	3908	3910	3912
Sweep, in.	8	10	12
W't doz., lbs.	26	28	29
Per dozen	\$42.90	43.40	44.00

CRUSO BIT BRACES



Polished steel shank, polished octagon pattern sleeve, ebonized hardwood head and handle, steel jaws.

Sleeve can be tightened or loosened with a wrench, if desired.

Nos.	80R	100R	120R
Sweep, in.	8	10	12
W't doz., lbs.	24	26	29½
Per dozen	\$27.20	27.60	28.00
Extra Jaws	per dozen \$3.00		



PLAIN

Polished steel shank, polished octagon pattern sleeve, ebonized hardwood head and handle, steel jaws.

Sleeve can be tightened or loosened with a wrench, if desired.

Nos.	8P	10P	12P
Sweep, in.	8	10	12
W't per doz., lbs.	20½	23	25
Per dozen	\$15.30	15.70	16.10
Extra Jaws	per dozen \$3.00		

HALF DOZEN IN A BOX

SPOFFORD'S PLAIN BIT BRACES



Nickel plated steel shank, split socket, with thumb screw, cocobola head and handle.

Nos.	108	110	112
Sweep, in.	8	10	12
W't doz., lbs.	19	20½	21½
Per dozen	\$60.00	63.60	66.00

HALF DOZEN IN A BOX

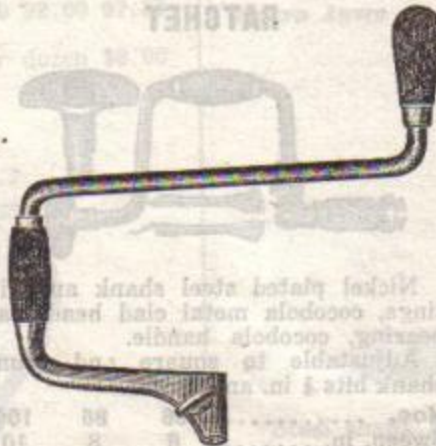
COMMON BALL BIT BRACES



No. 30—Plain, 10 in. sweep, bright steel shank, malleable bit socket, with thumb screw, beechwood head and handle, w't per doz. 12 lbs., per dozen

HALF DOZEN IN A BOX

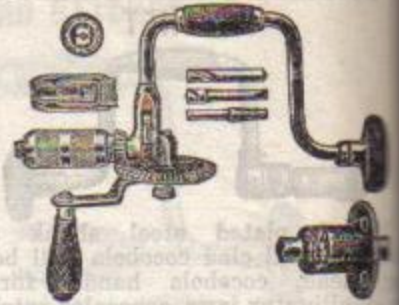
WHIMBLE BIT BRACES



No. 12W—12 in. sweep, nickel plated steel shank, Cocobolo Handles, split socket with thumb screw, for millwright, ship carpenters, etc., w't per doz. 33 lbs. per dozen \$60.00

HALF DOZEN IN A BOX

MILLERS FALLS DRILLS



The gear wheel can be removed leaving a ratchet brace. The jaws are forged steel and will center and firmly round twist drills from ¼ in. diameter, also tool shanks of any size or shape.

No. 182—10 in. sweep, nickel plated steel bow and chuck, light metal ball bearing head, rosewood handle, detachable gear for use as a drill per dozen

ONE IN A BOX. WT 57 LBS. PER DOZEN

SILL BORERS



No. 051—Miller's Falls, jappanned malleable iron frame, length 15 in. per doz. 40 lbs. per dozen \$84.00

ONE IN A BOX

UNIVERSAL AUGER BIT STOCK



No. 108—Length 12 in., jappanned with nickel plated trimmings, for use as bit brace or breast drill, for drilling at an angle. Has Master Chuck which takes bit stock and taper shanks, also round shank drills from ¼ to ½ in. in diameter. Angle of boring can be adjusted to any position from 180 degrees to 125 degrees, w't per doz. 26 lbs. per dozen \$60.00

ONE IN A BOX

CHAIN DRILL ATTACHMENTS



No. 73 CVD—Automatic feed, knurled bit brace chuck, for square or round shank drills, japanned frame, polished chuck, w't per doz. 33 lbs., per dozen \$80.00
ONE IN A BOX

No. 75 CVD—Plain chuck for 1/2 round shank drills, japanned frame, polished chuck, semi-automatic feed, w't per doz. 27 lbs., per dozen \$32.00



No. 77 CVD—Plain chuck, for bit stock drills, japanned frame, polished chuck, semi-automatic feed, w't per doz. 27 lbs., per dozen \$32.00

No. 79 CVD—Knurled bit brace chuck, for square or round shank drills, japanned frame, polished chuck, semi-automatic feed, w't per doz. 33 lbs., per dozen \$64.00

CHAIN DRILL ATTACHMENTS

Wonder.

No. 10A—Plain socket, polished, for 1/2 in. round straight shank drills, w't per doz. lbs., per dozen \$26.40

No. 11B—Plain socket, polished for bit stock drills, w't per doz. lbs., per dozen \$26.40

No. 12C—Brace chuck, nickel plated, for bit stock drills, and 1/2 to 1/2 in. round shank drills, w't per doz. lbs., per dozen \$42.00

ONE IN A BOX



YANKEE



No. 500—Two jaw chuck, polished and nickel plated, length 3 1/2 in., with hexagon to use wrench in tightening large drills. Drop forged steel jaws, alligator pattern, chuck holds up to 1/2 in. drills with square shanks, length over all 10 1/2 in., w't per doz. 40 lbs., per dozen \$.....

ONE IN A BOX

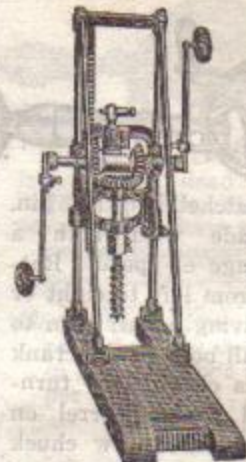
YANKEE



No. 1500—Three jaw chuck, polished and nickel plated, length 2 1/2 in., diam. 1 1/2 in., tool steel jaws, chuck holds up to 1/2 in. round shank drills only, length over all 9 1/2 in., w't, per doz., 39 lbs. Per dozen \$.....

ONE IN A BOX

BORING MACHINES



MILLER'S FALLS, angular, steel frame, adjustable depth gauge, self-withdrawing auger, extension crank.

No. T4—Without augers, w't 40 lbs., each\$30.00
No. T14—With one each No. 12, 1, 1 1/2 and 2 in. cast steel ball bearing augers, wt 45 lbs., each\$38.00
ONE IN A CASE



Upright, wood frame, adjustable depth gauge, self-withdrawing auger.

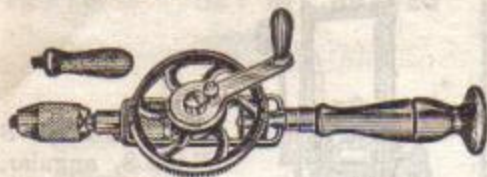
No. T5—Without augers, w't 35 lbs., each\$14.70
No. T15—With one each, 1, 1 1/2 and 2 in. No. 128 cast steel ball bearing augers, w't 40 lbs.each \$22.00
ONE IN A CRATE



Angular, wood frame, adjustable depth gauge, self-withdrawing auger.

No. T2—Without augers, w't 33 lbs., each\$15.40
No. T12—With one each, 1, 1 1/2 and 2 in. No. 128 cast steel ball bearing augers, w't 45 lbs.each \$23
ONE IN A CRATE

HAND DRILLS



No. 190—Ratchet, length 15½ in. Large size made with both a ratchet and change of speed. Ratchet is shifted from left to right or vice versa by giving a half turn to the cap of a small boss on the crank handle. Speed is changed by turning the knurled thumb barrel on drill shaft. Has three jaw chuck holding round shank drills up to ½ in. in diameter. The hollow end handle is detachable and holds drills up to capacity of chuck, no drills are included. Malleable iron frame black japanned, drive wheel is blue, other parts nickel plated, w't per doz. 40 lbs.per dozen \$.....

ONE IN A BOX

HIBBARD HAND DRILL



No. 192—Length 11½ in., has a solid steel frame with a detachable side handle and hollow end with screw cap, single gear, springless three jaw chuck which takes drills up to ⅝ in., no drills included, large gear is blue, other metal parts nickel plated, w't per doz. 18 lbs., per dozen \$.....

ONE IN A BOX

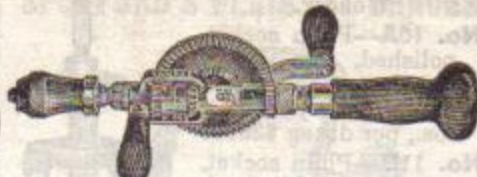
HAND DRILLS



No. 1430—Length 10½ in., malleable iron frame, dead block finish, 3 jaw chuck holding round shank drills up to ⅝ in. in diameter, hardwood handle, nickel plated trimmings, w't per dozen 15 lbs. ...per dozen \$60.00

ONE IN A BOX

HAND DRILLS



YANKEE, two speed malleable iron frame, dead black finish, ball bearing detachable handle for holding drills, nickel plated chuck holding drills up to ⅝ in., can be changed from single to double speed by means of shifter on frame, length 15½ in.

No. 445—2 jaw chuck, w't per doz. 42 lbs.per dozen \$108.00

No. 1445—3 jaw chuck, w't per doz. 42 lbs.per dozen \$108.00

ONE IN A BOX



YANKEE, two speed, malleable iron frame, finished in dead black, bright parts nickel plated and polished, length 16½ in., with right and left hand ratchet movement, chuck holds either square or round, shank drills or other tools up to ½ in., detachable and hollow handles instead of breast plate, which can be held in hand or against body and which can be used as a magazine for holding drills.

No. 545—2 jaw chuck, w't per doz. 52 lbs.per dozen \$160.80

No. 1545—3 jaw chuck, w't per doz., 52 lbs.per dozen \$160.80

ONE IN A BOX



No. 980—Miller's Falls, malleable iron frame, length 15½ in., stained hardwood handles, nickel plated trimmings double speed, which can be instantly changed without removing bit from work, detachable hollow end handle, with receptacle for holding twist drills, 3 jaw chuck holding round shank drills up to ⅝ in. diameter, w't per doz. 42 lbs., per dozen\$88.60

ONE IN A BOX

HAND DRILLS



By means of the ratchet this drill can be used as a plain, left hand or right hand or double ratchet drill. **No. 1530**—Yankee, malleable iron frame, dead black finish, 3 jaw steel chuck, nickel plated, holding drills up to ⅝ in. in diam., single speed, extreme length 10½ in., 3 in. driving wheel, w't per doz. 17 lbs., per dozen\$84.00

ONE IN A BOX



No. 1—Miller's Falls, single gear, length 12 in., malleable iron frame, cocobola hollow head and handles, nickel plated chuck, 8 cast steel drills enclosed in head, holds ⅝ in. round shank drills, w't per doz. 22 lbs.per dozen \$57.80

Extra Drills, sizes ⅜ to ¾, per dozen\$1.20

Extra Drills, sizes ⅜ to ¾, per set of 8\$0.90

ONE IN A BOX



No. 5—Miller's Falls, double gear, length 11½ in., malleable iron frame, cocobola hollow head and handles, nickel plated chuck, 8 cast steel drills enclosed in handle, holds ⅝ in. round shank drills, w't per doz. 24 lbs.per dozen \$61.00

Extra Drills, sizes ⅜ to ¾, per dozen\$1.20

Extra Drills, sizes ⅜ to ¾, per set of 8\$0.90

ONE IN A BOX



No. 2—Miller's Falls, single gear, length 15 in., malleable iron frame, cocobola hollow head and handles, nickel plated chuck, 8 cast steel drills enclosed in handle, holds ⅝ in. round shank drills, ball bearing, w't per doz. 28 lbs., per dozen \$66.00

Extra Drills, sizes ⅜ to ¾, per dozen\$1.20

Extra Drills, sizes ⅜ to ¾, per set of 8\$0.90

ONE IN A BOX

HAND DRILLS



No. 41—Yankee, drill point revolves backward in upward movement of handle to clear chips. Has magazine for drill points in handle, nickel plated and polished, eight drill points $\frac{1}{8}$ to $1\frac{1}{4}$ with each drill, length 11 $\frac{1}{2}$ in., w't per doz. 7 lbs., per dozen\$41.80
ONE IN A BOX

Extra Springs, for No. 41, per dozen\$2.50

Extra Drills, for Nos. 41 and 44, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $1\frac{1}{4}$, per set\$1.20
ONE SET IN A BOX

Extra Drills, for Nos. 41 and 44, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $1\frac{1}{4}$, per dozen\$1.80
DOZEN IN A PACKAGE



No. 44—Yankee, has spring with adjustable tension to regulate strength suitable for difference in hard and soft woods, or for large and small drill points. The cap on end of drill has a screw by which spring is made weaker or stronger. Has magazine drill points and is nickel plated and polished. Eight drill points $\frac{1}{8}$ to $1\frac{1}{4}$ with each drill. Length 11 $\frac{1}{2}$ in. per dozen \$50.30
ONE IN A BOX



For use in drilling in steel, iron, brass and other metals as well as wood.

Is constructed that the drill runs continuously to the right during both forward and backward movement of the driver. The pressure to feed the drill is had by the pressure against the head of the tool which is provided with ball bearings to reduce friction.

No. 51—Yankee, reciprocating, polished steel spindle, polished hardwood handle, ball bearing, nickel plated knurled chuck with 3 jaws holding $\frac{1}{8}$ in. drills or smaller, length 15 in., w't per doz. 12 $\frac{1}{2}$ lbs., per dozen\$63.30
ONE IN A BOX



No. 52—Yankee, for light wood only, automatic, length 10 $\frac{1}{2}$ in., nickel plated and finely finished, hardwood handle, 3 cast steel drills, $\frac{3}{16}$, $\frac{1}{4}$, and $\frac{5}{16}$, not adapted to larger size drills, w't per doz. 2 $\frac{1}{2}$ lbs., per dozen\$20.90
ONE IN A BOX

BREAST DRILLS



No. 80—Yankee—Two speed, universal chuck holding square, taper or round shank, drills up to $\frac{1}{2}$ in. diameter, finished in blue and gold enamel, nickel plated trimmings, ebonized handles, w't per doz. 66 lbs., per dozen\$74.70
ONE IN A BOX



No. 81—Yankee—Breast plates, two speed, universal chuck holding square, taper or round shank, drills up to $\frac{1}{2}$ in. in diameter, has level set in frame, also a latch for holding chuck while tightening drills, finished in blue and gold enamel, nickel plated trimmings, cocobola handles, w't per doz. 60 lbs., per dozen\$96.00
ONE IN A BOX



No. 19—Ball bearing, alligator jaws. 5 in. drive wheel, adjustable speed gear and crank, permitting a variation in length of 3 in., black japanned hub casing, aluminum bronze gear and breast plate, w't per doz. 72 lbs.per dozen \$73.70
ONE IN A BOX



MILLER'S FALLS, with level glass, japanned iron frame, nickel plated chuck for round or square shank drills, 2 speeds, extension crank, 2 cocobola handles, length 17 in.
No. 12—Breast plates, w't per doz. 72 lbs.per dozen \$94.20
No. 15—Iron D handles, w't per doz. 72 lbs.per dozen \$94.20
ONE IN A BOX

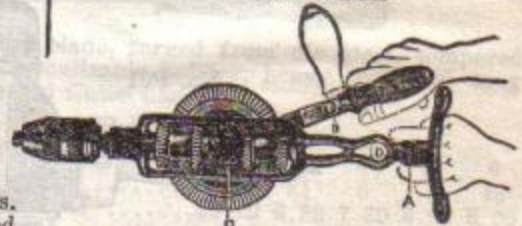
BREAST DRILLS



YANKEE, two speeds, malleable iron frame, dead black finish, ball bearing, length 17 $\frac{1}{2}$ in.
No. 455—2 Jaw chuck for holding round or square shank drills up to $\frac{1}{2}$ in. in diameter, w't per doz. 72 lbs.per dozen \$124.80
No. 1455—3 Jaw chuck for holding round shank drills only up to $\frac{1}{2}$ in. in diameter, w't per doz. 72 lbs., per dozen\$124.80
ONE IN A BOX



No. 1555
YANKEE, two speed, malleable iron frame, finished in dead black, bright parts nickel plated and polished, length 18 in., with right and left hand ratchet.
No. 555—2 Jaw chuck for holding round or square shank drills up to $\frac{1}{2}$ in. in diameter, w't per doz. 78 lbs.per dozen \$184.80
No. 1555—3 Jaw chuck for holding round shank drills only up to $\frac{1}{2}$ in. in diameter, w't per doz. 78 lbs., per dozen\$184.80
ONE IN A BOX



No. 97—M. F. Co. ratchet construction, five different actions, speed instantly changed by moving knob on crank handle, handle is adjustable for use as crank or as straight lever for ratchet action, three jaw chuck for holding round shank drills up to $\frac{1}{2}$ in. diameter, malleable frame japanned and nickel trimmed, w't doz. 99 lbs., per dozen \$187.20
ONE IN A BOX

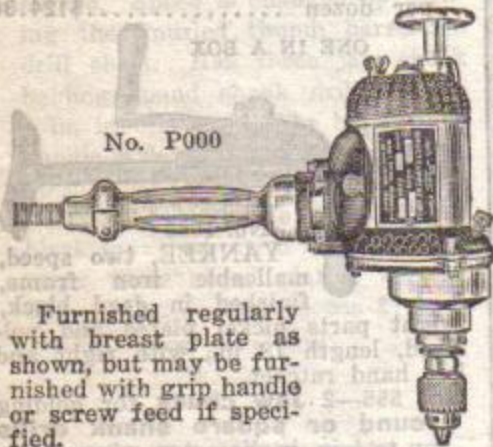


No. 118—M. F. Co., with level glass, iron frame, three jawed nickel plated chuck, capacity 0 to $\frac{1}{2}$ in. for round shank drills, adjustable speed gear and breast plate, steel cone bearing, nickel plated crank, cocobola handles, w't dz. 90 lbs., dz. \$109.60
ONE IN A BOX

Thor

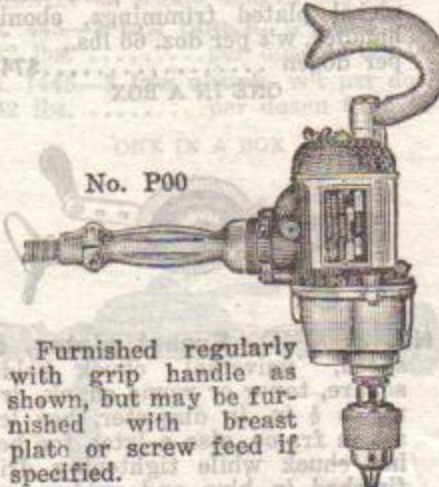
THE WORLD'S GREATEST ELECTRIC DRILLS

CAN BE OPERATED FROM ANY LAMP SOCKET



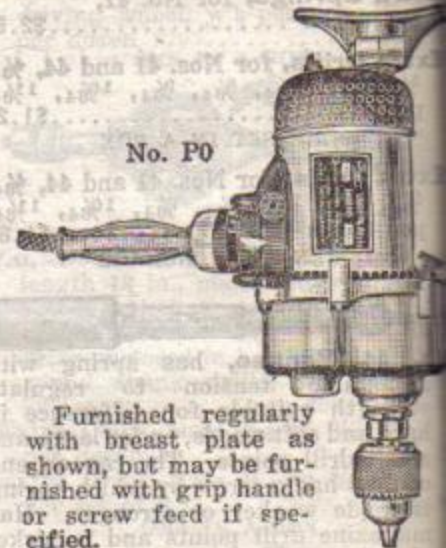
No. P000

Furnished regularly with breast plate as shown, but may be furnished with grip handle or screw feed if specified.



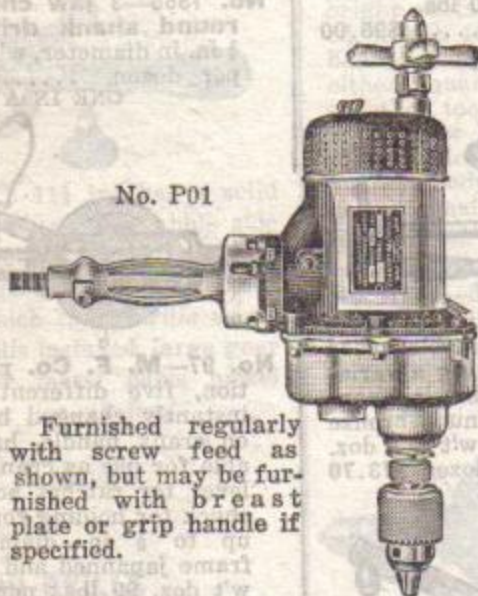
No. P00

Furnished regularly with grip handle as shown, but may be furnished with breast plate or screw feed if specified.



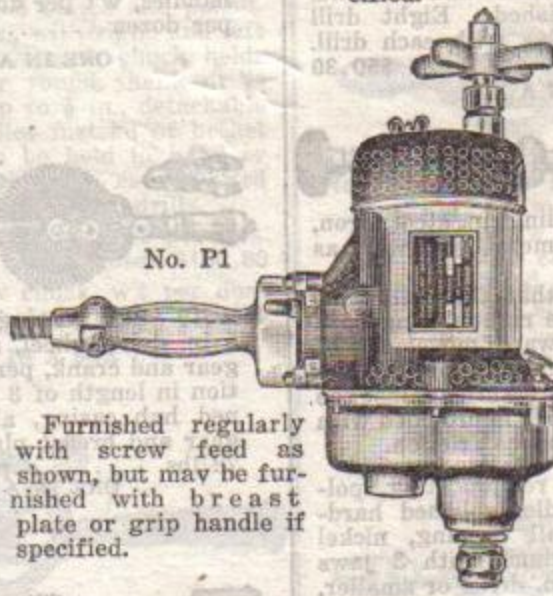
No. P0

Furnished regularly with breast plate as shown, but may be furnished with grip handle or screw feed if specified.



No. P01

Furnished regularly with screw feed as shown, but may be furnished with breast plate or grip handle if specified.



No. P1

Furnished regularly with screw feed as shown, but may be furnished with breast plate or grip handle if specified.

Will drill a hole in metal or wood in one-fifth the time required by hand. Saves 80% in the cost of drilling. All drills are furnished with Jacobs Chuck for straight shank twist drills.

Drilling, in.	CAPACITY		FREE SPEED		W't, Lbs.	Distance From Side L'gth to Spindle Over-center, in.		Watts Consumed Under Load
	Ream-ing, in.	Wood Boring, in.	Uni-versal	Direct Current		in.	all.	
3/8	3/16	3/8	2600	1900	6	1 1/2	10 1/2	260
1/2	1/4	1/2	1400	1000	7	1 1/2	10 1/2	260
5/8	5/16	5/8	950	750	12	1 1/2	12 1/2	500
1	3/8	1	800	675	17	1 1/2	14 1/2	550
1 1/8	1/2	1 1/8	750	650	18	1 1/2	12 1/2	600

UNIVERSAL TYPE

For Alternating and Direct Current.		For Direct Current Only	
Nos.	Each	Nos.	Each
P000U	\$102.00	PMMMD	\$102.
P00U	119.00	PMMD	118.
P0U	136.00	P0D	136.
P01U	161.50	P01D	161.
P1U	170.00	P1D	170.

VOLTAGE DESIRED MUST BE SPECIFIED IN ORDERING.

SCREW DRIVERS



HIBBARD

Forged from solid bar high grade special steel. Hardened, natural finish, knife handle. The handle is securely fastened to driver with two rivets. Highly polished blade carefully tempered. The flat shape of handle prevents the driver rolling when laid down. A high grade tool in every respect.

No. 200 Hibbard—

Inches	3	4	5	6
W't per doz., lbs.	4½	4½	5	7½
Per dozen	\$5.60	6.00	7.00	8.40

No. 250 Hibbard—

Inches	7	8	10	12
W't per doz., lbs.	7½	10½	11½	12½
Per dozen	\$9.80	11.20	14.00	16.80

HALF DOZEN IN A BOX



Extra strong well made driver. Finely polished, tempered blade forged from solid bar high grade special steel, black stained hardwood handle riveted to driver with two rivets.

No. 150 EYE—Inches

2	3	4	5	6	
Length overall, in.	6	7	8½	9½	10½
W't per doz., lbs.	4	4½	4½	5	7
Per dozen	\$5.60	6.40	7.00	8.00	9.60

No. 150 EYE—Inches

7	8	10	12	
Length overall, in.	11½	13	16	18½
W't per doz., lbs.	7½	10	10½	11½
Per dozen	\$11.20	12.80	16.00	19.20

HALF DOZEN IN A BOX



Special cast steel, round polished blade, polished steel handle, ebonized handle.

No. 1 EYE—Inches

2	3	4	5	6	
W't per doz., lbs.	1½	1½	2½	3½	4
Per dozen	\$4.80	5.20	5.60	6.10	6.80

No. 2 EYE—Inches

7	8	10	12	
W't per doz., lbs.	4½	6½	8	8½
Per dozen	\$7.70	8.40	10.00	13.00

HALF DOZEN IN A BOX

EYE MACHINISTS'



Square Shank.

Finely polished tempered blade, forged from solid bar high grade special steel. Stained hardwood handle, riveted to driver with two rivets.

No. 1 EYE—Inches

3½	3½	4	4½	
Length over all, in.	7	8	9	10½
Size of blade, in.	¾	¾	¾	¾
W't per doz., lbs.	3½	5	7½	10
Per dozen	\$11.70	13.60	15.60	17.60

HALF DOZEN IN A BOX

REVONOC



Round blued cast steel blade, heavy iron ferrule, stained handle.

No. 6 REVONOC—Inches

2	3	4	5	6	
W't per doz., lbs.	1½	2	2½	3½	3½
Per dozen	\$3.20	3.50	4.00	4.60	5.00

No. 6 REVONOC—Inches

7	8	10	12	
W't per doz., lbs.	4½	7	7½	8
Per dozen	\$5.80	6.40	7.70	9.20

HALF DOZEN IN A BOX

CHAMPION



Polished round blade, forged from die steel, tempered and shrunk into malleable bolster, heavy combined tang and ferrule, stained fluted handle.

STANDARD

No. 26—Inches

2½	3	4	5	6	
W't per doz., lbs.	2	2½	3	4	4½
Per dozen	\$5.20	6.20	7.20	6.90	8.00

No. 26—Inches

7	8	10	12	
W't per doz., lbs.	6½	7	8	11
Per dozen	\$9.20	10.20	10.80	15.30

HALF DOZEN IN A BOX

CABINET

No. 126—Inches

2½	3½	4½	5½	6½	
W't per doz., lbs.	1½	2½	2½	3½	4
Per dozen	\$5.20	6.20	6.50	7.60	8.60

HALF DOZEN IN A BOX

GRUSO



No. 012—Length, in.

2½	3	4	5	
W't per doz., lbs.	1	1½	2½	2½
Per dozen	\$1.80	2.10	2.50	3.00

No. 012—Length, in.

6	8	10	
W't per doz., lbs.	3½	4½	6
Per dozen	\$3.60	4.80	6.00

HALF DOZEN IN A BOX

OVB SCREW DRIVERS



OVB screw drivers have the blade, shank and head formed of one piece of special steel. The projection under the head prevents the blade from turning in the handle. This construction makes the OVB driver unusually strong and durable.

OVB drivers are made in two forms—one in which the metal head comes through the handle, and one having a countersunk head and insulated by a non-conduction plug. Electricians require this type. On account of the parallel sides a countersunk screw may be followed without injury to the wood, thus making it an attractive tool to the cabinet maker. All cuts used to illustrate this line are made to scale approximately one-fourth the actual size. All handles are finished in dull black and are typical of "THE VERY BEST" workmanship.



STANDARD TYPE, special steel, finely tempered blade, polished steel ferrule, ebonite handle.

For all sorts of work. Diameter of blades, width of tips, and size of handle vary according to over-all length of driver.

No. 100 OVB —Blade, in.	2½	3	4	5	6
Tip, in.	5/16	3/8	7/16	1/2	5/8
Stock, in.	7/16	1/2	5/8	3/4	7/8
W't per doz., lbs.	1½	2	2½	4½	6
Per dozen	\$4.50	5.20	6.20	7.30	8.80

No. 100 OVB —Blade, in.	8	10	12
Tip, in.	5/16	3/8	1/2
Stock, in.	7/16	1/2	5/8
W't per doz. lbs.	7½	8½	9½
Per dozen	\$11.00	13.80	16.40

HALF DOZEN IN A BOX



Has cabinet makers' tip, sides being parallel (instead of tapered) to follow up countersunk screws without marring the wood. It also has an insulated head. In this driver the diameter of blade, size of handle, width of tip do not increase in same proportion as in the standard line.

No. 101 OVB —Blade, in.	3	4	5	6
Tip, in.	7/16	1/2	5/8	3/4
Stock, in.	7/16	1/2	5/8	3/4
W't per doz., lbs.	2	2½	3	3½
Per dozen	\$5.20	6.10	7.50	8.90

HALF DOZEN IN A BOX



Special steel blade, nickel plated ferrule, ebonized handle. Blades are pinned, making a strong driver for pocket use.

Nos.	107	108
Length of blade, in.	1½	3
Stock, in.	1¼	1¼
W't per doz., lbs.	1	2
Per dozen	\$2.70	3.00

ONE DOZEN IN A BOX



ELECTRICIANS'

Electric, special steel, finely tempered blades, 1/2 in. tip, 5/16 in. stock, polished steel ferrule, ebonite handle, insulated head.

No. 103 OVB —Blade, in.	2½	3	4	5	6
W't per doz., lbs.	1½	1½	1½	1½	1½
Per dozen	\$4.50	5.20	6.10	7.50	8.90

No. 103 OVB —Blade, in.	8	10
W't per doz., lbs.	1½	1½
Per dozen	\$11.00	13.80

HALF DOZEN IN A BOX



MACHINISTS'

Machinists' special finely tempered blade, polished steel ferrule, ebonite handle. Especially adapted for heavy work.

Nos.	105	106
Length of blade, in.	1½	3½
Length over all, in.	5½	7½
W't per doz., lbs.	3½	6
Per dozen	\$6.80	12.40

HALF DOZEN IN A BOX



SPECIAL

The special feature of this driver is that the blade instead of being round is forged to a flat shape 5/16 in. thick and 3/16 in. wide. Tip is 7/16 in. wide. The same size material is used as in forging the regular round driver so that this tool is unusually strong. Designed for use in automobile and electrical work.

No. 114—Regular head, length 4 in., w't per doz. 2½ lbs. per dozen\$6.10

No. 214—Insulated head, length 4 in., w't per doz. 2½ lbs. per dozen\$6.10

HALF DOZEN IN A BOX



No. 104 OVB—Special steel, 1½ in. finely tempered blade, 5/16 in. tip, 7/16 in. stock, polished steel ferrule, ebonite handle, w't per doz. 2 lb.per dozen \$4.50

HALF DOZEN IN A BOX

"HURWOOD" SCREW DRIVERS



Cross Section "Hurwood" Screw Driver.



Cross Section "Hurwood" Screw Driver Insulated Head.

"HURWOOD" SCREW DRIVERS have blade, shank and head formed of one piece of special steel. A rivet through the ferrule, handle and shank as well as the head with two projecting wings—see cut—securely fasten the handle. This construction makes the "Hurwood" driver unsurpassed for strength and durability.

"Hurwood" drivers are made in two forms—one in which the metal head comes clear through the handle and one designed for electricians giving same advantages of strength but having the head countersunk in the handle and insulated by a non-conducting plug. All "Hurwood" drivers have finely tempered blades and are well finished and fully warranted.



No. 20—4 in.

STANDARD TYPE, special steel, finely tempered blade, polished steel ferrule, ebonite handle.

Diameter of blade, size of tip and size of handle increase with length of blade in proportion for heavier work.

No. 20—Blade, in.	2½	3	4	5	6
Tip, in.	5/16	3/16	1/8	7/32	1/4
Stock, in.	7/32	7/32	1/4	5/16	5/16
W't per doz., lbs.	1½	2	2½	4½	6
Per dozen	\$4.40	5.00	6.00	7.20	8.60

No. 20—Blade, in.	8	10	12	18
Tip, in.	9/16	5/8	3/4	15/16
Stock, in.	1/2	5/8	3/4	7/8
W't per doz., lbs.	7½	8½	9½	10½
Per dozen	\$10.60	13.30	15.80	24.00

HALF DOZEN IN A BOX



No. 50—4 in.

Baby, special steel, finely tempered blade, 1/8 in. tip, 1/4 in. stock, polished steel ferrule, ebonite handle.

A special driver designed for light and delicate work, and is made of very small stock and with a small tip. The size of stock, tip and handle is the same in all lengths of blade. As the small diameter of shank wire necessitates a very small rivet, the "winged" head is a great advantage.

No. 50—Blade, in.	4	5	6	8
W't per doz., lbs.	1	1	1½	1½
Per dozen	\$6.00	7.20	8.60	10.60

HALF DOZEN IN A BOX



MACHINISTS'

Special steel, finely tempered blade, polished steel ferrule, ebonite handle.

Specially adapted for heavy work, where a heavy driver cannot be conveniently used.

No.	51	52	53
Length of blade, in.	1½	3	4
Length over all, in.	5½	7½	9½
W't per doz., lbs.	3½	6	9
Per dozen	\$6.70	12.00	15.60

HALF DOZEN IN A BOX

CABINET MAKERS'

Tip, parallel sides, insulated head, special steel, finely tempered blade, polished steel ferrule, ebonite handle.

Has cabinet maker's tip, sides being parallel (instead of tapered) to follow up countersunk screws without marring the work; also insulated head. In this driver, diameter of blade and size of handle do not increase in same proportion as in the standard line.

No. 45—Blade, in.	2½	3	4	5
Tip, in.	7/32	7/32	1/4	1/4
Stock, in.	7/32	7/32	7/32	7/32
W't per doz., lbs.	1½	2	2½	3
Per dozen	\$4.40	5.00	6.00	7.20

No. 45—Blade, in.	6	8
Tip, in.	1/4	1/4
Stock, in.	1/4	1/4
W't per doz., lbs.	3½	3½
Per dozen	\$8.60	10.60

HALF DOZEN IN A BOX



ELECTRICIANS'

Special steel, finely tempered blade, 1/8 in. tip, 5/16 in. stock, polished steel ferrule, ebonite handle, insulated head.

A special driver corresponding to the No. 50, but having insulated head for electrician's work.

No. 55—Blade, in.	1½	2½	3	4	5
W't per doz., lbs.	1	1½	1½	1½	1½
Per dozen	\$4.40	4.40	5.00	6.00	7.20

No. 55—Blade, in.	6	8	10	12
W't per doz., lbs.	1½	1½	1½	2
Per dozen	\$8.60	10.60	13.30	15.80

HALF DOZEN IN A BOX



For use where a driver of short length is desired. The blade is strong and the size makes it a handy vest pocket screw driver.

No. 21—Baby, special steel, 1½ in., finely tempered blade, 5/16 in. tip, 7/32 in. stock, polished steel ferrule, ebonite handle, w't per doz. 2 lb.	per dozen	\$4.40
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HALF DOZEN IN A BOX

YANKEE SPIRAL RATCHET SCREW DRIVER



Right or left hand and rigid at variable lengths.

This tool is for driving small screws only and is intended for electrical workers, cabinet makers and mechanics having a large number of small screws to drive. It is a very light and convenient tool that can be easily carried in the pocket.

No. 35—Nickel plated, stained cherry handle, length with bit when extended 9 1/2 in., 3 forged steel bits, w't per doz. 5 1/2 lbs. per dozen \$35.80
ONE IN A BOX



Right or left hand ratchet and rigid at variable lengths.

The change from right to left hand is made by simply moving the slide to either end of the slot. The ratchet movement can be used in any part of the length of tool and can be used as an ordinary screw driver at any point in length of rod.

No. 30—Nickel plated, stained cherry handle, length with bit 13 1/2 in., extended 19 1/4 in., 3 forged steel bits, w't per doz. 15 lbs. per dozen \$48.20

No. 31—Length with 17 1/2 in., extended 26 1/2 in., for extra heavy work, w't per doz. 20 lbs., otherwise same as No. 30 per dozen \$64.70

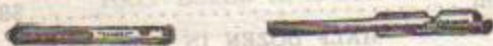
BITS WITH SCREW HOLDERS



A longer bit than regular with holder attached to hold screw, especially useful in places difficult to reach.

No. 305—For No. 30 per dozen \$8.60
No. 315—For No. 31 per dozen \$8.60
ABOVE, ONE IN A BOX

YANKEE CHUCKS AND DRILLS



For Nos. 30, 31, 35 Screw Drivers.

No. 301—For No. 35—Set consists of chuck and 3 cast steel drill points, sizes 1/16 to 1/8 in., spring lock, doz. sets \$7.50

No. 300—For No. 30—Set consists of chuck and 8 cast steel drill points sizes 1/16 to 1 1/16 in., spring lock, per dozen sets \$15.00

No. 311—For No. 31—Set consists of chuck and 8 cast steel drill points sizes 1/16 to 1 1/16 in., spring lock, per dozen sets \$15.00

YANKEE SCREW DRIVER BITS

For Nos. 30, 31, 35 Screw Drivers.

No. 330—For No. 30—Set consists of 3 bits sizes 3/16, 1/4 and 5/16 in. per dozen sets \$10.00

No. 331—For No. 31—Set consists of 3 bits sizes 3/16, 1/4 and 5/16 in. per dozen sets \$10.00

No. 302—For No. 35—Set consists of 3 bits sizes 1/8, 1/4 and 3/8 in. per dozen sets \$10.00

YANKEE DRILL BITS

For Nos. 30, 31, 35 Screw Drivers.
Used With Nos. 300 and 301 Chucks.

STRAIGHT SIZES

Sizes, 3/64, 1/16, 3/32, 1/8, 5/32, 3/16, 1/4, 5/16 and 3/8 in., per dozen \$1.80

IN SETS OF 8

One each, 3/64 to 3/8 in. per dozen \$1.20



COUNTERSINKS

For Nos. 30, 31, 35 Screw Drivers.
No. 030—For No. 30, cast steel round shank, per dozen \$3.90

YANKEE RATCHET SCREW DRIVER



Quick Return Spiral Ratchet.

No. 130—Nickel plated, stained cherry handle, length with bit 11 in., extended 19 1/4 in., 3 forged steel bits, w't per doz. 15 lbs. per dozen \$55.00
ONE IN A BOX

YANKEE QUICK RETURN SCREW DRIVER



Nickel Plated.

Has a spring in handle which causes the handle to come back for the next push when driving a screw. Stained cherry handle, 3 forged steel bits.

Nos.	131	135
Length—bit extended, in.	26 1/2	9 1/2
Weight, lbs.	20	5 1/2
Per dozen	\$74.30	42.50

ONE IN A BOX

YANKEE PUSH BRACE AND SCREW DRIVER



Will hold all the small tools used in a bit brace, but is operated by pushing the handle. Will bore 1/8 in. holes in metal, drive 1/2 in. auger bits in hard wood or 1/2 to 3/4 in. bits in white pine.

No. 75—Nickel plated frame and chuck, hardwood polished handle, 2 3/8 in. diameter, length without bit 16 1/2 in., extended 23 1/2 in., w't per doz. 26 lbs., per dozen \$88.00
ONE IN A BOX

YANKEE RATCHET SCREW DRIVER



Polished cast steel forged blade, nickel plated ferrule, polished hardwood handle, has knurled screw on blade used for turning with thumb and finger when desired.

Nos.	152	153	154	155
Inches	2	3	4	5
W't per doz., lbs.	1 1/2	1 1/2	1 1/2	2
Per dozen	\$11.60	12.10	12.60	13.10

ONE IN A BOX

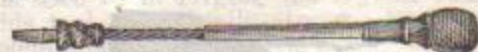


Polished cast steel forged blade, nickel plated ferrule.

Nos.	112	113	114	115	116	118
Inches	2	3	4	5	6	8
W't doz., lbs.	1 1/2	2 1/2	3	3 1/2	5	6
Per dozen	\$10.50	12.90	13.80	15.20	17.10	19.30

HALF DOZEN IN A BOX

REED'S LIGHTNING SCREW DRIVER



No. 42—Nickel plated cylinder, rosewood handle, lignum vitae head, length 12 in., extended 21 in., with 1 boring and 2 screw driver bits, for light boring, driving and removing screws, w't per doz. 9 lbs., per dozen \$63.00
HALF DOZEN IN A BOX



No. 41 1/2—Nickel plated cylinder, rosewood handle, lignum vitae head, length 15 in., extended 26 in., with 1 screw driver bit, for light boring, driving and removing screws, w't per doz. 18 lbs. per dozen \$81.00
ONE IN A BOX

NOVELTY SCREW DRIVERS



Blades made of the best grade of tool steel, highly tempered and polished with nickel plated knurled body.

No. 33—Three in One, length 3 1/2 in., consists of three distinct screw drivers in one, w't per doz. 1 1/2 lbs., per dozen \$6.60
ONE DOZEN ON A DISPLAY CARD

No. 34—Four in One, length 5 1/2 in., consists of four distinct screw drivers in one, w't per doz. 2 1/2 lbs., per dozen \$12.00
ONE DOZEN IN A BOX



DUPLIX

No. 32—Two-in-one with ring on end for fastening to watch chain, length 2 1/2 in., consists of two distinct screw drivers in one, large blade is protected by screw cap, made of best grade tool steel highly tempered and polished with nickel plated knurled body, w't per doz. 1 lb. per dozen \$5.50
ONE DOZEN ON A DISPLAY CARD

MAGAZINE SCREW DRIVERS



FOUR TOOLS IN ONE

Three sturdy blades, one sturdy awl. Large enough to hang a door. Small enough to fix a bell.

The blades of the Olson Magazine Screw Driver are made of 5/16 round high grade steel, forged and tempered. The sizes are 1 1/2, 3/2, 3/16, and will fit any common screw. The awl is four cornered and tapers from a point to 5/8 across corners. It is small enough to make starting holes for curtain hanger screws or large enough for a door hinge screw.

The handle is of steel, knurled on the outside and nickel plated. The handle is hollowed out to hold all four tools.

The cap has a chuck locked inside of it, so that it acts as a chuck and cap at the same time. The blades snap into the chuck and chuck snaps into the handle, and when cap is tightened it is like a solid steel screw driver.

No. 43—The length of the screw driver with blade inserted is 5 1/2 in., with tools inside 3 1/2 in., w't per doz. 2 1/2 lbs. per dozen \$20.00
ONE IN A BOX

POCKET MAGAZINE SCREW DRIVER



Has four blades to suit different size screws. Blades are kept in magazine in handle.

No. 60—Nickel plated, polished cast steel blades, knurled handle, diam. 5/8 in., length closed 3 in., w't per doz. 1 1/2 lbs. per dozen \$16.00
ONE DOZEN IN A BOX

HAMMER HANDLE SCREW DRIVERS



Tool steel, tempered, nickel plated, folding T hammer handle held in either position by a strong spring.

Nos.	24	25	26 1/2
Length blade, in.	4	5	6
Length over all, in. 7 1/2	9	10	
Width point, in.	5/16	3/8	1/2
W't per doz., lbs.	4 1/2	7	10
Per dozen	\$12.50	13.45	14.40

NOS. 24 AND 25 ONE-QUARTER DOZEN
NO. 26 ONE DOZEN IN A BOX

HAMMER AND SCREW DRIVER ASSORTMENT



No. 36—An all metal hammer and three screw drivers combined, in one practical tool. Hammer is 7 1/2 in. long, head 1 1/2 x 2 1/2 in. Three in one screw driver, length 5 1/2 in., fits nicely into the handle of hammer. All finely polished and nickel plated, w't per doz. 8 lbs., per dozen \$19.20
10 TOOLS WITH DISPLAY CARD IN A PACKAGE

SCREW DRIVERS



LITTLE GIANT

A Very Strong and Useful Tool.

No. 13 1/2—Length over all 3 1/2 in., forged crucible steel blade, carefully tempered, knurled steel handle, nickel plated, w't per doz. 1 1/2 lbs. per dozen \$2.20
ONE DOZEN ON A DISPLAY CARD

YANKEE RATCHET SCREW DRIVER



For gunsmith's fitters, electricians, etc., a strong, substantial driver.

No. 12—Polished cast steel forged blade, 1 1/2 in., nickel plated ferrule, polished hardwood handle, w't per doz. 3 lbs. per dozen \$15.00
HALF DOZEN IN A BOX

SCREW DRIVER ASSORTMENTS



MAYHEW

No. 811—Assorted 1 to 3 in., forged blued steel blade, 3/32 in. diam., securely fastened, stained handle, w't per doz. 3 lb., per assortment \$1.80
ONE DOZEN MOUNTED ON AN ATTRACTIVE DISPLAY CARD 7 1/2 x 11 IN., TWO DOZEN IN A BOX.



No. 660—Consists of one dozen assorted 1 1/2, 2 1/2 and 3 1/2 in. screw drivers, forged steel polished blades with knurled band to give handy grip with fingers in starting screws. Cocobola handles with nickel plated ferrule, w't per asst. 1 lb., per assortment \$4.00
ONE DOZEN MOUNTED ON A DARK GREEN PASTEBOARD CARD WITH CARD HANGEP

INSIDE CALIPERS



Cast Steel Polished.

Nos.	104	105	106	108
Inches	4	5	6	8
W't, doz., lbs.	1/2	1 1/4	1 1/2	2 1/4
Per dozen	\$3.00	3.30	3.80	8.00

ONE DOZEN IN A BOX

OUTSIDE CALIPERS



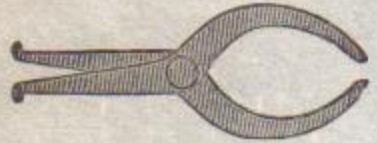
Cast Steel Polished.

Nos.	203	204	205
Inches	3	4	5
W't, doz., lbs.	1/2	3/4	1 1/4
Per dozen	\$2.70	3.00	3.30

Nos.	206	208
Inches	6	8
W't, doz., lbs.	1 1/4	2 1/4
Per dozen	\$3.80	8.00

ONE DOZEN IN A BOX

DOUBLE CALIPERS



Cast Steel Polished.

Nos.	304	305	306
Inches	4	5	6
W't, doz., lbs.	3/4	1	1 1/4
Per dozen	\$4.30	5.00	6.00

HALF DOZEN IN A BOX

SELF-REGISTERING CALIPERS



No. 58—3 in., nickel plated, with set screw, w't per doz. 1/2 lb., per dozen \$11.00
HALF DOZEN IN A BOX

WING CALIPERS

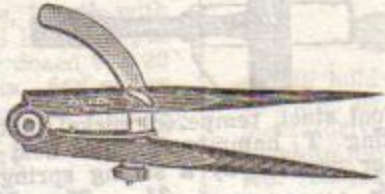


Forged Steel Polished, with Spring and Set Screw.

