

# SECTION 4

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**SHAPLEIGH'S**  
ESTABLISHED 1843  
ST. LOUIS, U.S.A.  
TRADE MARK REG. U.S. PAT. OFF.

# TOOL DIVISION

SECTION 4—MECHANICS TOOLS

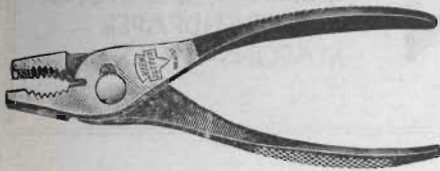
INDEX TO SECTION 4

PLIERS, NIPPERS  
WRENCHES, CLAMPS  
VISES, FORGES, ANVILS  
SOLDERING COPPERS  
WELDING EQUIPMENT

TAPS, DIES, ETC.  
BORING TOOLS  
GRINDERS, OIL STONES  
FILES, SANDPAPER  
MASONS TOOLS

**HEAVY SLIP JOINT COMBINATION**

KEEN  KUTTER



Drop forged alloy steel, oil tempered. Pipe pattern jaws with milled teeth. Slip joint feature permits quick change for large and small work. Polished head, blue finished handles, with knurled grips.

Each	Lgth., ins.	box, lbs.	Wt. lbs.	Each
F7184GK (K51)	X1D53★	6	1/2	\$2.30
F7185GK (K51)	X1D90★	8	3/4	2.85
F7186GK (K51)	X2D30	10	1 1/4	3.45

One in box.

**Thin Angle Nose Gripping**

A super powerful gripping plier wrench with teeth set as in a Stillson wrench. Will not slip.

Drop forged from alloy steel. Heat treated. Jaws open up to 3/4 inch. Polished head. Knurled handles.

KEEN  KUTTER



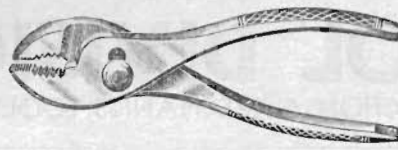
Length 7 inches

Each	Each
F7178GK (K23/7)	X1D84★..... \$2.75

One in box. Wt. box 1/2 lb.

**PLIERS COMBINATION**

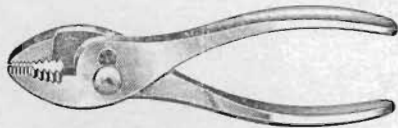
SHAPLEIGH'S



Hardened forged steel. Polished nickel plated finish.

Each	Lgth. ins.	No. in ctn.	Wt. lbs.	Each
F3349G (E1)	D6C6★	6	4	\$0.99
F3350G (E2)	D9C0★	8	4	1.35

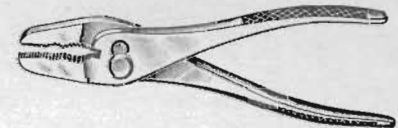
SHAPLEIGH'S



Hardened forged steel, cadmium finish.

Each	Lgth. ins.	No. in ctn.	Wt. lbs.	Each
F3360G (E18)	D5C3★	6	6	\$0.79
F3359G (E17)	D7C0★	8	6	1.05

SHAPLEIGH'S



Thin Nose

Hardened forged steel, polished nickel plated finish. Length 6 1/2 inches.

Each	Each
F3352G (E4)	D6C7★..... \$0.99

Twelve in ctn. Wt. ctn. 6 lbs.

SHAPLEIGH'S



Bent Thin Nose

Hardened forged steel, polished nickel plated finish. Length 6 1/2 inches.

Each	Each
F3353G (E5)	D8C3★..... \$1.25

Two in ctn. Wt. ctn. 5 lbs.

STAR ★ DENOTES BEST SELLER

**CHROME PLATED SLIP JOINT PLIERS**

Special analysis alloy steel. Designed to give maximum strength and shaped for their particular job. Knurled handles for a good firm grip. Short teeth are deeply milled and oil tempered for long wear. Hardened steel bolt. Chrome plated with full high lustre finish.

KEEN  KUTTER



Combination—With Wire Cutter

Each	Lgth. ins.	Wt. Ea., ozs.	▲Each	
F7196GK (K160)	D9C3★	6	8	\$1.39
F7198GK (K180)	X1D23★	8	10	1.85
F7206GK (K1100)	X1D77	10	16	2.65

One in box



Straight Thin Nose with Wire Cutter

Each	Lgth. ins.	Wt. Ea., ozs.	▲Each	
F7195GK (K150)	X1D03★	5	4	\$1.55
F7194GK (K106)	X1D06	6	6	1.59

One in box



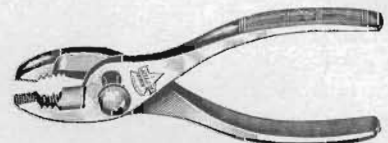
Thin Bent Nose with Wire Cutter

Thirty degree offset nose. Especially valuable for use around the home.