Nos.	806	808
Inches	6	8
Per dozen	\$16.80	21.60

HALF DOZEN IN A BOX

WING DIVIDERS



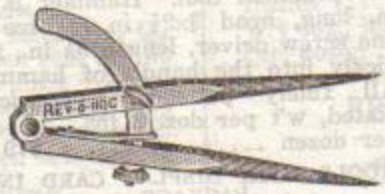
Nickel Plated, Forged Steel, Brass Jointed, Tempered Steel Points.

Nos.	46	47	48
Inches	6	7	8
W't per doz., lbs.	4	4 1/2	5
Per dozen	\$17.00	19.20	21.20

Nos.	410	412
Inches	10	12
W't per doz., lbs.	8	13
Per dozen	\$28.40	32.40

HALF DOZEN IN A BOX

REVONOC WING DIVIDERS



Forged Steel, Polished.

Nos.	36	37	38	39
Inches	6	7	8	9
W't, doz., lbs.	3 1/2	4	4 1/2	7
Per dozen	\$11.40	12.80	14.00	14.80

Nos.	310	312	315
Inches	10	12	15
W't, doz., lbs.	7 1/2	13	15
Per dozen	\$19.00	21.60	57.00

6 TO 8 ONE DOZEN; BALANCE HALF DOZEN IN A BOX

EXTENSION WING DIVIDERS



Forged Steel, Polished, One Extension Leg.

Nos.	16	17	18
Inches	6	7	8
W't, doz., lbs.	4	4 1/2	4 1/2
Per dozen	\$19.50	21.60	23.80

HALF DOZEN IN A BOX



Forged Steel, Polished, Two Extension Legs.

Nos.	26	27	28
Inches	6	7	8
W't, doz., lbs.	4 1/2	4 1/2	5 1/2
Per dozen	\$21.60	23.80	26.00

HALF DOZEN IN A BOX

COMPASSES AND DIVIDERS



One in a box, together with a nickel box containing six refills.

No. 569—Eagle, nickel plated, w't per doz. 1 1/2 lbs. per dozen \$9.00
ONE DOZEN IN A CARTON

PENCIL HOLDERS



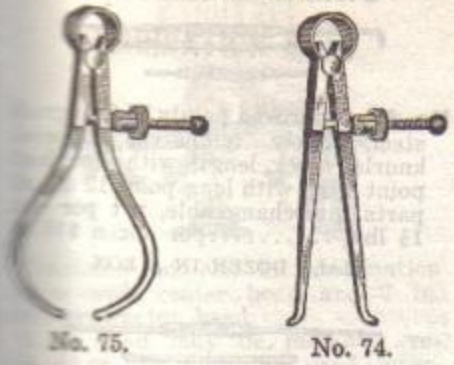
No. 8—Stanley's, corrugated steel with thumb screw, nickel plated, w't per doz. 1/2 lb. per dozen \$2.80
ONE DOZEN ON A CARD

COMBINATION CALIPERS



Inside and Outside Calipers also Depth Gauge made of nickel silver guaranteed not to rust graduated, in 16ths and 32nds. Jaws 1 in. deep.
Nos. 134 135 136
Length, in. 4 5 6
W't, doz., lbs. 2 1 1 1/2
Per dozen \$43.20 45.60 48.00
HALF DOZEN IN A BOX

FAY PATENT CALIPERS



No. 75. No. 74.

Polished steel, tempered flat steel bow spring, with spring nut.

Length, in.	2½	3	4
W't, doz., lbs.	¾	1½	1½

No. 75—Outside,
per dozen\$24.00 24.00 25.80

No. 74—Inside,
per dozen\$24.00 24.00 25.80

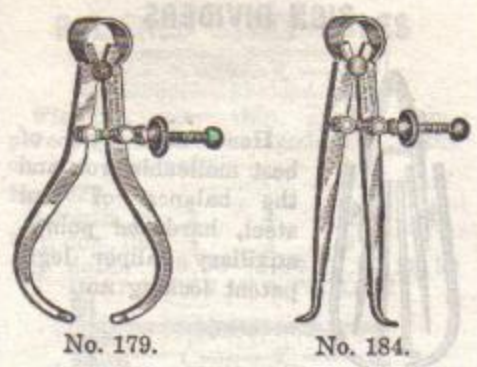
Length, in.	5	6	8
W't, doz., lbs.	2½	3	3¾

No. 75—Outside,
per dozen.....\$25.80 31.00 36.20

No. 74—Inside,
per dozen.....\$25.80 31.00 36.20

SIXTH DOZEN IN A BOX

THREAD CALIPERS



No. 179. No. 184.

Polished steel, tempered flat steel bow spring, with solid nut, designed for measuring diameter at bottom of threads.

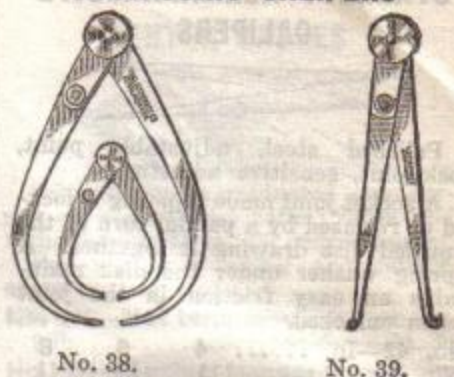
Length, in.	4	5	6
W't, doz., lbs.	1½	1½	2¼

No. 179—Outside,
per dozen.....\$15.70 17.20 18.00

No. 184—Inside,
per dozen.....\$15.70 17.20 18.00

QUARTER DOZEN IN A BOX

LOCK-JOINT CALIPERS



No. 38. No. 39.

Polished Steel, Lock Joint.

Instantly adjusted to their full extent, and as quickly locked firm in the joint, and yet provided with a sensitive adjustment. A socket joint made tapering is locked or released by a partial turn of the knurled disk, drawing it together. A spring washer under the disk maintains an easy friction in the joint when unlocked.

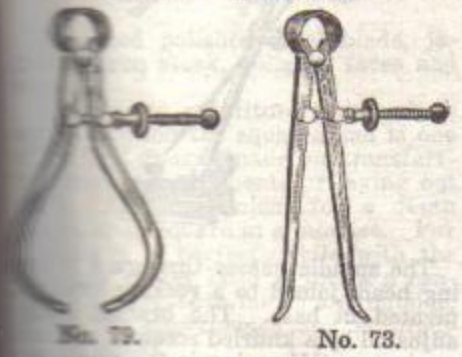
Length, in.	4	6	8
W't, doz., lbs.	1½	3	4½

No. 38—Outside,
per dozen.....\$18.90 20.70 25.80

No. 39—Inside,
per dozen.....\$18.90 20.70 25.80

QUARTER DOZEN IN A BOX

YANFEE CALIPERS



No. 72. No. 73.

Polished, tempered flat steel bow spring, with solid nut.

Similar to the Fay pattern but are not quite as heavy.

The bow on No. 73 is stiff, making the caliper reliable. After calipering inside of chambered cavity by springing in the legs they may be withdrawn, and as they spring back will show the amount one calipered.

Length, in. 2½	3	4	5
W't, doz., lbs. ¾	¾	1½	1½

No. 72—Outside,
per doz. \$13.80 14.60 15.70 15.20

No. 73—Inside,
per doz. \$13.80 14.60 15.70 15.20

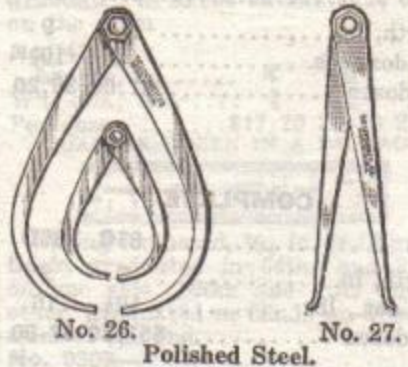
Length, in.	6	8	10
W't, doz., lbs.	2½	3¾	5½

No. 72—Outside,
per doz.....\$18.00 20.70 28.50

No. 73—Inside,
per doz.....\$18.00 20.70 28.50

QUARTER DOZEN IN A BOX

IMPROVED FIRM-JOINT CALIPERS



No. 26. No. 27.

Polished Steel.

Joint is made to be drawn together by means of a screw. Main stud is squared and fitted to one leg, preventing the stud turning when loosening and tightening, and insuring a smooth and uniform friction of more or less tension to suit the user.

The capacity is about one-third greater than the size given.

Length, in. 3	4	5	6
W't, doz., lbs. ¾	1½	1½	2¼

No. 26—Outside,
per dozen \$8.60 10.30 12.00 13.80

No. 27—Inside,
per dozen \$8.60 10.30 12.00 13.80

Length, in.	8	10	12
W't, doz., lbs.	3¾	5½	7½

No. 26—Outside,
per dozen.....\$17.20 18.90 20.70

No. 27—Inside,
per dozen.....\$17.20 18.90 20.70

QUARTER DOZEN IN A BOX

Our reputation founded on over sixty-seven years' business stands back of the **OYB** brand.

All goods branded **OYB** are guaranteed to be of highest quality material and workmanship and free from imperfections.

In selling **OYB** articles there is a profit for you and satisfaction to your customers.

STARRETT HERMAPHRODITE CALIPERS



Polished steel, adjustable point, lock-joint, sensitive adjustment.

A socket joint made tapering is locked or released by a partial turn of the knurled disc drawing it together. A spring washer under the disk maintains an easy friction in the joint when unlocked.

No. 42—In. 4 6 8
W't, doz., lbs. 1½ 2½ 4½
Per dozen \$20.70 24.00 28.50
QUARTER DOZEN IN A BOX

FIRM-JOINT HERMAPHRODITE CALIPERS



Polished Steel, Adjustable Point.

The improved firm joint, with its smooth and uniform friction, is superior to the old style riveted jointed.

No. 41—Length, in. 4 6 8
W't, doz., lbs. 1½ 1¾ 3¾
Per dozen \$13.80 17.20 20.70
QUARTER DOZEN IN A BOX

STARRETT SPRING DIVIDERS



FAY PATENT, polished steel, quick adjustment, automatic closing spring nut.

No. 77—in. 2½ 3 4
W't, doz., lbs. ¾ 1½ 1¾
Per dozen \$24.00 24.00 29.30
No. 77—in. 5 6 8
W't, doz., lbs. 2½ 3 3¾
Per dozen \$29.30 36.20 41.40
SIXTH DOZEN IN A BOX



Polished Steel, Solid Nut.
YANKEE

Made under the Fay patent, but not quite as heavy.

No. 83—in. 3 4 5
W't per doz., lbs. ... ¾ 1½ 1¾
Per dozen \$14.60 15.70 17.20
No. 83—in. 6 8
W't per doz., lbs. 2½ 4½
Per dozen \$18.00 23.30
QUARTER DOZEN IN A BOX

STARRETT IMPROVED EXTENSION DIVIDERS



Head and arms of best malleable iron and the balance of tool steel, hardened points, auxiliary caliper legs, patent locking nut.

A well made, nicely finished divider, with auxiliary caliper legs, which, together with a common pencil, form convenient combinations. The patent locking nut between the arms, against which a spiral spring acts, is a valuable feature. After the fine adjustment is made, the nut may be turned back, locking spring and arms firmly, thus remedying the weak point which renders the common wing divider only as stiff as the adjusting spring.

WITH DIVIDER LEGS ONLY

Nos.	85A	85B
Length, in.	7	9
W't, doz., lbs.	7½	10½
Per dozen	\$31.00	36.20

COMPLETE

Nos.	85C	85D
Length, in.	7	9
W't, doz., lbs.	12½	16
Per dozen	\$51.80	57.00

ONE IN A BOX

SCRIBERS



Takes the place of the compass, and being small, can be carried in vest pocket.

No. 3—Tempered polished steel, length 3 in., w't per doz. 1 lb.,
per dozen \$3.80
DOZEN IN A BOX

STARRETT SCRIBERS



No. 67—Improved points of fine grade steel, nicely tempered, nicked, knurled stock, length with short bent point 9 in., with long point 12 in., all parts interchangeable, w't per doz. 1½ lbs. per dozen \$10.30

HALF DOZEN IN A BOX



The knurled sleeve has hole clear through and a clamping device at one end, adapting it for slipping on or off different tools, securely holding them near to or away from the working point.

No. 68—Improved, adjustable sleeve knurled and nicked, point of fine grade steel, 8 in. long, w't per doz. 1½ lbs. per dozen \$10.30

HALF DOZEN IN A BOX

STARRETT SURFACE GAUGES



The spindle passes through a rotating head, joined to a rocking bracket, pivoted in base. The bracket being adjusted by a knurled screw in one end against a stiff spring in the other, the spindle may be set upright or at any angle, or turned so as to work under the base and be sensitively adjusted to any position. The snug and head carrying the scriber are so made that when the clamp nut is loosened, all may be freely moved to any position and by friction springs retained in place until a slight turn of the clamp nut holds them firm. In the rear end of the base are two gauge pins frictionally held which may be pushed to bear against the edge of a surface plate or in slot of a planer bed for lineal work.

No. 57A—New Universal, heavy base grooved through bottom and end, adapting it for use on or against circular work as well as flat surfaces, height 3 in., with 9 in. spindle, w't per doz. 25½ lbs.,
per dozen \$60.40

ONE IN A PACKAGE

COMBINATION SETS



Consisting of No. 11 combination square with center head and 7 in. level protractor head.

Each head may be instantly removed or replaced and used interchangeably with the scale, thus forming the most useful combination set of tools ever devised for mechanics' use.

No. 9—In. 9 12 18
Wt each, lbs. ... 1½ 2 2½
Per doz. sets ... \$103.60 114.00 129.60
ONE SET IN A PACKAGE

PROTRACTOR HEADS

No. 12—7 in., with level attachment, wt 12 oz. per dozen \$51.80
ONE IN A PACKAGE

COMBINATION SQUARES



Hardened polished steel blade, jamed iron stock, polished faces and ends.

A complete substitute for a whole set of common try squares and is one of the best gauges made for transferring exact measurements or laying out work. Also convenient for a depth gauge, or to square in a mortise. For a square it is perfect, while with the auxiliary center head it forms a centering square, both inside and outside, which, for convenience and accuracy has no equal.

WITHOUT CENTER HEAD

No. 11—In. 9 12
Wt doz., lbs. 8½ 12½
Per dozen \$41.40 51.80

WITH CENTER HEAD

No. 111—In. 9 12
Wt doz., lbs. 11½ 16½
Per dozen \$51.80 54.50
ONE IN A BOX

Good quality hard steel blade, jamed iron stock, polished faces and ends.

Similar in design to No. 11. While the blade is made of good hard steel, it is not hardened.

WITHOUT CENTER HEAD

No. 23—In. 9 12
Wt doz., lbs. 8½ 12½
Per dozen \$37.30 46.60

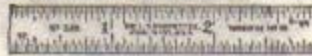
WITH CENTER HEAD

No. 233—In. 9 12
Wt doz., lbs. 11½ 16½
Per dozen \$46.60 56.00
ONE IN A BOX

HALF DOZEN IN A PACKAGE

STARRETT TOOLS

POLISHED STEEL RULES



Flexible, very thin, spring tempered, graduated in 32nds and 64ths on one side only.

No. 320—
Length, in. 3 4 6 12
Wt, doz., lbs. ¾ ¾ ¾ ¾
Per dozen \$10.30 12.90 15.70 28.50
HALF DOZEN IN A PACKAGE



Improved hook, spring tempered, ¾ in. or 18 gauge thick, graduated in 64ths and 32nds on one side, 16ths and 8ths on the other, with end graduated in 32nds. Convenient in taking measurements from round corners, through hubs of pulleys, setting inside calipers, etc. Hook quickly removed by turning eccentric stud one-half round.

No. 419—
Length, in. 6 9 12
Width, in. ¾ ¾ 1
Wt, doz., lbs. ¾ 1½ 2½
Per dozen \$21.60 30.20 37.00
QUARTER DOZEN IN A PACKAGE



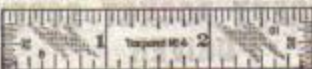
Narrow hook, spring tempered, ¾ in. or 18 gauge thick, ¼ in. wide, graduated in 32nds on one side, 64ths on the other.

No. 422—
Length, in. 4 6 9
Wt, doz., lbs. ¾ ¾ ¾
Per dozen \$17.20 20.70 28.50
QUARTER DOZEN IN A PACKAGE



Spring tempered, ¾ in. or 18 gauge thick, graduated in 64ths and 32nds on one side, 16ths and 8ths on the other, graduated in 32nds on opposite sides of one end.

No. 0303—
Length, in. 3 4 6 12
Width, in. ... ½ ¾ 1
Wt, doz., lbs. ¾ ¾ 2½
Per dozen. \$10.30 12.90 15.70 28.50
HALF DOZEN IN A BOX



Spring tempered, ¾ in. or 18 gauge thick, graduated in 64ths and 32nds on one side, 16ths and 8ths on the other, graduated in 32nds on both ends of one side.

No. 603—
Length, in. 3 4 6 12
Width, in. ¼ ½ ¾ 1
Wt, doz., lbs. ¾ ¾ ¾ 2½
Per dozen. \$10.30 12.90 15.70 28.50
HALF DOZEN IN A PACKAGE

CENTER GAUGES



Polished steel, graduated one corner each in 32nds, 24ths, 20ths and 14ths, length 2½ in., 60 degree angles. For use in grinding and setting screw cutting tools.

No. 390—Not tempered, w't per doz. ¾ lb. per dozen \$6.80

No. 391—Spring tempered, w't per doz. ¾ lb. per dozen \$8.60
HALF DOZEN IN A PACKAGE

COMBINATION RULES

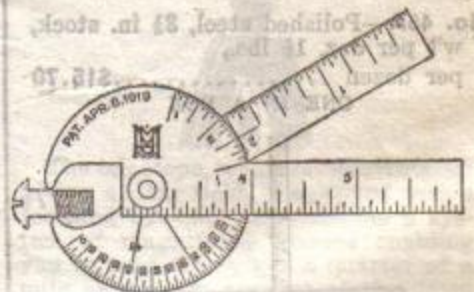


JOHNSON'S

The center joint is so constructed that the rule remains firm in any position. The vernier reads to one-half degree and is a valuable feature in obtaining fine measurements.

Nickel silver, combines caliper rule, try square bevel square and protractor, adjustable to any angle or bevel desired, marked in 8ths 16ths and 32nds.

Nos. 44 45
Length, in. 6 12
Wt per doz., lbs. 1½ 3
Per dozen \$43.20 54.00
HALF DOZEN IN A BOX



A Combined Scale Rule, Degree Square and Caliper.

Graduated from 1 in. to 4 in. in 64ths. Graduated from 4 in. to 8 in. in 32nds. Caliper is graduated in 64ths.

Accurately and carefully made from 18-gauge, nickel silvered, and will not rust. Center joint has fibre bearings making same very rigid.

No. 112—W't per doz. 1½ lbs., per dozen \$36.00
ONE IN AN ENVELOPE

DOUBLE SQUARES



Polished and hardened steel blade, japanned cast iron stock with polished face and edges, blade graduated in 64ths and 32nds on one side, 16ths and 8ths on the other.

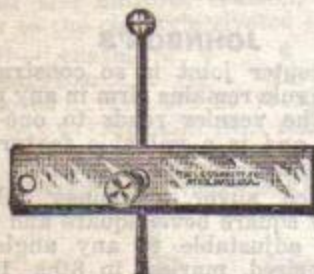
4 and 6 in. are fitted with both bevel and regular blades.

The sliding scale, shortened or extended full length makes this square very valuable, while with the extra bevel blade we have both the hexagon and octagon angles.

No. 13 —In.	4	6	9
W't, doz., lbs.	3½	7½	11½
Per dozen	\$34.50	51.80	62.00

ONE IN A PACKAGE

STARRETT DEPTH GAUGES



The wire in this gauge is held to a groove by a friction spring inside the nut while adjusting, and may be used close to the end, as well as in the middle of the straight edge. By loosening the nut, the gauge may be neatly folded.

No. 45A—Polished steel, 3½ in. stock, w't per doz. 1½ lbs., per dozen\$15.70
ONE IN A BOX



No. 46A—Polished steel, 3½ in. stock, 4½x½ in. scale slides in grooves, and is graduated in 32ds and 64ths, and may be used separately from the gauge, w't per doz. 1½ lbs., per dozen\$25.80
ONE IN A PACKAGE

STARRETT THICKNESS GAUGES



The thickness is marked on each leaf. **No. 172A**—Polished steel, 9 tempered leaves—.0015 to .015—3½x½ in. case, 3¾x½ in. leaves, w't per doz. 1½ lbs., per dozen\$25.80
ONE IN A PACKAGE

STARRETT SCREW PITCH GAUGES



Polished Steel, 2½ in. Long. Can be used inside a nut as well as on the outside of a screw or bolt. Each leaf is stamped in decimals showing the double depth of thread on said leaf, and this of course equals the depths of threads on the two sides of a tap having the same pitch, and helps the workman determine the size of drill needed to drill the hole the right size to leave a full V thread for a tap having the same pitch.

Nos.	40	6
Number of pitches	22	30
Pitches	9 to 40	4 to 62
W't doz. lbs.,	1½	1½
Per dozen	\$21.60	30.20

ONE IN A PACKAGE



Can also be used as a center gauge with coarse and fine notch.

No. 155—U. S. Standard, polished steel, 3¼ in. long, 25 pitches—2¼ to 20—w't per doz. 3 lbs., per dozen\$34.50
ONE IN A BOX

STARRETT POCKET SCREW DRIVER



Steel tubing, knurled and nickel plated, properly tempered blades.

Nos.	553A	553B
Diam., handle, in.	¼	¾
Length of blade, in.	1½	3
W't, doz., lbs.	¾	1½
Per dozen	\$6.80	8.60

HALF DOZEN IN A BOX

STARRETT STAIR GAUGE FIXTURES



A pair of these fixtures can be readily clamped to a carpenter's steel square to form a gauge for various uses.

Sketch A shows the gauge as applied for laying out a stair stringer, sketch B, laying off hexagon angles, sketch C, as used as a center gauge in quartering a circle.

No. 111—Nickel plated, steel, unpolished body, w't 4 oz., per pair\$1.30
THREE PAIRS IN A BOX

STARRETT PROTRACTORS



Graduated in degrees from 0 to 90, both ways. The blade is 6 inches long, and by means of patent lock joint is set firmly by a slight turn of the nut. The back of the tool is flat. This protractor is accurate and is convenient for setting bevels, for transferring angles, as a small T-square, or for a large number of other uses which will readily occur to a machinist or draftsman, and will be found reliable, and very satisfactory by any mechanic, especially those who do not care to pay for a more expensive tool.

No. 19—Polished steel, graduated from 0 to 90 degrees from each end, 6 in. blade, w't per doz. 1½ lbs., per dozen\$38.80
ONE IN A BOX

STANDARD WIRE GAUGES



Cast Steel, Round.

Nos.	2	1
Size	Small	Large
Gauges, wire Nos.	6 to 36	0 to 36
W't doz. lbs.,	1	2½
Per dozen	\$28.80	48.00

HALF DOZEN IN A BOX

STARRETT MICROMETERS



No. 72—Polished steel, hardened spindle, knurled sleeve and lock nut, with ratchet stop, for measurement by thousandths up to 1 in., w't per doz. 30 lbs.per dozen \$172.80
ONE IN A PACKAGE



No. 73—Polished steel, hardened spindle, knurled sleeve and lock nut, with ratchet stop and 1 in. test gauge, for measurement by thousandths from 1/16 in. to 2 in., w't per doz. 7 1/2 lbs., per dozen\$190.00
ONE IN A PACKAGE



No. 7215—Polished steel hardened spindle, knurled sleeve and lock nut, with ratchet stop, for measurement by thousandths up to 1/2 in., w't doz. 3 lbs.per dozen \$146.80
ONE IN A PACKAGE



Drop forged from bar steel, nicely finished, knurled sleeve, patent lock nut and ratchet stop. Graduated to read by thousandths of an inch. One inch has decimal equivalents stamped on frame. Other sizes marked to show capacity.

No. 7215—Inches	1	2	3
Wt. max., in.	0 to 1	1 to 2	2 to 3
Wt. max., lbs.	5 1/2	10 1/2	12
Per dozen	\$172.80	155.50	181.40
No. 7215—Inches	4	5	6
Wt. max., in.	3 to 4	4 to 5	5 to 6
Wt. max., lbs.	17	20	28
Per dozen	\$194.00	216.00	232.20

STARRETT HIGH SPEED INDICATORS



This indicator may be run at highest speed required without heating, and this on account of frictionless bearing against which the inner end of the spindle revolves. The dial plate has two rows of figures, reading right or left, as the shaft may run. The rotating disc being carried by friction, may be moved to the starting point where the raised knobs coincide. When the spindle is placed in connection with the revolving shaft, pressing the raised knob with the thumb will prevent the disc from rotating, while the hand of the watch gets to the right position to take the time. By releasing the pressure the disc is liberated for counting the revolutions of the shaft when every 100 may be noted by feeling the knob pass under the thumb lightly pressed against it, thus relieving the eye, which has only to look on the watch to note the time.

No. 104—Nickel plated scored steel handle, hardened steel pointed spindle with rubber tip for pointed or hollow center, encased working parts 5 1/2 in. long, w't per doz. 3 1/2 lbs., per dozen\$21.60
ONE IN A BOX

STARRETT REGISTERING SPEED INDICATORS



Devised to automatically register hundreds as well as units and tens, and thus relieve the mind from keeping tally. The instrument will register 5,000 revolutions. The large dial is graduated into one hundred lines, each one representing a revolution of the spindle. The small dial has fifty lines cut upon its face, each representing one hundred revolutions of the spindle (or one complete turn of the large dial). A spring finger trip attached to the case engages with one of the lines in the small dial and holds it from revolving until the large dial makes one complete turn, when the trip pin passing under the spring trip lifts it, and the dial is frictionally carried along by the large plate one line, thus showing that one hundred revolutions of the spindle have been made.

No. 107—Nickel plated, hard rubber handle, making a safe insulator when used on electric machinery, hardened steel pointed spindle with rubber tip for pointed or hollow centers, w't per doz. 4 1/2 lbs. . .per dozen \$62.00
ONE IN A BOX

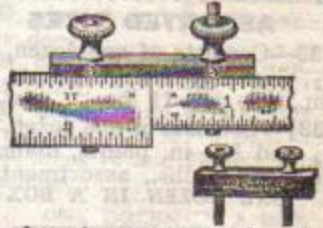
STARRETT KEY-SEAT OLAMPS



Can be put on or off almost instantly, and are a complete substitute for a more costly tool. They may be used with Starrett combination square blades, or with any straight rule, with accurate results.

No. 298—Steel, case hardened and ground accurate, transforms any common steel scale into a key-seat rule, w't per doz. prs. 1 1/2 lbs., per dozen pairs\$12.90
ONE PAIR IN A PACKAGE

STARRETT RULE CLAMPS



For clamping two steel rules together, end to end, making one long rule. The rules may be the same or different widths up to 1 1/2 in. Of special value to mechanics whose tool chests will usually not hold rules longer than 12 inches.

No. 299—Blued steel, w't per doz. prs. 1 1/2 lbs.per dozen pairs \$10.30
FOUR PAIRS IN A PACKAGE

BOSTROM'S FARM LEVELS



The telescope, which is "achromatic" giving a clear field, is equipped with a focusing eye-cap, and contains a system of magnifying glasses enabling you to read the target a quarter of a mile away. On account of the novel elements of construction of this level the telescope may be pointed in any direction desired without the necessity of re-adjusting the instrument.

The level has circle of degrees for obtaining angles; has spirit bubble and all necessary means of adjustment.

No. 22—Brass, highly lacquered and finished, consisting of 3 in. level and 9 in. telescope, tripod, plumb bob, graduated rod and target, w't 11 lbs.each \$36.00
ONE IN A NEAT WOOD CASE

CENTER PUNCHES



Tool Steel, Tempered, Knurled Center.
Nos. 924 925 926
 Diam. in. 1-4 5-16 3-8
 W't per doz., lbs. 1 1 1
 Per dozen \$2.50 2.70 3.10
 ONE DOZEN IN A BOX.

NAIL SETS



REVONOC, Cup Point, Blued Knurled Handles, Length 5 in.
STRAIGHT SIZE
No. 40 diam., $\frac{3}{32}$ in., size at point, $\frac{1}{32}$ in., w't per doz. 1 1/2 lbs.
 per dozen \$3.20

ASSORTED SIZES

No. 38—Consists of one dozen, 4 each $\frac{3}{32}$, $\frac{1}{2}$ and $\frac{5}{32}$ in. points, diam. $\frac{3}{8}$ in., w't, doz. 1 1/2 lbs. ... asst. \$3.00
No. 38 1/2—Consists of one dozen, 6 each $\frac{3}{32}$ and $\frac{1}{2}$ in. points, diam. $\frac{3}{8}$ in., w't, doz. 1 1/2 lbs., assortment \$3.00
 ONE DOZEN IN A BOX



For use on large nails and spikes.
No. 3 **REVONOC**—Car builders' high grade tool steel, 3x5 in., oil finished octagon barrel, $\frac{1}{2}$ in. cup point, polished taper, w't per doz. 7 lbs., doz. \$7.00
 ONE DOZEN IN A BOX



Square head, cup point, blue knurled handle.

STRAIGHT SIZES

Nos.—**REVONOC** 52 53 54
 Size, in. $\frac{3}{32}$ $\frac{1}{2}$ $\frac{5}{32}$
 Length, in. 4 4 4
 W't, doz., lbs. 1 1 1
 Per dozen \$2.70 2.70 2.70
 TWO DOZEN IN A DISPLAY BOX

ASSORTED SIZES

No. 50—Consists of two dozen, assorted 2-32, 3-32, 4-32 and 5-32 in. points, w't, box 1 1/2 lbs., asst. \$5.40
 WE DO NOT BREAK BOXES
 TWO DOZEN IN A BOX



REVONOC, cast steel, cup point, knurled handles, length 3 1/2 in.

STRAIGHT SIZES

Nos. 35 1/2 34
 Diam., in. $\frac{5}{16}$ $\frac{5}{16}$
 Size at point, in. $\frac{3}{32}$ $\frac{3}{32}$
 W't, doz., lbs. ... 1 1
 Per dozen \$2.00 2.00

ASSORTED SIZES

No. 35—Consists of one dozen, 6 each $\frac{3}{32}$ and $\frac{1}{2}$ in. points, diam. $\frac{5}{16}$ in., w't, doz. 1 1/2 lbs., per assortment \$2.00
 ALL ABOVE ONE DOZEN IN A BOX

NAIL SETS



REVONOC, cast steel, cup point, blued knurled handles, length 4 in.
STRAIGHT SIZES

Nos. 42 45 46
 Diam., in. $\frac{5}{16}$ $\frac{5}{16}$ $\frac{5}{16}$
 Size at point, in. $\frac{1}{32}$ $\frac{3}{32}$ $\frac{3}{32}$
 W't per doz., lbs. 1 1 1
 Per dozen \$2.10 2.10 2.10
 ONE DOZEN IN A BOX
 WE DO NOT BREAK BOXES

ASSORTED SIZES

No. 44—Consists of two dozen, 8 each 2-32, 3-32 and 4-32 in. points, diam. $\frac{5}{16}$ in., w't per box 1 1/2 lbs., per assortment \$4.20
 TWO DOZEN IN A BOX



SYRACUSE, cast steel cup point, blued knurled handles, length 4 in.

ASSORTED SIZES

No. 37—Consists of two dozen, 8 each $\frac{3}{32}$, $\frac{1}{2}$ and $\frac{5}{32}$ in. points, diam. $\frac{3}{32}$ in., w't per box, 1 1/2 lbs. per assortment \$5.30

STRAIGHT SIZES

Nos. 92 93
 Diam., in. $\frac{3}{32}$ $\frac{3}{32}$
 Size at point, in. $\frac{3}{32}$ $\frac{3}{32}$
 W't, doz. lbs. 1 1
 Per dozen \$2.60 2.60
 ONE DOZEN IN A BOX
 WE DO NOT BREAK BOXES

PUNCH SET ASSORTMENT



No. 124 **REVONOC**—Tool steel, tempered, polished and blued finish, $\frac{3}{8}$ in. knurled body length 4 in. Contains 24 assorted Punches, as follows: 14 only Pin Punches, $\frac{1}{8}$ to $\frac{3}{8}$ inch Point. 4 drive, 4 center and 2 Prick Punches. W't per asst. 2 1/2 lbs., per asst. \$5.60
 TWO DOZEN IN A DISPLAY BOX

MACHINE PUNCHES



No. 5 **REVONOC**— $\frac{3}{8}$ in., cast steel, quality, $\frac{3}{2}$ in. point, length 9 in. w't per doz. 8 lbs., per dozen \$4.00
 HALF DOZEN IN A BOX



REVONOC, forged from high grade octagon tool steel, polished taper, finished barrel.

STRAIGHT SIZES

Nos. 11 12 13 14
 Sizes, in. ... 6x3 6x3 6x3 6x3
 Size at point, in. $\frac{3}{32}$ $\frac{3}{32}$ $\frac{3}{32}$ $\frac{3}{32}$
 W't, doz., lbs. 3 3 3 3
 Per dozen \$4.00 4.00 4.00 4.00

Nos. 16 18 19
 Sizes, in. 6x3 8x3 9x3
 Size at point, in. $\frac{3}{32}$ $\frac{3}{32}$ $\frac{3}{32}$
 W't, doz., lbs. ... 3 5 7
 Per dozen \$4.00 4.80 5.70
 HALF DOZEN IN A BOX

ASSORTED SIZES

Consists of one dozen, assorted $\frac{3}{32}$, $\frac{1}{2}$, $\frac{3}{32}$, $\frac{1}{2}$ and $\frac{3}{32}$ in. points, diam. $\frac{3}{8}$ in., length 6 in., doz. 3 1/2 lbs. ... per assortment \$3.00



REVONOC length 6 in., forged from $\frac{3}{8}$ in. octagon tool steel, regular taper, polished, oil finished barrel.

STRAIGHT SIZES

Nos. 104 105 106
 Sizes, in. 6x3 6x3 6x3
 Size at point, in. $\frac{3}{32}$ $\frac{3}{32}$ $\frac{3}{32}$
 W't, doz., lbs. ... 3 3 3
 Per dozen \$3.60 3.60 3.60
 HALF DOZEN IN A BOX

ASSORTED SIZES

Consists of one dozen, assorted $\frac{3}{32}$, $\frac{1}{2}$ and $\frac{3}{32}$ in. points, diam. $\frac{3}{8}$ in., length 6 in., w't doz. 3 1/2 lbs., per assortment \$3.00
 ONE DOZEN IN A BOX.

REGULAR TAPER MACHINE PUNCHES



Forged from high grade octagon tool steel, carefully tempered, polished taper, oil finished barrel.

Nos. 23 25 27 28
 Size, in. ... 7x3 7x3 7x3 8x3
 Size at point, in. $\frac{3}{32}$ $\frac{3}{32}$ $\frac{3}{32}$ $\frac{3}{16}$
 W't doz. lbs. 3 1/2 3 1/2 3 1/2 4 1/2
 Per dozen \$4.60 4.60 4.60 5.80
 NOS. 23 TO 27, ONE DOZEN; BALANCE HALF DOZEN IN A BOX

COLD CHISELS



CVS, high grade octagon tool steel, extra quality and finish, half polished.

Inches	1-4	3-8	1-2	5-8
Point, in.	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$
Length, in.	5	5 $\frac{1}{2}$	6 $\frac{1}{2}$	6 $\frac{3}{4}$
Wt. doz., lbs.	1 $\frac{1}{2}$	2 $\frac{1}{2}$	4 $\frac{1}{2}$	7
Per dozen	\$4.60	5.00	5.60	7.00

Inches	3-4	7-8	1
Point, in.	$\frac{3}{8}$	1	1 $\frac{1}{2}$
Length, in.	7 $\frac{1}{2}$	7 $\frac{1}{2}$	7 $\frac{1}{2}$
Wt. per doz., lbs.	11	14 $\frac{1}{2}$	19
Per dozen	\$9.60	13.40	16.00

1 AND 1/2 IN. ONE DOZEN; BALANCE HALF DOZEN IN A BOX



SPRO, octagon, tool steel, extra quality, oil finished stock, polished.

Size, in.	1-4	3-8	1-2	5-8
Point, in.	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$
Length, in.	5 $\frac{1}{2}$	5 $\frac{1}{2}$	6	7
Wt. doz., lbs.	1 $\frac{1}{2}$	2 $\frac{1}{2}$	4 $\frac{1}{2}$	7
Per dozen	\$4.20	4.70	5.20	6.30

Size, in.	3-4	7-8	1
Point, in.	$\frac{3}{8}$	1	1 $\frac{1}{2}$
Length, in.	7 $\frac{1}{2}$	8	8
Wt. per doz., lbs.	11	14	20
Per dozen	\$9.00	12.50	15.00

1 AND 1/2 IN. ONE DOZEN; BALANCE HALF DOZEN IN A BOX



Octagon, Cast Steel, Natural Finish.

Inches	1-4	3-8	1-2	5-8
Point, in.	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$
Length, in.	5 $\frac{1}{2}$	5 $\frac{1}{2}$	6 $\frac{1}{2}$	7
Wt. doz., lbs.	1 $\frac{1}{2}$	2 $\frac{1}{2}$	4 $\frac{1}{2}$	7
Per dozen	\$2.00	2.40	2.80	4.00

Inches	3-4	7-8	1
Point, in.	1	1	1 $\frac{1}{2}$
Length, in.	7 $\frac{1}{2}$	7 $\frac{1}{2}$	8
Wt. per doz., lbs.	11	15	20
Per dozen	\$5.00	8.00	11.20

1 AND 1/2 IN. ONE DOZEN; BALANCE HALF DOZEN IN A BOX

CAPE CHISELS



Octagon, Tool Steel, Oil Tempered.

Size at point, in.	1-4	5-16	3-8	1-2
Diam., in.	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Length, in.	7	7	7	7 $\frac{1}{2}$
W't, doz., lbs.	6	6 $\frac{1}{2}$	6 $\frac{1}{2}$	9 $\frac{1}{2}$
Per dozen	\$6.20	6.40	6.70	8.80

HALF DOZEN IN A BOX

LONG BRICK CHISELS



Inches	1-2	5-8	3-4
Length, in.	12	16	18
W't doz., lbs.	8	17	18
Per dozen	\$6.00	8.40	12.00

HALF DOZEN IN A PACKAGE

DIAMOND POINT CHISELS



Octagon, Tool Steel, Oil Tempered.

Size at point, in.	1-4	5-16	3-8	1-2
Diam., in.	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Length, in.	7 $\frac{1}{2}$	7 $\frac{1}{2}$	7 $\frac{1}{2}$	7 $\frac{1}{2}$
W't, doz., lbs.	7	7	7 $\frac{1}{2}$	15
Per dozen	\$6.90	7.00	8.80	11.40

HALF DOZEN IN A BOX

ROUND NOSE CHISELS



Octagon, Tool Steel, Oil Tempered.

Size at point, in.	1-4	5-16	3-8	1-2
Diam., in.	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Length, in.	6 $\frac{1}{2}$	7	7	7 $\frac{1}{2}$
W't, doz., lbs.	5 $\frac{1}{2}$	6	6	9 $\frac{1}{2}$
Per dozen	\$6.20	6.40	6.70	8.80

HALF DOZEN IN A BOX

SADDLERS' OR BELT PUNCHES



CVS, length 4 in., forged from fine tool steel, polished handle, blued barrel, evenly tempered, carefully milled, reamed to allow easy clearance in punching.

- CVS**, sizes 1, 2 and 3, w't doz. 1 $\frac{1}{2}$ lbs.per dozen \$5.60
- CVS**, sizes 4 and 5, w't, doz. 1 $\frac{1}{2}$ lbs., per dozen\$6.40
- CVS**, sizes 6 and 7, w't, doz. 2 $\frac{1}{2}$ lbs., per dozen\$6.80
- CVS**, sizes 8 and 9, w't, doz. 3 lbs., per dozen\$8.00
- CVS**, sizes 10 and 12, w't, doz. 4 lbs., per dozen\$9.00

ONE DOZEN IN A BOX



- Cast steel, polished, length 3 $\frac{1}{2}$ in.
- No. 50 REVERSE**—Sizes 1, 2, 3, 4, 5 and 6, w't per doz. $\frac{1}{2}$ lb., per dozen \$3.10
- No. 50 REVERSE**—Sizes 7, 8 and 9, w't doz. 1 $\frac{1}{2}$ lbs.per dozen \$3.80
- No. 50 REVERSE**—Sizes 10 and 12, w't doz. 1 $\frac{1}{2}$ lbs.per dozen \$5.00

ONE DOZEN IN A BOX



- Tool steel, tempered, length 3 $\frac{1}{2}$ in.
- No. 33**—Sizes 1, 2, 3, 4, 5 and 6, w't doz. $\frac{1}{2}$ lb.per dozen \$2.50
- No. 33**—Sizes 7, 8 and 9, w't doz. 1 $\frac{1}{2}$ lbs.per dozen \$2.80
- No. 33**—Size 10, w't, doz. 1 $\frac{1}{2}$ lbs., per dozen\$3.50

ONE DOZEN IN A BOX



A handy vest pocket punch. Adjustable blade. Can cut any size hole from $\frac{1}{8}$ to $\frac{1}{2}$ in., easily sharpened on a stone when dull. Cutter is pushed into handle when not in use.

- No. 70—Rogers**, fine quality steel, length 3 in. closed, 5 $\frac{1}{2}$ in. when open, w't per doz. 2 lbs., per dozen\$12.00

ONE DOZEN IN A BOX

SPRING PUNCHES



Spring Punches are forged from the best tool steel.

The Grip with its mild curve exactly fits the hand.

The Cutting Tubes are made of tool steel, tapered to allow easy escape of leather and can be changed.

The Cutting Seat is copper to protect cutting edges.

No. 24—4 tubes, drop forged tool steel, polished, knurled handles, tubes and spring straw color, sizes 4, 6, 8 and 10, length 9 in., w't per doz. 10 lbs.per dozen **\$18.00**

No. 10—Tubes for No. 24, per dozen**\$2.80**

HALF DOZEN IN A BOX



No. 21—Single tube, drop forged tool steel, polished, knurled handles, tube and spring straw color, assorted sizes, length 9 in., w't per doz. 8 lbs., per dozen**\$13.00**

HALF DOZEN IN A BOX



PARAGON

Full nickel plated, knurled handles. Best quality assorted screw tubes, crucible sheet steel frame, light, strong and durable.

Nos.	284	286
Length, in.	8	8
No. of Tubes	4	6
W't, doz., lbs.	9	9½
Per dozen	\$20.00	24.00

HALF DOZEN IN A BOX



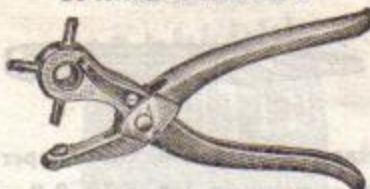
PARAGON

Single tube, full nickel plated, knurled handle, best quality screw tubes, assorted sizes, crucible sheet steel frame. Light, strong and durable.

No. 281—Length 8 in., w't per doz. 5½ lbs.per dozen **\$10.00**

HALF DOZEN IN A BOX

SPRING PUNCHES



LODI Revolving, pressed steel, polished steel, polished, bright finish, steel, drive tubes sizes 1, 3, 5 and 7, length 8 in., knurled handle.

No. 384—4 tube, w't per doz., 7 lbs., per dozen**\$14.40**

No. 386—6 tube, w't per doz. 8 lbs., per dozen**\$18.40**

No. 40—Tubes for No. 384, per dozen**\$2.50**

ONE IN A BOX



Cast steel, polished, sizes 4, 6, 8 and 10, length 9 in.

Nos.	4	6
No. of tubes	4	6
W't, doz., lbs.	8	10
Per dozen	\$15.00	19.00

No. 30—Tubes for Nos. 4 and 6, per dozen**\$2.50**

HALF DOZEN IN A BOX



No. 544—Single tube, cast steel polished, assorted sizes from 3 to 9 length 7½ in., w't per doz. 5½ lbs., per dozen**\$10.00**

No. 20—Tubes for No. 544, per dozen**\$2.50**

ONE DOZEN IN A BOX

CONDUCTORS' PUNCHES



No. 38—Nickel plated, fancy holes, assorted, length 5½ in., w't per doz. 3 lbs.per dozen **\$26.00**

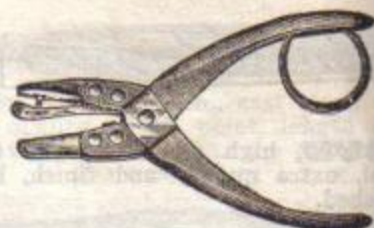
HALF DOZEN IN A BOX



No. 120—Nickel plated, with fancy holes, assorted, length 4½ in., w't per doz. 2½ lbs.per dozen **\$20.30**

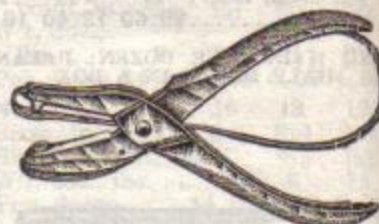
HALF DOZEN IN A BOX

CONDUCTORS' PUNCHES



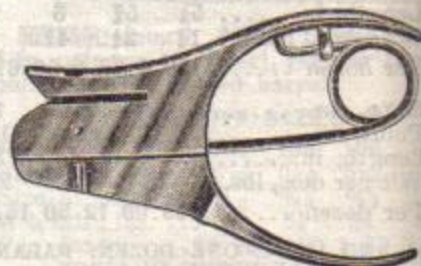
No. 22—Wrought steel, nickel plated, fancy holes, assorted, length 5 in., w't per doz. 2 lbs., per dozen**\$4.50**

HALF DOZEN IN A BOX



No. 260—Wrought steel, nickel plated with reservoir, fancy holes, length 5 in., w't per doz. 2 lbs., per dozen**\$5.00**

HALF DOZEN IN A BOX



No. 44—Nickel plated, fancy holes assorted, length 4 in., w't per doz. 4 lbs.per dozen **\$54.00**

ONE IN A BOX



This is one of the best punches made for street car transfers and other tickets, as the numbers to be punched can be plainly seen through the punch.

No. 263—Nickel plated, fancy holes assorted, length 4½ in., w't per doz. 3½ lbs.per dozen **\$54.00**

ONE IN A BOX

FLAT NOSE



QVBD

Deep forged from best special Swedish plier steel, close fitting box joints, polished jaws, gun metal finish handles.

No.	QVBD 604	605	606	607½
Inches	4	5	6	7½
W't doz., lbs.	1½	2	3½	6
Per dozen	\$18.00	20.00	22.00	25.00

ONE IN A BOX

FLAT NOSE SIDE CUTTING



QVBD

Deep forged from best crucible steel, close fitting box joints, polished jaws, gun metal finish handles.

No.	QVBD ... 715	716	717
Inches	5	6	7
W't doz., lbs.	4	5	7
Per dozen	\$27.50	31.20	36.00

ONE IN A BOX

ROUND NOSE



QVBD

Deep forged from best special Swedish plier steel, close fitting box joints, polished jaws, gun metal finish handles.

No.	QVBD 624	625	626	627
Inches	4	5	6	7
W't doz., lbs.	1½	1¾	3½	5½
Per dozen	\$18.00	20.00	22.00	25.00

ONE IN A BOX

LINEMAN'S PLIERS



NEVER SLIP

A very high grade tool in every way, 8 inch full polished, forged steel handles, extra fine crucible steel inserted cutting jaws securely fastened to plier with countersunk screws, the removable cutters can be easily replaced, thus increasing many times life of plier, w't per doz. 8½ lbs.

No.	460	470	480
Length ins.	6	7	8
W't doz. lbs.	5½	8	8½
Per dozen	\$44.00	48.00	52.00

ONE PAIR IN A BOX

EXTRA JAWS FOR NEVERSLIP PLIERS

For No. 480—Per dozen pairs \$12.00



The rubber is a special composition, seamless, moulded to the handles, and almost unbreakable, offering a perfect resistance of about 2,000 volts.

No. 380 QVBD—8 in., forged tool steel, highly polished jaws, with hard rubber insulated handles, w't per doz. 13 lbs. . .per dozen \$56.00

ONE IN A BOX



QVBD

Crucible steel, highly polished, bright jaws, gun metal finish handles, with wire cutter.

No.	260	270	280
Length, in.	6	7	8
W't, doz., lbs.	6	9	12½
Per dozen	\$25.80	31.20	36.00

ONE IN A BOX

COMBINATION PLIERS



QVBD

SEXTET, special Swedish plier steel, polished jaws, gun metal finish handles, combines flat nose, gas, side and wire cutter pliers, screw driver and reamer.

No.	QVBD ... 736	737	738
W't, doz., lbs.	5½	9½	11½
Per dozen	\$21.60	23.60	25.60

ONE IN A BOX

SIDE CUTTING PLIERS



REVONOC

Cast steel, forged, raised cutters, oil finished, lap joint, polished jaws.

HALF DOZEN IN A BOX



KLEIN'S, forged crucible steel, polished heads and cutters, black handles.

No.	2016	2017	2018	2019
Inches	6	7	8	9
W't, doz., lbs.	5	7½	12	13
Per dozen	\$51.00	57.40	63.80	76.50

ONE IN A BOX

MILLINERS' PLIERS



No. 450 QVBD—5 in. nickel plated, flat nose with side cutter, extra quality crucible steel, w't per doz. 2 lbs., per dozen \$20.00

ONE IN A BOX



Combination oval nose and side cutting nippers.

No. 99—5 in., bright polished, cast steel, w't per doz. 2½ lbs., per dozen \$18.00

ONE DOZEN IN A BOX

No. 199—5 in., nickel plated, extra quality cast steel, w't per doz. 2½ lbs. . .per dozen \$22.00

HALF DOZEN IN A BOX

FLAT NOSE PLIERS



LODI, wrought steel, bright.

No. 300—In.	4	5	6
W't per doz., lbs.	1	1½	2½
Per dozen	\$1.50	2.20	2.80

DOZEN IN A BOX

ELECTRICIAN'S PLIERS



Round Nose.

No. 68 **OV**—5½ in., drop forged, lap joint, long polished jaws, gun metal finish handles, w't per doz. 2 lbs.per dozen \$18.80
ONE IN A BOX



Round Nose Side Cutting.

No. 69 **OV**—5½ in., drop forged lap joint, long polished jaws, gun metal finish handles, w't per doz. 2½ lbs.per dozen \$21.20
ONE IN A BOX



Round Long Needle Nose Side Cutting.

No. 779 **OV**—Length 7 in., jaw 2½ in., hand forged, lap joint, long polished jaws, gun metal finish handles. This plier is adapted for extra fine work, w't per doz. 3 lbs., per dozen\$28.00
ONE IN A BOX



Flat Nose.

No. 63 **OV**—5½ in., drop forged, lap joint, long polished jaws, gun metal finish handles, w't per doz. 2 lbs.per dozen \$20.00
ONE IN A BOX



Flat Nose Side Cutting.

No. 65 **OV**—6 in., drop forged, lap joint, long polished jaws, gun metal finish handles, w't per doz. 2½ lbs.per dozen \$22.40
ONE IN A BOX

PLIERS

KLIEN'S ELECTRICIAN'S PLIERS



Oblique Cutting

Electricians, telephone men and switchboard builders will find this particular oblique cutting plier one of the most useful tools in their kits. Cuts close, the narrow head permitting its use in confined places. The knives are perfectly fitted, so that they meet accurately at all points.

Nos.	2025	2026
Inches	5	6
W't, per doz. lbs.	4	4½
Per dozen	\$35.10	41.40

ONE IN A BOX



Long Nose

This style of plier has been perfected to meet a long felt want of the electrician and general mechanic. It is adaptable to stripping the ends of insulated wire and the extra long reach of the jaws permits working in confined space.

WITHOUT CUTTERS

Nos.	3015	3016
Inches	5	6
W't, per doz., lbs.	2½	3
Per dozen	\$31.90	35.10

WITH SIDE CUTTING KNIVES

Nos.	2035	2036
Inches	5	6
W't, per doz. lbs.	2½	3
Per dozen	\$38.20	41.40

ONE IN A BOX



Long Flat-Nose

Extra long wide flat nose makes this an especially useful plier.

No. 3056—6 in., w't per doz. 3½ lbs., per dozen\$35.10
ONE IN A BOX



Long Flat-Nose Side-Cutting

Extra long flat nose, side cutting knives.

No. 2066—6 in., w't per doz., 3½ lbs., per dozen\$41.40
ONE IN A BOX

3200 TAJF

DIAGONAL CUTTING PLIERS



These are extra heavy and are designed so as to give very strong leverage in using. One pound pressure on handles cuts twenty pounds on jaws.

No. 7 **OV**—6½ in., crucible steel, polished jaws, gun metal finish, knurled handles, w't per doz. 6½ lbs., per dozen\$20.40
ONE IN A BOX



Swedish pattern, crucible steel, box joint, polished jaws, gun metal finish handles.

Nos.— OV	275	276
Inches	5	6
W't per doz., lbs.	2½	3
Per dozen	\$24.00	28.00

ONE IN A BOX

END CUTTING NIPPERS



Hand forged from special Swedish plier steel, lap joint, polished jaws gun metal finish handles.

Nos.— OV ...	774	775	776
Inches	4	5	6
W't, doz., lbs.	2½	4	5½
Per dozen	\$19.20	20.50	22.80

ONE IN A BOX



BERNARD

No. 165—6 in. drop forged, nicked plated knurled handles, black jaws, polished cutting edges, compound leverage, which gives it great cutting power, jaws open ¾ in., w't per doz. 7½ lbs., per dozen \$28.80
HALF DOZEN IN A BOX

CUTTING PLIERS



BERNARD'S, crucible steel, full nickel plated, parallel jaws.

No. 102—In.	4½	5	5½
W't per doz., lbs. . .	3	4½	4½
Per dozen	\$23.00	26.00	29.00
No. 102—In.	6	6½	7
W't per doz., lbs. . .	6	6½	10
Per dozen	\$32.00	35.00	40.00
ONE IN A BOX			

REPAIRS FOR NO. 102

4 inches	4½	5½	6½	8
Sheet Cutting, Low	\$8.00	10.00	12.00	17.00
Shear Cutting, Low	5.00	5.50	6.00	7.50
Lower Plain	4.00	5.00	6.00	8.00

CUTTING PLIERS



BERNARD'S combination gas and cutting pliers, flat nose.

Nickel plated, crucible steel, parallel jaws.

No. 128—In.	5	6	7
W't per doz., lbs. . .	4½	6½	9½
Per dozen	\$26.00	32.00	40.00

ONE IN A BOX

ROUND BELT PUNCH PLIERS



BERNARD'S

No. 1120—6 in., crucible steel, nickel plated, parallel jaws, cuts and pierces ½ in. round belting. Also adapted for removing and clamping belt hooks, w't per doz. 6 lbs., per dozen

ONE IN A BOX

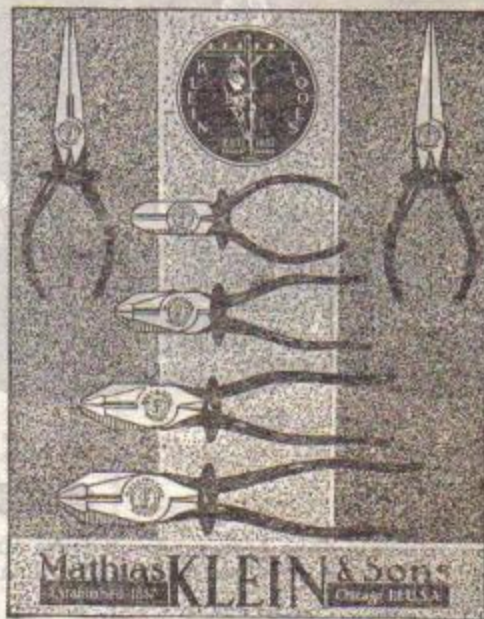
PLIER ASSORTMENTS



BERNARD

No. 15—Assortment consists on one each No. 102, 4½, 5½, 6, 6 in., No. 128, 5, 6 and 7 in. Bernard Pliers. Mounted on attractive metal display board, size 9x16 in. Finished in three colors. No extra charge for display board. W't per doz. of pliers, w't per doz. 9 lbs., per assortment

ONE IN A BOX



KLEIN

- No. 4—Assortment consists of:
- 3 No. 203-6 in. Long Nose Side Cutting Pliers.
 - 3 No. 301-6 in. Long Nose Pliers.
 - 3 No. 202-5 in. Oblique Side Cutting Pliers.
 - 3 No. 201-6 in. Side Cutting Pliers.
 - 3 No. 201-7 Side Cutting Pliers.
 - 3 No. 201-8 in. Side Cutting Pliers.

One of each of above are mounted on attractive metal blue display board, size 14x11 inch.

Each assortment has packed with it enameled door signs, counter folders and extra booklets for sales help. Is priced at regular selling price of pliers, without any extra charge for display board. W't per ass't. 17½ lbs., per ass't

ONE ASSORTMENT IN A BOX

OYB Plier Assortments

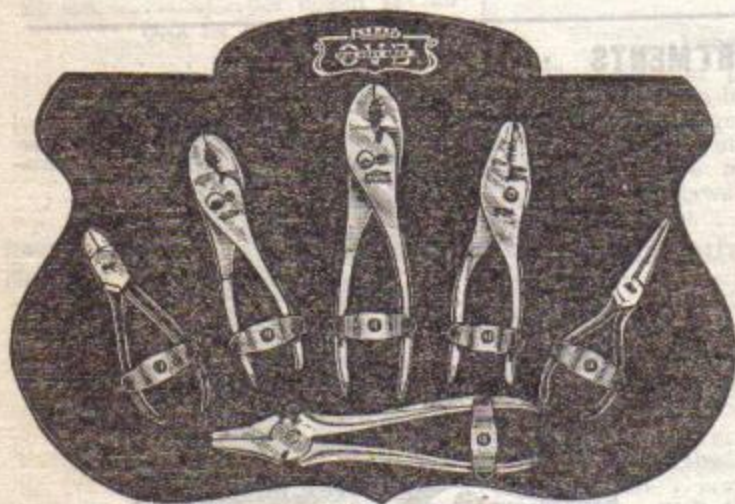
THE LOGICAL CHOICE OF THOSE WHO JUDGE VALUE BY PRACTICAL SERVICE

These Pliers are all forged from special steel exactly and individually tempered and possess unique, practical features in design and finish which give them unmistakable distinction.

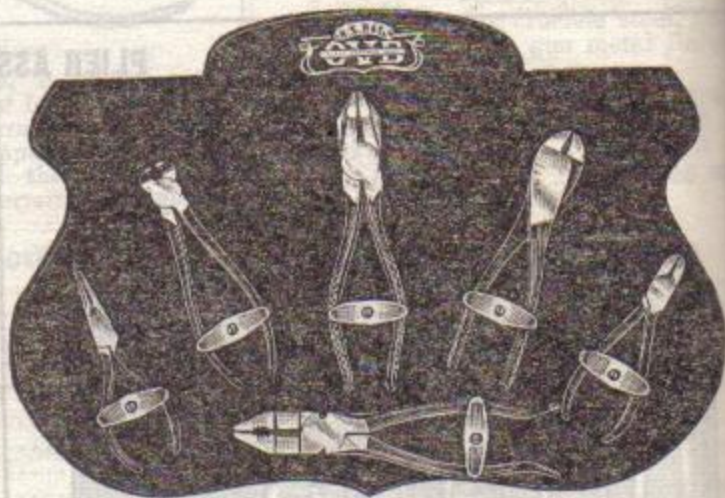


No. 24.

Scientifically designed and perfectly balanced. They are not head heavy. This insures utmost leverage—the strain being uniformly distributed over the entire tool, making for greater strength and durability.



No. 22.



No. 18.

OYB Plier Assortments

These assortments have been made up from our regular stock and comprise the best selling sizes in high grade pliers. They are very attractive in appearance and will afford valuable help to the dealer in selling. No charge is made for the display board.

One of each number of pliers in the assortment is mounted on attractive wood display board, made in three ply to prevent warping. Board is attractively finished in mahogany. Each plier is securely fastened to board with nickel plated bolt and nut. Board has a wire easel on back for support.

No. E24—OYB Plier Assortment.
The assortment contains following
OYB Combination Pliers: Two each Nos. 210 and 405, three No. 208, seven each Nos. 206 and 406 and three Hibbard Combination Pliers. W't per assortment 15 lbs., per assortment\$32.50

No. E22—OYB Plier Assortment.
The assortment contains following
OYB Pliers: Two each Nos. 27—5 in. and No. 208, three each Nos. 69 and 47—8 in. and six each Nos. 206 and 406. W't per assortment 13½ lbs.per assortment \$33.50

No. E18—OYB Plier Assortment
The assortment contains following
OYB Pliers: Four each Nos. 69 and 270, two each Nos. 27—5 in. and No. 77—6 in., three each No. 7 and No. 73—8 in. W't per assortment 13½ lbs.per assortment \$37.00

ONE ASSORTMENT IN A BOX

ONE ASSORTMENT IN A BOX

ONE ASSORTMENT IN A BOX

COMBINATION PLIERS



CVB, finely nickel plated, crucible steel, knurled handles, narrow jaw.

A combination gas plier, wire cutter, wrench and screw driver.

Nos.	206	208	210
Length, in.	6	8	10
W't doz., lbs.	6	9	12
Per dozen	\$16.00	20.00	24.00



Extra fine polished, coppered, and nickel plated, mirror buffed, wide spread Dentyne knurled handles, with U.S.A. shield. Will handle all sizes of spark plugs, pipes and nuts from 1/2 to 1 in., combines wire cutter, gas plier, wrench and screw driver.

No. 405 CVB —5 1/2 in., w't per doz.	
6 lbs.	per dozen \$15.00
No. 406 CVB —6 1/2 in., w't per doz.	
12 lbs.	per dozen \$16.00

ONE IN A BOX
HALF DOZEN IN A CARTON



REVSNOG

High grade tool steel, drop forged, combining gas plier, wire cutter, wrench and screw driver, knurled handles.

No. 322 REVSNOG —6 in., nickel plated, w't per doz. 6 lbs.,	
per dozen	\$7.60



REVSNOG

High grade tool steel, drop forged, combining gas plier, wire cutter, wrench and screw driver, knurled handles.

Nickel Plated.

Nos.	322 1/2	323
Length, in.	8	10
W't doz., lbs.	9	12
Per dozen	\$10.80	15.20

ONE IN A BOX



Knurled Handle.

No. 600 REVSNOG —6 in., nickel plated cast steel, combining side cutter, gas plier, screw driver and reamer, w't per doz. 6 1/2 lbs.	per dozen	\$11.50
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COMBINATION PLIERS



The thin bent nose is designed to be used on check nuts and similar work inaccessible with regular pliers.

No. 326 REVSNOG—Thin bent nose combination pliers, 6 in., nickel plated, forged steel, combining gas plier, wire cutter, wrench and screw driver, w't per doz. 5 1/2 lbs., per dozen

\$10.80



Combines the adaptability of a gas plier, a wire cutter, wrench and a screw driver. The curved lower jaw will force any object against the straight upper jaw for its entire length thus giving increased bearing surface. The straight jaw has a groove for holding wire and rods parallel with the jaws. This plier is especially convenient for handling all kinds of odd shaped screws, pins, etc.

No. 777 REVSNOG—Special combination, 7 in., finely nickel plated crucible steel, knurled handles, w't per doz. 7 lbs.

per dozen \$10.80



Nickel plated, combining gas plier, wire cutter, wrench and screw driver.

No. 305—Cruso, drop forged, 5 in., w't per doz. 4 1/2 lbs., per dozen \$5.00

No. 306—Cruso, drop forged, 6 in., knurled handle, w't per doz. 6 lbs., per dozen

\$5.00

ONE IN A BOX

Bolts and nuts, for No. 306, per dozen

\$1.00



CRUSO, nickel plated forged steel, combining gas plier, wire cutter, wrench and screw driver.

Nos.	308	310
Length, in.	8	10
W't per doz., lbs.	9	12
Per dozen	\$7.60	11.40

ONE IN A BAG

COMBINATION PLIERS



BERNARD

Forged steel, full nickel plated, knurled handles, combining side cutter, gas plier and screw driver. A universal slip-joint cutting plier. Jaws are formed to hold objects of any shape or form without slipping. The flush center pin and narrow nose increases the range and efficiency of the tool, while the broad scored handles are comfortable to the grip.

Nos.	605 1/2	607	608
Length, in.	5 1/2	7	8
W't per doz., lbs.	3 1/2	6 1/2	10
Per dozen	\$22.00	26.40	33.00

HALF DOZEN IN A BOX



Narrow jaw, especially useful for automobile work.

No. 97 REVSNOG—7 1/2 in., nickel plated thin jaw, forged tool steel, w't per doz. 7 lbs.

per dozen \$12.00

HALF DOZEN IN A BOX

SLIP JOINT NUT PLIERS



V AND B

No. 125—Forged tool steel, black finish. Milled jaws with wire cutter, designed especially for use on nuts or bolts; holds nuts 1/16 to 1 in. outside; w't per doz. 7 1/2 lbs., per dozen

\$16.00

HALF DOZEN IN A BOX

BURNER PLIERS



No. 6 **QVD**—6 in., full polished, drop forged tool steel, tempered in oil, w't per doz. 4½ lbs., per dozen\$11.50

HALF DOZEN IN A BOX



No. 06 **REVONOC**—6 in., extra quality steel, oil finished, polished jaws, w't per doz. 4½ lbs. ...per dozen \$10.90

HALF DOZEN IN A BOX

GAS PLIERS



QVD

Full polished, drop forged tool steel, tempered in oil.

Nos. — QVD	80	110
Inches	8	10
W't per doz., lbs.	8	11
Per dozen	\$13.90	17.20

HALF DOZEN IN A BOX



REVONOC

Cast steel, oil finished, polished jaws.

Nos.	8	10
Inches	8	10
W't per doz., lbs.	7½	11½
Per dozen	\$13.30	16.40

HALF DOZEN IN A BOX

STAPLE PULLERS



No. 19 **QVD**—Length, 10 in., forged tool steel, polished head, blued handles, combining staple puller, wire cutter, splicer and hammer, w't per doz. 22 lbs., per dozen\$30.00

ONE IN A BOX



No. 29 **REVONOC**—Length 10 in., forged steel, blued finish, combining staple puller, wire cutter, splicer and hammer, w't per doz. 22 lbs., per dozen\$28.00

ONE IN A BOX



No. 010—Hercules, cast steel, bright jaws, combining wire cutter, staple puller, splicer and hammer, length 10 in., w't per doz. 21 lbs., per dozen\$28.00

HALF DOZEN IN A BOX



No. 104—Black Bull, forged steel, polished jaws, blued handles, combining wire cutter, staple puller, splicer and hammer, length 10 in., w't per doz. 24 lbs., per dozen\$30.00

ONE IN A BOX

FENCING PLIERS



No. 12—Cronk's, forged tool steel, polished jaws, combining plier, wire cutter, staple puller and hammer, length 11 in., w't per doz. 21 lbs., per dozen\$30.00

HALF DOZEN IN A BOX

BUTTON PLIERS AND WIRE CUTTERS



Extra Quality Steel, Full Polished

A highly finished high grade tool for constant use, the handle is rounded and fits the hand

Nos.	474½	476	478	4710
Inches	4½	6	8	10
Cut wire No. 14	11	8	6	
W't, doz., lbs. 2½	4	7½	11	
Per dozen	\$13.20	15.00	18.00	22.80

HALF DOZEN IN A BOX



REVONOC

Stop joint, highest grade tool steel, full polished, beveled jaws, knurled handles.

When open, the wire cutters stop opposite each other so that the plier is always ready to receive the wire. The jaws are beveled to prevent breaking wire in twisting it.

Nos.	574½	576	578	5710
Inches	4½	6	8	10
Cut wire No. 14	11	8	6	
W't, doz., lbs. 2½	4	8	13	
Per dozen	\$12.60	14.30	17.20	21.50

HALF DOZEN IN A BOX



REVONOC

Stop joint, extra heavy wide jaws polished, forged from high grade tool steel.

Nos.	804½	806	808	8010
Inches	4½	6	8	10
Cut wire No. 14	11	8	6	
W't, doz., lbs. 3	6	10	17	
Per dozen	\$11.00	12.20	14.80	18.80

ONE IN A BOX

HALF DOZEN IN A CARTON



CRONK'S, Cast Steel, Bright Jaws

Nos.	198	200
Length, in.	8	10
W't, doz., lbs.	9	14
Per dozen	\$27.00	30.00

HALF DOZEN IN A BOX



CRUSO

Cast steel, polished jaws, black handles.

A strong, well made plier.

Nos.	506	508	510
Length, in.	6	8	10
W't, doz., lbs.	4½	9	13
Per dozen	\$11.40	13.80	18.20

HALF DOZEN IN A BOX

CARPENTERS' PINGERS



108, extra quality, black finish, knurled handles, with claw, screw driver and wire cutter.

Nos. 108	106	108	1010	1012
Length over all, in.	6	8	10	12
W't each, lbs.	5½	10	15	18
Per dozen	\$12.00	15.50	19.30	21.00

HALF DOZEN IN A BOX



166, extra quality, black finish, with claw, screw driver and wire cutter.

Nos. 166	166	168	1610	1612
Length over all, in.	6	8	10	12
W't each, lbs.	5½	10	15	18
Per dozen	\$11.20	14.60	18.80	20.60

HALF DOZEN IN A BOX



176, good quality, oil finish with claw and screw driver.

Nos. 176	176	177	178	1710
Length over all, in.	6	7	8	10
W't each, lbs.	5	9½	14	17
Per dozen	\$9.00	10.90	12.50	15.60

HALF DOZEN IN A BOX

PORTER'S BOLT CUTTER



Forged tool steel, adjustable jaws, japanned malleable iron handles, all parts interchangeable, ample adjustment to take up the wear on the cutting edges.

The O. K. Cutters are made to meet the demand for a lower priced bolt cutter than the regular New Easy, being a necessity for farm and household.

Length over all, in.	10	14
Cuts bolts up to, in.	10	14
W't each, lbs.	¾	1
Per dozen	1½	2½
Per case	\$4.00	4.50

TWENTY-FIVE IN A CASE



PORTER

Japanned malleable iron handles, tool steel jaws tempered for cutting bolts, rivets, wire, etc.

1855—Length overall 12 in., for bolts ¼ in. and smaller, w't per doz. 18 lbs. each \$2.35

LOOSE

* Items Marked Thus * Are Shipped From Factory Only.

PORTER'S BOLT CLIPPERS

PORTER'S "NEW EASY," compound lever action, forged tool steel adjustable jaws, japanned malleable iron handles, rubber buffers, all parts interchangeable.



These clippers have an adjustable set screw requiring no special shim or wrench.

Nos.	0	1
Length over all, in.	18	24
Cuts bolts up to, in.	¾	1
W't each, lbs.	3	5½
Each	\$6.00	8.00

HALF DOZEN IN A CASE

No. 0J—Extra Jaws, for No. 0 per pair \$3.30

No. 1J—Extra Jaws, for No. 1 per pair 4.00



PORTER'S "NEW EASY"—Equalizing device is in the gear teeth between the two jaws. Any degree of adjustment is secured by means of the set screw and eye bolt. Requires only an ordinary monkey wrench for use on all parts.

Nos.	2	3
Length over all, in.	30	36
Cuts bolts up to, in.	1	1½
W't each, lbs.	9	13
Each	\$11.40	14.60

HALF DOZEN IN A CASE

No. 2J—Extra Jaws, for No. 2 per pair \$5.70

No. 3J—Extra Jaws, for No. 3 per pair 7.20



PORTER'S "EASY"—Equalizing device is in the equalizing gears. Adjustment is secured by steps by the use of shims. Requires special wrench for use on lock nuts.

No. F11—For bolts ¾ in. and smaller, length 24 in., w't 4½ lbs.* each \$8.00

HALF DOZEN IN A CASE

No. F11J—Extra Jaws, for No. F11* per pair \$4.00



PORTER'S "EASY"—A steel shim and wrench is furnished with each clipper for adjusting.

No. F12—For bolts ½ in. and smaller, length 30 in., w't 7½ lbs.* each \$11.40

HALF DOZEN IN A CASE

No. F12J—Extra Jaws, for No. F12* ... per pair \$5.70

★ Pincers and Pliers Are Superior in Every Way. They Are Made of Fine Tool Steel, Carefully Tempered and Extra Finished.

SHOE PINCERS



PEXTO

No. 56—6 in. forged steel, polished jaws, black handles, made especially for shoe-makers, but is a handy tool for use about home, farm and garage. W't per doz. 7½ lbs., per dozen\$8.40

HALF DOZEN IN A BOX

BLACKSMITHS' PINCERS



Finest quality solid steel, polished jaws.

Nos.	1810	1812	1814
Inches	10	12	14
W't doz., lbs.	17	21	24
Per dozen	\$19.70	20.80	23.10

HALF DOZEN IN A BOX

FARRIERS' SHOEING PINCERS



No. 034—14 in., solid steel, polished jaws, w't per doz. 32½ lbs., per dozen\$39.60

SIXTH DOZEN IN A CASE



No. 2014—Heller's, 14 in., cast steel, polished jaws, w't per doz. 33 lbs., per dozen\$45.60

QUARTER DOZEN IN A BOX

HOOF CUTTING NIPPERS



EXTRA

Extra Tool Steel, Full Polished.

Nos.	520	540
Inches	12	14
W't doz., lbs.	21	23
Per dozen	\$36.00	42.00

HALF DOZEN IN A BOX



HIBBARD

Drop forged tool steel, polished jaws, the jaws on these nippers are so designed that great leverage is obtained making the work very easy when cutting.

Nos.	60	64
Length, in.	10	14
W't doz., lbs.	11	24
Per dozen	\$17.60	23.80

HALF DOZEN IN A BOX



HELLER'S Cast Steel, Full Polished.

Nos.	24A	24
Inches	12	14
W't doz., lbs.	21	31
Per dozen	\$45.60	54.80

HALF DOZEN IN A BOX



No. 1—13 in., hoof-nippers, drop forged tool steel, japanned, polished jaws, w't per doz. 19 lbs., per dozen\$22.00

HALF DOZEN IN A BOX

HOOF PARING NIPPERS



EXTRA

Extra Cast Steel, Full Polished.

Nos.	620	640
Inches	12	14
W't doz., lbs.	25	26
Per dozen	\$36.00	42.00

HALF DOZEN IN A BOX



REVONOC

Solid Steel, Polished Jaws.

Nos.	212	214
Inches	12	14
W't doz., lbs.	23½	25½
Per dozen	\$32.40	36.00

HALF DOZEN IN A BOX



HELLER'S, Cast Steel, Full Polished.

Nos.	23A	23
Inches	12	14
W't doz., lbs.	22	32
Per dozen	\$45.60	54.80

HALF DOZEN IN A BOX

LARSON PINCERS



Drop forged tool steel, japanned polished jaws.

No. 2H—Heavy, 13 in., w't per doz. 20 lbs.per dozen \$24.00

HALF DOZEN IN A BOX

★ Items Marked Thus ★ Are Shipped From Factory Only.

REYNOLDS KNIFE HANDLE



Forged steel bar through end of handle, case hardened jaws, two rows in handle.

Nos.	146	148	1410
Length, in.	6	8	10
Opening, in.	3/4	1 1/4	1 3/4
Doz. in a box	1/2	1/2	1/2
W't, doz., lbs.	9	16	26
Per dozen	\$15.00	18.00	22.00
Nos.	1412	1415	1418
Length, in.	12	15	18
Opening, in.	2 1/4	2 3/8	3 1/4
Doz. in a box	1/2	1/2	1/2
W't, doz., lbs.	38	55	80
Per dozen	\$28.00	38.00	48.00

HALF DOZEN IN A PACKAGE

COE'S STANDARD



Forged steel bar, head and screw, case hardened hardwood knife handle. Working surfaces hardened; handle ends retained at ends and in centre. Each integral part is a solid piece, no rivets in jaw, or pins in screw.

Nos.	106	108	1010	1012
Length, in.	6	8	10	12
Opening, in.	3/4	1 1/4	1 3/4	2 1/4
Doz. in pkg.	1/2	1/2	1/2	1/2
W't, doz., lbs.	8 1/2	16	26	38
Per dozen	\$15.00	18.00	22.00	28.00
Nos.	1015	1018	1015	
Length, in.	15	18	21	
Opening, in.	2 1/2	3 1/4	4	
Doz. in pkg.	1/2	1/2	1/2	
W't, doz., lbs.	56	81	108	
Per dozen	\$38.00	48.00	58.00	

HALF DOZEN IN A PACKAGE

TRIM MONKEY



ALL STEEL

Coverage increases in proportion to increased size of nut, as movable jaw travels forward instead of toward nut not rounded rendering them practicable to adjust. Threads of both jaw usually indestructible, all steel, drop-forged and hardened; the nut-guards keep the jaws in adjustment.

Nos.	176	178	1710	1712
Length, in.	6	8	10	12
Opening, in.	1 1/16	1 5/16	1 3/4	2 1/8
Doz. in box	1/2	1/2	1/2	1/2
W't, doz., lbs.	10	18	33	50
Per dozen	\$15.00	18.00	22.00	28.00
Nos.	1715	1718	1721	
Length, in.	15	18	21	
Opening, in.	2 5/8	3 1/4	4 1/8	
Doz. in box	1/2	1/2	1/2	
W't, doz., lbs.	73	102	162	
Per dozen	\$38.00	48.00	58.00	

WRENCHES

GIRARD AGRICULTURAL



Wrought steel bar, head and screw, oil finished hardwood handle.

Nos.	406	408	410
Length, in.	6	8	10
Opening, in.	3/4	1 1/4	1 3/4
W't, doz., lbs.	8	15	22
Per dozen	\$10.00	12.00	14.00
Nos.	412	415	
Length, in.	12	15	
Opening, in.	2	2 1/4	
W't per doz., lbs.	26	40	
Per dozen	\$18.00	24.00	

HALF DOZEN IN A PACKAGE

P. S. & CO.'S SOLID HANDLE



One piece, solid steel forging, case hardened, oil finished hardwood riveted handle, warranted.

Nos.	866	868	8610	8612
Length, in.	6	8	10	12
Opening, in.	3/4	1 1/4	1 3/4	2 1/4
Doz. in box	1/2	1/2	1/2	1/2
W't, doz., lbs.	9	16	26	38
Per dozen	\$15.00	18.00	22.00	28.00
Nos.	8615	8618	8621	
Length, in.	15	18	21	
Opening, in.	2 3/8	3 1/4	4	
Doz. in-box	1/2	1/2	1/2	
W't doz., lbs.	55	80	126	
Per dozen	\$38.00	48.00	58.00	

HALF DOZEN IN A PACKAGE

P. S. & CO.'S ALL STEEL



Head, bar and handle forged solid from one piece of steel, black.

Nos.	876	878	8710	8712
Length, in.	6	8	10	12
Opening, in.	3/4	1 1/4	1 3/4	2 1/4
Doz. in box	1/2	1/2	1/2	1/2
W't, doz., lbs.	10	18	33	50
Per dozen	\$15.00	18.00	22.00	28.00
Nos.	8715	8718	8721	
Length, in.	15	18	21	
Opening, in.	2 3/8	3 1/4	4	
Doz. in box	1/2	1/2	1/2	
W't doz., lbs.	73	102	162	
Per dozen	\$38.00	48.00	58.00	

ADJUSTABLE "S"



B. & C. WESTCOTT PATTERN, malleable frame, japanned, polished jaws and edges, adjustable.

Nos.	486	488	4810
Length, in.	6	8	10
Opening, in.	1	1 1/4	1 3/4
W't, doz., lbs.	6	12	24
Per dozen	\$8.00	10.00	12.00
Nos.	4812	4814	
Length, in.	12	14	
W't per doz., lbs.	36	57	
Per dozen	\$18.00	24.00	

HALF DOZEN IN A BOX



Adjustable wrenches, malleable frame, japanned, polished jaws and edges.

Nos.	756	758	7510
Length, in.	6	8	10
Opening, in.	1	1 1/4	1 3/4
W't, doz., lbs.	6	12	20
Per dozen	\$8.00	10.00	12.00

HALF DOZEN IN A BOX



ROBINSON

Drop forged, from high grade steel, natural finish, polished jaws.

There are two grooves on the movable jaw where it moves through the frame which adds considerably to the strength and firmness of this wrench. Jaws are also thinner than other wrenches which permits their use in places heretofore inaccessible. The opening in jaws are also wider.

Nos.	516	518	520
Length, in.	6	8	10
Opening, in.	1 1/4	1 3/4	1 3/4
W't doz., lbs.	7	11	22
Per dozen	\$16.80	21.00	28.00

HALF DOZEN IN A BOX

DROP FORGED STEEL WRENCHES



CRESCENT, single end, forged steel ribbed handle, special steel jaws, hardened, tempered and polished, 22½ degree angle engineer's wrench.

Nos.	504	506	508	
Size, in.	4	6	8	
Opening, in.	1	1 1/8	1 1/2	
W't per doz., lbs.	1 1/2	4	8	
Per dozen	\$12.15	12.15	15.00	
Nos.	5010	5012	5015	5018
Size in.	10	12	15	18
Opening, in.	1 1/2	1 5/8	1 3/4	2 1/8
W't, doz., lbs.	15	24	42	84
Per dozen	\$18.70	28.00	42.00	60.80

STOCK REPAIRS
Jaws.

Nos.	54	56	58	510	512
Size, in.	4	6	8	10	12
Per dozen	\$4.80	4.80	5.76	7.68	11.52

Thumb Knurls.

Per dozen	\$1.90	1.90	2.30	2.90	4.80
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Pins.

Per dozen	\$0.95	.95	.95	.95	1.90
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CRESCENT, double end, forged steel, ribbed handle, special steel jaws, hardened, tempered and polished, 22½ degree angle engineer's wrench.

Parts are interchangeable with Crescent single end wrenches.

Nos.	48	68	80	112
Size, in.	6	8	10	12
Opening, in.	1 & 1/2	1 & 3/4	1 & 7/8	1 & 1/2 to 1 & 3/4
W't, doz., lbs.	5	8 1/2	15	27
Per dozen	\$20.60	23.40	28.00	37.45

ONE IN A BOX



CARLL ADJUSTABLE

Polished jaws, natural finish handles. Drop forged from high grade steel, carefully hardened and tempered, sliding jaws are reversible and can be used for either nut or pipe wrench, also on square or hexagon nuts. Knurl fitted with spiral spring for holding adjustment.

Nos.	66	88	610
Size, in.	6	8	10
Opening, in.	1	1 1/8	1 1/2
W't per doz., lbs.	5	10	18
Per dozen	\$15.00	18.00	23.50

ONE IN A BOX
HALF DOZEN IN A CARTON

GENERAL PURPOSE WRENCHES



Drop Forged Steel, Semi-Finished, Case Hardened.

Nos.	475T	477T	479T
Size bolts, in.	1/8 to 1/2	1/8 to 1/2	1/8 to 1/2
Openings, in.	1 & 1/8	1 & 1/4	1 & 1/2
Length, in.	6 1/2	7 1/2	8 1/2
W't per doz., lbs.	2	3 1/2	6 1/2
Per dozen	\$3.50	4.30	5.50

Nos.	481T	483T
Size bolts, in.	1/8 to 1/2	1/8 to 1/2
Openings, in.	1 & 1/8	1 & 1/4
Length, in.	9 1/2	10 1/2
W't per doz., lbs.	9 1/2	14
Per dozen	\$7.10	9.00



Drop Forged Steel, Unfinished.

Nos.	475	477	479
Size bolts, in.	1/8 to 1/2	1/8 to 1/2	1/8 to 1/2
Openings, in.	1 & 1/8	1 & 1/4	1 & 1/2
Length, in.	6 1/2	7 1/2	8 1/2
W't per doz., lbs.	2	3 1/2	6 1/2
Per dozen	\$2.30	3.00	3.75

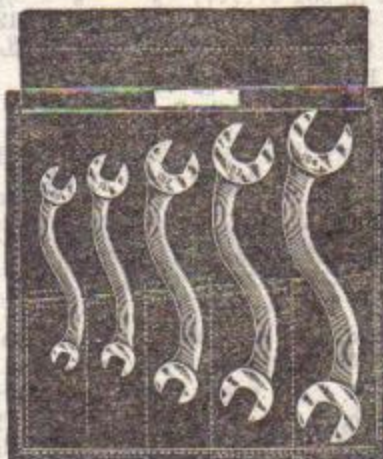
Nos.	481	483
Size bolts, in.	1/8 to 1/2	1/8 to 1/2
Openings, in.	1 & 1/8	1 & 1/4
Length, in.	9 1/2	10 1/2
W't per doz., lbs.	9 1/2	14
Per dozen	\$4.90	6.50

HALF DOZEN IN A BOX

GENERAL PURPOSE SETS IN BUNDLES

No. 105—One each Nos. 475, 477, 479, 481 and 483, w't per set 2 1/2 lbs., per set \$1.70

GENERAL PURPOSE SETS



Set consists of 5 wrenches, one each Nos. 475, 477, 481 and 483. For Bolts 1/8 to 1/2 in. In canvas rolls.

No. 110—Unfinished, drop forged, w't per set 2 1/2 lbs. per set \$1.90

No. 115—Semi-finished, case hardened, w't per set 2 1/2 lbs., per set \$2.40

DROP FORGED STEEL WRENCHES



UNFINISHED, double head, engineers' pattern, 15 degree angle, milled for U. S. standard nuts.

Nos.	21	23	25
Size bolts, in.	1/8 & 1/4	1/8 & 1/4	1/8 & 1/4
Openings, in.	1 & 1/8	1 & 1/4	1 & 1/2
Extreme length, in.	3 1/2	4	4 1/2
W't, doz., lbs.	2	2 1/2	2 1/2
Per dozen	\$1.60	1.80	2.15

Nos.	27	29	31
Size bolts, in.	1/8 & 1/4	1/8 & 1/4	1/8 & 1/4
Openings, in.	1 & 1/8	1 & 1/4	1 & 1/2
Extreme length, in.	5 1/2	6 1/2	7 1/2
W't, doz., lbs.	3 1/2	4 1/2	7
Per dozen	\$2.70	3.45	3.90

Nos.	33	35	37
Size bolts, in.	1/8 & 1/4	1/8 & 1/4	1/8 & 1/4
Openings, in.	1 & 1/8	1 & 1/4	1 & 1/2
Extreme length, in.	8 1/2	9 1/2	11 1/2
W't, doz., lbs.	8 1/2	12 1/2	18 1/2
Per dozen	\$4.80	5.90	8.50

Nos.	39	41
Size bolts, in.	1/8 & 1/4	1/8 & 1/4
Openings, in.	1 & 1/8	1 & 1/4
Extreme length, in.	13 1/2	13 1/2
W't, doz., lbs.	24	36
Per dozen	\$12.95	18.00

LOOSE

SEMI-FINISHED, double head, engineers' pattern, 15 degree angle, milled for U. S. standard nuts, case hardened.

Nos.	21T	23T	25T
Size bolts, in.	1/8 & 1/4	1/8 & 1/4	1/8 & 1/4
Openings, in.	1 & 1/8	1 & 1/4	1 & 1/2
Extreme length, in.	3 1/2	4	4 1/2
W't, doz., lbs.	2	2 1/2	2 1/2
Per dozen	\$2.15	3.25	3.25

Nos.	27T	29T	31T
Size bolts, in.	1/8 & 1/4	1/8 & 1/4	1/8 & 1/4
Openings, in.	1 & 1/8	1 & 1/4	1 & 1/2
Extreme length, in.	5 1/2	6 1/2	7 1/2
W't, doz., lbs.	3 1/2	4 1/2	7
Per dozen	\$4.00	4.80	5.80

Nos.	33T	35T	37T
Size bolts, in.	1/8 & 1/4	1/8 & 1/4	1/8 & 1/4
Openings, in.	1 & 1/8	1 & 1/4	1 & 1/2
Extreme length, in.	8 1/2	9 1/2	11 1/2
W't, doz., lbs.	8 1/2	12 1/2	18 1/2
Per dozen	\$7.10	8.80	12.40

LOOSE

**CHECK NUT OR THIN
WRENCHES**



WILLIAM'S

Semi-finished, drop forged, double head, 15 degree angle, milled for U. S. Standard nuts and cap screws.

Nos.	623	623D	625
Size Bolt, in.	1/8 x 1/4	1/4	1/4 x 3/8
Cap Screws, in.	1/8 & 1/4	1/4 & 3/8	1/4 & 1/2
Openings, in.	1/8 & 1/4	1/4 & 3/8	1/4 & 1/2
Extreme length, in.	4 1/2	4 1/2	4 1/2
Wt. doz., lbs.	1 1/2	1 1/2	1 1/2
Per dozen	\$3.60	3.60	3.60

Nos.	626S	627	629
Size Bolt, in.	1/8 x 3/8	3/8 x 1/2	3/8 x 3/4
Cap Screws, in.	3/8 x 1/2	1/2 & 3/4	1/2 & 5/8
Openings, in.	1/8 & 3/8	1/4 & 1/2	1/4 & 3/4
Extreme length, in.	5 1/2	5 1/2	6 1/2
Wt. doz., lbs.	3	3	5
Per dozen	\$4.60	4.60	5.75

Nos.	629E	631
Size Bolt, in.	1/8 x 1/2	1/8 x 3/4
Cap Screws, in.	1/8 & 1/2	1/8 & 3/4
Openings, in.	1/8 & 1/2	1/8 & 3/4
Extreme length, in.	6 1/2	6 1/2
Wt. doz., lbs.	5	5
Per dozen	\$5.75	5.75

Nos.	632	632X
Size Bolt, in.	1/8 x 1/2	1/8 x 3/4
Cap Screws, in.	1/8 & 1/2	1/8 & 3/4
Openings, in.	1/8 & 1/2	1/8 & 3/4
Extreme length, in.	8 1/2	8 1/2
Wt. doz., lbs.	9	9
Per dozen	\$8.00	8.00

PACKED LOOSE

WRENCH ASSORTMENTS



CAP SCREW WRENCH



WILLIAMS'

Semi-finished, drop forged, double head, 15 degree angle, for Hexagon Head Cap Screws.

Nos.	721	723	723A
Size, Screws	1/8 & 1/4	1/4 & 3/8	3/8 & 1/2
Openings, milled	1/8 & 1/4	1/4 & 3/8	1/4 & 1/2
Thickness, head	1/16	1/8	1/8
Extreme length, in.	3 1/2	4	4
W't, doz., lbs.	1	1 1/2	1 1/2
Per dozen	\$2.45	3.00	3.00

Nos.	725	725A	725B
Size Screws	1/8 & 3/8	1/8 & 1/2	1/8 & 3/4
Openings, milled	1/8 & 3/8	1/8 & 1/2	1/8 & 3/4
Thickness, head	3/32	3/32	3/32
Extreme length, in.	4 1/2	4 1/2	4 1/2
W't, doz., lbs.	2 1/2	2 1/2	2 1/2
Per dozen	\$3.60	3.60	3.60

Nos.	727	729
Size Screws	3/8 & 1/2	1/2 & 3/4
Openings, milled	1/8 & 3/8	3/8 & 1/2
Thickness, head	1/16	1/8
Extreme length, in.	5 1/2	6 1/2
W't per doz., lbs.	5	6
Per dozen	\$4.45	5.30

Nos.	731	731A
Size Screws	1/2 & 3/4	1/2 & 1
Openings, milled	1/8 & 1/2	1/8 & 3/4
Thickness, head	1/32	1/32
Extreme length, in.	7 1/2	7 1/2
W't per doz., lbs.	8 1/2	8 1/2
Per dozen	\$6.50	6.50

WRENCH ASSORTMENTS



All Semi-finished Wrenches. Use our 021T line to fill in for these assortments.

Eighty-four 15 degree angle, double head wrenches in 14 sizes.

SIX EACH OF THE FOLLOWING NOS.

THIN WRENCHES

No. 623D	Opening, in.	1/8 and 1/4
No. 626S		3/8 and 1/2
No. 627		1/2 and 3/4
No. 629E		3/4 and 1
No. 632		1 1/8 and 1 1/4
No. 632X		1 1/2 and 1 3/4

ENGINEERS' WRENCHES

No. 21	Opening, in.	1/8 and 1 1/8
No. 23		1 1/4 and 1 1/2
No. 725		1/8 and 1/4
No. 727		1/4 and 1 1/4
No. 731A		1/8 and 1 1/2
No. 32		2 1/2 and 3 1/2
No. 33C		1 1/2 and 1 3/4

No. 1D—Assortment on a 15x24 in. board, w't per ass't 41 lbs., per assortment \$39.50

ONE ASSORTMENT IN A BOX

CAR WRENCHES



UNFINISHED, 22 1/2 degree angle, milled for U. S. standard nuts.

Nos.	367	373
Size bolts, in.	3/8 & 1/2	1/2 & 3/4
Openings, in.	1 1/8 & 1 1/4	1 1/4 & 1 1/2
Length, in.	12	20
W't per doz., lbs.	18	42
Per dozen	\$7.60	14.90
Nos.	376	383
Size bolts, in.	3/8 & 1/2	1 & 1 1/4
Openings, in.	1 1/8 & 1 1/4	1 1/4 & 2
Length, in.	21	24
W't per doz., lbs.	48	77
Per dozen	\$18.50	30.80

LOOSE

GENUINE CRESCENT

No. E5—Consists of six each 4 and 10 in. and No. 68 twelve each 6 and 8 in., three each 12 in. and No. 80 one each 15 and 18 in., with handsome display board. This 26x25 in. board is made of selected quartered oak, five-ply veneered to prevent warping. It is surrounded by an ornamental molding. Upon the board is mounted a decalcomania transfer showing each wrench in its natural color and full size with the lettering in black and gold. The board is then given a high-rubbed varnish finish, in natural oak, equal to that of the finest furniture, w't each 75 lbs.each \$76.90

ALLIGATOR PATTERN



5½ in., cast steel, open handle, polished jaws, for ½ to 1 in. pipe and ¾ to 1 in. round iron.