Length 7 inches

Each	▲Each
F7197GK (K165)	X1D33★..... \$1.99

One in box. Wt. box 7 ozs.



Combination Side Cutting

Electrically hardened cutting edge makes cutting of nails and wire easy.

Length 6 inches

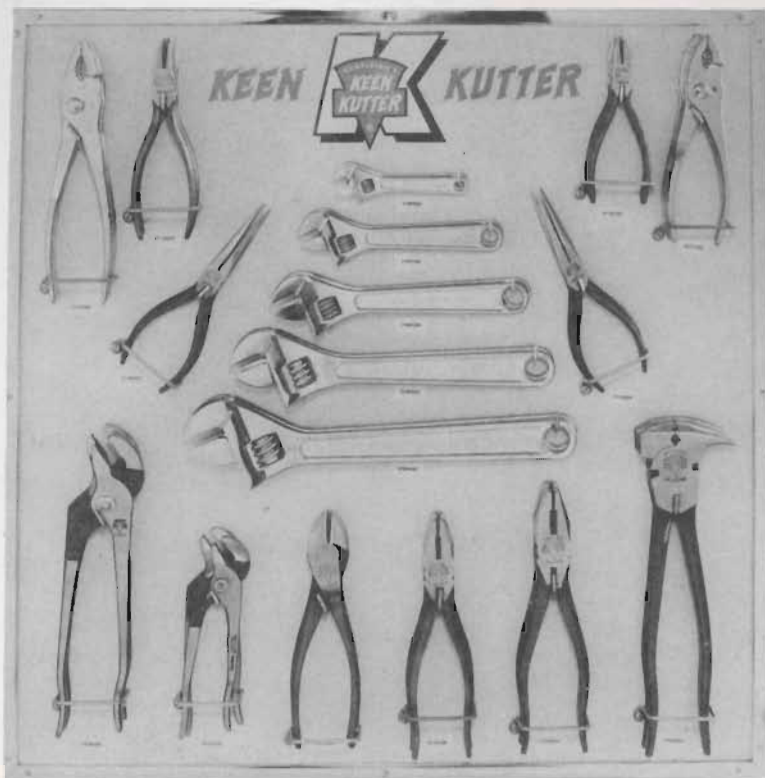
Each	▲Each
F7204GK (K360)	X1D50★..... \$2.25

One in box. Wt. box 8 ozs.

# Shapleigh's Stocking Display

S 9-25-57

4-2-AA



## FEATURES

- An assortment of selective Keen Kutter pliers and wrenches that are most popular in the field.
- A display unit of superior construction made of top grade fir plywood painted yellow with chrome stripping. Size 24" x 24".
- A sturdy wire easel which permits it to stand on your counter, in your window, or may be displayed on a wall.

*Here is a well designed modern display to increase your sales and your profits on Pliers and Adjustable Wrenches*

## HOLDS TWO EACH:

TOOL NOS.		Retail Price Each
F7171GK	6" Combination Slip-Joint Pliers . . .	\$ .80
F7172GK	8" Combination Slip-Joint Pliers . . .	1.20
F7183GK	7" High Leverage Diagonal Pliers . . .	3.20
F7181GK	5" Diagonal Pliers . . . . .	2.90
F7182GK	6" Diagonal Pliers . . . . .	3.30
F7191GK	7" Electrician's Standard Side Cutting Pliers . . . . .	3.45
F7192GK	8" Electrician's Standard Side Cutting Pliers . . . . .	3.80
F7209GK	10" Fence Pliers . . . . .	3.10

TOOL NOS.		Retail Price Each
F7145GK	6½" Utility Rib-Joint Pliers . . . . .	\$2.20
F7187GK	10" Utility Rib-Joint Pliers . . . . .	3.00
F7189GK	6" Long Chain Nose Side Cutting Pliers . . . . .	3.25
F7188GK	6" Long Chain Nose Pliers . . . . .	2.55
F7890GK	4" Adjustable Wrenches . . . . .	2.40
F7891GK	6" Adjustable Wrenches . . . . .	2.40
F7892GK	8" Adjustable Wrenches . . . . .	2.75
F7893GK	10" Adjustable Wrenches . . . . .	3.55
F7894GK	12" Adjustable Wrenches . . . . .	5.20

Order As FX-KK17GK

Dealer Cost — X65D40

Total Retail Value \$98.10



Packed 1 Display with Tools Per Carton, Wt. Ctn. 26 Lbs.