No. 1 **CVB**—Case hardened, w't per doz. 3½ lbs. per dozen \$2.50
ONE DOZEN IN A BOX



Drop forged steel, polished raised jaws, open handle.

Nos. 12 13
Length, in. 5½ 7
For pipe, in. ½ to 1 ¾ to 2
For round iron, in. ¾ to 1 1 to 1½
W't doz., lbs. 4½ 9½
Per dozen \$4.00 7.20

NO. 12, ONE DOZEN; NO. 13, HALF DOZEN IN A BOX

TWIN ALLIGATOR PATTERN



No. 130 **CVB**—10 in., drop forged steel, polished raised jaws, for pipe ½ to 1 in., for round iron ¾ to 1 in., w't per doz. 15 lbs.
per dozen \$12.00

HALF DOZEN IN A BOX

RONSON



No. 204—6 in., drop forged nickel plated, carefully tempered, consists of 4 open end slotted wrenches fastened together with bolt and wing nut, wrenches fit U. S. Standard nuts on bolts from ½ to ¾ in. diameter, also has ¼ in. square opening in head of ½ in. wrench, w't per doz. 6 lbs. per dozen \$14.00

ONE IN A BOX, ONE DOZEN IN A CARTON

WRENCHES

CVB UNIVERSAL GRIP



Drop forged, nicely finished, guaranteed first class.

No. 850 **CVB**—8½ in., polished raised surfaces, grips from ¼ to 1 in. diameters, dies for re-threading ½, ¾ and 1 in. bolts, w't per doz., 11½ lbs. \$8.00

HALF DOZEN IN A PACKAGE

ALWAYS READY



Drop forged steel, chased body, polished raised jaws.

Nos. 101 102
Length, in. 5 7
For nuts, in. ½ to 1 ½ to 1½
W't doz., lbs. 6 12½
Per dozen \$6.40 8.40

HALF DOZEN IN A BOX

BOLT



No. 23 **CVB**—6 in., black, solid, cast steel of superior quality, oil tempered, re-threads, bolts 5-16, ¾ and 1 in., for round iron ¾ to 1 in., w't per doz. 3½ lbs. . . . per dozen \$6.00

ONE DOZEN IN A BOX

ELGIN



Jaw.



The upper part of wrench is adjustable and is held open by a spring. It can be closed by the thumb nut until both jaws meet, giving the tool a wide range of work. The extra jaws are very easily adjusted and they renew the wrench indefinitely.

No. 202—7 in., for ½ to 1 in. pipe and ¾ to 1 in. round iron, wrought steel, hardened jaws, nickel plated and polished, w't per doz. 7½ lbs.,
per dozen \$24.00

Extra Toothed Jaws 6.00
ONE DOZEN IN A BOX

ORUSO WRENCH SETS



These are strong serviceable wrenches at a very attractive price.

No. 125—Consists of five standard double end white nickel finish wrenches, made from heavy

stamped steel case, hardened steel case hardened, sizes range 7/16 and 1/2 and 19/32, ¾ and 11/16, 1 and 7/16 and 1 in., w't per set 1½ lbs., per set \$0.85
ONE SET IN A BOX

BIT BRACE SOCKET WRENCHES

Made of malleable, hardened steel to give the greatest strength. Nicely finished, japanned body, polished head and shank. Each size is accurately drifted to United States standard nut size. A shoulder prevents the nut working far up into the wrench and the open shank prevents clogging with dirt, also enabling the user to handle dirt, also enabling use of wrench in places where brace would not go.



Square opening for U. S. standard nuts, cap screws and set screws.

Nos. 152 153 154 155
Openings, in. ¾ 7/16 ¾ 1 19/32
Bolt size 7/16 . . . ¾ 1 1 1/8
Cap screw ¾ 7/16 ¾ 1
Set screw ¾ 7/16 ¾ 1
W't per doz., lbs. 1½ 1½ 2½ 2½
Per dozen . . . \$4.20 4.80 5.40 6.00

Nos. 156 157 158 159
Openings, in. ¾ 25/32 ¾ 1
Bolt size ¾ 7/16 ¾ 1 1/8
Cap screw ¾ ¾ ¾ . . .
Set screw ¾ ¾ ¾ 1
W't per doz., lbs. 3½ 4½ 5½ 6½
Per dozen . . . \$7.20 8.40 9.00 9.60



Hexagon openings for U. S. standard nuts and cap screws.

Nos. 167 168 169
Openings 7/16 ¾ 1 19/32
Bolt size ¾ 7/16 ¾ 1 1/8
Cap screws ¾ 7/16 ¾ 1
W't per doz., lbs. 1½ 2 2½
Per dozen \$4.80 5.40 6.00

Nos. 170 172 173
Openings, in. ¾ 25/32 ¾
Bolt size ¾ 7/16 ¾ 1 1/8
Cap screw 7/16 ¾ 1
W't per doz., lbs. 2½ 3½ 4½
Per dozen \$7.20 8.40 9.00
ONE DOZEN IN A BOX

GENUINE STILLSON PIPE WRENCHES



Drop forged tool steel, hardened jaws and frame, polished shank and frame. Movable steel pin holds frame in handle.

Double Spring, Hardwood Handle.

Nos.	206	208	2010	2014
Inches	6	8	10	14
For pipe, in.	1/2 to 3/4	3/4 to 1	1 to 1 1/4	1 1/4 to 1 1/2
W't, doz., lbs.	6	9	19	38
Per dozen	\$24.00	27.00	30.00	42.00



Double Spring, Solid Steel Handle.

Nos.	2018	2024	2036	2048
Inches	18	24	36	48
For pipe, in.	2 to 2 1/2	2 1/2 to 3	3 to 3 1/2	3 1/2 to 5
W't, doz., lbs.	54	96	180	300
Per doz.	\$82.00	87.00	162.00	240.00

TO A HALF DOZEN; 36 IN., SIXTH DOZEN IN A BOX; 48 IN., LOOSE

EXTRA PARTS FOR STILLSON WRENCHES

Inches	6	8	10	14
Nuts	\$9.00	9.60	10.20	13.80
Insert Jaws	1.44	1.80	2.40	3.60
Frames	4.56	5.04	6.00	7.20
Frame Pins	.36	.36	.48	.48
Inches	18	24	36	48
Mov. Jaw	\$21.00	27.00	52.20	90.00
Nuts	4.20	6.60	13.20	18.00
Frames	9.00	11.40	20.40	26.40
Frame Pins	.48	.48	.60	.60

VILCAN PIPE WRENCHES



Drop forged steel, saw tempered jaw, flat link chain.

Nos.	031	032	033
For pipe, in.	1 to 1 1/2	1 1/2 to 2 1/2	2 1/2 to 4
Length, in.	20	27	37
W't, doz., lbs.	60	120	192
Per dozen	\$42.00	60.00	84.00
Nos.	033 1/2	034	035
For pipe, in.	1 to 6	1 1/2 to 8	2 to 12
Length, in.	44 1/2	50 1/2	64 1/2
W't, doz., lbs.	252	348	588
Per dozen	\$108.00	132.00	216.00

GENUINE TRIMO PIPE WRENCHES

Drop forged bar steel hardened jaws and frame, insert jaw and frame fastened to handle with movable pin, with nut guard to hold in place, japanned handle, polished head and jaws.



Hardwood Handle.

Nos.	226	228	2210	2214
Inches	6	8	10	14
For pipe, in.	1/2 to 3/4	3/4 to 1	1 to 1 1/4	1 1/4 to 1 1/2
W't, doz., lbs.	6	9	19	40
Per dozen	\$24.00	27.00	30.00	42.00



Solid Steel Handle.

Nos.	256	258	2510	2514
Inches	6	8	10	14
For pipe, in.	1/2 to 3/4	3/4 to 1	1 to 1 1/4	1 1/4 to 1 1/2
W't, doz., lbs.	6	9	19	40
Per dozen	\$24.00	27.00	30.00	42.00
Nos.	2518	2524	2536	2548
In.	18	24	36	48
For pipe, in.	2 to 2 1/2	2 1/2 to 3 1/2	3 1/2 to 5	5 to 6
W't, doz., lbs.	60	96	192	300
Per doz.	\$60.00	87.00	162.00	240.00

EXTRA PARTS FOR TRIMO WRENCHES.

Inches	6	8	10	14
Movable Jaw	\$9.00	9.60	10.20	13.80
Nuts	1.44	1.80	2.40	3.60
Insert Jaws	4.20	4.80	6.00	7.20
Frames	4.56	5.04	6.00	7.20
Springs	.36	.36	.36	.36
Frame Pins	.36	.36	.48	.48
Jaw Pins	.36	.36	.48	.48
Nut Guards	1.80	1.80	2.40	3.60
Inches	18	24	36	48
Mov. Jaw	\$21.00	27.00	52.20	90.00
Nuts	4.20	6.60	13.20	18.00
Insert Jaws	8.40	9.60	13.20	24.00
Frames	9.00	11.40	20.40	26.40
Springs	.48	.48	.48	.48
Frame Pins	.48	.48	.60	.60
Jaw Pins	.48	.48	.60	.60
Nut Guards	4.20	5.40	6.60	7.80

TRIMO AUTO PIPE WRENCHES



Narrow jaw, drop forged bar, steel hardened jaws, and frame. Frame fastened to handle with movable pin and fitted with nut guards to hold jaw in place. Japanned handle, polished head and jaws.

Jaws are narrower than in regular wrench and teeth are milled finer.

Nos.	266	268	2610
Inches	6	8	10
For pipe, in.	1/2 to 3/4	3/4 to 1	1 to 1 1/4
W't, doz., lbs.	5	8	15
Per dozen	\$24.00	27.00	30.00

HALF DOZEN IN A BOX

COMBINATION WRENCHES

BEMIS & CALLS



Tool steel, hardened jaws, polished hardwood handle. Bright with long nut.

Nos.	4510	4512	4515
Inches	10	12	15
Opening, in.	2 1/2	3 1/2	3 3/4
For pipe, in.	1 to 1 1/2	1 1/2 to 2 1/2	1 1/2 to 2 1/2
W't per doz., lbs.	29	43	58
Per dozen	\$30.00	36.00	48.00

HALF DOZEN IN A BOX

TRIMO PIPE CUTTERS



Drop forged, cast steel handle with iron grip, case hardened, rolls on pins, with cutter and two rollers.

Nos.	551	552	553
Sizes	1	2	3
Length, in.	15	18	19
For pipe, in.	1/2 to 1 1/2	1/2 to 2	1 1/2 to 3
W't, doz., lbs.	60	66	84
Per dozen	\$54.00	72.00	120.00
Extra cutters	\$4.80	4.80	6.00

LOOSE

BARNES' PIPE CUTTERS



Three wheel, malleable frame, crucible steel cutters and pins.

Nos.	1	2	3	4
For pipe, in.	1/2 to 1	1/2 to 2	1 1/2 to 3	2 1/2 to 4
W't, doz., lbs.	36	51	96	150
Per doz.	\$54.00	72.00	120.00	240.00
Extra cutters, per doz.	\$3.00	3.60	4.80	6.00

LOOSE

PICK-UP TONGS



No. 201—22 in., drop forged steel, oil finished, for picking up hot iron, w't 3 1/4 lbs. per dozen \$19.50
LOOSE

GAD TONGS



No. 202—20 in., drop forged steel, oil finish, w't per doz. 27 lbs., per dozen\$16.60
LOOSE

BOLT TONGS



Drop Forged Steel, Oil Finished.

For holding bolts and round iron. When ordering, give size of iron instead of length.

Nos.	2033	2034
Size of iron, in.	1/2	3/4
Length, in.	20	20
W't each, lbs.	21	21
Per dozen	\$16.60	16.60

Nos.	2035	2036	2037
Size of iron, in.	1/2	3/4	7/8
Length, in.	22	22	24
W't each, lbs.	31	31	31
Per dozen	\$19.00	19.00	20.00

LOOSE

STRAIGHT LIP TONGS



Drop Forged Steel, Oil Finished.

Nos.	01	1	2
Length, in.	16	18	20
W't each, lbs.	1 1/2	2	2 1/2
Per dozen	\$12.80	13.20	14.20

Nos.	3	4
Length, in.	22	24
W't each, lbs.	3	3 1/2
Per dozen	\$15.20	17.10

LOOSE

HORSESHOERS' TONGS



Drop Forged Steel, Oil Finished.

Nos.	0	00
Length, in.	12	14
W't doz. lbs.	18	20
Per dozen	\$11.20	11.00

LOOSE

COLD CUTTERS OR CHISELS



Cold Forged Steel, Oil Finished.

Nos.	2269	22610
Size square steel, in.	1 1/2	1 1/2
W't per doz., lbs.	18	24
Per dozen	\$11.40	12.70

Nos.	22611	22612
Size square steel, in.	1 1/2	1 1/2
W't per doz., lbs.	30	36
Per dozen	\$16.30	19.30

LOOSE

HOT CUTTERS OR CHISELS



HOT

Nos.	2279	22710
Size square steel, in.	1 1/2	1 1/2
W't per doz., lbs.	18	24
Per dozen	\$11.40	12.70

Nos.	22711	22712
Size square steel, in.	1 1/2	1 1/2
W't per doz., lbs.	30	36
Per dozen	\$16.30	19.30

LOOSE

WFLATTERS



Forged Steel, Oil Finished.

Nos.	2292	2292 1/2	2293
Size square face, in.	2	2 1/2	3
W't doz. lbs.	18	45	63
Length over all, in.	4 1/2	5	5 1/2
Per dozen	\$19.30	25.40	32.00

LOOSE

HARDIES



Forged Steel, Oil Finished.

Nos.	2254	2255	2256
Size of shank, in.	1/2	3/4	1
Cutting edge, in.	1 1/2	1 1/2	1 1/2
W't, doz., lbs.	6	9	12
Per dozen	\$8.00	8.60	9.80

Nos.	2257	2258
Size of shank, in.	3/4	1
Cutting edge, in.	1 1/2	2
W't per doz., lbs.	18	21
Per dozen	\$11.40	12.70

LOOSE

RALLIS



1 1/2 in. jaws, steel screw with handle, w't per doz. 7 lbs., per dozen\$27.00
HALF DOZEN IN A BOX

BONNEY PATTERNS



1 1/2 in. jaws, steel screw with wrought iron head, w't per doz. per dozen\$12.00
LOOSE



Steel screw with wrought iron head. Width jaw, in. 1 1/2 02
..... 2 1/2 2
..... 18 24
.....\$13.50 18.80
LOOSE



Steel screw with wrought iron head, special attachment. Width jaw, in. 03 04
..... 2 1/2 2 1/2
..... 33 60
.....\$22.50 34.50
LOOSE

VICES



No. 741



No. 761

ALL CLAMP BOTTOM, PLAIN IRON JAWS

Nos.	741	742	743
Width jaw, in.	1 1/2	1 3/4	2
W't, doz., lbs.	36	39	42
Per dozen	\$27.40	32.40	38.00
Nos.	745	746	
Width, jaw, in.	2 1/2	3	
W't, doz., lbs.	60	105	
Per dozen	\$53.80	83.80	

ALL CLAMP BOTTOM, STEEL FACED JAWS

Nos.	761	762	763
Width, jaw, in.	1 1/2	1 3/4	2
W't, doz., lbs.	36	39	42
Per dozen	\$34.80	39.80	46.80
Nos.	765	766	
Width, jaw, in.	2 1/2	3	
W't doz., lbs.	60	105	
Per dozen	\$63.80	93.80	



LOOSE

Swivel base, steel faced jaw.

Nos.	772	773	775	776
Width, jaw, in. 1 1/2		2	2 1/2	3
W't, doz., lbs. 36		42	66	114
Per dozen. .	\$39.80	48.00	70.30	96.00

LOOSE

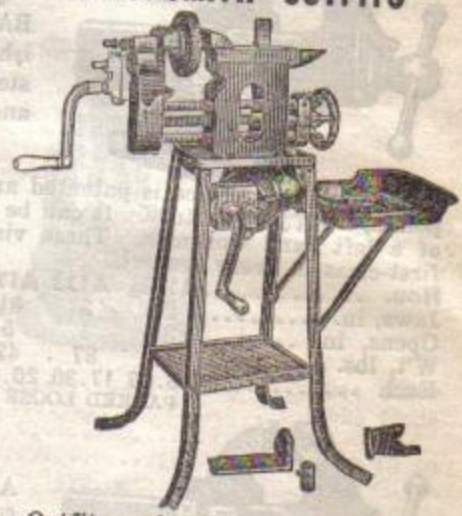


Fitted with loose malleable iron nut and solid steel screw. Face of jaw ground so that the jaws come up square, screw works easy and smooth. Body finished with a brown baked japan, working parts highly polished.

No. A12 Assortment—Consisting of display stand and 12 Victor Vises, w't 65 lbs. ...per assortment \$43.60
Consisting of the following—

2 No. 741	1 No. 744	1 No. 761
2 No. 742	1 No. 745	1 No. 763
2 No. 743	1 No. 746	1 No. 772

CHAMPION IMPROVED COMBINATION BLACKSMITH OUTFITS



Outfit, equipped with Forged, Vise, Anvil, Pipe Vise, Drill Press and Emery Grinder, strictly a high grade combination tool built for service.

Gears are all cut. Forge pan 12x14 inches, large enough to take a plow-share. Pan cut away so that a plow-share can be put into it. The Blower-head attached is a real cut-gear, high speed outfit that runs silent, is speeded high enough to produce a white pressure heat so that welding can be done on any work.

Emery wheel is screwed on stud between vise jaws attached to high speed gear on this gear box, two substantial bearings—one on each side of vise jaws—support this wheel, making it a rigid, practical, durable grinder.

Screw accurately cut and two heavy shafts support vise so that jaws meet perfectly without lost motion.

Pipe vise operates without any change whatever. No parts are removed or lost and this machine takes pipe up to two inches.

Legs are angle steel, well riveted to top plate and tool tray, two steel rods support forge pan.

Height over all	40 in.
Height to top of Forge Hearth.	26 in.
Width of Vise Jaws	4 in.
Extreme opening of Vise Jaws	4 1/2 in.
Capacity of Pipe Vise	2 in.
Capacity of Drill Press	3/4 in.
Greatest distance from Spindle to Table	11 in.
Spindle bored to take	3/8 in.
Face of Anvil	3x5 1/2 in.
Size of Hardie	8 in.
Size of Forge Hearth	12x14 in.
Depth of Forge Hearth	2 1/2 in.
Speeds obtained by gearing	1 to 1, 1 to 4 and 1 to 14
Size of Emery Wheel	6x1 in.
Floor Space	19x32 in.
Weight Crated	185 lbs.
No. W19—Each	\$46.00

VICES

REYNOC MACHINIST



REYNOC SWIVEL BASE, dead black finish, removable polished steel face jaws, milled and fitted.

The swiveling device is patented and is operative at all points, a REYNOC feature. It can be converted to the use of a left hand workman. These vises are exceptionally first-class in every respect.

Nos.	A172½	A173	A173½	A174	A174½	A175
Jaws, in.	2½	3	3½	4	4½	5
Opens, in.	3½	4	5	6	6½	7½
W't, lbs.	18	27	42	58	76	104
Each	\$16.00	17.30	20.00	22.60	26.60	40.00

PACKED LOOSE

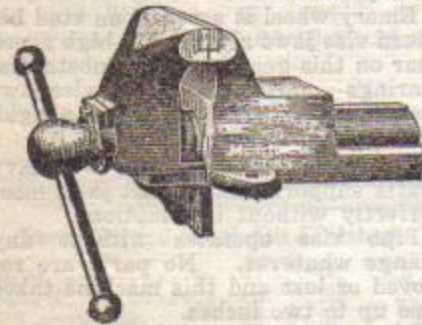


REYNOC STATIONARY BASE, dead black finish, removable polished steel face jaws, milled and fitted.

Nos.	A162½	A163	A163½	A164	A164½	A165
Jaws, in.	2½	3	3½	4	4½	5
Opens, in.	3½	4	5	6	6½	7½
W't, lbs.	15	23	35	43	61	82
Each	\$12.00	13.30	15.00	17.00	20.70	26.60

PACKED LOOSE

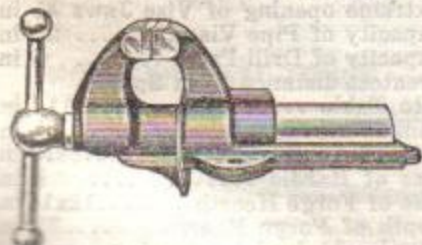
OVAL SLIDE



PARKER'S polished steel jaws, covered wrought iron screw.

Nos.	A30	A31	A32
Jaws, in.	2½	3	3½
Opens, in.	3½	4	4
W't, lbs.	8½	13	20
Each	\$5.60	6.80	8.30

LOOSE



Grey iron castings, cold rolled steel screw, crucible steel jaws, steel nut, black satin finish, polished face and jaws.

Nos.	A230	A231	A232
Jaws, in.	2½	3	3½
Opens, in.	3½	4	4½
W't, lbs.	8	14	22
Each	\$4.00	5.00	6.00

OVAL SLIDE



EMPIRE, solid steel, hardened jaws, nicely finished.

Nos.	A025	A030	A035	A040
Jaws, in.	2½	3	3½	4
Opens, in.	3½	4½	4½	5½
W't, lbs.	8	10	14	20
Each	\$7.50	9.00	12.00	15.00

PACKED LOOSE

YANKEE



All parts are accurately machined. For use on Bench Drills or attached separately to bench.

No. 990—Main body and sliding jaw cast iron, 6x2½x2 in. high, jaws open 3 in., removable case hardened swivel jaw, w't per doz. 48 lbs. each \$4.40

YANKEE SWIVEL

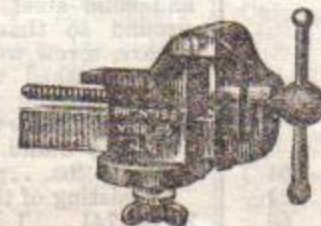


Vise is especially adapted for use in garage and home and for tool makers and machinists. While used on the bench the Vise proper can be quickly detached from base, and without removing work from Vise, can be used on Bench Drill, etc., and returned to base again.

No. A1993—7½ in. long, 5½ in. high, 2½ in. wide, 1½ in. deep, opens 3½ in., steel face jaws and screw, main body machined finish, japanned base, steel block with V shaped grooves for holding round or irregular work, main body can be removed for use on drill press, swivel base is operated by small lever, size boxed 9x5x6 in., w't each 15 lbs. each \$12.50

ONE IN A BOX

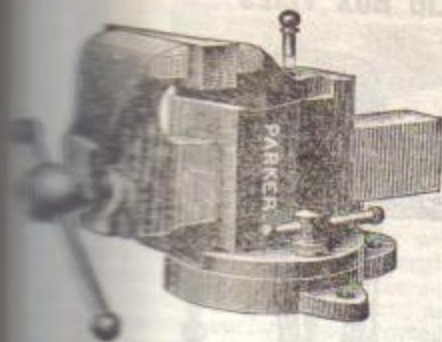
GARAGE VISES



Stationary Base with central Bolt, Nut and Washer for fastening to bench, also provided with bolt holes for permanently securing to bench. 3 in. steel jaws, opens 3½ in. Can be used as either Stationary or Swivel Bottom Vise.

No. A161½—W't each 12 lbs. each \$7.20

VICES

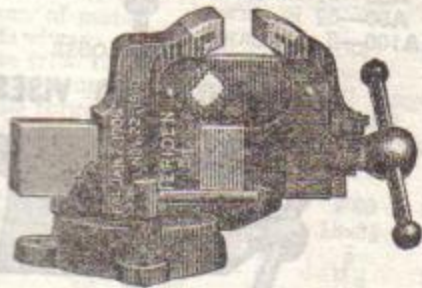


Swivel base, self-adjusting back jaw, polished steel faces, milled and fitted.

	A270	A271	A272	A273	A275
.....	31	32	41	5	61
.....	31	5	6	7	91
.....	28	51	60	80	176
.....	\$23.30	26.60	37.30	46.60	80.00

LOOSE

PARKER'S COMBINATION



	A87	A88
.....	32	41
.....	2	3
.....	41	61
.....	48	71
.....	\$24.00	30.00

PACKED LOOSE

COMBINATION



Stewart Handy Worker, consists of a combination steel vise, pipe vise, emery wheel and drill, 4 in. pipe vise takes pipe up to 1 1/2 in., drill may be operated at two speeds, 5 in. carborundum may be operated at three speeds, main body made of cast iron, entire tool and attachments are first quality material finished in green enamel, w't eacheach \$40.50

ONE SET IN A BOX

PIPE

Malleable iron frame, polished solid tool steel milled jaws, oil hardened, self locking, all parts interchangeable.



Nos.	A211	A212
For pipe, in.	1/2 to 2 1/2	1/2 to 3 1/2
W't each, lbs.	8	14
Each	\$6.30	10.30

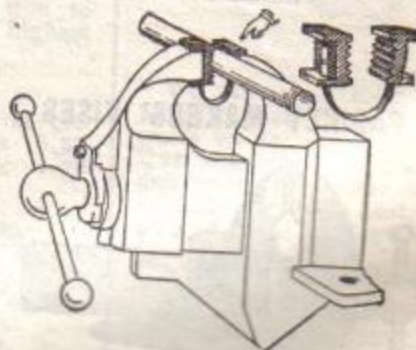
LOOSE



No. A25—Malleable iron, steel jaws, hinged frame with hook lock, for pipe 1/2 to 2 in., w't 6 lbs.....each \$4.80

LOOSE

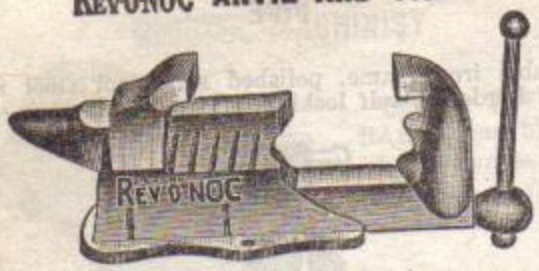
ELGIN PIPE VISE JAWS



No. 15—Two pieces of toothed steel 1 1/2 x 1 1/2 in., riveted together with a steel spring, for use with any vise, w't per doz. 18 lbs.per dozen \$5.00

PACKED ONE DOZEN IN A BOX

REVONOC ANVIL AND VISE



No. A24 REVONOC—4 in. steel faced milled jaws, opens 12 in., back jaw adjustable to any desired position, securely held in position by corrugations on either side, pipe holding device holds from 1/4 to 2 in. pipe, 3/4 in. solid steel screw, face of anvil chilled and polished, size not including horn 8x3 in., painted green, w't each 51 lbs., each\$8.00

ONE IN A BOX

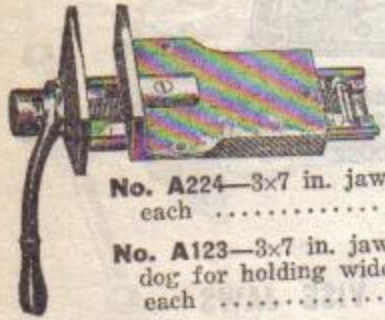


REVONOC DRILL ATTACHMENTS

No. A124 REVONOC—For use with No. A24 REVONOC Anvil and Vise, w't 15 lbs.each \$4.80

ONE IN A CARTON

WOODWORKERS' VISES



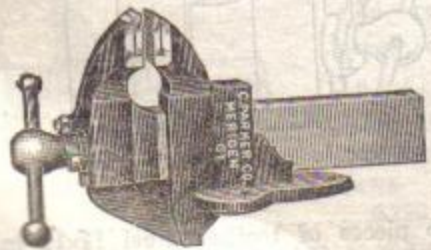
SHELDON'S rapid acting, rigid jaws, forged steel rack, accurately milled, 3/16 to 5/16 in. thrust.

No. A224—3x7 in. jaws, opens 9 in., w't 24 lbs., each\$12.80

No. A123—3x7 in. jaws, opens 8 1/2 in., with steel dog for holding wide material, w't 27 lbs., each\$15.00

PACKED LOOSE

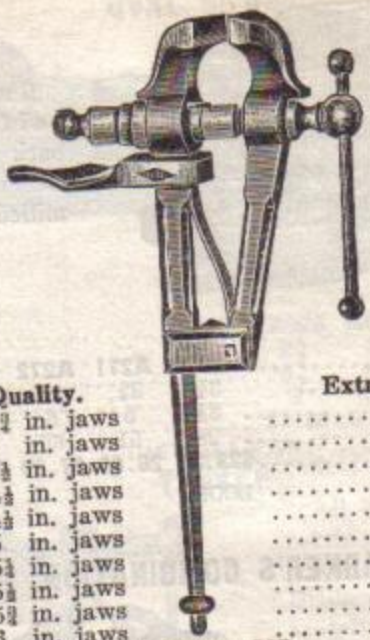
CABINET MAKERS' VISES



No. A43—Parker's 4 1/2 in. jaws, opens 9 1/2 in., 1/2 in. screw, w't 57 lbs.each \$23.30

PACKED LOOSE

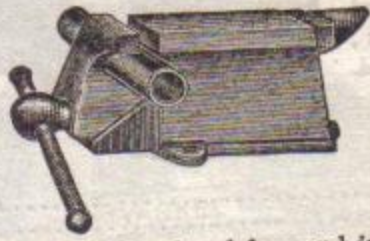
SOLID BOX VISES



Extra Quality.		Extra Finish.	
No. A35	—3 1/2 in. jaws	.....each	\$ 8.80
No. A40	—4 in. jaws	.....each	9.30
No. A45	—4 1/2 in. jaws	.....each	9.70
No. A50	—4 3/4 in. jaws	.....each	10.00
No. A55	—4 3/4 in. jaws	.....each	10.60
No. A60	—5 in. jaws	.....each	11.40
No. A70	—5 1/2 in. jaws	.....each	13.20
No. A80	—5 1/2 in. jaws	.....each	15.40
No. A90	—5 3/4 in. jaws	.....each	17.60
No. A100	—6 in. jaws	.....each	19.40

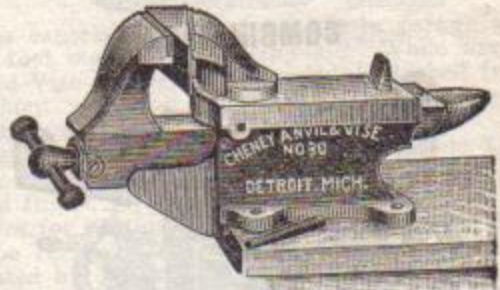
PACKED LOOSE

ANVILS AND VISES



AUSTIN'S hardened face and jaws.
No. A13—3 in. jaws, 4 in. opening, piper's jaws, 7 1/2 x 3 in. anvil face, w't 22 lbs.each \$3.60

PACKED LOOSE



CHENEY'S, self-adjusting back jaw, tempered steel face, chilled steel anvil, smooth face, solid steel hardy cutting-off tool.

The back jaw of the vise is self-adjusting and in use conforms by automatic action to any angle and makes firm any objects held, whether it be straight, beveled or wedge shape.

Nos.	A120	A130	A140
Face, in.	6 1/2 x 3	8 x 3 1/2	8 1/2 x 4
Jaws, in.	3 1/2	3 1/2	4 1/2
Opens, in.	4	5	6
W't, lbs.—less crate	26	35	51
Each	\$16.40	18.70	23.00

ONE IN A CRATE

REVONOC ANVILS



Made from American ingot or wrought iron, welded at the waist, thus making a solid forging to which is welded a high grade crucible cast steel face—the best obtainable—which in turn is ground, tempered and polished, forming a perfect working surface, body coated with pure asphaltum paint. The wrought iron being fibrous is very tough, and will withstand more hard usage than any other metal used in the manufacture of anvils, while nothing but the very best grade of tool steel will form a working surface that is satisfactory to the smith desiring a high grade article.

Fully Warranted.

Revonoc anvils have a greater surface area for their weight than any other on the market, owing to the correct distribution of the metal. For illustration: a REVONOC anvil 14 inch by 14 inch surface weighs 100 pounds, and frequently less; in order to obtain this same surface in an anvil of other makes, the user is often compelled to buy 150 pounds or more of metal.

Width of base is always equal to height, so they will not break loose from fastenings by side blows.

The long horn is round throughout its full length, a perfect ring can be forged and welded at any point.

The long tail admits of bending small perfect U shapes, and leaves a large surface for welding.

Nos.	F50	F60	F70	F80	F90
Dimen. of face, in.	11½×3¼	12×3¼	12½×3¼	13×3¼	13½×3¼
Size hardie hole, in.	¾	¾	¾	¾	¾
Size pritchel hole, in.	¾	¾	¾	¾	¾
W't about, lbs.	50	60	70	80	90
Per pound	\$.035★	.30★	.30★	.30★	.30★

Nos.	F100	F120	F150	F200
Dimen. of face, in.	14×3¼	15×3¼	15½×4	17½×4¼
Size hardie hole, in.	1	1	1	1½
Size pritchel hole, in.	¾	¾	¾	¾
W't about, lbs.	100	120	150	200
Per pound	\$.030★	.30★	.30★	.30★

HAND OR MOULDERS' BELLOWS



Fancy grained wood boards, galvanized sheet steel funnel, select tan cowhide leather, with studded black reinforcing border.

Size 4—Inches	7	8	9
Length, in.	14½	15½	17½
W't, lbs.	12	13½	14½
Per dozen	\$22.00	25.00	28.20
Size 4—Inches	10	12	
Length, in.	18	21½	
W't, lbs.	19	33	
Per dozen	31.30	40.80	

LUMP BORAX

Size 17—Lump, 100 lb. bags or less, per pound \$0.25

VULCAN ANVILS



Cast Iron Body with Welded Steel Face.

The face is welded to the body by a patent process, then accurately ground and tempered. The horn is covered with and at its extremity is made entirely of steel. The face and horn are warranted to be thoroughly welded to the body and not to separate.

Nos.	F00	F0	F1	F2
Dimen. of face, in.	1½×4¾	2½×5½	2½×5½	2½×6
Size of hardie hole, in.	½	½	½	½
Size of pritchel hole, in.	½	¾	¾	¾
W't about, lbs.	5	10	15	20
Per pound	\$.080★	.55★	.45★	.40★

Nos.	F3	F4	F5	F6
Dimen. of face, in.	2¼×7½	3×7½	3×8½	3¼×10½
Size of hardie hole, in.	¾	¾	¾	¾
Size of pritchel hole, in.	¾	¾	¾	¾
W't about, lbs.	30	40	50	60
Per pound	\$.030★	.25★	.25★	.20★

Nos.	F7	A8	A9	A10
Dimen. of face, in.	3¼×11	3¼×11½	3½×12	3½×12½
Size of hardie hole, in.	¾	¾	¾	¾
Size of pritchel hole, in.	¾	¾	¾	¾
W't about, lbs.	70	80	90	100
Per pound	\$.020★	.20	.20	.20

Nos.	A12	A15
Dimen. of face, in.	3½×12½	4×14½
Size of hardie hole, in.	1	1
Size of pritchel hole, in.	¾	¾
W't about, lbs.	120	150
Per pound	\$.020	.20

WELDING COMPOUND



Cherry heat welding compound, welds iron to iron, steel to steel, and malleable iron to steel and is the highest grade of welding flux.

No. W00—In 100 lb. boxes, per box	\$21.50
No. 0—In 25 lb. boxes	5.50
No. 1—In 5 lb. boxes	1.20

CLEMAX, especially adapted for tires, axles and general job work, recommended for iron and all grades of steel, including tool steel.



No. W01—In 100 lb. boxes, per box	\$19.50
No. 02—In 25 lb. boxes	5.00
No. 2—In 5 lb. boxes	1.10



We guarantee "E-Z" Welding Compound to make stronger and smoother welds on any grade of steel or iron than any other. It does not boil up and waste like other compounds do. It welds at a lower heat, prevents slipping of parts and leaves no scale.

No. W100—In 100 lb. boxes, per box	\$19.50
No. 25—In 25 lb. boxes, per box	\$5.00
No. W5—In 5 lb. boxes, per box	\$1.10

WE DO NOT BREAK BOXES

* Items Marked Thus * Are Shipped From Factory Only.

WE DO NOT BREAK BOXES

CHAMPION BLACKSMITH'S GOODS

HAND BLOWERS



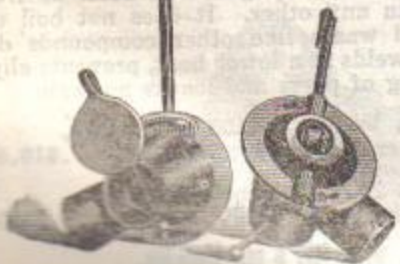
No. W400—Best tool steel and phosphor bronze working parts, highest grade tool steel adjustable ball bearings throughout, lathe turned cups and cones hardened and ground to highest possible finish, 12 in. fan, full width fan wing insuring large volume of air and high pressure with easy turning. Each revolution of crank produces 46 full revolutions of fan wing with "whirlwind" blast anti-clinker heavy nest tuyere iron and piping, w't 160 lbs., each\$61.40

A well built, helical cut gear blower, smooth running, crank turns either way to make the blast.



No. W40—Lancaster, cut geared, crank motion, 12 in. fan, adjustable nozzle tuyere iron and piping, w't 125 lbs., each ...\$38.00

CHAMPION TUYERE PATENT IRON



No. F13—adjustable w't 10 lbs., each\$.....
ALL ABOVE IN A CRATE

HAND BLOWERS



Meets the demand for strong, dependable direct driven blower no so expensive as the No. 400 or "Midway."
No. W40L—Champion Lancaster, cut geared blacksmith's, adjustable nozzle, tuyere iron and piping complete, smooth running, crank turns either way to make blast, 12 in. fan, w't 110 lbs., each\$38.00

CHAMPION WHIRLWIND TUYERE IRONS



No. F5—depth 5 in., width 8 3/4 in., length over all 12 1/2 x 14 1/4 in., w't 12 lbs.each \$.....

NEW CHAMPION DISC WHEEL



Strictly first class in all parts. Blades are made of special rolled steel and mechanically fit into a grooved hub where they are securely fastened.

Nos.	F18	F20	F30
Diam. pulley in.	4	4	6
Face pulley, in.	2	2	2
Diam. wheel, in.	18	24	30
W't, lbs.	90	105	135
Each	\$.....*	\$.....*	\$.....*
Nos.	F36	F42	F48
Diam. pulley, in.	6	8	9
Face pulley, in.	2	3 1/2	4
Diam. wheel, in.	36	42	48
W't, lbs.	150	295	350
Each	\$.....*	\$.....*	\$.....*
Nos.	F54	F60	
Diam. of pulley, in.	4	5	
Face of pulley, in.	4	5	
Diam. of wheel, in.	54	60	
W't, lbs.	450	540	
Each	\$.....*	\$.....*	
Nos.	F72	F84	
Diam. of pulley, in.	12	14	
Face of pulley, in.	5 1/2	6	
Diam. of wheel, in.	72	84	
W't, lbs.	625	800	
Each	\$.....*	\$.....*	

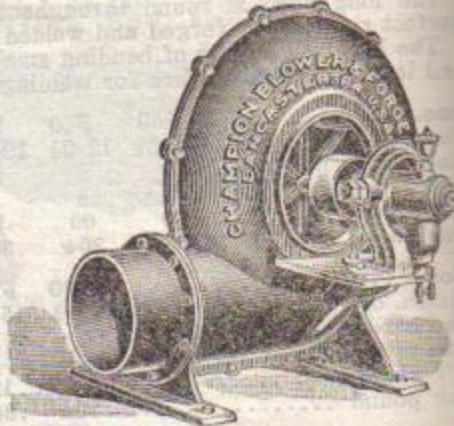
ALL ABOVE ONE IN A CRATE

POWER BLOWERS



CHAMPION, one-fire variable speed blower with Universal motor for electric steel pressure blacksmith, both direct and alternating currents, either 110 or 220 volts, with detached rheostat for six speeds, with attachment cord and plug to fit any light socket, 14 in. steel pressure fan case, 9 in. fan wing.

No. F50—1-12 H. P. Motor, w't complete 55 lbs.*each \$80.00
ONE IN A CRATE



Built especially for use where a large volume of blast is required. Adapted for steam boilers, puddling and heating furnaces, dry rooms, refrigerators, forge fires, etc., also ventilation.

Nos.	F 1/2	F1	F2
Height, in.	12	15	18
Diam. inlet, in.	4 1/2	5	5 1/2
Diam. outlet, in.	3 1/2	4 1/2	5
Each	\$.....*	\$.....*	\$.....*
Nos.	F3	F4	F5
Height, in.	21 1/2	25 1/2	28 1/2
Diam. inlet, in.	6 1/2	7 1/2	9
Diam. outlet, in.	6	7 1/2	9
Each	\$.....*	\$.....*	\$.....*
Nos.	F6	F7	F8
Height, in.	34	40	45
Diam. inlet, in.	7 1/2	9	10 1/2
Diam. outlet, in.	10 1/2	12	14
Each	\$.....*	\$.....*	\$.....*
Nos.	F9	F10	
Height, in.	50	57	
Diam. inlet, in.	16	18	
Diam. outlet, in.	16 1/2	18 1/2	
Each	\$.....*	\$.....*	

PORTABLE FORGES

CHAMPION, steel horseshoers', with half hood, heavy structural steel, working parts of highest grade tool steel, 12 in fan, adjustable ball bearings, with "Whirlwind" blast anti-sinker heavy nest tuyere iron.



No. 408 1/2

This is virtually the No. 400 Blower converted into a forge. It will make a white heat blast equal to the best power blower blast. Crank turns in either direction, it runs noiseless smooth, easy and pleasant to the hand. It is adapted for carriage and heavy wagon work, railroad shops as well as general blacksmithing.

WITHOUT WATER TANK

No. F408—Size of hearth 30x36x6 in., w't each 295 lbs.*each \$95.40

WITH WATER TANK

No. F408 1/2—Size of hearth 30x36x6 in., w't each 325 lbs.*each \$103.40
ONE IN A CRATE



The gearing used for producing the blast is simple in construction and without small gears or pinions. The crank turns either direction to make blast. Especially designed for blacksmithing, with half hood, helical cut gearing in dustproof casing. Heavy nest tuyere iron, 12 in. fan.

WITHOUT WATER TANK

No. W408—Size of hearth 32x45 in., w't each 300 lbs.each \$73.40

WITH WATER TANK

No. W408 1/2—Size of hearth 32x45 in., w't each 330 lbs.each \$.....



AGRICULTURAL

No. 145

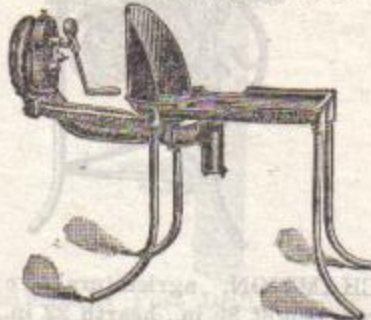
These Improved Agricultural Forges are equipped with a cut-gear driven blower, helical gearing being used to give smooth running and noiseless operation. The gear ratio gives 48 revolutions of the blast wheel to one turn of the crank, making a strong, steady, high pressure blast with smooth easy turning—crank turning either direction. The gear case is oil-tight and dust-proof.

WITH SHIELD

Nos.	F145	F147	F142
Hearth, in. ...	18	22	23x30
Height, in. ...	30	30	30
Diam. of fan, in.	8	8	10
W't, lbs.	85	105	135
Each	\$.....***

WITH HALF HOOD

Nos.	F146	F148	F143
Hearth, in. ...	18	22	23x30
Height, in. ...	30	30	30
Diam. of fan, in.	8	8	10
W't, lbs.	90	110	140
Each	\$.....***



No. 42

CHAMPION LANCASTER CUT, geared direct drive, agricultural forge, 23x35 in., cast iron hearth, height 30 in., 12 in. fan.

A well built, low priced, direct drive forge, a good blast producer and one recommended for farmers' use. It is well finished in every respect, with a large size hearth and fan.

No. W43—With half hood, w't each 170 lbs.each \$48.00
No. W42—With shield, w't each 165 lbs.each \$45.60



No. 401

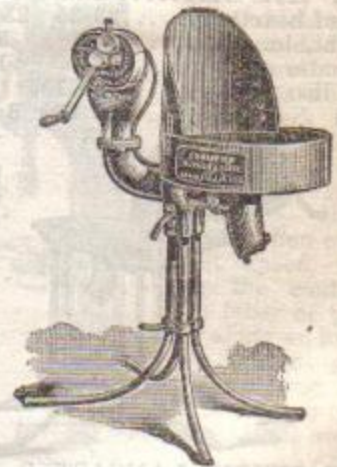
CHAMPION, structural steel, rivet, adjustable ball bearings throughout. Patented high speed spiral cut bronze and steel gearing, 18 in. hearth, height 30 in., 9 in. fans.

Used by railroads, bridge builders, boiler and structural iron workers.

Will produce blast to weld 3 1/2 to 4 in. iron in 10 minutes. The crank turns either way to produce blast.

Can be taken apart for transportation and set up in a few minutes.

No. W401—With Shield, w't 115 lbs., each\$51.40



CHAMPION GEARED RIVET FORGE

For farmers use. All gears are supplied with bushed journal bearings and run in dust-proof cases. Crank turns in either direction.

No. F48—Size of hearth 18 in., height 30 in., diam. of fan 10 in., w't 125 lbs.*each \$.....

* Items Marked Thus * Are Shipped From Factory Only.

PORTABLE FORGES



These forges are built strong and powerful. All gears are substantially supplied with bushed journal bearings on both sides of the gears. All gears in the Midway cross spiral gearing are made from guaranteed durable metals, machined and constructed so perfectly that the Midway Forges are sold guaranteed to run smooth and noiseless. This line will give satisfaction to those who are not looking for that high class machinery which can only be furnished by the famous 400 Blower. The Midway has no small gears or pinions. Gears run in a dustproof casing. Crank turns in either direction.

WITHOUT WATER TANK

Nos.	F073	F072
Size of hearth, in.	23x35	23x35
Height, in.	30	30
Diameter of fan, in.	10	10
W't, lbs.	185	190
Each	\$58.70*	\$52.80*

WITH WATER TANK

Nos.	F72	F73
Size of hearth, in.	23x35	23x35
Height, in.	30	30
Diameter of fan, in.	10	10
W't, lbs.	195	200
Each	\$8.00*	\$8.00*



CHAMPION LANCASTER CUT, geared agricultural forge, height 30 in., hearth 22 in., fan 10 in.

These are suitable direct drive cut gear forges for use where a well built, low priced, good blast producer is desired. They are strong, light forges for all kinds of portable work and are similar in construction to the No. 40 Lancaster blower line. Can be easily carried about and make the best low priced rivet forges ever manufactured.
No. W45—With shield, w't each 125 lbs.each \$32.40



CHAMPION IMPERIAL, self-acting ratchet levers, hardened tool steel ratchet dogs, height 30 in., hearth 23x35 in., fan 12 1/2 in.

The Imperial Lever Motion is a very simple device. Will stand years of hard work.

For machinests, plumbers, millers, locksmiths, planters, and in railroad repair shops.

No. W83—with half hood, w't each 170 lbs.each \$53.40



CHAMPION, agricultural lever forge, height 30 in., hearth 22 in., fan 9 in.

These forges are larger in both hearth and fan than the usual agricultural or farmer's forge. The hearth is deeper and heavier. The bearings are taper turned and long. The lever is of the ratchet motion type, simple and durable.

No. W100—With shield, w't each 90 lbs.each \$19.20



CHAMPION, agricultural, lever forge, height 30 in., hearth 18 in., fan 8 in.

No. W150—With shield, w't each 75 lbs.each \$16.90



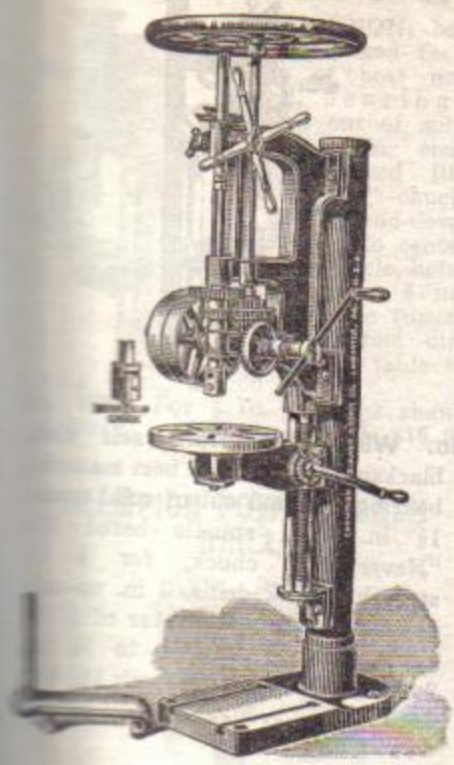
CHAMPION, agricultural crank forge, height 30 in., depth 4 in., hearth 18 in., fan 8 in.

Especially adapted for farmers or where light jobs are to be done.

No. W152—With shield, w't each 70 lbs.each \$16.90

* Items Marked Thus * Are Shipped From Factory Only.

UPRIGHT DRILLS

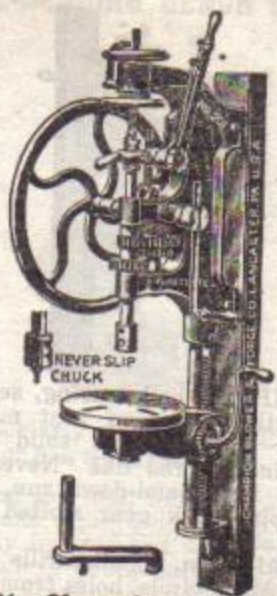


No. F397

CHAMPION, Self-Feed and Propeller Wheel, and Quick Return Drill has double back cut gears with two speeds, and to change from fast to slow is accomplished by sliding the cut gears. The table is raised and lowered by a rack which is quick in action. Spindle has up-and-down run of 9 inches. Drills holes up to 1 1/4 inches. Spindle bored like Champion "Patented" Never-Slip Chuck to take 3/4-inch straight shank bits. If specially ordered will be bored for 1/2-inch straight shank bits. Drills to center of a 12-inch circle.

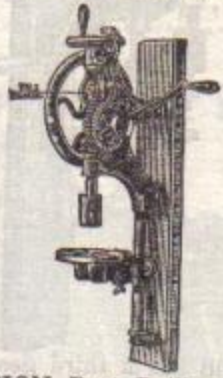
No. F397—Champion, self-feed and propeller hand-feed upright drill, with cone pulley and counter shaft, complete for hand and power combined, w't 625 lbs.★ each \$.....

No. F398—Champion, self-feed and propeller hand feed upright drill, as above described, for hand power only, w't 600 lbs.★ each \$.....



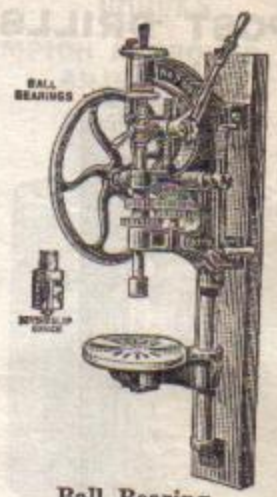
No. F201—Champion, upright combination automatic self-feed and compound lever-feed, with cut gears and ball bearings, table is raised and lowered by a rack and can be turned back out of the way, drills to center of 21 in. circle, up-and-down run of spindle 5 1/2 in., spindle 1 1/4 in. in diameter, bored like "Never-Slip" chuck, to take in 1/2 in. straight shank drill bits, drills from 0 to 1 1/2 in., w't 415 lbs.★ each \$108.70

No. F1201—Tight and Loose Pulleys for power for No. F201 Champion, extra★ each \$9.40
Drill Bits not included with Drills.



CHAMPION Post Drill is built to furnish a self-feed drill at the lowest price possible. Has back gears and slotted lathe-turned table. Will drill to center of a 12-inch circle. Has one speed for the crank. The spindle is 3/8 inch in diameter. It drills holes up to 3/4 inch and has an up-and-down run of 3 inches. The spindle is bored like never slip chuck for 1/2-inch straight shank drills; when specially ordered 3/4. Greatest distance from table to spindle 8 1/2 inches.

No. F103—Ball Bearing, w't each 75 lbs.★ each \$.....



Ball Bearing.

No. F200—Champion, upright, combination automatic self-feed and lever-feed, ball bearings, double sliding back gears, drills to center of 18 in. circle, up-and-down run of spindle 5 1/2 in., spindle 1 1/4 in. in diameter, bored like "Never-Slip" chuck to take 1/2 in. straight shank drill bits, drills from 0 to 1 1/2 in., w't 240 lbs.★ each \$81.40

No. F1200—Tight and loose pulleys for power for F200 Champion, extra★ each \$.....

ONE IN A CRATE



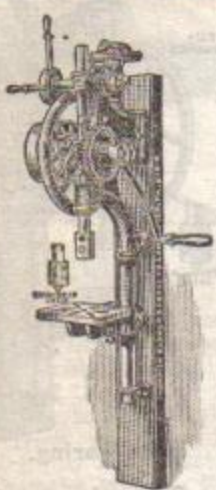
Has improved third gear principle which gives the second speed the same crank motion as on the first speed. The third gear being part of the handle hub, it is therefore disengaged when using first speed, saving the continuous labor of pulling along an intermediate gear while using the first speed; has double journal bearings to all working parts.

No. W95—New Champion, ball bearing self-feed blacksmiths', made of best material, bearings ground out of solid metal, tempered die steel cup and cone ball bearing to take end thrust, 1 1/4 in. steel spindle bored like "Never-Slip" chuck, for 1/2 in. straight shank drills, 3 1/2 in. up-and-down run, drills to center of 16 in. circle, holes from 1/4 to 1 1/4 in., back geared, greatest distance from table to spindle 9 1/2 in., w't 130 lbs., each \$32.00

★ Items Marked Thus ★ Are Shipped From Factory Only.

UPRIGHT DRILLS

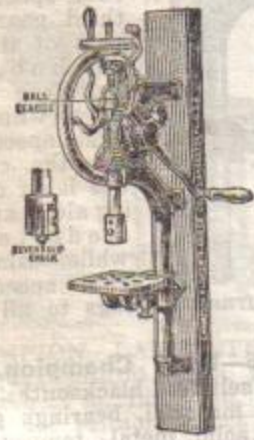
POST DRILLS



This drill has points of simplicity never found on a drill before at this price.

No. W97—Champion automatic self-feed and propeller wheel hand feed and quick return, two speeds, quick acting, end thrust ball bearings ground from solid metal, drills to center of 16½ in. circle and holes from 0 to 1½ in., lathe turned slotted table, 1½ in. spindle, 5½ in. up-and-down run, spindle takes ½ in. straight shank bits, w't 175 lbs., each\$45.40

No W97½—With tight and loose pulleys, 6 in. diam. 2 in. face for power, speed 250 R. P. M., w't each 175 lbs.each \$.....



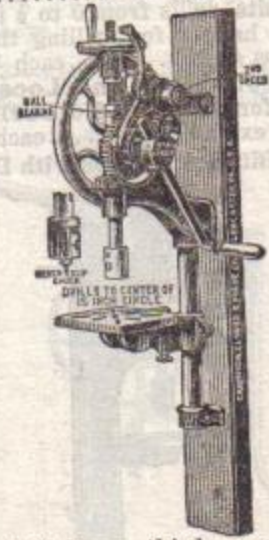
No. W91—Champion, two speed ball bearing, full automatic self-feed, blacksmith's, with end thrust ball bearing cups and cones of tool steel, drills to center of a 14½ in. circle, bores holes up to 1 in., 1½ in. spindle up-and-down run of 3 in., spindle bored like "Never-Slip" chuck to take in ¼ in. straight shank drill bits, slotted lathe turned table, w't 110 lbs.each \$22.70



CHAMPION, ball bearing, self-feed blacksmiths', made of best material bearings ground from solid metal, steel spindle bored like "Never-Slip" chuck, 3 in. up-and-down run, single speed, with back gear slotted lathe-turned table.

No. W101—¾ in. spindle drills to center of 12 in. circle, holes from ¼ to ¾ in., for ½ in. straight shank drills, greatest distance from table to spindle 10 in., w't each 80 lbs., each\$18.00

No. W98—1 in. spindle drills, to center of 14 in. circle, holes from ¼ to 1 in., for ½ in. straight shank drills, greatest distance from table to spindle 10 in., w't each 100 lbs., each\$21.40



This drill has a third gear to give the second speed the same turning direction of the crank as the first speed, and full back gears with two speeds to the crank.

No. W195—Champion, ball-bearing full automatic self-feed, blacksmiths', with cups and cones of tool steel, drills to center of a 15 in. circle, drills holes up to 1½ in., 1½ in. spindle, up-and-down run of 3½ in., spindle bored like "Never-Slip" chuck to take in ½ in. straight shank drill bits, slotted lathe turned table, greatest distance from table to spindle 10 in., w't 115 lbs., each\$29.40
Drill Bits Not Included With Drills.



No. W93—Champion, self feed blacksmiths', made of best material, bearings ground out of solid metal, 1½ in. steel spindle bored like "Never-Slip" chuck, for ½ in. straight shank drills, 3 in. up-and-down run, drills to center of 15 in. circle, holes from ¼ to 1½ in., 2 speeds, full back gear, w't 115 lbs., each\$28.00

No. W94—With tight and loose pulleys, 6 in. in diam., 2 in. face for power, speed 250 R. P. M., w't 115 lbs.each \$.....

This tool is designed for light and quick work, where tire drilling and counter-sinking is an object.

Our stock on above drills have spindles bored to take ½ in. straight shank drill bits. If specially ordered from factory, will be bored to take ¼ in.



No. W100—Champion, lever feed blacksmiths', made of best material, bearings ground out of solid metal, steel spindle bored like "Never-Slip" chuck for ½ in. straight shank drills, 4½ in. up-and-down run, drills to center of 14 in. circle, holes up to ¾ in., with back gear, slotted lathe turned table, w't 110 lbs., each\$24.00

BALL-BEARING POST DRILL



CHAMPION, ball bearing, hand feed, made of best material, bearings ground out of solid metal, $\frac{1}{2}$ in. steel spindle bored like "Never-slip" chuck, 3 in. up-and-down run, drills to center of 12 in. circle, holes from $\frac{1}{16}$ to $\frac{1}{4}$ in., slotted lathe turned table, greatest distance from table to

spindle 8 in., w't 60 lbs.
No. W32—For $\frac{1}{2}$ in. straight shank drills each \$15.60
ONE IN A CRATE

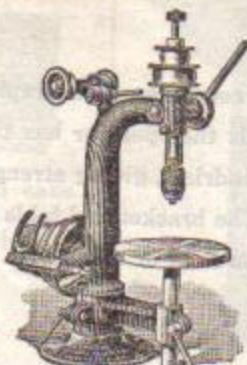
CHAMPION POWER BENCH DRILL



The Champion No. 0 Power Bench Drill represents a powerful and Well-built Power Bench Drill with every detail for completeness in design and workmanship taken into consideration. The top of the drill base is planed off to use as a table when the regular drill table is turned to one side, thus giving a space of 16 in. between the chuck and base-table. The upper cone pulley is between two bearings, thus removing the strain. Countershaft is supplied with belt shift on tight and loose pulley and feed lever is compensated with spring arrangement so at all times automatically keep lever and bit up and out of work.

No. 0—Drills to center of a 9 in. circle. Bore holes up to $\frac{1}{16}$ in. in diameter. Up-and-down run of spindle 12 in., greatest distance from table to spindle 10 in., greatest distance from planed base to spindle 16 in., cone and loose pulleys 4x1 $\frac{1}{2}$ in., size of large cone pulley 4 $\frac{1}{2}$ x1 $\frac{1}{2}$ in., size of small cone pulley 3x1 $\frac{1}{2}$ in., spindle is bored with No. 1 morse taper hole, height 32 in., w't 115 lbs., each \$50.00
ONE IN A CRATE

BALL-BEARING BENCH DRILLS

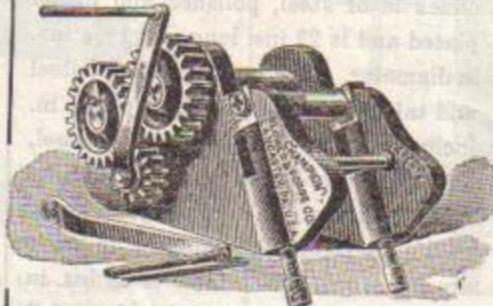


Particularly adapted for light automobile or bicycle repair work.

Strong and well built, for light accurate and rapid drilling. Driven exclusively by belt and with the aid of cone pulleys two separate speeds can be had. Countershaft has belt shifter on the tight and loose pulley and feed lever can be returned without affecting position of belt by a patent device in feed lever hub. The best possible drill and one guaranteed in every respect.

No. F50—Champion, sensitive bench drill, with Star chuck, double flange top cone, table swings 180° horizontally, end thrust ball bearing, adjustable spindle stop, spindle has 2 $\frac{1}{2}$ in. up-and-down run, table has 7 in. up-and-down run, diam. of table 8 in. drills to center of 10 in. circle, drilling capacity $\frac{1}{8}$ in., size of tight and loose pulley 4x1 $\frac{1}{2}$ in., height 27 $\frac{1}{2}$ in., speed of driving pulley 550 R. P. M., w't 90 lbs., each* \$52.00

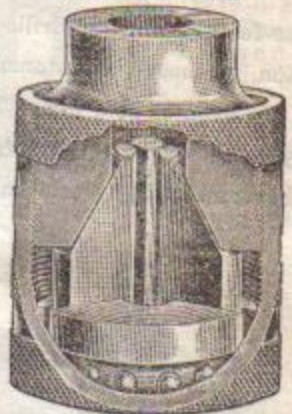
NEW PATENT TIRE BENDER



NEW PATENT TIRE BENDER
Its adjusting roll has an adjusting screw at each end, with a graduated indicator and double back gear, and worked with two cranks and two speeds, one for light and fast work and the second for heavy work. The center roll pulls out to take the tire out.
No. 2—Champion, will bend any size up to 3x $\frac{3}{4}$ in., w't 120 lbs., each \$.....
ONE IN A CRATE

CHUCKS

CHAMPION IMPROVED 3-JAW ADJUSTABLE



Ball-bearing, hand adjustable. Accurate, self-centering, simple and positive in operation.

- No. 0 — $\frac{1}{2}$ in. adjustable each \$5.00
- No. 00 — $\frac{1}{4}$ in. each 0.85
- No. 000 — $\frac{1}{8}$ in. each 0.85
- No. 1 — Morse taper ... each 1.25
- No. 2 — Morse taper ... each 1.25
- No. 3 — Morse taper ... each 1.25
- No. 4 — Morse taper arbor each 2.00

CHAMPION MOLE TIRE SHRINKER



Guaranteed to work correctly and is recommended only where lowest priced shrinker is desired. Built of first-class material and workmanship throughout and furnished with and without Anti-Kinking attachment.

- No. 1—Will shrink tires, 2 $\frac{1}{2}$ x $\frac{3}{4}$ in., w't 125 lbs. each \$.....
- No. 2—Will shrink tires, 3x $\frac{3}{4}$ in., w't 225 lbs. each \$.....
- No. 3—Will shrink tires 4x $\frac{3}{4}$ in., w't 250 lbs. each \$.....
- No. 4—With Anti-kinking device, will shrink tires 3x $\frac{3}{4}$ in., w't 240 lbs., each \$.....
- No. 5—With anti-kinking device, will shrink tires, 4x $\frac{3}{4}$ in., w't 275 lbs., each \$.....

ONE IN A CRATE

BENCH DRILLS

The feature of these drills are their strength, convenience and rapidity of operation, by means of automatic and friction feeds the operator has the free use of one hand to hold work. The columns are cylindrical, giving strength and rigidity as well as being graceful in appearance. The bracket and table are removable for any high work that can be supported on floor or other wise.



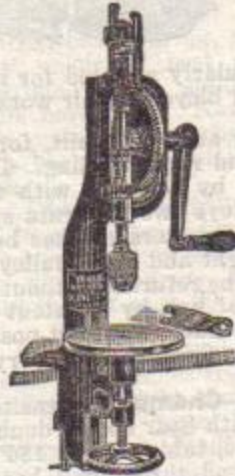
YANKEE

One Speed.

One turn of the crank gives $3\frac{1}{2}$ revolutions to spindle. The spindle is $\frac{3}{8}$ in. in diameter. The chuck is made of steel, polished and nickel plated and is $1\frac{3}{4}$ ins. long and 1 in. in diameter. The jaws are of tool steel and take round shank drills up to $\frac{1}{2}$ in. diameter inclusive. The feed is of steel, has V tread and fitted with ball bearing at lower end. All steel parts subject to wear are hardened. The table is $4\frac{1}{2}$ ins. in diameter, its center $2\frac{1}{2}$ ins. from face of slide. This drill has an extra large capacity the distance from the table to the chuck being 5 ins. The frame is finished in dead black. Height of drill overall 18 $\frac{1}{2}$ ins.

No. W1003—W't each 20 lbs.
each\$20.70

ONE IN A BOX



YANKEE

Two Speed

The speeds can be changed quickly. Fast speed gives $3\frac{1}{2}$ revolutions of the spindle to one of the crank and slow speed gives one revolution of the spindle to one of the crank. The spindle is $\frac{1}{2}$ in. in diameter. The chuck is of steel, polished and nickel plated and is $2\frac{3}{4}$ ins. long and $1\frac{1}{8}$ ins. in diameter. The jaws are of tool steel and take round shank drills up to $\frac{1}{2}$ in. inclusive. The feed screw is of steel, has square thread to insure durability, and fitted with ball bearing at lower end. All steel parts subject to wear are hardened. The table is $6\frac{1}{2}$ ins. in diameter, its center is $3\frac{1}{2}$ ins. from fall of slide. This drill has an extra large capacity the distance from the table to the chuck being $7\frac{1}{2}$ ins. The frame is finished in dead black. Height of drill overall 28 ins.

No. W1005—W't each 57 lbs.,
each\$34.50

ONE IN A BOX

Carry a line of goods upon which you can rely.

The dealer who carries H. S. B. & Co. Brands marks his store as a place where the better goods are sold.

A house with over sixty-seven years' experience stands back of our brands.

Our reputation founded on over sixty-seven years' business stands back of the **OYE** brand.

All goods branded **OYE** are guaranteed to be of highest quality material and workmanship and free from imperfections.

In selling **OYE** articles there is a profit for you and satisfaction to your customers.

CARPENTERS' SHOULDER TOOL CHESTS



Nicely finished, with iron handles, fitted with iron lock and key.

- No. 31—Size 28x8x8 in. inside measurement, will take 19 in. panel saw, w't each 11 lbs.each \$6.80
- No. 42—Size 32x8x8 in. inside measurement, will take 23 in. saw, w't each 14 lbs.each \$7.80

PACKED LOOSE

REYNOC



Hardwood, nicely finished and stained. Opens on side, furnished with lifting handle, brass suit case lock, clasps, knees and corners. Has saw rack and tray.

.....	11	112
Size, in.	32x7x12	32x7x17
W't, each, lbs.	13	15
Each	\$9.50	12.00

PACKED LOOSE

REYNOC CABINET MAKERS' BENCHES



Hard maple, thoroughly seasoned and kiln-dried, glued-up maple top, 2 1/2 in. thick, 10 in. recess for tools at back, massive legs 1 1/2x3 1/2 in., furnished with front and tail vises, both fitted with 2 1/2 in. wood bench screws; under side of front piece of the top and upper edge of front girt are grooved to receive plane when wanted.

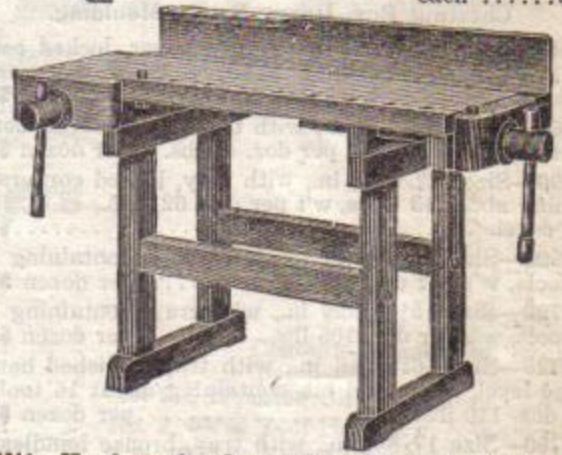
	W1	W2	W3
Length, ft.	6 1/2	7	5 1/2
Width, in.	24	24	24
Height, in.	34	34	34
Maple top, in.	16	16	16
W't, each, lbs.	180	200	150
Each	\$57.60	68.40	54.00

ONE IN A CRATE

REYNOC MANUAL TRAINING BENCHES



No. W16—Hard Maple, thoroughly seasoned and kiln-dried. Height 32 in., length 52 in., width 22 in., including tool recess 7 1/2 in. wide. Top 2 1/2 in. thick, drawer 30x19x6 in., fitted with bronzed pulls, w't each 150 lbs., each\$36.00



No. W4—Hard maple, thoroughly seasoned and kiln-dried. Length 4 feet exclusive of vises, width 22 in., height 32 in., glued-up maple top 13 in. wide and 1 1/2 in. thick, 8 1/2 in. recess for tools at back; back board for holding tools, size of legs 1 1/2x3 in. Furnished with front and tail vises, both fitted with 2 1/2 in. wood bench screws. W't each 120 lbs.each \$22.80

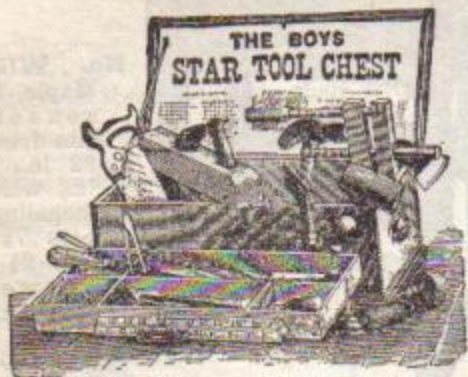


Hard maple, thoroughly seasoned and kiln-dried, with cabinet, length 4 feet exclusive of vises, width 22 in., height 32 in., glued-up maple top 13 in. wide and 1 1/2 in. thick, 8 1/2 in. recess for tools at back, backboard for holding tools, cabinet contains three drawers and cupboard all fitted with locks and keys. Drawers are 19x16x5 in., cupboard is 18 1/2x18x10 in., legs 1 1/2x3 in., furnished with front and tail vises, both fitted with 1 in. wood bench screws; also furnished with three spring wood stops.

- No. W14—With Rapid-Acting Vise on side, w't each 190 lbs.each \$47.50
- No. W13—Without Rapid-Acting Vise on side, w't each 175 lbs.each \$38.00

ALL ABOVE ONE IN A CRATE

TOOL CHESTS



Chestnut Box, Heavy Brown Moulding.

- No. 245—Size 9½×4½×2½ in., hinged cover, locked corners, well finished, containing about 8 tools, w't per doz. 17½ lbs. \$19.80
 - No. 260—Size 11×5×3½ in., with till, hinged cover, containing about 11 tools, w't per doz. 40 lbs. ... per dozen \$19.80
 - No. 290—Size 12½×6×4½ in., with tray, locked corners, containing about 13 tools, w't per doz. 62½ lbs., per dozen \$28.80
 - No. 2600—Size 14½×6½×4½ in., with tray, containing about 16 tools, w't per doz. 90 lbs. per dozen \$36.00
 - No. 2700—Size 15½×7½×5½ in., with tray, containing about 16 tools, w't per doz. 105 lbs. per dozen \$50.40
 - No. 2725—Size 16½×7½×6 in., with tray, polished hammer, large level, brace and bit, containing about 16 tools, w't per doz. 110 lbs. per dozen \$57.60
 - No. 2750—Size 17×8×6 in., with tray, bronze handles, containing about 24 tools, w't per doz. 125 lbs., per dozen \$72.00
 - No. 2800—Size 18×8½×6½ in., with tray, bronze handles, containing about 28 tools, w't per doz. 140 lbs., per dozen \$93.60
- NO. 45B, SIX DOZEN; NO. 60B, THREE DOZEN; NO. 90B, TWO DOZEN; BALANCE, ONE DOZEN IN A CRATE.

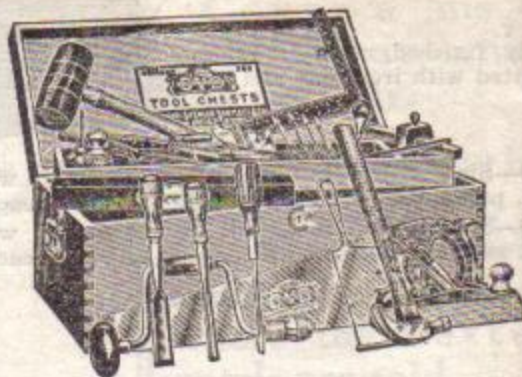
All sizes given are inside measures.



- No. 500—H. S. B. & Co.'s men's work box, containing 17 different tools as enumerated below, made by the best makers and taken direct from stock, the assortment includes just such tools as every man needs about the house, dovetailed box, length 2 ft. 3½ in., width 8½ in., height 4½ in., w't 19 lbs. each \$14.50

Contents One Each of the Following:

- | | |
|--|--------------------------------|
| No. 102 Level. | Gimlet Bit. |
| No. 40 Tool Handle. | No. 2 Maricopa Half Hatchet. |
| Pair 6-in. Button Pliers. | No. 110 Block Plane. |
| No. 1—5 in. Screw Driver. | 8 in. Washita Oil Stone, 1 lb. |
| No. 61 Rule. | Calumet Bell Face Nail Hammer. |
| 8 in. Agricultural Wrench. | No. 80—22 in. Panel Saw. |
| 1 each ¼, ½, ¾ and 1 in. Cast Steel Auger Bit. | 10 in. Barker's Brace. |
| No. 15—¾ in. German | |

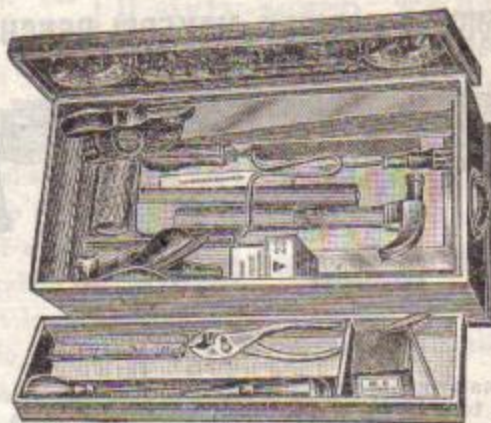


- No. T200—Hardwood box with tray size 25½×11½×9 in. dovetailed box, nicely finished, fitted with lock and key and chest handles on ends, contains 25 high grade tools, w't 40 lbs. each \$33.33

Contents One Each of the Following:

- | | |
|---------------------------|--------------------------------------|
| No. 2 A. E. Nail Hammer. | 6 in. Flat Bastard File and Handle. |
| ½ in. Socket Butt Chisel. | 6 in. Flat Slim Taper and Handle. |
| 1 in. Socket Butt Chisel. | 1 each ¼, ½, ¾ and 1 in. Auger Bits. |
| 20 in. Panel Saw. | Gimlet. |
| No. 100 Coping Saw. | 8 in. Plain Brace. |
| 6 in. Wing Divider. | 5 in. Screw Driver. |
| 10 in. Steel Square. | No. 35½ Nail Set. |
| Scratch Awl. | No. 322 Pliers. |
| No. 62 Marking Gauge. | Alligator Wrench. |
| No. R24 Plane. | No. 31 Oiler. |
| No. 22½ Mallet. | 2 oz. of Glue. |
| No. 102 Level. | No. 111 Carpenter's Pencil. |
| No. 03 Zigzag Rule. | |

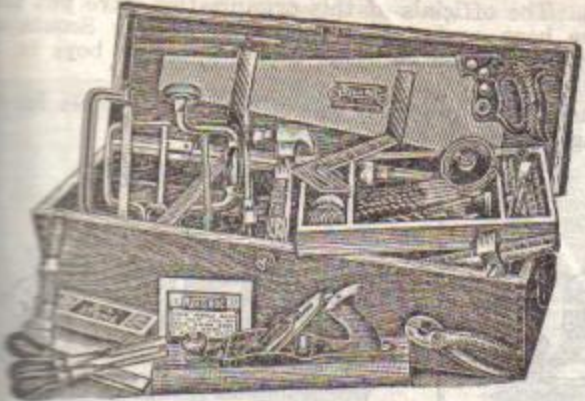
CRUSO BOYS'



Not a cheap plaything, but a real set of tools with which a boy can do careful work. A great bargain at the price quoted.

- No. 1800—Contains 15 well-made serviceable tools taken from our regular stock; No. 3 Cruso nail hammer, No. 14 Cruso panel saw, No. 20 Cruso mallet, ½-inch butt chisel, No. 110R plane, No. 012 3-in. screw driver, No. 0100 coping saw, No. 6 try square, 1-ft. flat rule, No. 68 boxwood rule, No. 010 gimlet, 8-in. mill file with handle, No. 306 plier, scratch awl; Also package tacks, brads and wire nails; Chest is 18½×8½×6½ in. with tray; w't 14 lbs. Nicely finished, each \$11.50

TOOL CHESTS

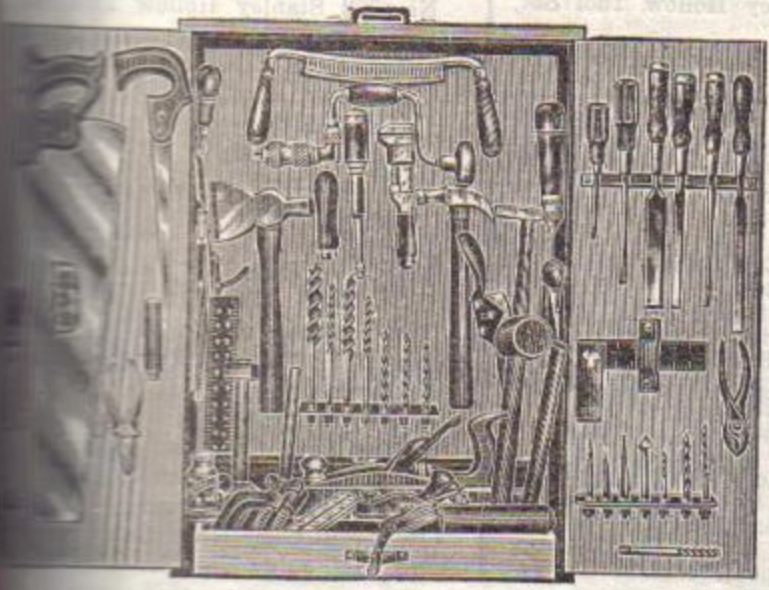


No. 7140 REVO—Hardwood dovetailed box, with tray size 30x22x7 1/2 in., nicely finished, fitted with lock and key and enameled chest handles on ends—contains 40 high grade tools especially adapted for home and farm use, w't each 45 lbs.each \$36.00

Contents One Each of the Following:

- No. 211 1/2 REVO Hammer.
- 24 in. No. 70 REVO Saw.
- No. R26 REVO Plane.
- Each 5/8, 3/4 and 1 1/2 in. No. 415 REVO Chisels.
- No. 208 REVO Brace.
- Each 1/16, 1/8, 3/16, 1/4, 5/16 and 3/8 in. No. 26 REVO Auger Bits.
- Each 1/2, 5/8, 3/4, 1 and 1 1/8 in. No. 108 REVO Bit Stock Drills.
- Each 6 and 10 in. REVO Mill Files.
- 6 in. REVO Slim Taper File.
- 8 in. REVO Round Bastard File.
- 8 in. No. 14 REVO Wrench.
- No. 600 REVO Pliers.
- 6 in. No. 6 REVO Screw Driver.
- 1/2 in. REVO Cold Chisel.
- No. 35 1/2 REVO Nail Set.
- No. 33 REVO Tape.
- No. 127 REVO Screw Driver Bit.
- No. 1 REVO Scratch Awl.
- Brad Awl.
- No. 1 Gimlet.
- No. 121 Hack Saw Frame and Blade.
- No. 100 Coping Saw and 1 doz. Blades.
- No. 62 Marking Gauge.
- No. 26 Try Square.
- No. 61 Rule.
- No. 277 Oil Stones.
- No. 24 REVO Sand Paper Assortment.
- No. 3 Chalk Line and Chalk.

TOOL CABINETS



No. 7150 EVO—Hardwood, nicely varnished, dovetailed, with two paneled doors, brass hinges, lock with key and heavy brass bolt, outside measurement 31x22 1/2 x 7 1/4 in., inside measurement 29 1/2 x 21 x 7 1/4 in., inside drawer 19 1/2 x 5 x 2 in., w't each 85 lbs.each \$75.50

Contents One Each of the Following:

- No. 1—1/2 in. EVO Reamer Bit.
- No. 7 Screw Driver Bit, EVO.
- 1/2, 3/4 and 1 in. EVO Socket Firmer Beveled Chisels.
- No. 31 Oiler.
- No. 12 Mallet.
- No. 2 Carriage Maker's Clamp.
- No. 041 Yankee Hand Drill.
- 5 1/2 in. EVO Slim Taper File, with Handle.
- 10 in. EVO Half Round Cabinet File, with Handle.
- EVO Drawing Knife.
- 8 in. EVO Ratchet.
- 3/4 and 1 in. EVO Auger Bits.
- 1/2, 3/4 and 1 in. EVO Counter Sink Bit.
- EVO Mill File with Handle.
- EVO Shave.
- No. 9A 1/2, 3/8, 1/2, 5/8 and 3/4 in. EVO Bits.

Contents—Continued.

- No. 716 Mounted Oil Stone.
- No. 2 EVO Tool Handle.
- 3 in. EVO Screw Driver.
- 6 in. EVO Screw Driver.
- 8 in. EVO Wing Divider.
- EVO Scratch Awl.
- EVO Brad Awl.
- No. 44 EVO Nail Set.
- No. 206 EVO Combination Plier.
- No. 5 Glass Cutter.
- No. 22 EVO Cabinet Scraper.
- No. 33 Measuring Tape.
- No. 781 Carpenter's Pencil.
- No. 62 Marking Gauge.
- 2 ounces LePage's Glue.
- No. 60 1/2 in. EVO Socket Firmer Gouge.
- No. 00 EVO Level.
- 1 doz. No. 1—9 in. EVO Hack Saw Blades.
- EVO Tack Claw.
- No. 61 Rule.
- 8 in. Agricultural Wrench.
- No. 26 REVO Jack Plane.
- No. 9 1/2 REVO Block Plane.
- 22 in. EVO Panel Saw.
- 12 in. EVO Compass Saw.
- EVO Hack Saw Frame.
- EVO Coping Saw.
- No. 2 EVO Bell Face Nail Hammer.
- No. 1 EVO Riveting Hammer.
- No. 1 EVO Shingling Hatchet.
- No. 10 EVO Blue Steel Square.
- No. 20—6 in. EVO Try Square.
- No. 25—8 in. EVO Sliding T Bevel.

STANLEY TOOL CHESTS AND ROLLS FOR BOY SCOUTS

The following chests have been designed especially for Boy Scouts. The officials of this organization have put these Tool Chests in the new Equipment number of Scouting. Appeals have been sent out to thousands of Boy Scouts and Adult Scout Leaders to put over new development in the scouting program in encouraging and interesting boys in the use of tools in the home.

The tools in these assortments are of the dependable Stanley quality. A practical collection of good tools for the home. All chests are made from hardwood nicely finished, 20 in. long, 10 1/2 in. wide, 8 in. deep.

TOOL CHESTS

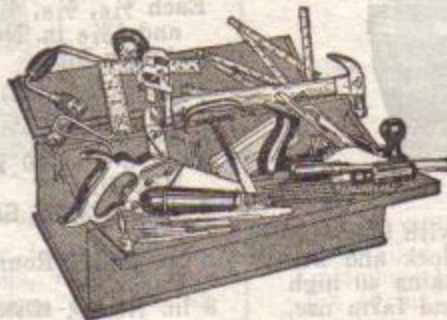


No. T888A—Contains 32 tools w't 35 lbs.each \$54.50

Contents, one each of the following:

- No. 04 Stanley Zig Zag Rule
- No. 12, 13 oz. Stanley Hammer
- No. 302 Stanley Hollow Tool Set, containing
 - Gimlet
 - File
 - Saw
 - Chisel
 - Square Reamer
 - Small Screw Driver
 - Two Brad Awls
 - Extra Long Saw
- Pair Pliers
- 1/2 in. Stanley Cold Chisel
- 8 in. Adjustable Wrench
- No. 2, 6 in. Stanley Try and Mitre Square
- 16 in. Hand Saw
- No. 3 Stanley Bailey Plane
- Coping Saws with 12 extra blades
- No. 20 Stanley Hurwood Screw Driver
- No. 945, 8 in. Stanley Bit Brace
- 1/2 in. Auger Bit
- 3/8 in. Auger Bit
- Gimlet Bit
- Sharpening Stone
- No. 40, 1 in. Stanley Chisel
- 8 in. Flat Mill File with Handle
- No. 62 Stanley Marking Gauge
- No. 742 Stanley Vise
- Glass Cutter
- No. 23 Stanley Countersink
- No. 10, 12 in. Stanley Steel Square
- Expansive Bit
- No. 11 Stanley Nail Set
- No. 104, 18 in. Stanley Level
- Adjustable Pipe Wrench
- No. 147, 4 oz. Stanley Riveting Hammer
- No. 3 Stanley Hand Drill
- Pair Pincers
- No. 40, 1/2 in. Stanley Chisel
- No. 10 Stanley Center Punch

TOOL CHESTS

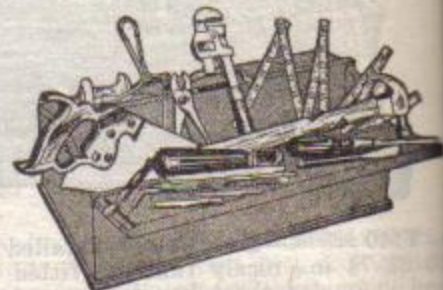


No. T888B—Contains 18 tools, w't 25 lbs.each \$36.50

Contents, one each of the following:

- No. 04 Stanley Zig Zag Rule
- No. 12, 13 oz. Stanley Hammer
- No. 302 Stanley Hollow Tool Set, containing
 - Gimlet
 - File
 - Saw
 - Chisel
 - Square Reamer
 - Small Screw Driver
 - Two Brad Awls
 - Extra Long Saw
- Pair Pliers
- 1/2 in. Stanley Cold Chisel
- 16 in. Hand Saw
- No. 3 Stanley Bailey Plane
- Coping Saw with 12 extra blades
- No. 20, 4 in. Stanley Screw Driver
- No. 945, 8 in. Stanley Bit Brace
- 1/2 in. Auger Bit
- 3/8 in. Auger Bit
- Gimlet Bit
- Sharpening Stone
- No. 10, 12 in. Stanley Steel Square
- No. 40, 1/2 in. Stanley Chisel
- Glass Gutter
- Adjustable Pipe Wrench

TOOL CHESTS

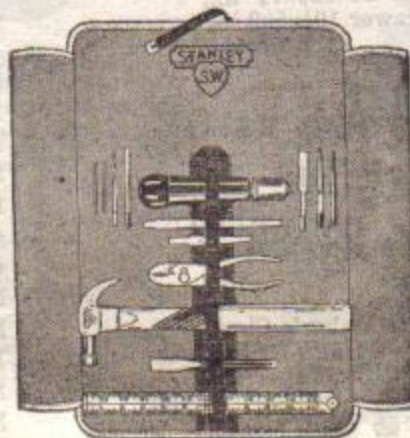


No. T888C—Contains 12 tools, w't 25 lbs.each \$21.50

Contents, one each of the following:

- No. 04 Stanley Zig Zag Rule
- No. 12, 13 oz. Stanley Hammer
- No. 302 Stanley Hollow Tool Set, containing
 - Two Saws
 - Chisel
 - Gimlet Bit
 - Three-cornered Tapering File
 - Screw Driver
 - Reamer
 - Two Brad Awls
 - Pair Pliers
 - 1/2 in. Stanley Cold Chisel
 - No. 20, 4 in. Stanley Hurwood Screw Driver
 - Glass Cutter
 - Coping Saw with extra blades
 - Stanley Chalkline Reel
 - Adjustable Pipe Wrench
 - 16 in., 10 point Hand Saw
 - No. 11 Stanley Nail Set

TOOL ROLLS



This set is designed for Boy Scouts and is included in the equipment recommended by this organization. Size 14 in. long, 14 in. wide, when opened.

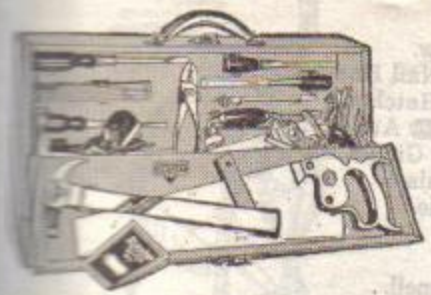
No. 873—Contains 5 tools, w't 3 lb. each\$9

Contents, one each of the following:

- No. 12, 13 oz. Stanley Hammer
 - 1/2 in. Stanley Cold Chisel
 - No. 302 Stanley Tool Set containing
 - Gimlet
 - Saw
 - File
 - Chisel
 - Square Reamer
 - Small Screw Driver
 - Two Brad Awls
 - Pair Pliers
 - No. 61 Stanley Rule
- ONE IN A BOX

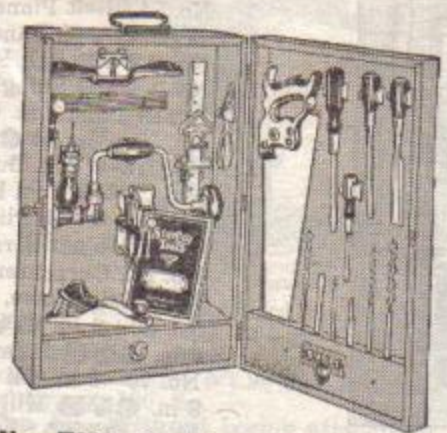
STANLEY TOOL CABINETS

Made of black walnut, very finely finished. The paneled doors are hung on brass hinges. Cylinder lock with two keys. Tools are held firmly in place by specially constructed clips. The drawers are divided into compartments for holding small tools.



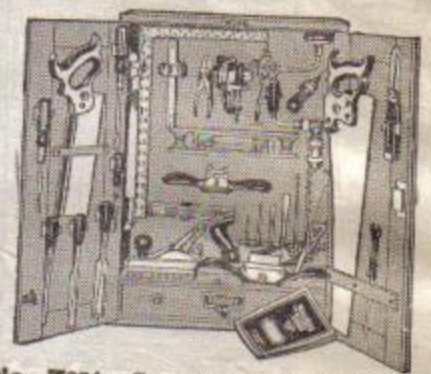
No. T800—Contains 25 tools, length 22 in., height 12 in., depth 6 in., fitted with leather handle for carrying, w't 33 lbs. . .each \$57.00

- Contents, one each of the following:
- No. 25, 5 in. Screw Driver
 - No. 20, 4 in. Screw Driver
 - No. 20, 3 in. Screw Driver
 - No. 40, 1/4 in. Chisel
 - No. 40, 3/8 in. Chisel
 - No. 24 Zig Zag Rule
 - No. 11, 2-32 in. Nail Set
 - No. 11, 2-32 in. Nail Set
 - No. 20, 5-64 in. Center Punch
 - No. 20, 1/4 in. Screw Driver Bit
 - No. 20, 3/8 in. Screw Driver Bit
 - No. 20 Countersink
 - No. 20 Hollow Handle Tool Set
 - No. 2 Odd Job
 - No. 20, 6 in. Bit Brace
 - No. 12, 13 oz. Hammer
 - No. 147, 4 oz. Hammer
 - No. 2 Plane
 - No. 20 Expansive Bit
 - No. 20 Auger Bit
 - No. 20 Auger Bit
 - No. 20 Auger Bit
 - Gimlet Bit
 - Pair Pliers
 - 1/2 in. Saw



No. T852—Contains 20 tools, height 22 in., width 14 in., depth 6 1/2 in., w't 37 lbs.each \$44.00

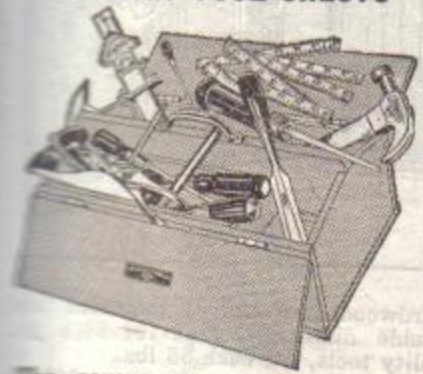
- Contents, one each of the following:
- No. 20, 5 in. Screw Driver
 - No. 50, 3 in. Screw Driver
 - No. 40, 3/4 in. Chisel
 - No. 40, 3/8 in. Chisel
 - No. 11, 2-32 in. Nail Set
 - No. 26, 1/2 in. Screw Driver Bit
 - No. 151 Spoke Shave
 - No. 1 Odd Job
 - No. 204 Zig Zag Rule
 - No. 945, 8 in. Bit Brace
 - No. 12, 13 oz. Hammer
 - No. 741 Vise
 - No. 220 Plane
 - No. 305 Hollow Handle Tool Set
 - 16 in. Panel Saw
 - Pair Pliers
 - Gimlet Bit
 - 3/4 in. Auger Bit
 - 3/8 in. Auger Bit
 - 3/4 in. Auger Bit



No. T851—Contains 35 tools, height 26 1/2 in., width 19 1/2 in., depth 8 in., w't 80 lbs.each \$90.50

- Contents, one each of the following:
- No. 25, 8 in. Bevel Driver
 - No. 20, 5 in. Screw Driver
 - No. 40, 4 in. Screw Driver
 - No. 50, 3 in. Screw Driver
 - No. 105, Zig Zag Rule
 - No. 40, 3/4 in. Chisel
 - No. 40, 3/8 in. Chisel
 - No. 40, 1 in. Chisel
 - No. 18, B Steel Squares
 - No. 6594 Gauge
 - No. 741 Vise
 - No. 915, 8 in. Bit Brace
 - No. 305 Hollow Handle Tool Set
 - No. 36, G, 12 in. Plumb and Level
 - No. 151 Spoke Shave
 - No. 5 1/4 Plane
 - No. 60 Plane
 - No. 80 Scraper
 - No. 11, 2-32 in. Nail Set
 - No. 1A, 1/2 in. x 6 in. Cold Chisel
 - No. 26, 1/2 in. Screw Driver Bit
 - No. 49 Bit Gauge
 - No. 21, 9 in. Square
 - No. 12, 13 oz. Hammer
 - No. 147, 4 oz. Hammer
 - 20 in. Panel Saw
 - Keyhole Saw
 - Pair Pliers
 - Oil Stone
 - 10 in. Back Saw
 - Gimlet Bit
 - 3/4 in. Auger Bit
 - 3/8 in. Auger Bit
 - 3/4 in. Auger Bit
 - Coping Saw with 12 Extra Blades

STANLEY TOOL CHESTS

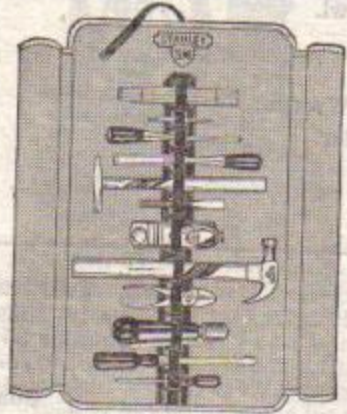


The covers are swung on ornamental brass hinges, a brass handle is placed at the top for carrying.

No. T801—Contains 15 tools, length 15 in., width 8 1/2 in., depth 6 1/2 in., w't 30 lbs.each \$26.50

- Contents, one each of the following:
- No. 1A, 1/2 in. x 6 in. Cold Chisel
 - No. 11, 2-32 in. Nail Set
 - Pair Pliers
 - No. 20, 5-64 in. Center Punch
 - No. 20 Hollow Handle Tool Set with
 - Extra Saw
 - No. 220 Plane
 - No. 12, 13 oz. Hammer
 - No. 147, 4 oz. Hammer
 - No. 40, 3/4 in. Chisel
 - No. 40, 3/8 in. Chisel
 - No. 20, 5 in. Screw Driver
 - No. 20, 4 in. Screw Driver
 - No. 20, 3 in. Screw Driver
 - 2 Odd Job
 - No. 24 Zig Zag Rule

STANLEY TOOL ROLLS

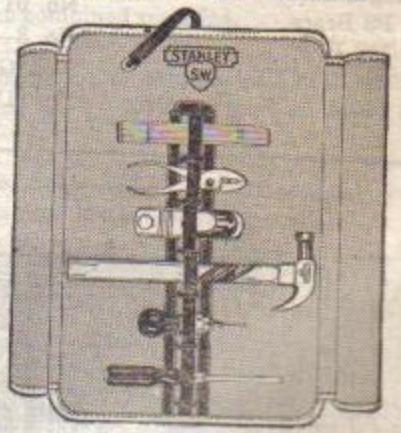


No. 871—Contains 12 tools, length 25 in., width 14 in. when open, heavy brown canvas, w't 6 lbs., each\$18.30

- Contents, one each of the following:
- No. 04 Zig Zag Rule
 - No. 40, 3/4 in. Chisel
 - No. 40, 3/8 in. Chisel
 - No. 11, 2-32 in. Nail Set
 - No. 1A, 1/2 in. x 6 in. Cold Chisel
 - No. 12, 13 oz. Hammer
 - No. 147, 4 oz. Hammer
 - No. 203 Plane
 - No. 302 Hollow Handle Tool Set with
 - 6 1/2 in. Extra Saw
 - Pair Pliers
 - No. 70, 5 in. Screw Driver
 - No. 77, 3 in. Screw Driver

ONE IN A BOX

STANLEY TOOL ROLLS



No. 872—Contains 6 tools, length 20 in., width 14 in. when open, heavy brown canvas, w't 3 lbs., each\$10.20

- Contents, one each of the following:
- No. 20, 4 in. Screw Driver
 - Pair Pliers
 - No. 103 Plane
 - No. 12, 10 oz. Hammer
 - No. 305 Hollow Handle Tool Set
 - No. 404, Zig Zag Rule

ONE IN A BOX

TOOL CABINETS

Contents One Each of the Following:



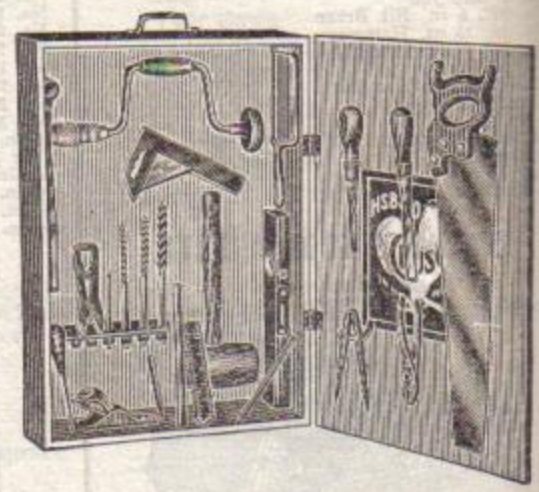
No. T125 **CRUSO**—Hardwood, nicely varnished, dovetailed, with two paneled doors, outside measurement 24x17x6 in., inside measurement 22x15x5 1/2 in., inside drawer 13 1/2 x 3 x 2 in., brass hinges, lock with key and heavy brass bolt with 21 best grade tools, w't each 43 lbs., each \$32.50

- No. 24 **REYNOLDS** Plane.
- 18 in. **CRUSO** Panel Saw.
- No. 2 **CRUSO** Bell Face Nail Hammer.
- No. 1 **CRUSO** Shingling Hatchet.
- 1 each 3/8 and 1/2 in. **CRUSO** Auger Bits.
- No. 30—1/32nds **CRUSO** Gimlet Bit.
- No. 213—1 1/4 in. Butt Chisel.
- No. 1 **CRUSO** Tool Handle.
- No. 126 **CRUSO** Plier.
- No. 3 Cabinet Scraper.
- No. 111 Carpenter's Pencil.
- 8 in. Plain Brace.
- No. 20—6 in. **CRUSO** Try Square.
- 6 in. **CRUSO** Screw Driver.
- No. 70—6 in. Oil Stone.
- 8 in. **CRUSO** Mill File, with Handle.
- 5 1/2 in. **CRUSO** Slim Taper File, with Handle.
- No. 44 **CRUSO** Nail Set.
- No. 61 Rule.
- No. 62 Marking Gauge.
- No. 31 Copper Plated Oiler.
- 2 oz. LePage's Glue.

No. 115—**CRUSO**, cottonwood box, size 24x17x6 in., nicely finished, fitted with one handle on end, contains 25 tools, w't each 21 lbs.each \$13.50

Contents One Each of the Following:

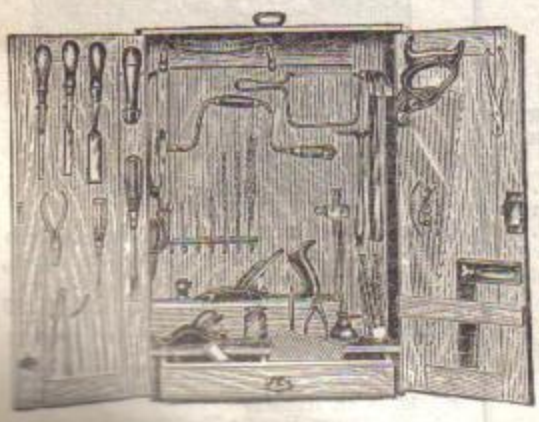
- No. 012 Calumet Hammer.
- No. 315—3 in. Chisel.
- No. 50—18 in. Panel Saw.
- No. 100 Coping Saw.
- No. F68 Rule.
- 1 each 1/4, 3/8 and 1/2 in. No. 62 Auger Bits.
- No. P8 Brace.
- No. 306 Plier.
- No. 26—6 in. Try Square.
- No. 10—4 in. Screw Driver.
- No. 25 Gimlet.
- No. R102 Plane.
- No. 20 Mallet.
- No. 100 Scratch Awl.
- No. 35 1/2 Nail Set.
- No. 155 Level.
- No. 01 Alligator Wrench.
- No. 3—6 in. Divider.
- 2 oz. Glue.
- No. 111 Pencil.



No. T101 **REYNOLDS**—Hardwood, dovetailed, panned and nicely finished, outside dimensions 26 1/2 x 19 1/2 x 8 3/16 in., contains 35 first quality tools, w't each 55 lbs., each\$41.00

Contents One Each of the Following:

- 2 Planes.
- 1 Rule.
- 1 Try Square.
- 1 Marking Gauge.
- 1 Knurled Nail Set.
- 1 Pair Wing Dividers.
- 1 Pair Gas Pliers.
- 1 Pair Flat Nose Pliers.
- 1 Pair Cutting Nippers.
- 1 Saw File.
- 1 Oil Whetstone.
- 1 Oiler.
- 1 Coping Saw.
- 1 Glue Pot.
- 1 Drawing Knife.
- 1 18 in. Saw.
- 1 Brace.
- 3 Gimlets.
- 3 Auger Bits.
- 3 Chisels.
- 2 Screw Drivers.
- 1 Hack Saw.
- 1 Hexagon Level.
- 1 Countersink.
- 1 Cabinet Scraper.
- 1 Steel Nail Hammer.
- 1 Tack Hammer.
- 1 Tool Holder, with 10 Tools.



SCROLL SAWS



NEW ROGERS, japanned iron frame, striped in red and gold, japanned tilting-table, selected ash arms and Pitman, steel arbors, carefully fitted to bearings, 4½ in. iron balance wheel, with drilling attachment, improved saw clamps, height of table 22 in. The swing around the table under the arms is 34 in., complete with 1 dozen 5-in. bracket saw blades, wrench, sheet of designs and drill points, w't 25 lbs., boxed for shipment \$20.00

No. 72—With Emery flywheel, each\$20.00
ONE IN A BOX, SHIPPED KNOCKED DOWN



For carpenters and builders, cabinet makers and other wood workers. Will saw pine 2 in. thick, 1 ft. per minute; 4 in. thick, 4 ft. per minute.

The swing around the blade under the arm is 24 in.

No. 71—Cast iron frame, hard maple table and arms, balance wheel runs on steel arbor, 7 in. blade, complete with 1 dozen saw blades, w't 55 lbs., boxed for shipment 80 lbs., each*\$66.50

ONE IN A BOX, SHIPPED KNOCKED DOWN

VELOCIPED SCROLL SAWS



Cast iron frame, hard maple table and arms, balance and drive wheels run on steel arbors, 7 in. blade, with one dozen blades, w't 90 lbs., boxed for shipment 130 lbs.

No. F2—Without boring attachment, each*\$76.00

No. F2B—With boring attachment, including one ¼ in. bit, each*\$85.50

Swing around blade under arm is 24 in. Boring attachment can be furnished at any time. We furnish extra bits at following prices, each: ¼ in., 15c.; ⅜ in., 15c.; ½ in., 20c.; ⅝ in., 20c.; ¾ in., 25c.; 7/8 in., 30c.; 1 in., 35c.

ONE IN A BOX, SHIPPED KNOCKED DOWN

COMBINED CIRCULAR AND SCROLL SAWS



Showing Circular Saw Only.

Neither circular nor scroll saw interferes with successful operation of the other. Capacity of scroll saw is same as that of No. 7. Table can be adjusted up or down by a cam, to allow any desired depth of cut being made by saws or cutter tools. Circular saws are 6 in. in diam. and reach 1½ in. above the table. W't boxed for shipment 350 lbs.

No. F25—Circular saw only—with two 6 in. saws—without attachments, each*\$161.50

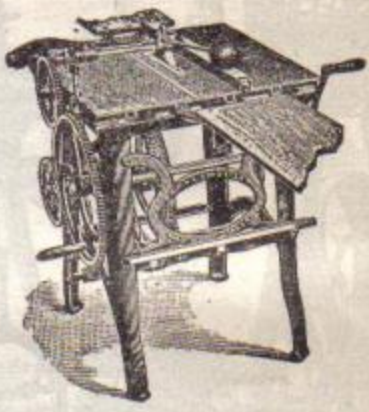
No. F26—Scroll saw attachment—1 dozen saws, extra*each \$19.00

No. F27—Boring attachment, with drill chuck, extra*each \$28.50

No. F28—Combined machine, complete with attachments, each*\$190.00

ONE IN A BOX, SHIPPED KNOCKED DOWN

CIRCULAR SAWS



Iron and steel frame, 30x30 in. iron table, complete with self-feed, two 10 in. circular saws—1 each rip and cross-cut, w't 400 lbs., crated 480 lbs.

Hand and foot power for hard or soft, thick or thin lumber. Can be used as a cross-cut saw. Self-feed mechanism can be instantly thrown back to rear of machine, also rip gauge, leaving table perfectly clear for cut-off work. Can be used for rabbeting and grooving. The self-feed can be used for grooving and rabbeting as well as when the machine is used for ripping. Cutter heads are also used for graining and dadoing and with knives of suitable width for joining. Can be provided with boring attachment which is the same as used on the combined machine.

No. F4—For Foot Power, each*\$285.00

No. F5—With countershafts, for steam instead of foot power, each*\$285.00

BORING ATTACHMENTS

No. F6—each*\$28.50

COUNTERSHAFTS

No. F7C—Countershaft and belt pulleys*\$28.50

ONE IN A BOX, SHIPPED KNOCKED DOWN

* Items Marked Thus * Are Shipped From Factory Only.

LATHES



Cut showing portion of No. 6 Screw Cutting Engine Lathe.

Barnes all iron and steel, velocipede foot power.

Swings 11 in. on the face plate, 6 1/2 in. over the tool carriage, and is 34 in. between centers. Back-gearing and cone pulleys give great range of speed. Head stock has a steel spindle with 1 1/2 in. hole through its entire length. Tail stock can be readily set at any desired point, and can be taken off altogether, leaving it free for face plate or chuck work. It can also be set over for turning tapers. Spindles of both head and tail stocks are of steel, with positively true taper holes for the reception of the centers. Tail stock center is self-discharging. Tool carriage is gibbed to the bed. The tool can be set to the work at any position or angle desired; also to bore a taper hole. All the works are securely protected from chips and dirt. As a right or left screw cutting lathe it is simply perfect. All the gearing is cut from solid metal in the best machinery known for gear cutting, and is as true and noiseless as it is possible for metal gearing to be. Weight 385 lbs., boxed ready for shipment, 500 lbs.

No. F5—Lathe, complete, each★\$362.00

ONE IN A CRATE

HSB & CO.
REV-O-NOC

We Stand Behind the Brand.

FOOT POWER MORTISERS



Has great range for work, power on the chisel, accuracy in its action, and has all the required adjustments, which are easily and quickly made. Has abundant strength, is durable, and occupies but little space. Except for the supplementary table and treadle, the machine is made entirely of iron and steel.

No. F9—Foot power mortisers, without chisels, w't 135 lbs.; boxed 170 lbs.★each \$95.00

No. F10—Self-cleaning mortising chisel, sizes 1/2, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 1 3/4 and 1 in.★each \$4.50

ONE IN A CRATE

EMERY WHEEL DRESSERS



No. 15—Huntington, for truing, shaping and removing glaze from solid emery wheels while running at full speed, w't per doz. 22 lbs., per dozen\$9.80

No. 25—Extra Cutters, w't per doz. sets 1 lb.per set \$0.09

ONE IN A BOX

REV-O-NOC GRAIN EMERY



Fine. Medium. Coarse.
Made from the highest quality ore, thoroughly washed and evenly graded. Sizes 36, 46, 60, 80, 90, 100, 120 and 150.

Per Lb.
5 lb. Cansper pound \$0.18

WE DO NOT BREAK PACKAGES

REV-O-NOC EMERY FLOUR



Highest quality, smooth and long-lived.

5 lb. Cansper pound \$0.18

WE DO NOT BREAK PACKAGES

Carry a line of goods upon which you can rely.

The dealer who carries H. S. B. & Co. Brands marks his store as a place where the better goods are sold.

A house with over sixty-seven years' experience stands back of our brands.

★ Items Marked Thus ★ Are Shipped From Factory Only.

EMERY WHEELS

Special Price Quoted on Application

Emery and Aloxite Wheels are Priced Each.

BEST EMERY



Flat Face Wheels Carried In Stock.

Diam. in.	Thickness, in.															
	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	1 3/4	2	2 1/2	3	3 1/2	4	
Arbor, in.	3/8	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/2	3	3 1/2	4	4 1/2	5	6	
3	.....	.....	1.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
4	.....	.....	.....	1.40	1.65	.....	.....	1.65	.....	1.95	.....	.....	.....	2.55	.....
5	.....	.....	.....	1.90	.....	.....	.....	2.25	.....	2.65	.....	.....	.....	3.40	.....
6	1.90	2.40	2.90	2.90	2.90	3.40	3.40	3.40	3.40	3.40	3.90	4.45	5.40

Diam. in.	Thickness, in.														
	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	1 3/4	2	2 1/2	3	3 1/2	4
Arbor, in.	3/8	1	1 1/4	1	1 1/4	1 1/2	1 3/4	2	2 1/2	3	3 1/2	4	4 1/2	5	6
7	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.30	.....	.....	.....	.....	.....
8	2.70	.....	2.70	3.55	.....	3.55	.....	4.40	4.40	.....	5.20	6.10	6.90	8.60	.....
10	.....	3.60	.....	.....	4.90	4.90	6.20	.....	.....	.....	7.50	.....	10.20	12.80	.....
12	.....	.....	4.20	.....	6.00	6.00	7.80	.....	7.80	.....	9.50	11.30	13.10	16.70	.....

Round Face Wheels Carried In Stock.

Diam. in.	Thickness, in.									
	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	1 3/4
Arbor, in.	3/8	1	1 1/4	1	1 1/4	1 1/2	1 3/4	2	2 1/2	3
6	1.90	.....	2.40	.....	.....	2.40	.....	.....	.....	.....
8	2.70	2.70	.....	3.55	.....	.....	3.55	.....	.....	.....
10	.....	3.60	.....	.....	4.90	.....	.....	4.90	6.20	6.20
12	.....	.....	.....	.....	6.00	.....	.....	6.00	7.80	7.80

Flat, Round or Beveled Face Wheels Shipped From Factory.

Diam. in.	Thickness, in.														
	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	1 3/4	2	2 1/2	3	3 1/2	4
Arbor, in.	3/8	1	1 1/4	1	1 1/4	1 1/2	1 3/4	2	2 1/2	3	3 1/2	4	4 1/2	5	6
1	.40	\$0.50	.50	\$0.60	.60	.70	.80	.95	\$1.05	1.15	\$1.35	\$1.55	\$ 1.80	\$2.00	1
2	.60	.75	.75	.90	.90	1.00	1.15	1.30	1.45	1.60	1.85	2.15	2.40	2.70	2
3	.80	1.00	.....	1.20	1.20	1.45	1.65	1.85	2.10	2.30	2.70	3.15	3.55	4.00	3
4	1.10	1.40	.....	.....	.....	.....	2.25	.....	2.80	3.10	3.70	4.25	4.80	5.40	4
5	.....	1.90	.....	2.25	.....	.....	3.00	.....	3.80	4.15	4.90	5.70	6.40	7.20	5
6	.....	.....	2.40	.....	.....	.....	.....	.....	4.95	.....	6.50	7.50	8.50	9.50	6
7	2.30	2.95	2.95	3.60	3.60	.....	4.95	5.60	6.30	6.90	8.20	9.60	10.90	12.20	7
8	.....	.....	.....	4.40	.....	.....	.....	.....	7.80	.....	10.30	12.00	13.70	15.40	8
9	3.10	4.15	4.15	5.20	5.20	6.30	7.40	8.40	9.50	10.60	12.70	14.80	17.00	19.10	9
10	.....	.....	.....	6.20	.....	8.90	.....	.....	11.50	.....	15.40	18.00	20.70	23.30	10
12	.....	.....	.....	.....	.....	.....	.....	.....	14.90	.....	20.20	23.80	27.30	30.90	12
14	4.90	7.20	7.20	9.60	9.60	11.90	14.20	16.50	18.90	21.20	25.80	30.50	35.10	39.80	14
16	5.70	8.70	8.70	11.60	11.60	14.60	17.60	20.50	23.50	26.50	32.40	38.30	44.30	50.20	16
18	6.60	10.30	10.30	14.00	14.00	17.70	21.40	25.10	28.80	32.50	39.80	47.20	54.60	62.00	18
20	.....	12.30	12.30	16.80	16.80	21.40	25.90	30.50	35.00	39.60	48.70	58.00	67.00	76.00	20
22	.....	.....	.....	20.10	20.10	25.60	31.10	36.70	42.20	47.70	59.00	70.00	81.00	92.00	22
24	.....	.....	.....	24.00	24.00	30.60	37.30	44.00	51.00	59.00	71.00	85.00	99.00	113.00	24

* Items Marked Thus * Are Shipped From Factory Only.



CARBORUNDUM AND ALOXITE GRINDING WHEELS

HARDEST AND SHARPEST

Carborundum and Aloxite grinding wheels are electric furnace manufactured abrasives and guaranteed for uniformity as to grits and grades.

When ordering sizes not listed be sure to state sizes of arbor hole and class of work wheels are to be used for so that factory may be able to furnish proper grades for each class of work.

Carborundum and Aloxite grinding wheels can be used wet or dry and are guaranteed when used with ordinary care.

CARBORUNDUM WHEELS

FROM STOCK

Flat Face, Medium Grit For General Use.

Nos.	Diameter		Arbor	Each.	Nos.	Diameter		Arbor	Each.
	In.	Thickness In.				In.	Thickness In.			In.	Thickness In.
23	3	1/2	1/2	\$1.00	56	6	1 1/2	1	\$3.00
24	4	1/2	1/2	1.40	28	8	1/2	1/2	3.00
34	4	1/2	1/2	1.65	38	8	1/2	1/2	4.00
44	4	1	1/2	1.95	48	8	1	1/2	5.00
35	5	1/2	1/2	2.25	58	8	1 1/2	1	6.00
45	5	1	1/2	2.65	68	8	1 1/2	1	6.00
28	6	1/2	1/2	2.40	410	10	1	1	7.00
36	6	1/2	1/2	2.90	810	10	1 1/2	1 1/2	12.00
46	6	1	1	3.40	812	12	2	1 1/2	16.00

ALOXITE SAW GUMMING WHEELS

FROM STOCK

Round Face Medium Grit.

Nos.	Diameter		Arbor	Each.	Nos.	Diameter		Arbor	Each.
	In.	Thickness In.				In.	Thickness In.		
64	6	1/2	1/2	\$2.40	124	12	1/2	1/2	\$6.00
83	8	1/2	1/2	3.55	P125	12	1/2	1/2	7.00
84	8	1/2	1/2	3.55	P126	12	1/2	1	7.00
104	10	1/2	1/2	4.90					

CARBORUNDUM OR ALOXITE GRINDING WHEELS

PICK-UP

In ordering specify thickness, size of arbor and class of work wheels are to be used for.

Nos.	Diam. in.	Thickness, in.												4 Diam.	
		1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/2	3	3 1/2	4			
P1	1	\$0.40	\$0.50	\$0.50	\$0.60	\$0.60	\$0.70	\$0.80	\$0.95	\$1.05	\$1.15	\$1.35	\$1.55	\$1.80	\$2.00
P2	2	.60	.75	.75	.90	.90	1.00	1.15	1.30	1.45	1.60	1.85	2.15	2.40	2.70
P3	3	.80	1.00	1.00	1.20	1.20	1.45	1.65	1.85	2.10	2.30	2.70	3.15	3.55	4.00
P4	4	1.10	1.40	1.40	1.65	1.65	1.95	2.25	2.55	2.80	3.10	3.70	4.25	4.80	5.40
P5	5	1.50	1.90	1.90	2.25	2.25	2.65	3.00	3.40	3.80	4.15	4.90	5.70	6.40	7.20
P6	6	1.90	2.40	2.40	2.90	2.90	3.40	3.90	4.45	4.95	5.40	6.50	7.50	8.50	9.50
P7	7	2.30	2.95	2.95	3.60	3.60	4.30	4.95	5.60	6.30	6.90	8.20	9.60	10.00	12.20
P8	8	2.70	3.55	3.55	4.40	4.40	5.20	6.10	6.90	7.80	8.60	10.30	12.00	13.70	15.40
P9	9	3.10	4.15	4.15	5.20	5.20	6.30	7.40	8.40	9.50	10.60	12.70	14.80	17.00	19.10
P10	10	3.60	4.90	4.90	6.20	6.20	7.50	8.90	10.20	11.50	12.80	15.40	18.00	20.70	23.30
P12	12	4.20	6.00	6.00	7.80	7.80	9.50	11.30	13.10	14.90	16.70	20.20	23.80	27.30	30.90
P14	14	4.90	7.20	7.20	9.60	9.60	11.90	14.20	16.50	18.90	21.20	25.80	30.50	35.10	35.80
P16	16	5.70	8.70	8.70	11.60	11.60	14.60	17.60	20.50	23.50	26.50	32.40	38.30	44.30	50.20
P18	18	6.60	10.30	14.00	14.00	14.00	17.70	21.40	25.10	28.80	32.50	39.80	47.20	54.60	62.00
P20	20	.....	12.30	12.30	16.80	16.80	21.40	25.90	30.50	35.00	39.60	48.70	58.00	67.00	76.00
P22	22	.....	.....	.....	20.10	20.10	25.60	31.10	36.70	42.20	47.70	59.00	70.00	81.00	92.00
P24	24	.....	.....	.....	24.00	24.00	30.60	37.30	44.00	51.00	59.00	71.00	85.00	99.00	113.00

PIKE'S OIL STONES AND SLIPS

ARKANSAS SOFT **O.S.B.**
NO. 1 QUALITY



Used extensively by sheep shearers.
Nos. 396 398
Length, in. 5½ to 6 7½ to 8
Width, in. 2 2
Thickness, in. ¾ to 1 ¾ to 1
W't, doz., about, lbs. 13 18
Per dozen \$32.00 52.00

ONE IN AN INDIVIDUAL BOX

ARKANSAS SOFT NO. 2
QUALITY

Used extensively by sheep shearers.
Nos. 496 498
Length, in. 5½ to 6 7½ to 8
Width, in. 2 2
Thickness, in. ¾ to 1 ¾ to 1
W't, doz., about, lbs. 12 16
Per dozen \$18.00 25.60

PACKED IN PAPER AND PACKED IN BULK

O.S.B. LILY WHITE WASHITA

Nos. 386 387 388
Length, in. 5½ to 6½ 6½ to 7½ 7½ to 8
Width, in. 2 2 2
Thickness, in. ¾ to 1 ¾ to 1 ¾ to 1
W't, doz., about, lbs. 11 12½ 14
Per dozen .. \$12.00 13.60 20.00

ONE IN AN INDIVIDUAL BOX

Hindostan, although usually called as all stone, can be used with water with equally good results. It is a very fine grained sand stone and is undoubtedly the best low priced sharpening stone for mechanics' tools.

The Arkansas oil stone is found in two grades, known as hard and soft. The hard grade is especially adapted to sharpening highly tempered tools, retaining very keen, smooth edges, also mounted tools such as are used by engravers, watchmakers, die-sinkers, wood and ivory carvers, surgeons, etc. The soft Arkansas is better adapted for sharpening mechanics, cutters and others who require a stone for putting on the finishing edge.

The Washita stone is more generally used by carpenters and joiners than any other. This stone is obtained in several grades, of which the **O.S.B.** Lily White brand is conceded to be the best general purpose stone yet discovered, it being capable of cutting very rapidly and leaving a fine, smooth, lasting edge.

WASHITA NO. 1 QUALITY



Nos. 276 277 278
Length, in. 5½ to 6½ 6½ to 7½ 7½ to 8½
Width, in. 2 2 2
Thickness, in. ¾ to 1 ¾ to 1 ¾ to 1
W't, doz., about, lbs. 11½ 13 14
Per dozen .. \$7.20 8.80 12.00

PACKED IN INDIVIDUAL FOLDING CARTONS

QUEER CREEK

Nos. 165 166 167
Length, in. 5 6 7
Width, in. 2 2 2
Thickness, in. ¾ to 1 ¾ to 1 ¾ to 1
W't, doz., about, lbs. 9 10 10½
Per dozen \$2.70 3.70 4.80

PACKED IN INDIVIDUAL FOLDING CARTONS

HINDOSTAN ASSORTED

No. 57—Blue small, assorted 7x2½ to 1 in., w't 1 lb. per pound \$0.25
No. 58—Blue regular, assorted 8x2x1 to 1½ in., w't from ¾ to 1½ lbs., per pound \$0.20

PACKED IN BULK

MOUNTED OIL STONES



No. 907—Arkansas, soft, 7x2 in., mahogany box, w't per doz. 18 lbs., per dozen \$32.00
No. 716 **EDWARD**—Washita, 6x1½ in., polished hardwood box, w't per doz. 14 lbs. per dozen \$11.20
No. 717 **REVEREND**—Washita, 7x2 in., polished hardwood box, w't per doz. 16 lbs. per dozen \$14.40
No. 725—Cruso, Queer Creek, 5x2 in., polished hardwood box, w't per doz. 14 lbs. per dozen \$3.80
No. 727—Cruso, Queer Creek, 7x2 in., polished hardwood box, w't per doz. 16½ lbs. per dozen \$6.00
No. 805—Two Bits, 5x1½x1 in., polished hardwood box, especially adapted for the household, w't per doz. 11½ lbs. per dozen \$3.40

ONE IN A BOX

BEVELED OIL SLIPS



ARKANSAS ROUND EDGE HARD **O.S.B.** No. 1 QUALITY

Nos. 93 94
Length, in. 2½ to 3½ 3½ to 4½
Width, in. 1½ to 2 1½ to 2
Thickness, in. { ¾ to 1 ¾ to 1
W't, doz., about, lbs. 2½ 3
Per dozen \$18.00 24.00

ONE IN A BOX

ARKANSAS ROUND EDGE SOFT **O.S.B.** No. 1 QUALITY

Nos. 593 594
Length, in. 2½ to 3½ 3½ to 4½
Width, in. 1½ to 2 1½ to 2
Thickness, in. { ¾ to 1 ¾ to 1
W't, doz., about, lbs. 3 3½
Per dozen \$6.40 9.60

ONE IN AN INDIVIDUAL BOX

O.S.B. LILY WHITE ROUND EDGE

No. 184 **O.S.B.**—3½ to 4½ in. long x 1½ to 2 in. wide x ¾ to 1 x ¾ to 1 in. thick, w't per doz. about 3½ lbs., per dozen \$4.80

ONE DOZEN IN A PASTEBOARD BOX

WASHITA ROUND EDGE, No. 1 QUALITY

Nos. 174 175
Length, in. 3½ to 4½ 4½ to 5½
Width, in. 1½ to 2 1½ to 2
Thickness, in. { ¾ to 1 ¾ to 1
W't, doz., about, lbs. 3 3½
Per dozen \$3.20 4.80

ONE DOZEN IN A PASTEBOARD BOX

AXE STONES



No. 153—Hindostan, small, assorted 3x2½ to 1 in., w't ½ to 1 lb., per pound \$0.20
No. 254—Hindostan, large, assorted 4x2x1 to 1½ in., w't 1 to 1½ lb., per pound \$0.20

INDIA POCKET KNIFE STONES



One of the best all around sharpeners for all sorts of small tools around the home, office and workshop. It is made of selected material and gives a sharp, keen edge.

No. 293— $3\frac{1}{2}$ in. long \times 1 in. wide \times $\frac{1}{8}$ in. thick, w't per doz. about 2 $\frac{1}{2}$ lbs., per dozen\$3.20

PACKED IN NATURAL WOOD DISPLAY STANDS CONTAINING ONE DOZEN STANDS

SAND STONES



No. 38—Shoemakers' about $8 \times 1\frac{1}{2} \times 1\frac{1}{2}$ in., w't about 1 $\frac{1}{2}$ lbs., per pound\$0.15
LOOSE



No. 32—Kitchen, $8 \times 1\frac{1}{2} \times 1\frac{1}{2}$ in., neat wood box, w't per doz. 30 lbs., per dozen\$3.40
ONE DOZEN IN A BOX

INDIA OIL SLIPS



No. 44—Slip, $4\frac{1}{2}$ in. long \times $1\frac{1}{2} \times \frac{3}{8}$ in., w't per doz. about 2 $\frac{1}{2}$ lbs., per dozen\$10.40
ONE DOZEN IN A BOX

INDIA "KANT-BREAK" KNIFE SHARPENERS



These "Stone Steels" are made of the most satisfactory abrasion known—India Corundum—a substance in hardness about that of a diamond. It is crushed into small grains, bound together under heavy pressure and hardened by heat. There is a strong reinforcing rod running the entire length of the steel as well as rubber tips at both ends and a rubber ring upon the handle. All serving to make the hone strong and less liable to break. We cannot too highly recommend these hones to the man who wants a very rapid cutting, durable sharpener.

No. 10—"Kant Break" w't per doz. 8 lbs.per dozen \$9.60

A STRONG, NEAT COUNTER DISPLAY STAND PACKED WITH EVERY DOZEN SHARPENERS

INDIA OIL STONES



India oil stone has been on the market but a few years, yet its reputation has become world-wide. For rapid cutting it has no equal and it leaves remarkably smooth, lasting edge on the tool. It is made in coarse and medium grits. The coarse grit is used only where very rapid work is desired, the medium grit being used mostly by carpenters, joiners and others wanting a stone for general use.

The India is also made with the coarse grit on one side and medium on the other. This stone is very popular as it saves many the necessity of buying two stones.

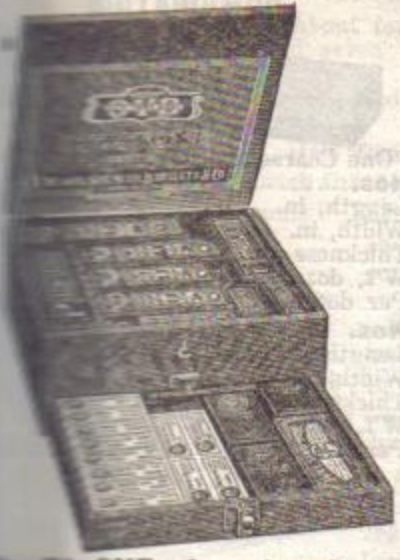
FINE		
Nos.	67	255
Length, in.	7	6
Width, in.	2	1 $\frac{1}{2}$
Thickness, in.	1	$\frac{3}{8}$
W't, doz., about, lbs.	17	8 $\frac{1}{2}$
Per dozen	\$20.00	16.00

MEDIUM		
Nos.	14	34
Length, in.	4	4 $\frac{1}{2}$
Width, in.	1	1 $\frac{1}{2}$
Thickness, in.	$\frac{3}{8}$	$\frac{1}{2}$
W't doz., about, lbs.	2 $\frac{1}{2}$	5 $\frac{1}{2}$
Per dozen	\$9.60	12.00

Nos.	16	17	18
Length, in.	6	7	8
Width, in.	2	2	2
Thickness, in.	1	1	1
W't, doz., about, lbs.	13 $\frac{1}{2}$	17	19
Per dozen	\$18.40	20.00	24.00

COMBINATION			
One Coarse Side and One Fine Side			
Nos.	194	96	86
Length, in.	4 $\frac{1}{2}$	6	6
Width, in.	1 $\frac{1}{2}$	1 $\frac{1}{2}$	2
Thickness, in.	$\frac{3}{8}$	$\frac{3}{8}$	1
W't, doz., about, lbs.	5 $\frac{1}{2}$	9 $\frac{1}{2}$	14
Nos.	87	88	
Length, in.	7	8	
Width, in.	2	2	
Thickness, in.	1	1	
W't, doz., about, lbs.	16	18	
Per dozen	\$28.00	32.00	
Per dozen	\$16.00	23.60	24.00

OIL STONE ASSORTMENT



No. 100 EYS—Assortment, consisting of 23 oil stones, as follows, put up in a handsome display case 10 1/2 in. w't complete for shipment 20 lbs. per asst. \$30.00

4 in. EYS Soft Arkansas	.....	\$2.00	\$2.00
4 in. EYS Soft Arkansas	.....	3.25	3.25
4 in. EYS Lily White Washita	... .75	1.50	
4 in. EYS Lily White Washita	... .85	1.70	
4 in. EYS Lily White Washita	... 1.25	2.50	
4 in. EYS Mounted Washita	.....	.70	.70
4 in. EYS Mounted Washita	.....	.80	.80
4 in. EYS Hard Arkansas Slips	... 1.00	1.00	
4 in. EYS Hard Arkansas Slips	... 1.50	1.50	
4 in. EYS Combination India	.....	1.00	1.00
4 in. EYS Medium India Slips	.....	.65	.65
4 in. EYS Medium India Slips	.....	.20	1.20
4 in. EYS Heavy Home	.....	1.50	1.50
		\$21.60	

EMERY OIL STONES



Emery's, One Side Coarse, One Fine made of emery and silicates, for use with all oils.

Length, in.	126	127	128
Width, in.	6	7	8
Thickness, in.	2	2	2
W't per doz., lbs. ...	10	11	12
Per dozen	\$6.80	8.70	9.60

HALF DOZEN IN A BOX

RUBY OIL STONES



"CRUSO"

Finest Ruby Corundum, One Coarse Side and One Fine Side.

Made of ground corundum, held together by special bond. One side is coarse for quick cutting on a very dull tool and the opposite side is very fine for finishing. Not affected by moisture. The bond is of such a peculiarly tough nature that the stone is not easily broken. It may be dropped from quite a height without damage. This does away with the necessity of having each mounted in a wooden case.

Nos.	224	226	227
Length, in.	4	6	7
Width, in.	1 1/2	2	2
Thickness, in.	1/2	3/4	1
W't, doz., lbs.	5 1/2	15	16
Per dozen	\$3.00	5.10	6.50

Nos.	227	228
Length, in.	7	8
Width, in.	2 1/2	2
Thickness, in.	3/4	1
W't per doz., lbs.	20	19
Per dozen	\$7.20	7.20

IN HANDSOME PASTEBOARD CASE
HALF DOZEN IN A BOX

RUBY OIL SLIPS



"CRUSO"

Finest Ruby Corundum, 4x2 1/2x1/2

No. 334—Coarse, w't per doz. 2 lbs., per dozen \$3.00

No. 2334—Fine, w't per doz. 2 1/2 lbs., per dozen \$3.00

HALF DOZEN IN A BOX

RUBY KNIFE STONES



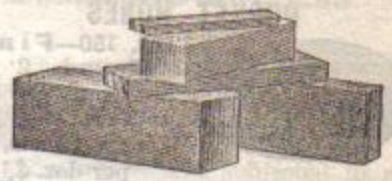
"CRUSO"

Pocket, Finest Ruby Corundum.

No. 403—3 1/2x1x1/2 in., in leatherette case, w't per doz. 1 1/2 lbs., per dozen \$2.00

ONE DOZEN IN A WOOD DISPLAY CASE

CARBORUNDUM RUBBING BRICKS



For Dressing or Scouring.

Suitable for dressing granite and marble, or scouring castings, chilled iron and steel. Made in any grit, 20 (coarse) to FF (fine). State grit wanted or for what purpose.

Nos.	P206	P207	P211	P212
Length, in.	8	8	8	8
Width, in.	3	3	2	2
Thickness, in.	2	3	2	1
W't, doz., lbs.	47	70	32	16
Per dozen	\$36.50	57.60	27.85	15.35

Nos.	P213	P205	P214
Length, in.	6	6	6
Width, in.	3	3	2
Thickness, in.	3	2	2
W't, doz., lbs.	45	35	19
Per dozen	\$43.20	30.70	22.10

Nos.	P215	P221	P228
Length, in.	6	4	4
Width, in.	2	3	3
Thickness, in.	1	3	2
W't, doz., lbs.	12	35	25
Per dozen	\$11.50	30.70	22.10

ONE IN A CARTON



For Concrete.

The carborundum rubbing brick is the fastest cutting medium known for removing form marks and for dressing down concrete work. Brick is fluted on two sides, so as to give a shear cut.

All made by vitrified process and can be used dry, or with water or oil. Absolutely guaranteed.

Nos.	P286	P285	P284
Length, in.	6	8	8
Width, in.	2	2	3
Thickness, in.	2	2	3
W't, doz., lbs.	22	32	70
Per dozen	\$22.10	27.85	57.60

ONE IN A CARTON

CARBORUNDUM STONES



For Truing and Dressing Emery Wheels.

Especially adapted for shaping, truing and dressing gummets.

No. P212C—8x2x1 in., w't per doz. 16 lbs. per dozen \$15.35

ONE IN A CARTON

CARBORUNDUM STONES

Every Stone is Guaranteed to be Perfect, Can be Used with Oil, Water or Dry.

POCKET HONES



No. 150—Fine, Round, 2 in. diam., 1/2 in. thick, w't per doz. 14 oz., per doz. \$3.00

ONE IN A BOX



Made of finest carborundum powder, suitable for sharpening pocket knives, ink scratchers, scissors and small tools. Smooth, fast cutting. Stone is put up in a neat buff colored carton.
No. 149C—Two doz. stones 3x1/2x1/8 in., mounted in a 10x12 in. attractive display box with easel back, per carton \$4.80

AXE



Medium Grit.

Nos.	193	194	195
Length, in.	2 1/2	3	2 1/2
Width, in.	1 1/2	1 1/2	2 1/2
Thickness, in.	1/2	1/2	1/2
W't, doz., lbs.	1 1/2	2 1/2	3
Per dozen	\$4.20	5.40	5.40

ONE IN A BOX

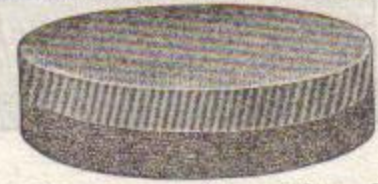
ROUND COMBINATION AXE



One Coarse Side and One Fine Side.
No. 196—3 1/2 in., w't per doz. 4 lbs., per dozen \$7.20

ONE IN A BOX

ROUND COMBINATION BENCH



One Side Coarse, Other Very Fine. Sharpening area contains 12 sq. in.
No. 107—4x1 in., w't per doz. 10 1/2 lbs., per dozen \$15.00

ONE IN A BOX

CARBORUNDUM HOUSEHOLD STONES



Mounted on Wood Base
No. 330—6x2 in., w't per doz. 9 lbs., per dozen \$5.40

THREE DOZEN IN A BOX

SLIP

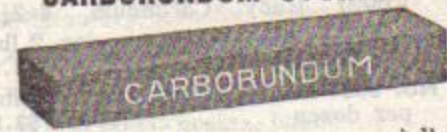


Fine Grit.				
Nos.	174	177	180	183
Length, in.	6	4 1/2	4 1/2	4 1/2
Width, in.	2 1/2	1 1/2	2 1/2	1 1/2
Thick., in.	3/16 to 1/8	1/16 to 1/8	3/16 to 1/8	1/16 to 1/8
W't, doz., lbs.	8	1 1/2	4 1/2	2 1/2
Per dozen	\$13.80	7.80	10.80	7.80

Medium Grit.				
Nos.	P175	P178	181	184
Length, in.	6	4 1/2	4 1/2	4 1/2
Width, in.	2 1/2	1 1/2	2 1/2	1 1/2
Thick., in.	3/16 to 1/8	1/16 to 1/8	3/16 to 1/8	1/16 to 1/8
W't, doz., lbs.	8	1 1/2	4 1/2	2 1/2
Per dozen	\$13.80	7.80	10.80	7.80

ONE IN A BOX

CARBORUNDUM STONES



Extra hard, fine stones, especially adapted for manual training schools, cabinet makers and wood carvers. Made for all tools that require an extra fine, delicate edge. Made in six sizes.

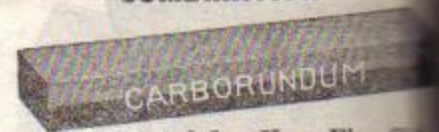
Nos.	156	157	158	159
Length, in.	8	8	6	6
Width, in.	2	2	2	2
Thickness, in.	1	3/4	1	3/4
W't, doz., lbs.	16 1/2	10 1/2	10 1/2	6 1/2
Per dozen	\$21.00	18.00	15.00	12.00

SLIP

Nos.	154	155
Length, in.	4 1/2	4 1/2
Width, in.	2 1/2	1 1/2
Thickness, in.	5/16 to 3/16	1/2 to 3/16
W't per doz., lbs.	5	5
Per dozen	\$12.00	9.00

ONE IN A BOX

COMBINATION



One Coarse and One Very Fine

Nos.	328	108
Length, in.	8	8
Width, in.	3	2
Thickness, in.	1	1
W't, doz., lbs.	18	13 1/2
Per dozen	\$27.00	21.00

Nos.	109	111
Length, in.	6	5
Width, in.	2	2
Thickness, in.	1	3/4
W't, doz., lbs.	10 1/2	6
Per dozen	\$15.00	12.00

ONE IN A BOX

BENCH



Fine Grit.

Nos.	115	118	121
Length, in.	8	8	6
Width, in.	2	2	2
Thickness, in.	1	3/4	1
W't doz., lbs.	16 1/2	10 1/2	10 1/2
Per dozen	\$18.00	16.20	13.80

Nos.	130	133	136
Length, in.	6	7	5
Width, in.	1 1/2	2	2
Thickness, in.	3/4	1	5/8
W't, doz., lbs.	4 1/2	13	8
Per dozen	\$8.40	15.00	9.00

Medium Grit.

Nos.	116	119	122
Length, in.	8	8	6
Width, in.	2	2	2
Thickness, in.	1	3/4	1
W't doz., lbs.	13 1/2	10 1/2	10 1/2
Per dozen	\$18.00	16.20	13.80

Nos.	131	134	137
Length, in.	6	7	5
Width, in.	1 1/2	2	2
Thickness, in.	3/4	1	5/8
W't, doz., lbs.	4 1/2	13	8
Per dozen	\$8.40	15.00	9.00

ONE IN A BOX

MACHINISTS' SPECIAL



Designed for machinists' use. 4x1x1/2 in., w't per doz. 1 1/2 lbs.
No. 292—Fine Grit, per dozen \$6.00
No. 292M—Medium Grit, per dozen \$6.00

ONE IN A BOX

CARBORUNDUM STONES

CARBORUNDUM DISPLAY CASES

About fourteen inches square and seven inches high. Natural wood colors, is strong, durable and practical as a stock keeper.

Has four spacious drawers, each fitted with a strong drawer pull. Each drawer is large enough to hold a good supply.

The lift-top cover is lowered and fits tightly to the body of the case, making the interior dust-proof. This case is given absolutely free to any dealer purchasing any one of the following assortments:



No. 26 Assortment—Containing 26 carborundum stones, total retail value \$24.00, w't per assortment 20 lbs., per assortment\$24.00

	Retail Value.
Round Combination Stone	\$1.25
Combination Stones	3.50
Combination Stones	2.50
Combination Stone	1.00
Combination Stone .....	.85
Sharpening Stones, Fine	2.30
Sharpening Stone, Fine	1.25
Sharpening Stones, Fine	3.60
Sharpening Stones, Fine	1.50
Flap Stones, Fine	1.80
Flap Stone, Medium .....	.90
Flap Stones, Fine	1.30
Flap Stone, Medium .....	.65
Aze Stones .....	.70
Aze Stones .....	.90
Total retail value	\$24.00

CARBORUNDUM OIL STONE BOXES



Varnished Wood

	P49	P50	P51
.....	6x2x1	7x2x1	8x2x1
.....	3	4	4 1/2
.....	\$4.80	5.40	6.00



Iron, Painted Black.

	P52	P53	P54
.....	6x2x1	7x2x1	8x2x1
.....	28	33	35
.....	\$10.20	12.00	13.80

LOOSE

CARBORUNDUM GRAINS AND POWDERS



The carborundum grains and powders are produced by crushing the crude carborundum crystal masses.

The grains are subjected to an acid treatment, then graded into the different grits by a sieving process.

The grains too small to grade by sieving are graduated in running water, the finest grains being those which float longest.

Prices on Application

Following carried in stock:

No. 80—80 grain, 1 lb. cans	per lb.	\$0.40
No. 80—80 grain, 5 lb. cans	per lb.	.40
No. 120—120 grain, 1 lb. cans	per lb.	.40
No. 120—120 grain, 5 lb. cans	per lb.	.30
No. 2F—2F powder, 1 lb. cans	per lb.	.40
No. 2F—2F powder, 5 lb. cans	per lb.	.30

GRAIN

Nos.	Grain No.	1 lb.	5 lb.	10 lb.	50 lb.	100lb.	150lb.	300lb.
		Cans	Cans	Bags	Drums	Kegs	Kegs	Kegs
		Per	Per	Per	Per	Per	Per	Per
		Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.
P24	24	\$0.40	.30	.25	.22 1/2	.21 1/2	.20 1/2	.20
P30	30	.40	.30	.25	.22 1/2	.21 1/2	.20 1/2	.20
P36	36	.40	.30	.25	.22 1/2	.21 1/2	.20 1/2	.20
P40	40	.40	.30	.25	.22 1/2	.21 1/2	.20 1/2	.20
P50	50	.40	.30	.25	.22 1/2	.21 1/2	.20 1/2	.20
P60	60	.40	.30	.25	.22 1/2	.21 1/2	.20 1/2	.20
P70	70	.40	.30	.25	.22 1/2	.21 1/2	.20 1/2	.20
P80	80	...	...	.25	.22 1/2	.21 1/2	.20 1/2	.20
P90	90	.40	.30	.25	.22 1/2	.21 1/2	.20 1/2	.20
P100	100	.40	.30	.25	.22 1/2	.21 1/2	.20 1/2	.20
P120	120	...	...	.25	.22 1/2	.21 1/2	.20 1/2	.20
P2F	F	.40	.30	.25	.22 1/2	.21 1/2	.20 1/2	.20
P2F	FF	...	...	.25	.22 1/2	.21 1/2	.20 1/2	.20
P1F	F	\$0.40	.30	.25	.22 1/2	.21 1/2	.20 1/2	.20
P2F	FF	...	...	.25	.22 1/2	.21 1/2	.20 1/2	.20
P3F	FFF	.40	.30	.25	.22 1/2	.21 1/2	.20 1/2	.20

POWDER

Nos.	Powder No.	1 lb.	5 lb.	10 lb.	50 lb.	100lb.	150lb.	300lb.
		Cans	Cans	Bags	Drums	Kegs	Kegs	Kegs
		Per	Per	Per	Per	Per	Per	Per
		Lb.	Lb.	Lb.	Lb.	Lb.	Lb.	Lb.
P1F	F	\$0.40	.30	.25	.22 1/2	.21 1/2	.20 1/2	.20
P2F	FF	...	...	.25	.22 1/2	.21 1/2	.20 1/2	.20
P3F	FFF	.40	.30	.25	.22 1/2	.21 1/2	.20 1/2	.20
		.50	.40	.35	.30	.30	.25	.25

**CARBORUNDUM STONES
NO. 7 DISPLAY CASE**



We will furnish FREE, the above illustrated display case, providing the dealer will purchase from us the stones displayed in case, and a selling stock of stones, at a total investment of \$6170, list price.

With this proposition the dealer is assured of three things—first, of a wide margin of profit. Second a quick selling stock of Carborundum Sharpening Stones, made of Carborundum, the hardest, sharpest, quickest cutting abrasive known, and third, of a very attractive display case of such finish and workmanship as to be quite in keeping with the furnishings of any first class hardware store.

The case is 24 inches high, 18 inches wide and 12 inches deep, made of the best grade golden finish quartered oak. The door and heavy glass-covered display panel showing an assortment of carborundum stones are in one. The stones are attractively arranged on dark cloth-covered panel, with number and selling price of stones stamped on each stone. Stones are easily removable. Back of the door are four spacious compartments for carrying stone assortment. The stock is accessible from the front of the case, making it very convenient.

This is a splendid, attractive case especially designed for the window or counter display.

The following stones are displayed on the panel of the show case. They are rapid sellers and known to the trade.

	Retail Value.
1 103C Razor Hone	\$1.15
1 200C Aloxite Razor Hone	1.00
1 109C Combination Stone	1.25
1 111C Combination Stone	1.00
1 112C Combination Stone .....	.85
1 118C Sharpening Stone, Fine	1.35
1 124C Sharpening Stone, Fine .....	.90
1 142C Sharpening Stone, Fine .....	.65
1 145C Sharpening Stone, Fine .....	.45
1 149C Pocket Stone, Fine .....	.20
1 183C Slip Stone, Fine .....	.65
1 184C Slip Stone, Medium .....	.65
1 194C Axe Stone .....	.45
1 292C Machinist's Stone, Fine .....	.55
2 4x½ Round Sticks .....	.70
2 4x½ Square Sticks .....	.50
2 4x½ Triangular Sticks .....	.65
Total	\$14.80

The following list, based upon our experience, is suggested for a sample stock of sharpening stones. This, however, must be considered only as a suggestion, as we deem every dealer to order what he considers best for his trade.

2 200C Aloxite Razor Hones	\$1.00
2 103C Razor Hones	1.15
2 102C Razor Hones .....	.75
1 101CA Razor Hone	1.35
2 107C Rond Combination Stones	1.25
1 108C Combination Stone	1.75
2 109C Combination Stones	1.25
2 110C Combination Stones	1.50
2 111C Combination Stones	1.00
2 112C Combination Stones .....	.85
2 115C Sharpening Stones, Fine	1.50
1 116C Sharpening Stone, Medium	1.50
2 118C Sharpening Stones, Fine	1.35
1 119C Sharpening Stone, Medium	1.35
2 121C Sharpening Stones, Fine	1.15
1 122C Sharpening Stone, Medium	1.15
3 124C Sharpening Stones, Fine .....	.90
2 125C Sharpening Stones, Medium .....	.90
2 142C Sharpening Stones, Fine .....	.65
1 143C Sharpening Stone, Medium .....	.65
2 145C Sharpening Stones, Fine .....	.45
1 180C Slip Stone, Fine .....	.90
1 181C Slip Stone, Medium .....	.90
2 183C Slip Stones, Fine .....	.65
2 184C Slip Stones, Medium .....	.65
2 194C Axe Stones .....	.45
3 292C Machinist's Stones, Fine .....	.55
Total	\$14.80
No. P7—Display case complete with stock, w't 100 per case	\$51.90

ALL STONES GUARANTEED

We Guarantee All Stones in the Display and Stock, and Will Refund Full Price Paid for Any Stone Not Giving Satisfaction to Your Customer.

★ Items Marked Thus ★ Are Shipped From Factory Only.

CARBORUNDUM FILE



A handy tool for the farmer, gardener or householder. It has a four-sided, tapered shaft of Carborundum that cuts sharp and free. Use it for mower sections, lawn mower knives, for practically any edge, farm or garden tool. Just the right handy size and made in the right grit to give best and quickest results.

A wonderfully useful tool. Its chief use is the sharpening of knives of the mower sections, but it can be used in cutting an edge on almost any farm or garden tool, sickles, axes, spades, scythes, lawn mower knives, etc.

No. 12—13 in. long, wood handle, w't per doz. 15 lbs.,
per doz. \$12.00
LOOSE

SCYTHE STONE ASSORTMENTS



An assortment of scythe stones attractively displayed in a beautiful box, that looks well on a counter, with a quantity of scythe stone circulars for free distribution, showing the merits of the various kinds of stone, and with the name of stone plainly marked with the selling price.

This case contains seven varieties of our best selling scythes. This enables the merchant to offer to his customer, in a neat and compact form, a large assortment. Every stone is labeled with the retailing price.

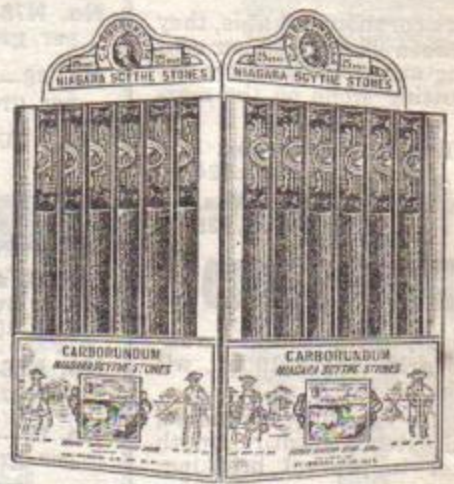
Complete Assortment—Consisting of 80 scythes in a finished 12x11½x10½ in. case, weighing for shipment 80 lbs., per assortment \$11.35

Green Scythe	each	\$0.10	1.80
Blue Scythe, No. 1	each	.15	1.80
Blue Scythe	each	.15	1.80
Green Scythe	each	.15	.90
Blue Scythe	each	.20	2.40
Blue Scythe	each	.20	2.40
Blue Scythe	each	.20	1.60

Total \$12.70

CARBORUNDUM ALOXITE SCYTHE STONES

Aloxite Scythe Stones are made of carborundum aloxite, the hardest and sharpest known abrasive material. The sharpness gives an exceeding rapid cutting quality, and the hardness imparts durability unequaled by any abrasive.



This display box is made of cardboard reinforced with wood, and covered with a buff glazed coated paper.

Three sizes are put up in this way; one dozen No. 190C, 10 inches in length, one dozen No. 191C, 12 inches in length, and one dozen No. 192C, heavy, 10 inches in length.

The box is hinged at the center and when folded back for display, is very substantial and makes an exceedingly attractive appearance.

No. 190C—Length 10 in., w't per gro. 72 lbs.,
per gross \$43.20

No. 191C—Length 12 in., w't per gro. 120 lbs.,
per gross \$50.40

No. 192C—Length 10 in., heavy, w't per gro. 108 lbs.,
per gross \$50.40

ONE DOZEN IN A CARTON

SHIPPING FACILITIES

With our immense stock and very modern facilities for shipments we are enabled to fill orders with unequaled promptness. On some of the roads we have special through cars which enable us to reach distant points 24 hours ahead of shipments made in the regular way.

SCYTHE STONES



REVONOC—Oval, terra cotta, corundum, length 10 in., fine, w't per gro. 95 lbs.

Made of pure corundum, that is, they represent between 95 and 100 per cent of pure cutting material, therefore are the fastest cutting stone on the market.

No. N80—Full quarter gross box, per gross\$24.00

No. 80—Less than quarter gross, per gross\$25.00



REVONOC—Oval, terra cotta, corundum, medium grit, length 10 in., w't per gro. 96 lbs.

Made of pure ground corundum, with steel rod extending entire length through center to prevent breaking.

No. N95—Full quarter gross box, per gross\$22.50

No. 95—Less than quarter gross, per gross\$23.50



Cruso, very coarse, rapid cutting, western grindstone grit with flat face and square edges, with red ends, w't per gross 120 lbs. Give a very coarse edge.

No. N65—Full quarter gross box, per gross\$23.50

No. 65—Less than quarter gross, per gross\$24.50



White Mountain, oval, square edges, best New Hampshire grit, medium fine, length 10 in., w't per gro. 120 lbs.

No. N72—Full quarter gross box, per gross\$30.00

No. 72—Less than quarter gross, per gross\$31.00

EACH IN AN INDIVIDUAL CARTON QUARTER GROSS IN A BOX



Crescent, oval, coarse, grindstone grit, length 10 in., w't per gro. 120 lbs.

No. N62—Full quarter gross box, per gross\$24.00

No. 62—Less than quarter gross, per gross\$25.00

This stone gives a quick, coarse edge. QUARTER GROSS IN A BOX

SCYTHE STONES



Black Diamond, flat octagon, best Vermont grit, very fine, length 10 in., w't per gro. 105 lbs.

No. N78—Full quarter gross box, per gross\$31.50

No. 78—Less than quarter gross, per gross\$32.50

QUARTER GROSS IN A BOX



Pike's Genuine Indian Pond, No. 1, oval, red end, very sharp grit, length 10 in., w't per gro. 108 lbs.

No. N66—Full quarter gross box, per gross\$21.60

No. 66—Less than quarter gross, per gross\$22.60

QUARTER GROSS IN A BOX



Willoughby Lake, round oval, bluish gray, fine sharp grit, length 10 in., w't per gro. 100 lbs.

No. N68—Full quarter gross box, per gross\$25.20

No. 68—Less than quarter gross, per gross\$26.20

QUARTER GROSS IN A BOX



Green Mountain, flat oval, Vermont grit, sharp, length 10 in., w't per gro. 100 lbs.

No. N64—Full quarter gross box, per gross\$20.00

No. 64—Less than quarter gross, per gross\$21.00

QUARTER GROSS IN A BOX



Lamoille, round oval, extra quality Vermont grit, very sharp, length 10 in., w't per gro. 108 lbs.

The Green Mountain and Lamoille are taken from the same quarry. The Lamoille is better finished and gives a finer edge.

No. N76—Full quarter gross box, per gross\$25.50

No. 76—Less than quarter gross, per gross\$26.50

QUARTER GROSS IN A BOX

EMERY GRINDER HEADS

Wheels Not Included.



No. N21—Intended for very light work, will carry two 6x1 in. wheels. Split cast iron bearings. Spindle 11 in. long, diam. in bearing 3/4 in., diam. on end 3/4 in., size of pulley 1 1/2 x 1 1/2 in., distance between wheels 6 in., height to center of spindle 5 in., w't complete 15 lbs., each\$6.80

No. N22—Built with babbitted bearings and adjustable tool rests, will carry two 8x1 1/2 in. wheels, length of spindle 14 in., diam. in bearing 3/4 in., diam. on end 3/4 in., size of pulley 2 1/2 x 2 in., distance between wheels 8 in., height to center of spindle 6 1/2 in., w't complete 25 lbs.,each \$13.50



No. N23—Built with babbitted bearings with wick oiling arrangement as insurance against faulty lubrication, will carry two 10x1 1/2 in. wheels, length of spindle 18 in., diam. in bearings 1 1/8 in., diam. on end 1 in., size of pulley 2 3/4 x 2 1/2 in., distance between wheels 10 in., h't to center of spindle 7 1/2 in., w't complete 45 lbs., ...each \$23.00

No. N24—



Bearings are babbitted and fitted with wick oiling arrangement, 12x2 in. wheel, length of spindle 24 in., diam. of spindle in bearings 1 1/8 in., diam. between collars 1 in., size of pulley 4 1/2 x 3 1/2 in., distance between wheels 14 1/2 in., height to center of spindle 8 in., w't complete 75 lbs.,each \$40.00

POLISHING HEADS



Will run emery wheels, buffers, polishing wheels and small circular saws, also fitted with chuck for holding drills. We furnish head only as shown in illustration.

No. 10—6 3/4 in. high, for wheels not larger than 6x1/2 in., 9 in. spindle, 3/4 in. diam. between flanges, one end 2 in. taper screw, other end fitted to hold emery wheel, etc., 2 speed pulleys for 1/2 in. round belting, w't 3 1/2 lbs., each\$4.60

LOOSE

OVB TOOL GRINDERS

OVB NIAGARA GRINDERS

Equipped with Genuine Carborundum Wheels.



Best grade cast iron castings, malleable iron handle and clamp, spiral cut gears, enclosed casing, fitted with adjustable tool-grinding guide. Size over hole 1 in.

- No. N1 OVB—Equipped with 4x1 in. carborundum wheel of fine grit, w't each 10 lbs.each \$7.50
 - No. N2 OVB—Equipped with 5x1 in. carborundum wheel of medium grit, w't each 12 lbs.each \$9.75
 - No. N3 OVB—Equipped with 6x1 in. carborundum wheel of medium grit, w't each 14 lbs.each \$12.35
- ONE IN A BOX



- No. N4 OVB—Best grade cast iron castings, malleable iron handle and clamp, spiral cut gears, enclosed casing, equipped with 7½x1½ carborundum wheel of medium grit, fitted with adjustable tool-grinding guide, size over hole 1½ in., w't 26 lbs., each \$18.20
- ONE IN A BOX

The construction of the OVB Grinder is mechanically correct. It is a smooth-running, high-speeded, fast-cutting and durable grinder. Each part is made of the material best adapted for the use of that part. As each machine is equipped with a genuine Carborundum wheel, only a slight pressure is needed in grinding. Carborundum is fast and cool cutting and will not burn nor draw the temper from any tool.

The OVB Grinder has spiral gears cut from tough, solid blocks of steel, following the most approved and mechanically correct construction for gearing. All bearings in this machine are made of steel on cast iron—the most lasting bearing known to mechanics. The gears are enclosed in a one-piece oil-tight and dust-proof case of gray iron.

Both ends of all bearings run in the same casting, making it impossible for bearing to get out of alignment.

An additional feature is the malleable iron back plate, clamp and clamp support. The back plate reinforces the supports and distributes equally the pressure of the thumb screw. Each OVB Grinder is absolutely guaranteed.

OVB TWIST DRILL ATTACHMENT



The attachment is mechanically simple and its cost is so low that every mechanic should have one.

- No. P23 OVB—Attachment is built expressly for Nos. N3 and N4 OVB Grinders, enables a wide range of drills to be accurately pointed, w't 1½ lbs.each \$4.55
- ONE IN A BOX

GRINDER FOOT POWER ATTACHMENT

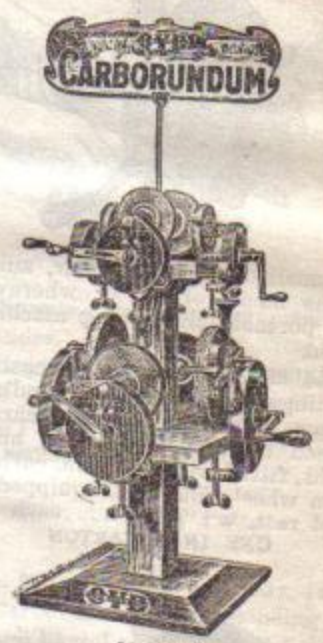


Illustration shows attachment fitted to No. N4 OVB Grinder.

Made of malleable iron, is strong and durable and readily adjusted to several heights.

- No. 21—Attachment to fit No. N4 OVB Grinders, w't each 5 lbs., each \$3.90
 - No. 20—Attachment to fit No. N3 OVB Grinder, w't each 5 lbs., each \$3.90
- ONE IN A BOX

OVB GRINDER DISPLAY STANDS



No. P31.

Genuine Oak, Golden Finish.

- No. P31 OVB—Height 45 in., 15 in. square at base, one center shelf 12 in. square, one shelf at top 10 in. square, w't knocked down 36 lbs., shipped free of charge with an order for three each Nos. N1 and N2, two each Nos. N3 and N4 or their equivalent, ten machines.

- No. P32 OVB—Height 32 in., 12 in. square at base, shelf 12 in. square, w't knocked down 19 lbs., shipped free of charge with an order for two each Nos. N1, N2 and N3 and one No. N4 Grinder or their equivalent, seven machines.

ONE IN A BOX

All goods branded **OVB** are guaranteed to be of highest quality material and workmanship and free from imperfections.

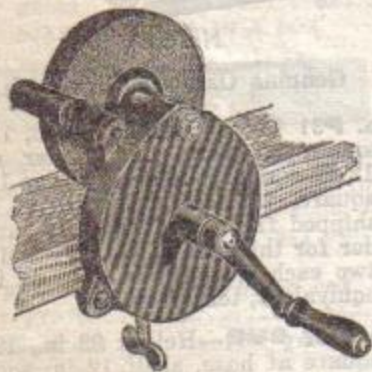
TOOL GRINDERS

REYONOC Tool Grinders are made in three sizes, designed to withstand constant and heavy work. The castings are of a good grade of gray iron. The gears are spiral machine cut, the pinions of steel, machine cut, surfaces between gear case and cover ground, making machine oil tight and dust-proof, the grinders are finished in black enamel and equipped with genuine Carborundum Wheels and practical tool rests.



A small, compact grinder, suitable for the home, office, or wherever a light, portable sharpening machine is wanted.

No. 44 REYONOC—High grade cast iron castings, malleable iron handle and clamp, spiral machine cut gears, enclosed casings dust proof and oil tight, fitted with 4x1 1/2 in. carborundum wheel, fine grit, equipped with tool rest, w't 7 lbs.each \$8.40
ONE IN A CARTON



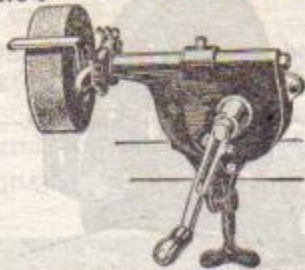
This size grinder is particularly adapted for Mechanics and Carpenters' Tool Chests.

No. 45 REYONOC—High grade cast iron castings, malleable iron handle and clamp, spiral machine cut gears, enclosed casings dust proof and oil tight. Fitted with 5x1 in. carborundum wheels, medium grit, 3/8 in. arbor hole, guide for chisels, scissors and plane bit, w't 10 lbs., each\$10.50
ONE IN A CARTON

A durable, quiet running and satisfactory grinder, combining many special features.

No. 46 REYONOC—Machine cut gears, high grade cast iron castings, malleable iron handle and clamp, enclosed castings, dust proof and oil tight, fitted with 6x1 in. wheels medium grit, 1 in. arbor hole, equipped with adjustable tool rest and guide for chisels, scissors and plane bit, w't 5 lbs.each \$13.30
ONE IN A BOX

REYONOC HOUSEHOLD GRINDERS



A very practical grinder for household and light use. Is equipped with a special combination knife and shear guide, so that anyone, however inexperienced, can successfully sharpen knives and shears.

Mechanical Construction

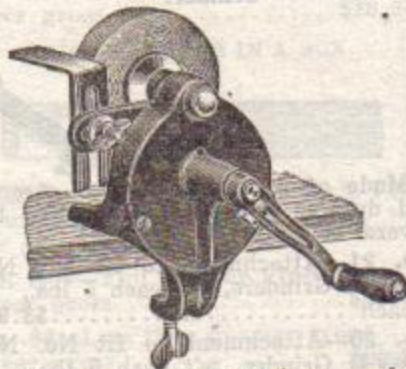
Machine cut gears, high grade cast iron castings, malleable iron handle and clamp, enclosed casings, dust proof and oil tight.

The Bearings are extra wide and heavy, so as to give ample oil-retaining surfaces and long life.

The Tool Guide is especially designed to give the proper bevel to knives and shears.

No. 33 REYONOC—Equipped with 3x3/4 in. carborundum wheel of very fine grit and combination knife and shear guide, w't packed for shipment 3 1/2 lbs.each \$3.30

CRUSO



Cruso steel cut gearings, enclosed and dust-proof, long and durable bearings.

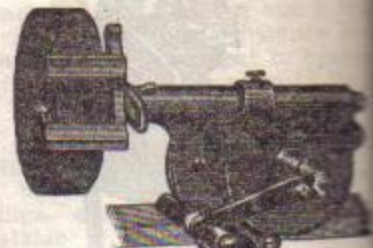
Good competitive grinders—good value for the money; they are durable and efficient.

No. 14—Equipped with 4x3/4 in. medium grit Carborundum grinding wheel and tool rest, 1 in. arbor hole, w't 6 lbs.each \$6.30
ONE IN A CARTON

No. 15—Equipped with 5x1 in. medium grit Carborundum grinding wheel and tool rest, 1 in. arbor hole, w't 7 lbs.each \$7.70
ONE IN A CARTON

No. 16—Equipped with 6x1 in. medium grit Carborundum grinding wheel and tool rest, 1 in. arbor hole, w't 11 lbs.each \$10.50
ONE IN A CARTON

"BEST MAIDE"



This machine is built for hard service; every part of the wheel can be used in grinding. The worm gear is of iron and is cut from the solid blank on special designed machinery.

The swiveling device allows quick and accurate adjustment, horizontal or vertical, and holds the machine rigidly in any position.

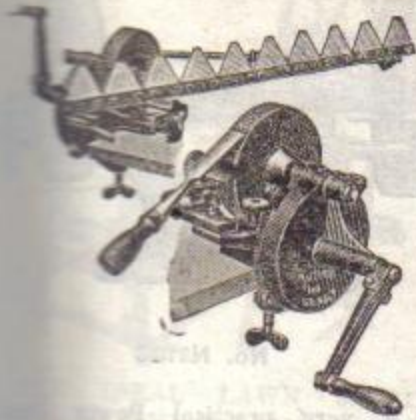
All gears and shafts are of extra large diameter, with great wearing and oil-retaining surfaces. The entire mechanism is inclosed in a dust-proof casing, strictly oil tight, and ball bearings take up all end thrust.

No. N51—"BEST MAIDE," baked japan finish, adjustable body so the wheel can be run either in the vertical or horizontal position, entirely enclosed cut worm gears, ball bearings making it quiet and easy running, fitted with adjustable tool rest. Equipped with a 5x1 1/2 in. Carborundum wheel of medium grit, face with very fine grit so that grinding and finishing can be done with the same wheel, 3/16 in. arbor hole, w't 11 lbs.each \$14.00

No. 510—Extra Wheels, for N51 Best Maide Grinder, w't each 2 lbs. each\$3.50

LOOSE

REYNOC TOOL AND SICKLE GRINDERS



A useful farm grinder for tool and sickle sharpening. Made especially to take care of all general grinding on a farm, such as axes, scythes, chisels, plane bits, sickles, etc. This machine can be quickly attached to a mower wheel or bench and is exceptionally efficient as a general all-around farm grinder.

Mechanical Construction

The Drive Gear is large and accurately machine cut.

The Pinions are cut from solid steel blanks, large in diameter, giving long life and preventing springing.

The One-Piece Case is rigid and contains all of the bearings in the one piece.

The Bearings are extra wide, heavy and chambered for oil; long life and smooth action without vibration are guaranteed.

The Tool Rest may be used either as a tool or hand rest.

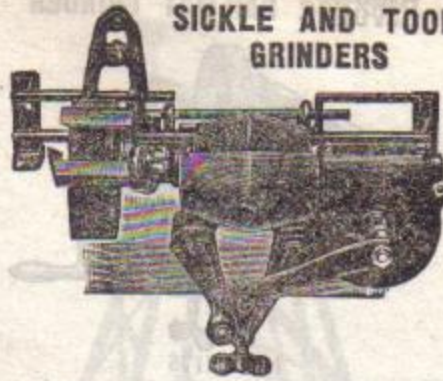
The Sickle Holding Attachment can be used on either side of the wheel and affords the most modern method of sharpening any size or make of sickle. The sharpening is done on the flat side of the wheel. The edge of the wheel is used to sharpen clear down to the bar. Any bevel, long or short, can be given to the sections.

The Clamp is heavy. The supports remain hold the machine to the table one side apart, so that the machine can be clamped rigidly to a mower wheel or bench.

No. N264C—Equipped with 6x1 1/2 in. carborundum sharpening wheel of medium grit to take care of all kinds of general grinding, w't each 18 lbs.each \$12.60

ONE IN A BOX

SICKLE AND TOOL GRINDERS



No. N264C—Best Made, steel worm shaft, cut steel gear, large wearing surfaces, enclosed and dust-proof parts, grinding wheel all one grit, single grit sharpening wheel 4 1/2 x 1 1/2 in., also a beveled sickle sharpening wheel, shipping w't 18 lbs.each \$15.40

ONE IN A BOX

REYNOC HAND TOOL AND SICKLE GRINDER



Simple, very compact, serviceable grinder. No oscillating parts or difficult adjustment. Grinding in full control of the operator, easy to sharpen every section, clamps to mower wheel or bench.

No. N75—Spartan cog gear, 4 1/2 x 1 1/2 in., Carborundum tool grinding wheel and barrel shaped wheel for sickles, wide bearings, high speed, w't 17 lbs.each \$9.45

ONE IN A FIBRE CASE

SICKLE GRINDER



Very similar to the Spartan grinder. No. N182C—Equipped with one barrel-shaped carborundum wheel, compact, efficient, clamps anywhere, shipping w't 22 lbs.each \$8.00

ONE IN A FIBRE CASE

EXTRA WHEELS

No. 1—Carborundum barrel shape, for No. N75 REYNOC sickle and No. N182C Grinders, w't 2 lbs.each \$3.60

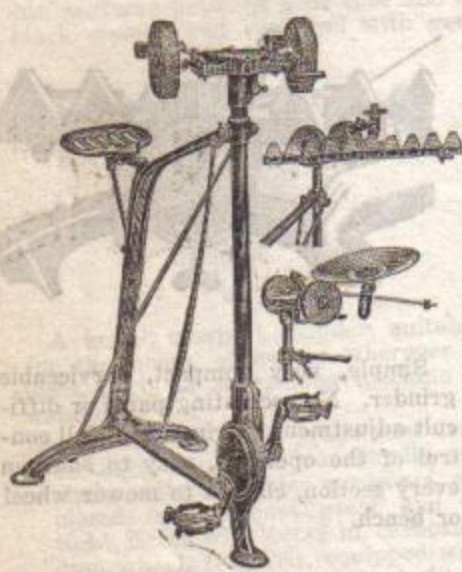
LOOSE

Our reputation founded on over sixty-seven years' business stands back of the **OYE** brand.

All goods branded **OYE** are guaranteed to be of highest quality material and workmanship and free from imperfections.

In selling **OYE** articles there is a profit for you and satisfaction to your customers.

FOOT POWER TOOL GRINDER



HUMMER

No. N271C—An unequalled foot-power grinder, all-metal frame, shaft drive, beveled gears, fully enclosed. The upper transmission is by ball bearings and a machine cut worm gear and shaft, both being extra heavy. The head containing the grinding wheel shaft may be turned to any desirable angle. Two foot-pedals, bicycle type, adjustable metal seat. Regular equipment consists of two work rests, which are adjustable, sickle and disc attachment and two Dimeo-Grit wheels one medium and one coarse, size 6x1 1/4x1. Height of machine over all 42 in., packed for shipment 75 lbs., each\$35.00

ONE IN A CRATE

Sickle and Disc Sharpening Attachment.

Order Separately If Wanted.

Grinding is done on the side face of either of the wheels, rest is adjustable to any angle and can be used on either side, will hold any disc from 14 to 28 in. in diameter, any bevel can be given to the disc and work done automatically or at the will of the operator.

No. N2A—With disc adjustment, w't each 6 lbs. each \$2.70

LOOSE

REYNOC RAILWAY GRINDER



It Runs in Oil.

No. N175

A heavy, powerful machine, made to stand up under great abuse. Equipped with a medium grit Dimeo-Grit stone 7x1 1/4 in., which will sharpen the hardest steel without drawing the temper. A very strongly constructed hand power grinder designed for railroads and other heavy uses.

Description of Attachments

In the tooling attachments of the No. N175 REYNOC Railway Grinder, simplicity, ruggedness and at the same time accuracy, have been the first considerations. The working parts of these attachments are machined and finished in gray enamel with good weather resisting properties.

Aside from the regular tool attachments, consisting of a sliding plane bit and chisel guide, and the twist drill sharpening attachment, we furnish, as special equipment, a flat drill sharpening attachment.

The three attachments are mountable and interchangeable on one tool post furnished with each machine. Mounting and operating is so simple that any workman can use them.

The Sliding Plane Bit and Chisel Guide attachment consists of a plain tool rest and also a clamp suitable for holding firmly any flat tool. The holding device then can be moved backward and forward on the tool post, in a straight line, across face of wheel, producing an accurate bevel.

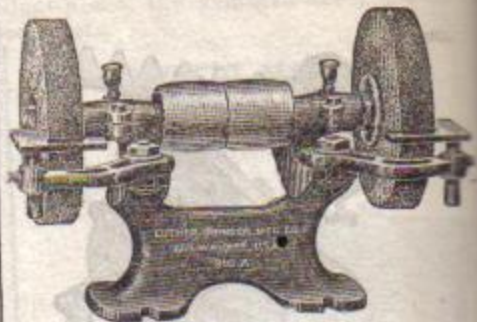
The Twist Drill Sharpening Attachment. Twist drills, ranging in sizes 1/4 to 1 1/4 inches, are merely laid into a "V" way, with the cutting edge lying against a steel lip at the nose of the attachment. The adjustment of the drill in the "V" way is regulated by a screw operated stop, and the advance of the work against the grinding wheel is controlled by sliding the attachment along the tool post. The operation of grinding is merely that of swinging the "V" way about its turning post.

The Flat Drill Sharpening Attachment in its general operation, is the same as that of the twist drill sharpening attachment, excepting that the flat drill is clamped between jaws by a thumb screw. The process of grinding is the same as that of the twist drill sharpening attachment.

No. N175 REYNOC—Railway grinder, w't 39 lbs. each \$21.00

ONE IN A BOX

GRINDERS



No. N310C

A very practical Power Bench Grinder, capable of taking care of all farm grinding and heavy machine work. Power can come from above, below or either side. This grinder is equipped with adjustable tool rests, adjustable bearings, spring oil cups, solid malleable iron frame tight and loose pulleys, one coarse and one medium Dimeo-Grit wheel. Cuts steel about ten times faster than emery, leaving a keen cutting edge without drawing the temper. Fully guaranteed. Wheels 7x1 1/4x1 in.,

Nos.	N309C	N310C
No. of pulleys	1	2
W't each, lbs.	39	42
Each	\$19.90	22.40

ONE IN A BOX

COMBINATION SICKLE AND DISC ATTACHMENT



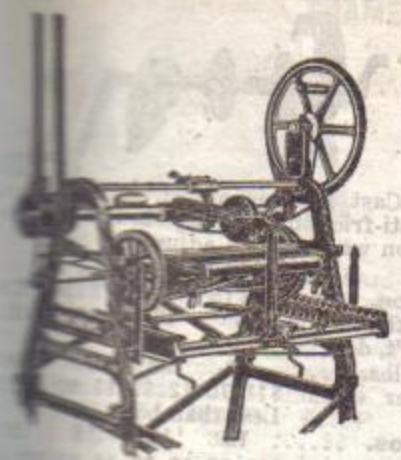
Fits either the Nos. N310C or N309C models.

The disc attachment sharpens each blade separately. Easily adjusted for any size disc. Disc blade will automatically revolve when the handle on the attachment is raised.

No. 925AC—Attachment includes all the equipment for the above work, each\$4.90

LOOSE

LAWN MOWER GRINDERS



THE IDEAL LAWN MOWER GRINDER is the only practical machine on the market for sharpening the blades of lawnmowers. It will pay itself more quickly than any other investment one can make. It means economy of business and increased profits for the repair man. The IDEAL will sharpen all makes of mowers perfectly in from 15 to 20 minutes without removing the wheels or the reel knife. Skates can be ground on the machine by clamping them in the attachment used when sharpening the straight blades of mowers. Traveling grinding wheel 24 in., w't 215 lbs.

- No. W11—For power, with sub-base, each\$150.00
 - No. F11—For hand, with sub-base, each\$160.00
- ONE IN A CRATE



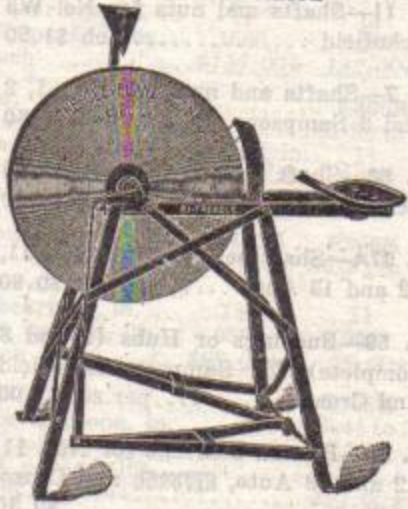
- Schofield's, bolted hardwood frame, malleable iron fixtures, painted, length 42 inches.
- | | | |
|--------------------------|----------------|------------|
| | W3 | W2 |
| Diam. of stone, in. | 18 to 20 | 22 to 24 |
| Width of stone, in. | 1 1/2 to 2 1/2 | 2 to 2 1/2 |
| W't complete, lbs. | 40 to 50 | 70 to 80 |
| Each | \$11.70 | 11.70 |
- SHIPPED KNOCKED DOWN

MOUNTED GRINDSTONES



No. W50 **REWORK**—Heavy Tubular Steel Frame, with seat, water guard and dry cup. Ball Bearing. Painted red. High grade Huron stone. Diam. 19 to 22 in., thickness 1 1/2 to 2 1/2 in. The most rigid grindstone on the market. Can be set up by fastening only one bolt. W't complete 100 lbs., each\$15.80

ONE IN A CRATE



Schofield's, Malleable Iron Fixtures, Wrought Steel Frame and Seat, Double Treadle, Front Shield. Length 30 in., diameter 19 to 22 in., thickness 1 1/2 to 2 1/2 in., w't of stone 50 to 60 lbs., w't complete 100 lbs.

- No. W5**—Plain Bearing, each\$12.80
 - No. W05**—Ball bearing, each\$13.30
- ONE IN A CRATE
- No. W6** **Cruso**—Angle iron frame, ball bearing, painted black, w't of stone about 50 lbs., w't complete about 85 lbs.,each \$11.00
- KNOCKED DOWN AND WIRED TO CRATED STONE

MOUNTED GRINDSTONES



No. W12—Auto, bolted hardwood frame, malleable iron fixtures. Ball bearing. Length 44 in., diam. of stone 22 to 24 in., thickness 2 to 2 1/2 in., w't 70 to 80 lbs. W't complete 115 to 125 lbs.,each \$13.00

SHIPPED KNOCKED DOWN



HERCULES
Designed specially for railroad and New England trade, where a strong heavy article is required.

Frame made of seasoned hardwood, with oil and varnish finish, strongly braced in all directions. Heavy bolts and washers. Furnished with crank, treadle, water trough and clothes protector. Extra heavy patent shaft and turn rollers furnished.

Nos. ...	F201H	F202H	F203H	F204H
Diam. of stone, in.	24	26	26	26
Width of stone, in.	2	3	2 1/2	3
W't complete, lbs.	140	180	178	200
Each	\$8.00*	9.00*	9.50*	10.00*
Nos. ...	F205H	F206H	F207H	
Diam. of stone, in.	28	30	30	
Width of stone, in.	3	2	3	
W't complete, lbs.	225	200	265	
Each	\$11.50*	11.00*	12.00*	
Nos. ...	F208H	F209H	F210H	
Diam. of stone, in.	32	34	34	
Width of stone, in.	2 1/2	2	3	
W't complete, lbs.	275	250	325	
Each	\$12.00*	12.00*	14.00*	

SHIPPED KNOCKED DOWN

Grindstones of larger dimensions than are regularly furnished with the different numbers of Grindstones are ordered, an extra charge will be made.
* Items Marked Thus * Are Shipped from Factory Only.
ROSE TOOLS, INC.

FAMILY GRINDSTONE



REVONOC
Improved ball bearing, fine, especially selected Berea grindstone, turned and rubbed smooth, mounted in extra heavy malleable iron trough on wood base, enameled blue, fitted with

patent hub, steel shaft and steel ball bearings.

Can be shipped knocked down, can be set up or a new stone applied in a few minutes by any one, no cement necessary.

Nos.	R27	R28	R29
Diam. stone, in....	7	8	9
W't doz., lbs.....	102	120	158
Per dozen	\$56.00	58.50	63.50

ONE IN A CARTON

LOOSE GRINDSTONES



Selected Stones.

No. W20—20 to 33 lbs.,	per ton	\$115.00
No. F20—20 to 39 lbs.,	per ton*	\$95.00
No. W40—40 to 100 lbs.,	per ton	\$110.00
No. F40—40 to 200 lbs.,	per ton*	\$90.00
No. F200—200 lbs. and over	per ton*	\$100.00

LOOSE

W't, Lbs.	Diam., In.	Thickness, In.
20	12 to 14	2 to 2½
30	14 to 16	2 to 2½
40	17 to 19	2 to 2½
50	20	2 to 2½
60	22	2 to 2½
70	24	2 to 2½
80	26	2
90	28	2
100	20	2

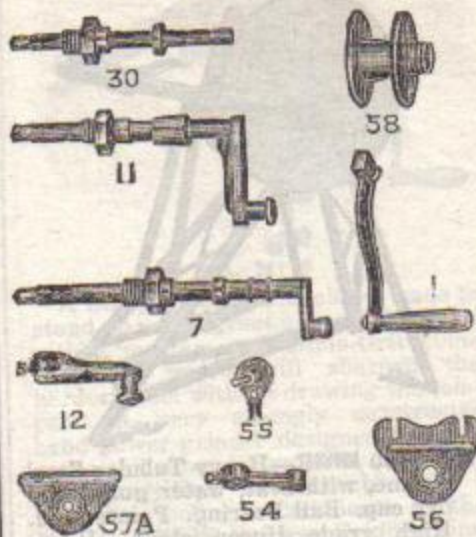
SMALL GRINDSTONES OR LATHE STONES

Thickness 1 in. to 1½ in.

6 in.	per dozen	\$12.10
7 in.	per dozen	12.70
8 in.	per dozen	13.20
9 in.	per dozen	14.30
10 in.	per dozen	15.10
11 in.	per dozen	16.30
12 in.	per dozen	18.20

LOOSE

EXTRA PARTS FOR MOUNTED GRINDSTONES



No. 30—Shafts and nuts for Nos. 11, 12 and 13 Auto, and REVONOC, each\$1.50

No. 11—Shafts and nuts for No. W5 Schofieldeach \$1.50

No. 7—Shafts and nuts for Nos. 1, 2 and 3 Sampsoneach \$1.50

No. 56—Shaft bearings for No. W05 Schofield and REVONOC, per set \$0.50

No. 57A—Shaft bearings for Nos. 11, 12 and 13 Autoper set \$0.50

No. 58—Bushings or Hubs (2 and 3 complete) for Sampson, Schofield and Crusoper set \$1.00

No. 55—Pitman bearings for Nos. 11, 12 and 13 Auto, REVONOC and Cruso, each\$0.30

No. 56A—Round steel balls for Pitman and shaft bearings, per set of nine\$0.50

No. 59—Treadle Rods for REVONOC and Autoeach \$0.25

No. 54—Crank for Nos. 11, 12 and 13 Auto and REVONOCeach \$0.30

No. 12—Crank for Nos. W5 and W05 Schofieldeach \$0.50

No. 1—Hand cranks for Nos. 1, 2 and 3 Sampsoneach \$0.60

LOOSE

GRINDSTONE FIXTURES



Cast iron, japanned, double wheel, anti-friction covered bearings, two iron washers and adjustable nut.

Full half dozen boxes

Nos.	T15	T17	T19	T21
Axle, in.	15	17	19	21
W't, doz., lbs.	60	68	70	80
Per dozen	\$11.70	12.30	13.80	16.50

Less than box

Nos.	15	17	19	21
Per dozen	\$12.30	12.90	14.50	17.40

HALF DOZEN IN A BOX

No. 10—Extra cranks, per dozen\$2.10

No. 117—Extra shafts with nuts, 17 in.per dozen \$6.20

No. 20—Extra nuts for common grindstone shaftsper dozen \$0.80

No. 25—Extra flanges or washers, per dozen\$0.70

LOOSE



Giant, cast iron japanned, extra heavy, 17 in. axle, w't per doz., 102 lbs. Will hang a stone true and fast to its shaft by means of set screws. No blocking, wedging or cementing is necessary.

No. T2—Full half dozen case, per dozen\$22.00

No. 2—Less than half dozen, per dozen\$23.80

HALF DOZEN IN A CASE

BALL BEARING GRINDSTONE FIXTURES



RICHARD'S, ball bearing journals, adjustable on shafts, suitable for stones 2 to 3 in. thick, weighing from 50 to 100 lbs., fitted with ball bearing treadle arm for foot power and hand crank, w't per doz. sets 85 lbs.

No. T100—Full dozen case, per dozen sets\$33.00

No. 100—Less than dozen case, per dozen sets\$36.00

ONE DOZEN IN A CASE

* Items Marked Thus * Are Shipped From Factory Only.

WOOD FRAME



Frames made of seasoned hardwood, braced in every direction, firmly lashed together 12-in. pulley furnished with all sizes of wood power cranks; will substitute required size changing actual difference in price.

No.	F220P	F225P	F230P
Size of stone, in.	24	30	36
Price	\$53.70*	65.30*	77.00*

FARMERS SPECIAL



Frame is oiled and varnished to prevent decay; has hand crank so it may be used in an emergency. Stone shipped k. d.; stone crated. Frame—hardwood frame, steel pulley, hardened steel roller bearings, foot treadle with roller bearings on crank, stone 24 in. diameter, 2 to 3 in. thick, mounted 225 lbs. each \$23.00

EMPIRE



Designed to meet needs of farmers, powered by gasoline engine. Regular pattern of stone, steel shaft, roller bearing. Stone 24 in. in diameter, 2 to 3 in. thick, shipping mounted 225 lbs. each \$40.00

ONE IN A CRATE

POWER GRINDSTONES



Keystone Iron Frame

Trough thick, heavy one-piece casting. Legs securely fastened

with two bolts. Adjustable tool rest, with drip pan. 12-in. pulley furnished with all sizes; required size furnished at actual difference in price.

Nos.	F508K	F506K
Size of stone, in.	50x7 1/2 to 8	50x5 1/2 to 6
Size of shaft at bearings, in.	1 1/2	1 1/2
W't packed, lbs.	1975	1650
Each	\$160.00*	140.00*

No.	F488K
Size of stone, in.	48x7 1/2 to 8
Size of shaft at bearings, in.	1 1/2
W't packed, lbs.	1850
Each	\$150.00*

Nos.	F486K	F485K
Size of stone, in.	48x5 1/2 to 6	48x4 1/2 to 5
Size of shaft at bearings, in.	1 1/2	1 1/2
W't packed, lbs.	1600	1450
Each	\$136.00*	132.00*

No.	F406K
Size of stone, in.	40x5 1/2 to 6
Size of shaft at bearings, in.	1 1/2
W't packed, lbs.	1050
Each	\$102.00*

Nos.	F405K	F366K
Size of stone, in.	40x4 1/2 to 5	36x5 1/2 to 6
Size of Shaft at bearings, in.	1 1/2	1 1/2
W't packed, lbs.	950	950
Each	\$98.00*	98.00*

No.	F365K
Size of stone, in.	36x4 1/2 to 5
Size of shaft at bearings, in.	1 1/2
W't packed, lbs.	875
Each	\$94.00*

Nos.	F364K	F305K
Size of stone, in.	36x4 to 4 1/2	30x4 1/2
Size shaft at brgs., in.	1 1/2	1
W't packed, lbs.	825	500
Each	\$92.00*	78.00*

No.	F304K
mounted 225 lbs.*	each \$36.25
Size of stone, in.	30x4
Size of shaft at bearings, in.	1
W't packed, lbs.	480
Each	\$76.00*

Nos.	F303K	F302K
Size of stone, in.	30x3 1/2	30x3
Size shaft at brgs., in.	1	1
W't packed, lbs.	450	425
Each	\$74.00*	73.00*

ONE IN A CRATE

"LITTLE" GIANT



Frame is cast iron, the trough being cast in one piece, legs securely bolted to frame. An adjustable tool rest with drip pan is furnished. 3/4 in. diam. steel shaft, roller bearing, diam. of stone 24 in., thickness 3 1/2 to 4 in., shipping w't mounted 225 lbs.

No. F400G—With 12 in. pulley for power*each \$45.50

No. F401G—With 12 in. pulley for power and heavy steel treadle and crank*each \$51.00

No. F402G—With heavy steel treadle and crank, no pulley* each \$47.00

"HARVEST KING"



The frame folds, and it is only necessary to attach one end of each of four side braces to set it up. It is constructed of heavy 1 1/2x1 1/2x3/8 in. angle steel, and is handsomely painted green and black. Can be set up in a few minutes without instructions.

Roller bearings made from cold rolled steel shafting, the only cheap power stone with bearings of this type. Frame knocked down; stone crated.

No. W800—Regular, which includes steel frame, stone 24 in. in diam. and 2 in. thick, 12x2 1/2 in. pulley, hand crank and drip cup, w't each 125 lbs.each \$17.80

No. W801—Complete with trough, treadle, pitman and bearing, w't each 149 lbs.each \$21.20

ABOVE, ONE IN A CRATE

REVONOC PAPERS
REVONOC FLINT



Finest pure rope manila paper backing, extra tough and flexible glue, carefully graded abrasive coating, thoroughly seasoned, in sheets 9x11 in.

Nos.	0000	000	00
W't, ream, lbs.	16	17½	19
Per ream	\$7.50	8.00	8.30

Nos.	0	1-2	1
W't, ream, lbs.	22	23	32
Per ream	\$9.00	9.80	11.00

Nos.	1½	2	2½
W't, ream, lbs.	35	41	47
Per ream	\$13.00	15.00	15.00

Nos.	3	3½	4
W't, ream, lbs.	53	60	70
Per ream	\$15.00	15.00	15.00

Assorted Nos. 00 to 3, each ½ ream containing one quire each Nos. 00, 0, ½, 2, 2½, 3 and two quires each Nos. 1 and 1½, w't per ream 33 lbs., per ream \$13.00
We cannot supply assorted sheets to the quire.

HALF REAM IN A BUNDLE

REVONOC GARNET

Nos.	00	0	1-2	1
W't, ream, lbs.	24	32	38	48
Per ream	\$17.60	17.60	20.30	24.00

Nos.	1½	2	2½	3
W't, ream, lbs.	62	73	88	112
Per ream	\$28.00	32.60	36.00	42.00

HALF REAM IN A PACKAGE

REVONOC EMERY

Nos.	00	0	1-2
Grade emery	150	120	90
W't, ream, lbs.	19	24	34
Per ream	\$16.00	16.00	17.30

Nos.	1	1½	2
Grade emery	80	70	60
W't, ream, lbs.	40	44	46
Per ream	\$19.00	21.80	25.20

HALF REAM IN A PACKAGE

MARICOPA FLINT PAPERS



Good fibre paper, selected glue and carefully graded Quartz coating, sheets 8¼x10½ inches.

Nos.	000	00	0
W't, ream, lbs.	15	16	17
Per ream	\$7.00	7.50	8.10

Nos.	1-2	1	1½
W't, ream, lbs.	19	21	27
Per ream	\$8.80	10.00	11.70

Nos.	2	2½	3
W't, ream, lbs.	31	40	44
Per ream	\$13.50	13.50	13.50

Assorted Nos. 00 to 3, each ½ ream containing one quire each Nos. 00, 0, ½, 2, 2½, 3 and two quires each Nos. 1 and 1½, w't per ream 27 lbs., per ream \$11.70

We cannot supply assorted sheets to the quire.

REVONOC EMERY CLOTH

Finest heavy woven twill cloth backing, extra tough and flexible glue, carefully graded pure emery abrasive coating, thoroughly seasoned, in sheets 9x11 inches.

Nos.	00	0	1-2
Grade emery	150	120	90
W't, ream, lbs.	31	34	41
Per ream	\$50.00	50.00	53.00

Nos.	1	1½	2
Grade emery	80	70	60
W't, ream, lbs.	45	49	53
Per ream	\$55.70	58.30	62.00

REVONOC CROCUS CLOTH

Crocus, w't per ream 24 lbs., per ream \$50.00

QUARTER REAM IN A PACKAGE

ALOXITE CLOTH



In Sheets 9x11 Inches, in Reams.

Aloxite is an artificial abrasive, the product of a special bauzite clay, treated in the electric furnace at a temperature of 3000 degrees Fahrenheit; the Aloxite grains are much harder and tougher than emery, and will cut metal quickly and easily, leaving a superior finish.

Aloxite cloth is made with the greatest care, the grains being thoroughly cleaned, graded and coated on the best quality of brown drill by improved process. The glues used are the purest and best quality obtainable, and as a result Aloxite cloth is uniformly coated, durable and flexible.

Nos.	600	60	60½
Grit, Nos.	2-0	0	½
W't, ream, lbs.	32	35	45
Per ream	\$57.00	57.00	59.20

Nos.	61	61½	62
Grit, Nos.	1	1½	2
W't, ream, lbs.	44	49	54
Per ream	\$62.20	65.20	69.20

QUARTER REAM IN A PACKAGE



In Economy Rolls, 50 Ft. Long.

The handiest form for use in shop or garage, prevents waste, and is always ready for use.

1 INCH WIDE

Nos.	6100	610½	611½
Grit, Nos.	00	½	1½
W't per roll, lbs.	1½	2	2½
Per roll	\$4.10	4.20	4.60

1½ INCHES WIDE

Nos.	6150	615½	616½
Grit, Nos.	00	½	1½
W't per roll, lbs.	2½	3	3½
Per roll	\$5.50	5.75	6.40

2 INCHES WIDE

Nos.	6200	620½	621½
Grit, Nos.	00	½	1½
W't per roll, lbs.	3	4	5
Per roll	\$6.80	7.20	8.00

LOOSE

ABRASIVE PAPER AND CLOTH, IN ROLLS
PRICES ON APPLICATION

FIRST QUALITY FLINT PAPER



Narrower than 24 in. size must be ordered in quantities sufficient to use up full rolls of sizes 24 in. or larger. For example: 24 in. is a regular size, but we can furnish 8 in. if three rolls of 8 in. are ordered, which will cut, without waste, from the single 24 in. roll

Per Roll, 50 Yards Long.

Nos.	to F 0	F 1/2	F 1	F 1 1/2	F 2	F 2 1/2	F 3	F 3 1/2	F 4
1 1/2 in.	\$0.59	\$0.62	\$0.65	\$0.68	\$0.71	\$0.74	\$0.77	\$0.80	\$0.83
1 in.	.88	.95	1.05	1.15	1.25	1.35	1.45	1.55	1.65
1 1/2 in.	1.15	1.25	1.40	1.55	1.70	1.85	2.00	2.15	2.30
2 in.	1.45	1.60	1.75	1.95	2.15	2.40	2.65	3.00	3.65
2 1/2 in.	1.75	1.90	2.15	2.35	2.65	2.90	3.25	3.65	4.35
3 in.	2.05	2.25	2.50	2.80	3.10	3.45	3.80	4.35	5.00
3 1/2 in.	2.30	2.55	2.85	3.20	3.55	3.95	4.40	5.00	5.70
4 in.	2.60	2.90	3.20	3.60	4.05	4.50	5.00	5.70	6.45
5 in.	3.20	3.55	3.95	4.45	4.95	5.55	6.15	7.05	8.40
6 in.	3.75	4.20	4.70	5.25	5.90	6.60	7.35	8.40	9.75
7 in.	4.35	4.80	5.40	6.10	6.85	7.65	8.50	9.75	11.10
8 in.	4.90	5.50	6.15	6.90	7.75	8.70	9.65	11.10	12.45
9 in.	5.50	6.10	6.85	7.75	8.70	9.75	10.80	12.45	13.80
10 in.	6.05	6.75	7.60	8.60	9.55	10.75	12.00	13.80	15.15
12 in.	7.20	8.05	9.05	10.25	11.50	12.85	14.35	16.50	19.20
14 in.	8.35	9.35	10.50	11.85	13.35	15.00	16.70	19.20	22.55
15 in.	8.95	10.00	11.25	12.70	14.30	16.05	17.90	20.55	24.60
16 in.	9.50	10.60	11.95	13.50	15.20	17.10	19.05	21.90	26.60
18 in.	10.65	11.90	13.40	15.20	17.10	19.15	21.40	24.60	29.30
20 in.	11.80	13.20	14.90	16.80	18.95	21.25	23.75	27.30	32.50
24 in.	13.00	14.60	16.50	18.70	21.10	23.70	26.50	30.50	35.80
26 in.	15.25	17.10	19.30	21.80	24.60	27.60	30.80	35.45	42.15
30 in.	16.25	18.25	20.60	23.35	26.35	29.65	33.15	38.15	45.75
31 in.	18.15	20.35	22.95	26.00	29.30	32.85	36.70	42.15	50.90
36 in.	19.50	21.90	24.75	28.10	31.70	35.60	39.80	45.75	53.40
40 in.	21.65	24.30	27.50	31.20	35.20	39.55	44.20	50.90	58.40
42 in.	22.75	25.55	28.85	32.70	36.95	41.50	46.40	53.40	61.00
44 in.	25.60	28.75	32.40	36.70	41.45	46.55	52.00	59.80	68.40
48 in.	26.00	29.20	33.00	37.40	42.20	47.40	53.00	61.00	70.00

FIRST QUALITY GARNET PAPER

Narrower than 24 inch sizes must be ordered in quantities sufficient to use up full rolls of sizes 24 inch or larger. For example: 24 in. is a regular size, but we can furnish 8 in. if three rolls of 8 in. are ordered, which will cut, without waste, from the single 24 in. roll.

Nos.	to F 0	F 1/2	F 1	F 1 1/2	F 2	F 2 1/2	F 3	F 3 1/2
1 1/2 in.	\$0.59	\$0.62	\$0.65	\$0.71	\$0.77	\$0.83	\$0.89	\$0.98
1 in.	.88	.95	1.05	1.15	1.25	1.35	1.45	1.65
1 1/2 in.	1.15	1.25	1.40	1.55	1.70	1.85	2.05	2.30
2 in.	1.45	1.60	1.75	1.95	2.15	2.40	2.65	3.00
2 1/2 in.	1.75	1.90	2.15	2.35	2.65	2.90	3.25	3.65
3 in.	2.05	2.25	2.50	2.80	3.10	3.45	3.80	4.35
3 1/2 in.	2.30	2.55	2.85	3.20	3.55	3.95	4.40	5.00
4 in.	2.60	2.90	3.20	3.60	4.05	4.50	5.00	5.70
5 in.	3.20	3.55	3.95	4.45	4.95	5.55	6.15	7.05
6 in.	3.75	4.20	4.70	5.25	5.90	6.60	7.35	8.40
7 in.	4.35	4.80	5.40	6.10	6.85	7.65	8.50	9.75
8 in.	4.90	5.50	6.15	6.90	7.75	8.70	9.65	11.10
9 in.	5.50	6.10	6.85	7.75	8.70	9.75	10.80	12.45
10 in.	6.05	6.75	7.60	8.60	9.55	10.75	12.00	13.80
12 in.	7.20	8.05	9.05	10.25	11.50	12.85	14.35	16.50
14 in.	8.35	9.35	10.50	11.85	13.35	15.00	16.70	19.20
15 in.	8.95	10.00	11.25	12.70	14.30	16.05	17.90	20.55
16 in.	9.50	10.60	11.95	13.50	15.20	17.10	19.05	21.90
18 in.	10.65	11.90	13.40	15.20	17.10	19.15	21.40	24.60
20 in.	11.80	13.20	14.90	16.80	18.95	21.25	23.75	27.30
24 in.	13.00	14.60	16.50	18.70	21.10	23.70	26.50	30.50
26 in.	15.25	17.10	19.30	21.80	24.60	27.60	30.80	35.45
30 in.	16.25	18.25	20.60	23.35	26.35	29.65	33.15	38.15
31 in.	18.15	20.35	22.95	26.00	29.30	32.85	36.70	42.15
36 in.	19.50	21.90	24.75	28.10	31.70	35.60	39.80	45.75
40 in.	21.65	24.30	27.50	31.20	35.20	39.55	44.20	50.90
42 in.	22.75	25.55	28.85	32.70	36.95	41.50	46.40	53.40
44 in.	25.60	28.75	32.40	36.70	41.45	46.55	52.00	59.80
48 in.	26.00	29.20	33.00	37.40	42.20	47.40	53.00	61.00

Width not listed will be charged at the price of the next greater width.

FIRST QUALITY EMERY OR ALUNDUM CLOTH

Narrower than 9 in. sizes must be ordered in quantities sufficient to use up full rolls of sizes 9 in. or larger. For example: 9 in. is a regular size, but we can furnish 3 in. if three rolls of 3 in. are ordered, which will cut, without waste, from the single 9 in. roll.

Per Roll, 50 Yards Long.

Nos.	F 4/0	F 1/2	F 1	F 1 1/2	F 2	F 2 1/2	F 3	F 3 1/2	F 4	F 4 1/2
1 1/2 in.	\$1.20	\$1.25	\$1.30	\$1.35	\$1.45	\$1.50	\$1.55	\$1.65	.....	.....
1 in.	1.55	1.60	1.65	1.75	1.85	1.95	2.05	2.15	.....	.....
1 1/2 in.	1.85	1.90	2.00	2.15	2.25	2.35	2.50	2.65	.....	.....
2 in.	2.50	2.60	2.75	2.90	3.05	3.25	3.45	3.70	.....	.....
2 1/2 in.	3.10	3.25	3.40	3.65	3.85	4.15	4.45	4.75	.....	.....
3 in.	3.75	3.90	4.15	4.40	4.70	5.00	5.40	5.80	.....	.....
3 1/2 in.	4.10	4.30	4.55	4.90	5.10	5.50	6.00	6.50	7.25	8.20
4 in.	4.75	4.95	5.25	5.65	6.00	6.50	7.00	7.60	8.40	9.55
5 in.	5.35	5.65	6.00	6.40	6.80	7.35	7.95	8.60	9.55	10.85
6 in.	6.65	7.00	7.40	7.95	8.45	9.15	9.85	10.70	11.85	13.50
7 in.	7.90	8.30	8.85	9.45	10.10	10.90	11.75	12.75	14.15	16.15
8 in.	9.15	9.65	10.25	11.00	11.70	12.65	13.65	14.85	16.45	18.80
9 in.	10.40	10.90	11.65	12.50	13.35	14.40	15.60	16.90	18.80	21.40
10 in.	11.65	12.25	13.05	14.00	14.95	16.15	17.50	18.95	21.10	24.05
12 in.	12.95	13.60	14.50	15.55	16.60	17.95	19.40	21.05	23.40	26.70
14 in.	15.45	16.20	17.30	18.60	19.85	21.45	23.20	25.20	28.00	32.00
16 in.	18.00	18.90	20.20	21.65	23.10	25.00	27.05	29.35	32.05	37.25
18 in.	19.25	20.30	21.60	23.20	24.75	26.75	28.90	31.40	34.95	39.85
20 in.	20.55	21.60	23.00	24.70	26.40	28.50	30.85	33.50	37.25	42.55
24 in.	23.05	24.25	25.85	27.75	29.65	32.05	34.65	37.60	41.85	47.80
26 in.	25.60	26.90	28.70	30.80	32.90	35.60	38.50	41.80	46.50	53.10
30 in.	30.60	32.20	34.35	36.90	39.40	42.60	46.15	50.05	55.75	63.65
36 in.	32.15	33.85	36.10	38.80	41.50	44.90	48.60	53.80	58.80	67.20

Widths not listed charged at the price of the next greater width.

We can also supply promptly, in rolls, Flint Cloth, Garnet Cloth, or Emery Paper. Write for prices.

TABLE OF WEIGHTS OF FLINT PAPER IN ROLLS

Width, in.	2 1/2	3	4	6	8	9	10	12	15	18	20	24	30	36	40	42	48
1/2 in. wt per roll, lbs. ..	2	3	3	5	7	8	9	11	13	17	18	18	20	30	36	36	54
3/4 in. wt per roll, lbs. ..	2	3	4	6	8	9	10	12	15	18	20	22	35	38	38	64	74
1 in. wt per roll, lbs. ..	2	3	5	7	10	10	12	14	17	20	23	30	38	40	48	74	92
1 1/2 in. wt per roll, lbs. ..	3	4	5	8	10	11	13	16	19	22	26	35	36	45	48	55	92
2 in. wt per roll, lbs. ..	3	5	6	9	12	13	15	18	23	27	30	47	45	54	65	66	110
2 1/2 in. wt per roll, lbs. ..	4	6	7	11	14	16	19	21	29	33	38	55	62	70	79	77	134
3 in. wt per roll, lbs. ..	5	7	8	12	17	18	21	25	31	37	42	65	70	74	87	97	188
4 in. wt per roll, lbs. ..	6	9	10	15	20	23	25	30	37	45	52	78	85	87	100	106	212
5 in. wt per roll, lbs. ..	7	11	12	18	24	27	30	36	45	54	60	85	87	112	125	130	242

Garnet paper weighs considerably more than flint, running from 26 to 120 lbs. on 24 in., as compared with 23 to 78 lbs. on 24 in. Garnet and flint cloth weigh approximately the same as paper. Emery paper and cloth weigh about the same as flint paper and cloth.

Quantities on this page are not carried in stock, and can only be furnished for factory shipment.

NAIL PULLERS



ECLIPSE

Box Joint—Round Rod

The best popular priced puller made. Rammer has octagon head. Prevents rolling. Polished Jaws; round rammer, japanned.

No. 91—Giant pattern, 18 in., w't per doz. 57 lbs.per dozen \$22.00
THREE DOZEN IN A BOX



GIANT

Box Joint with Hand Guard

The box joint keeps the Jaws in perfect allignment. The hand guard prevents pinching the hand. Jaws open by gravity. Polished long and short jaws, octagon rammer, japanned.

Nos.	1 1/2	1
Inches	17	18
W't doz., lbs.	42	60
Per dozen	\$28.50	\$31.50

THREE DOZEN IN A BOX

TACK CLAWS



No. 100 **QVD**—5/16 in., octagon steel shank, rosewood finished handle, nickel plated ferrule, w't per doz., 2 1/2 lbs.per dozen \$4.20
ONE DOZEN IN A BOX



No. 150—Drop forged steel, tempered, polished claw, length 7 in., w't per doz. 2 1/2 lbs.per dozen \$3.20
ONE DOZEN IN A BOX



No. 25—Yankee, steel claw, cast iron head, polished maple handle, w't per doz. 2 1/2 lbs.per dozen \$1.50
ONE DOZEN IN A BOX

BOX CHISELS



High carbon tool steel, satin finish, flat head.
No. 2 **REVERSE**—In. . . 10 12 14
W't per doz., lbs. . . . 7 11 17
Per dozen\$6.00 7.00 7.50
ONE DOZEN IN A BOX

CRATE OPENERS



This is a tool of quality and durability.
No. 3 **QVD**—One piece, 9 in., nickel plated, forged from high grade carbon tool steel, w't per doz. 10 1/2 lbs.per dozen \$19.50
HALF DOZEN IN A BOX



Forged from good material and does the work.
No. 328 **REVERSE**—One piece, 9 in., drop forged steel square head, satin finish, face and claw polished, w't per doz. 11 lbs.per dozen \$15.50
ONE DOZEN IN A BOX

BOX AND WOOD SCRAPERS



No. 60—Triangular, solid steel, wood handle, 2 1/2 in. cutter, length 11 in., w't per doz. 7 1/2 lbs.,
per dozen\$10.50
HALF DOZEN IN A BOX



No. 16 **REVERSE**—Solid steel, hard wood handle, 2 1/2 in. cutter, length 11 1/2 in., w't per doz. 8 lbs.,
per dozen\$13.00
HALF DOZEN IN A BOX



No. 70—Malleable iron, adjustable steel blade, 2 in. cutter, wood handle, length 12 in., w't per doz. 12 lbs.,
per dozen\$18.00
Extra blades, for No. 70,
per dozen\$3.50
HALF DOZEN IN A BOX



No. 280—Double handle, solid steel blade, 4 1/2 in cutter, w't per doz. 9 lbs.per dozen \$13.50
HALF DOZEN IN A BOX

HANDY TOOL BARS



No. 25—Octagon steel, polished point and claw, length 12 in., diam. 3/4 in., w't per doz. 10 lbs.,
per dozen\$4.00
HALF DOZEN IN A BOX

BARREL HEADERS



The screw press has the following: attached to the screw and is taken up with the screw after the barrel is headed.

No. N10—Cruso, with hardwood head, piece 21 in. long, 3 1/2 x 2 in. stock, 1 in. steel screw 8 in. long with malleable fittings; 14 x 1 in. hickory handle; hardwood follower piece 14 in. long by 1 in. thick; steel clamp bars 36 in. long, 1 x 1 in. stock, braced and bolted, height over all closed, 39 in., w't per doz. 172 lbs.,
per dozen\$38.00
LOOSE

BUNG BORERS



Cast steel, tempered, polished blade with round lip bit.

The **QVD** bores a regular tapered round hole, holding its own chips preventing them from entering the cask. It is tempered to cut in a kind of wood and the round lip assures smoothness in boring.

No. 10 **QVD**—Bores from 5 to 1 1/2 in., w't per doz. 18 lbs.,
per dozen\$60

No. 20 **QVD**—Bores from 1 1/2 to 2 in., w't per doz. 20 lbs.,
per dozen\$84

WASH APRONS

Useful for many purposes, while repairing car on the road, cleaning machine, etc. Made of superior quality rubber cloth. Will be found a most useful article by automobilists.



No. 55B—Medium weight, heavily rubber coated, w't each 2 lbs.,
per dozen\$3.00

HALF DOZEN IN A PACKAGE

CARPENTER APRONS



No. 56—Good quality heavy dark duck, neck waist and leg bands, two double stitched nail pockets, one rule pocket, length 34 in., width 28 in., w't per doz. 6 lbs.,
per dozen\$11.20

LOOSE

CARPENTERS' APRONS



Short pattern, good quality heavy duck, web neck and waist bands, two nail pockets and one combination rule and nail pocket, double stitched, well made and finished, 21 in. long, 30 in. wide, w't per doz. 3 1/2 lbs.

Per Dozen.

No. 1 OVB—White duck\$6.50

We can furnish No. 1 aprons stenciled with customer's advertisement. **ONE DOZEN IN A BUNDLE**



No. 9 OVB—7 oz. best quality white duck, heavy neck and waist bands, double stitched, four pockets, reinforced with leather, 21 in. long, 18 1/2 in. wide, w't per doz. 4 lbs.,
per dozen\$8.40
ONE DOZEN IN A BUNDLE

OVB BOX HOOKS



Hexagon tool steel, oil tempered flattened shank, oval natural oiled hardwood handle.

Nos. OVB 8 5
Size, in. 8 x 1/2 10 x 1/2
W't, per doz., lbs. 7 1/2 9
Per dozen\$6.80 8.30
ONE DOZEN IN A BOX



No. 7 OVB—12 x 1/2 in., hexagon oil tempered tool steel, flattened shank, oval natural oiled hardwood handle, w't per doz. 14 lbs.,
per dozen\$9.60
HALF DOZEN IN A BOX

BOX OR HAY HOOKS



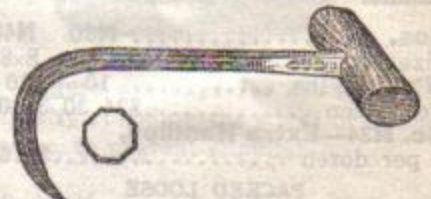
An extra heavy hay hook.
No. 65—All steel, 7 1/2 x 1/16 in., extra cast steel, with large loop for hand, w't per doz. 12 1/2 lbs.,
per dozen\$7.20

OVB HAY OR COTTON HOOKS



No. 6 OVB—6 x 1/2 in., hexagon oil tempered tool steel, flattened shank, natural oval oiled hardwood handle, w't per doz. 6 lbs.,
per dozen\$7.20

No. 64 OVB—6 x 1/2 in., extra oil tempered tool steel, polished shank, natural oiled hardwood oval handle, w't per doz. 6 lbs.,
per dozen\$7.60



No. 62 OVB—7 1/2 x 1/2 in., hexagon oil tempered tool steel, shank, natural oiled hardwood oval handle, w't per doz. 6 lbs.per dozen \$7.00

OVB HAY HOOKS



No. 1 OVB—7 x 1/2 in., hexagon tool steel, flattened polished shank, natural oiled handle, w't per doz. 7 lbs.,
per dozen\$8.00



No. 63 OVB—7 1/2 x 1/2 in., extra tool steel, polished shank, natural oiled handle, w't per dozen 6 1/2 lbs.,
per dozen\$8.00
ALL ABOVE ONE DOZEN IN A BOX

SIDEWALK TAMPERS



Steel plate, malleable riveted socket, 4 foot, squared plain end, wood handle.

Nos.	N4	N5
Size, in.	8x8	10x10
W't each, lbs.	15	18
Per dozen	\$43.20	48.00

No. N45—Extra Handles, per dozen\$5.60

LOOSE



One-piece, reinforced cast plate and socket, 4 foot round slotted end, wood handle.

Nos.	N30	N40
Size, in.	6x6	8x8
W't each, lbs.	10	16
Per dozen	\$24.30	32.00

No. N34—Extra Handles, per dozen\$5.60

PACKED LOOSE

BEADING TOOLS



Polished cold drawn steel, milled true to gauge, length 8 1/2 in., one end concave and the other convex.

Nos.	140	130	120
Size, in.	3	3 1/2	4
W't per doz., lbs.	4 1/2	3	2 1/2
Per dozen	\$9.00	9.00	9.00

HALF DOZEN IN A BOX

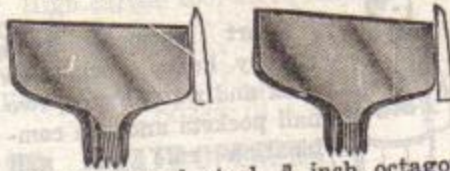
POINTING TOOLS



No. 402—8 in. long, one end round for concave mortar joints, one end square for diamond joints tool steel, polished and tempered, w't per doz. \$9.00

HALF DOZEN IN A BOX

**CONCRETE TOOLS
BRICK CHISELS AND SETS**



Solid forged steel, 3/4 inch octagon shank, polished head and blade, length over all about 7 inches.

No. 75—Chisels, double bevel, 4 in. blade, w't per doz. 13 1/2 lbs., per dozen\$17.00

No. 55—Sets, single bevel, 4 in. blade, w't per doz. 13 1/2 lbs., per dozen\$17.00

REVONOC STAR DRILLS



Made of tough high carbon octagon steel, hand forged, ground to size, tempered in oil and slightly drawn to color, polished wings and head.

Nos.	412	418	512	518
Size, in.	1/2	3/4	5/8	3/4
Length, in.	12	18	12	18
W't, doz., lbs.	2 1/2	3	3 1/2	3 1/2
Per dozen	\$6.30	8.30	6.50	8.60

Nos.	612	618	812	818
Size, in.	3/4	1	1 1/2	1 1/2
Length, in.	12	18	12	18
W't, doz., lbs.	3 1/2	4	5	7 1/2
Per dozen	\$6.70	8.90	8.00	9.80

Nos.	1012	1018	1212	1218
Size, in.	1	1 1/4	1 1/2	1 1/2
Length, in.	12	18	12	18
W't, doz., lbs.	8 1/2	9 1/2	13	13 1/2
Per dozen	\$10.00	13.00	11.60	15.00

Nos.	1412	1418	1612	1618
Size, in.	1 1/4	1 1/2	1 3/4	1 3/4
Length, in.	12	18	12	18
W't, doz., lbs.	19	19 1/2	20	26
Per dozen	\$14.30	18.00	17.30	21.00

TUCK POINTERS



Convex.



Concave.

Forged steel, 4 1/2 inch hardwood polished handle with ferrule, length of pointing surface 5 inches.

Nos.	2	3
Width, in.	3 1/2	4 1/2
W't per doz., lbs.	3 1/2	7
Per dozen	\$14.40	14.40

HALF DOZEN IN A BOX

Nos.	112	113
Width, in.	3 1/2	4 1/2
W't per doz., lbs.	4	7
Per dozen	\$14.40	14.40

HALF DOZEN IN A BOX

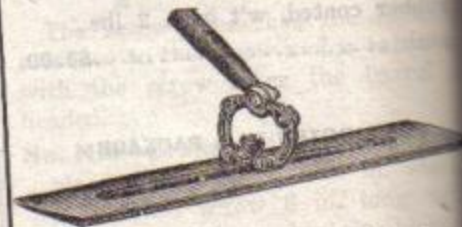
ABRAMS JOINTERS



No. 20—Nickel iron, 10x3 1/4 in., double action, cuts groove 1/2 in. deep by 1/2 in. wide at surface, 6 ft. handle, w't each 6 lbs.each \$10.00

LOOSE

FINISHING TROWELS



No. 1—Silver steel, 24x5 in., double action, 6 ft. handle, w't each 6 lbs.each \$15.00

No. 2—Silver steel, 16x5 in., double action, 6 ft. handle, w't each 6 lbs.each \$12.00

LOOSE

EDGERS



No. 30—Nickel iron 10x3 1/4 in., double action 1/2 in. form face, 1/2 in. radius 6 ft. handle, w't 6 lbs.each \$10.00

LOOSE

HSB & CO.
REV-O-NO

We Stand Behind the Brand

CEMENT AND SIDEWALK TOOLS

Made of Close Grained Cast Iron, Well Polished, with Waxed Maple Handles.

JOINTERS



These jointers are for grooving between the sections of a concrete walk, cutting a groove $\frac{1}{2}$ in. deep, $\frac{3}{4}$ in. wide.

No. 12—Iron, $6 \times 2\frac{1}{2}$ in., both ends curved, w't per doz. $11\frac{1}{2}$ lbs., per dozen\$7.60

SIXTH DOZEN IN A CASE



These jointers are for grooving between the sections of a concrete walk, cutting a groove $\frac{1}{2}$ in. deep, $\frac{3}{4}$ in. wide.

No. 13—Iron, 6×3 in., one end straight, w't per doz. 14 lbs., per dozen\$7.60

SIXTH DOZEN IN A CASE



No. 14—Iron, $8 \times 1\frac{1}{2}$ in., both ends curved, w't per doz. 16 lbs., per dozen\$7.60

SIXTH DOZEN IN A CASE

SIDEWALK GROOVERS



No. 13—Iron, 6×3 in., both ends curved, w't per doz. 15 lbs., per dozen\$7.60

SIXTH DOZEN IN A CASE



Groovers make a cut $\frac{1}{2}$ in. deep and $\frac{3}{4}$ in. wide. Used for drainage grooves or to prevent slipping.

No. 14—Iron, 6×3 in., one end straight, w't per doz. 14 lbs., per dozen\$7.60

SIXTH DOZEN IN A CASE

CURBING EDGERS



For finishing curbs, copings, etc., giving a full rounded edge.

No. 22—Iron, $6\frac{1}{2} \times 3\frac{1}{2}$ in., radius 1 in., depth $1\frac{1}{2}$ in., w't per doz. 22 lbs., per dozen\$16.70

SIXTH DOZEN IN A CASE

SIDEWALK EDGERS



Nos.	01	02
Size, in.	$6 \times 2\frac{1}{2}$	$6 \times 2\frac{1}{2}$
Radius, in.	$\frac{3}{4}$	$\frac{3}{4}$
Depth, in.	$\frac{3}{4}$	$\frac{3}{4}$
W't per doz., lbs.	16	17
Per dozen	\$7.60	8.70

SIXTH DOZEN IN A CASE



Edgers are used for finishing and slightly rounding the edges of cement walks, to prevent slipping.

No. 01N—Iron, $8 \times 1\frac{1}{2}$ in., radius $\frac{3}{4}$ in., depth $\frac{3}{4}$ in., w't per doz. $13\frac{1}{2}$ lbs., per dozen\$8.70

SIXTH DOZEN IN A CASE

SQUARE EDGERS



For finishing steps and all right angled corners.

No. 21—Iron, 6×3 in., radius $\frac{1}{8}$ in., depth 1 in., w't per doz. 17 lbs., per dozen\$12.00

SIXTH DOZEN IN A CASE

BRICK TROWELS



WIDE HEEL, forged from high grade trowel steel, tempered, ground and polished; leather wound handle.

Nos. 3010	3010½
Blade, in. 10	10½
Width at heel, in. 5½	6
W't per doz., lbs. 14½	15
Per dozen	\$30.00 30.00
Nos. 3011	3011½
Blade, in. 11	11½
Width at heel, in. 6	6½
W't per doz., lbs. 15½	16½
Per dozen	\$30.00 30.00

HALF DOZEN IN A BOX

POINTING TROWELS



PHILADELPHIA PATTERN, forged from high grade trowel steel, tempered, ground and polished; leather wound handle.

Nos. 3110	3111
Blade, in. 10	11
Width at heel, in. 5	5½
W't per doz., lbs. 11½	12
Per dozen	\$28.00 28.00
Nos. 3111½	3112
Blade, in. 11½	12
Width at heel, in. 5½	6
Per dozen	\$28.00 28.00

HALF DOZEN IN A BOX



CHICAGO PATTERN forged from high grade trowel steel, tempered, ground and polished; leather wound handle.

Nos. 3210	3210½
Blade, in. 10	10½
Width at heel, in. 6	6½
W't per doz., lbs. 14	14½
Per dozen	\$30.00 30.00
Nos. 3211	3211½
Blade, in. 11	11½
Width at heel, in. 6½	6½
W't per doz., lbs. 15	15½
Per dozen	\$30.00 30.00

HALF DOZEN IN A BOX

BRICK TROWELS



PHILADELPHIA PATTERN, forged from high grade steel, tempered, ground and polished; hardwood handle.

Nos. 2910	2910½
Blade, in. 10	10½
Width at heel, in. 5	5½
W't per doz., lbs. 11½	12
Per dozen	\$24.00 24.00
Nos. 2911	2911½
Blade, in. 11	11½
Width at heel, in. 5½	5½
W't per doz., lbs. 12½	13
Per dozen	\$24.00 24.00

HALF DOZEN IN A BOX



ROSE'S Philadelphia pattern, cast steel blade, solid shank, steel ferrule, maple handle.

Nos. 3410	3410½	3411
Blade, in. 10	10½	11
Width at heel, in. 4½	5½	5½
W't, doz., lbs. 12	13	13½
Per dozen	\$33.00 34.00	35.00
Nos. 3411½	3412	3413
Blade, in. 11½	12	13
Width at heel, in. 5½	5½	6
W't, doz., lbs. 14	15	16½
Per dozen	\$36.00 37.00	39.00

HALF DOZEN IN A BOX

Rose's wide heel pattern, cast steel blade, solid shank, steel ferrule, maple handle.

Nos. 3510½	3511	3511½
Blade, in. 10½	11	11½
Width at heel, in. 6	6½	6½
W't, doz., lbs. 13½	14	15
Per dozen	\$35.20 36.20	37.20

HALF DOZEN IN A BOX



No. 3610—Farmers,' 10 in. width at heel 4½ in. polished cast steel blade, riveted shank, beech-wood handle, w't per doz. 8 lbs. per dozen \$8.30

ONE DOZEN IN A BOX



DISSTON'S cast steel polished blade, steel ferrule, gum-wood handle.

Nos. 5010	5011
Blade, in. 10	11
Width at heel, in. 4½	4½
W't per doz., lbs. 11	12
Per dozen	\$27.40 30.20
Nos. 5011½	5012
Blade, in. 11½	12
Width at heel, in. 5	5
W't per doz., lbs. 12½	13½
Per dozen	\$31.00 32.00

HALF DOZEN IN A BOX

BRICK TROWELS



CRUSO, Philadelphia pattern, forged from special steel, tempered, ground and polished; hard wood handle.

Nos. 379	3710	3711
Blade, in. 9	10	11
Width at heel, in. 4½	4½	5
W't per doz., lbs. 8	10	10½
Per dozen	\$16.00 16.00	16.00
Nos. 3711½	3712	
Blade, in. 11½	12	
Width at heel, in. 5½	5½	
W't per doz., lbs. 11½	12	
Per dozen	\$16.00 16.00	

HALF DOZEN IN A BOX



MARSHALLTOWN EXTRA WIDE HEEL; forged from highest grade trowel steel, carefully tempered, tapered ground and full polished; handle smithed; leather wound handle, polished ferrule.

Nos. 1710	1710½	1711	1711½
Length, in. 10	10½	11	11½
Width, in. 6	6½	6½	6½
W't doz., lbs. 14	14½	15	15½
Per dozen	\$32.00 32.00	32.00 32.00	

HALF DOZEN IN A BOX

POINTING TROWELS



Forged from high grade steel, tempered, ground and polished; hard wood handle.

Nos. 424½	425	425½	426
Blade, in. 4½	5	5½	6
Width at heel, in. 2½	2½	2½	2½
W't per doz., lbs. 2½	2½	3½	3½
Per dozen	\$10.00 10.00	10.00 10.00	



CRUSO, cast steel, polished, steel ferrule, beech handle.

Nos. 434	434½	435	435½
Blade, in. 4	4½	5	5
Width heel, in. 2½	2½	2½	2½
W't doz., lbs. 2½	2½	3½	3½
Per dozen	\$8.00 8.00	8.00 8.00	

HALF DOZEN IN A BOX

Forged from special steel, tempered and polished, hardwood handle.

No. 215½—Blade 5½ in., width at heel 2½ in., w't per doz. 3½ lbs. per dozen

ONE DOZEN IN A BOX

PLASTERING TROWLES



MARSHALLTOWN PATTERN, full polished crucible spring steel blade, carefully ground and tempered, straight edges; long full polished mounting, mahogany finished handle.

No.	1211	1211½	1212
Sizes, in.	4½x11	4½x11½	4½x12
No. of rivets	10	10	10
W't per doz., lbs.	12½	13	14½
Per dozen	\$42.00	42.00	42.00

CRUSO

No.	12511½	12512
Sizes, in.	5x11½	5x12
No. of rivets	10	10
W't per doz., lbs.	14½	15
Per dozen	\$42.00	42.00

CRUSO

No.	12514	12616
Sizes, in.	5x14	6x16
No. of rivets	12	14
W't per doz., lbs.	14½	15
Per dozen	\$42.00	42.00

ALL ABOVE QUARTER DOZEN; BALANCE, THIRD DOZEN IN A BOX



CINCINNATI PATTERN, full polished blade and mounting, stained handle, five rivets.

No.	1510½	1511
Sizes, in.	10½x4½	11x4½
No. of rivets	5	5
W't per doz., lbs.	13	13
Per dozen	\$28.50	28.50

CRUSO

No.	1511½	1512
Sizes, in.	11½x4½	12x4½
No. of rivets	5	5
W't per doz., lbs.	13½	14½
Per dozen	\$28.50	28.50

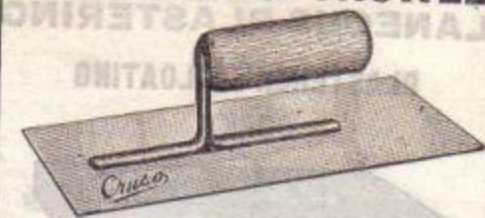
THIRD DOZEN IN A BOX



CINCINNATI PATTERN, polished blade and mounting, plain handle; five rivets.

No.	2810	2811	2811½	2812
Sizes, in.	10½x4½	11x4½	11½x4½	12x4½
No. of rivets	5	5	5	5
W't per doz., lbs.	13	13	13½	14½
Per dozen	\$24.80	24.80	24.80	24.80

HALF DOZEN IN A BOX



CRUSO, polished blade and mounting, plain handle; four rivets.

No.	1910	1911	1911½	1912
Inches	10x4½	11x4½	11½x4½	12x4½
W't doz., lbs.	11	12	13	14
Per dozen	\$16.50	16.50	16.50	16.50

HALF DOZEN IN A BOX



MARSHALLTOWN finishing, finest crucible spring steel blades carefully tempered, ground and full polished, light stiff mountings, full polished and fastened with ten steel rivets; smooth turned natural finish handles.

No.	4011½	4011	4011½
Sizes, in.	4½x11½	4½x11	4½x11½
W't, doz., lbs.	13	13½	14
Per dozen	\$45.00	45.00	45.00

No.	4012	4511½	4512
Sizes, in.	4½x12	5x11½	5x12
W't, doz., lbs.	14½	14½	15
Per dozen	\$45.00	45.00	45.00



MARSHALLTOWN Browning, finest crucible spring steel blades, carefully tempered, ground and full polished; extra long mountings full polished and fastened with twelve steel rivets; smooth turned natural finish handles.

No.	5011	5011½	5012
Sizes, in.	4½x11	4½x11½	4½x12
W't, doz., lbs.	14	14½	14½
Per dozen	\$45.00	45.00	45.00

No.	5511½	5512
Sizes, in.	5x11½	5x12
W't per doz., lbs.	15	15½
Per dozen	\$45.00	45.00

THIRD DOZEN IN A BOX



No. 1610—Farmers, 10x4½ in., polished steel blade, three rivets in shank, w't per doz. 10 lbs., Per dozen \$5.50

ALL ABOVE HALF DOZEN IN A BOX



DISSTON'S "Sure Grip", cast steel polished blade, high mounted, drive shank, basswood handle, rubber grip.

No.	310½	311	311½	312
Inches	10½x4½	11x4½	11½x4½	12x5
W't doz., lbs.	14	14½	15½	16½
Per dozen	\$33.40	35.40	36.90	38.40

HALF DOZEN IN A BOX



DISSTON'S, extra cast steel, polished blade, improved screw shank, with shoulder, bass wood handle.

No.	110	111
Inches	10x4½	11x4½
W't per doz., lbs.	12	12½
Per dozen	\$34.90	36.90

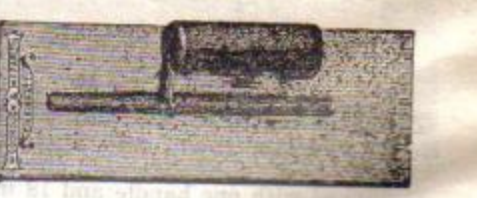
No.	111½	112
Inches	11½x4½	12x5
W't per doz., lbs.	14½	15
Per dozen	\$38.05	39.90

HALF DOZEN IN A BOX



DISSTON'S, extra cast steel blade, drive shank.

No.	210	211	211½	212
Inches	10x4½	11x4½	11½x4½	12x5
W't doz., lbs.	11½	12	13	14
Per dozen	\$28.60	30.60	32.10	33.00



WOODROUGH & McPARLIN'S Cincinnati, cast steel, polished, high mounted, drive shank, poplar handle.

No.	1810½	1811
Inches	10½x4½	11x4½
W't per doz., lbs.	12½	13
Per dozen	\$30.40	32.40

No.	1811½	1812
Inches	11½x4½	12x5
W't per doz., lbs.	13½	14
Per dozen	\$33.90	35.40

HALF DOZEN IN A BOX

MISCELLANEOUS PLASTERING TOOLS

PLASTERER'S HAWKS

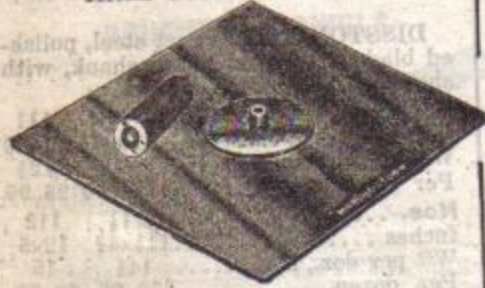


Wood.

Made of one piece clear seasoned redwood, fitted with dovetailed cross brace to prevent warping; brass flange fastened under cross brace and tapped for handle which is detachable.

No. 11—Marshalltown, 13½x13½ in., w't per doz. 25 lbs., per dozen\$21.00

THIRD DOZEN IN A BOX



Marshalltown Aluminum.

Made from hard rolled aluminum, 12 gauge with smooth straight edges; aluminum flange with brass nut tapped for handle which is detachable.

Equipped with rubber cushions the purpose of this is to protect the operator from callouses.

Nos.	21	22	23
Sizes in.	13x13	13½x13½	14x14
W't, doz., lbs.	20	22	24
Per dozen	\$52.80	54.40	56.00

QUARTER DOZEN IN A BOX

DARBIES



No 2—Marshalltown, size 3½x44in., made from 8 gauge aluminum; equipped with one handle and 18 in. rib, w't per doz. 30 lbs., per dozen\$57.60

HALF DOZEN IN A CASE



No. 4—Size 3½x44 in., made from clear aluminum, equipped with one handle and 18 in. rib, w't per doz. 13 lbs., per dozen\$12.00

HALF DOZEN IN A CASE

PLASTERER'S FLOATING CORKS



Made from one thickness of cork, carefully smoothed on both sides.

Nos.	5	6
Size, in.	12x5x1½	12x6x1½
W't per doz., lbs.	6	7
Per dozen	\$15.00	16.00

LOOSE



No. 7—Size 5x12 in., made from one thickness of cork, carefully smoothed and cemented on wood block with handle, w't per doz. 18 lbs., per dozen\$19.60

ONE IN A BOX, ONE DOZEN IN A CASE

IMITATION TILE AND BRICK MARKERS



The groove on this marker is gauged to the proper depth, cuts both ways so as to cut into corners.

No. 1—Spring steel, polished; hardwood handle per dozen \$8.30

¼ LB. A DOZEN

HALF DOZEN IN A BOX

CORNER TROWELS



ONE

No. 70—6 in., made of special steel, full polished; 88 degree angle with sharp corner; bronzed mountings and cherry finished handle, w't per doz. 10½ lbs.. per dozen \$16.50

HALF DOZEN IN A BOX

TOOL BAGS



For masons or plasterers, steel frame, with lock and key, leather handles, billets and buckle pieces riveted to frame, large inside pocket.

24 oz. duck sewed on lock stitch machine.

Nos.	1918	1920
Inches	18	20
W't per doz., lbs.	31	36
Per dozen	\$76.80	80.00

ONE DOZEN IN A PACKAGE

Nos.	1922	1924
Inches	22	24
W't per doz., lbs.	42	44
Per dozen	\$83.30	88.80

ONE DOZEN IN A PACKAGE

Leather bottom, with leather extending 3 in. up the sides.

Nos.	2316	2320
Inches	16	20
W't per doz., lbs.	33	42
Per dozen	\$110.40	134.40

ONE DOZEN IN A PACKAGE