*"The Recollection of QUALITY Remains Long After the PRICE is Forgotten"*

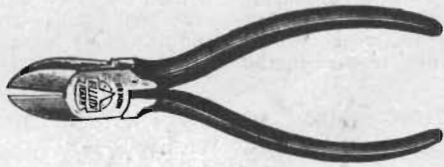
**PLIERS**

KEEN  KUTTER

**Diagonal Cutting**

Properly designed for all-around cutting.

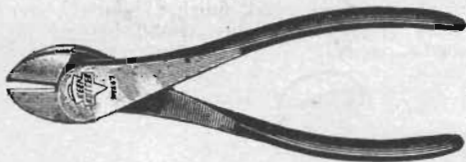
Drop forged steel, finely tempered. Hand-honed cutting edges. Polished head, blue finish handles, with scored grips.



Each	Lgth., ins.	Box, lbs.	Wt.	Each
F7181GK (K45/5) X2D03★	5	¼		\$3.05
F7182GK (K45/6) X2D33★	6	½		3.50

One in box

KEEN  KUTTER



**Giant Diagonal Cutting**

Very high leverage for easy cutting. Full fashioned handles.

Drop forged alloy steel, oil tempered. Fine cutting edges. Polished head, blue finish handles, with scored grips.

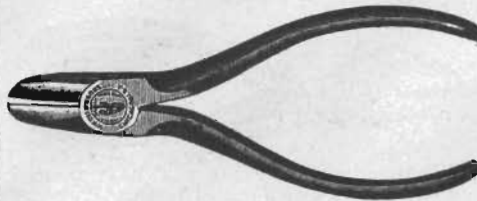
**Length 7 inches**

Each		Each
F7183GK (K47/7) X2D27★	.....	\$3.40

One in box. Wt. box ¾ lb.

**PLIERS**

KLEIN



**Oblique Cutting**

For close cutting in confined places. Cuts through silk insulation. Also used by shoemen for cutting out shoe buttons, nails, etc. For electricians, telephone men and switchboard builders. Cuts close, the narrow head permitting its use in confined places. Perfectly fitting knives meeting at all points. Blued finish handles. Polished head and jaws. Oil tempered and honed raised cutting edges. Encased lap joint. Reinforced with two heavy side plates.

**Regular Pattern—Length 6 Inches**

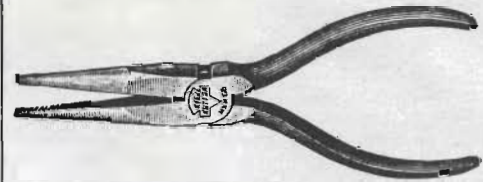
Each		▲Each
F7118G (202/6) X2D33	.....	\$3.50

One in box. Wt. box, ½ lb.

**PLIERS**

**ROUND NOSE**

KEEN  KUTTER



**Long Chain Needle Nose**

Has spring-tempered needle nose. Finely balanced for delicate work. No cutter.

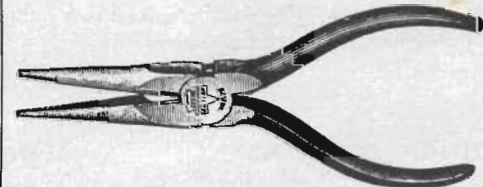
Drop forged alloy steel, properly tempered. Face of jaws scored. Polished head, blue finish handles, with knurled grips.

**Length 6 inches**

Each		Each
F7188GK (K66/6) X1D80★	.....	\$2.70

One in box. Wt. box ¼ lb.

KEEN  KUTTER



**Long Chain Nose—Side Cutting**

Drop forged alloy steel, properly tempered. Face of jaws scored. Polished head, blue finish handles, with knurled grips.

**Length 6 inches**

Each		Each
F7189GK (K76/6) X2D30★	.....	\$3.45

One in box. Wt. box ¾ lb.

**CHAMPION DE ARMENT**



**Long Nose With Side Cutter**

**Channel Lock**

Polished steel finish. Knurled grips. Length 6 inches. Point ½ in. round.

Each		▲Each
F7124G (326) X2D26	.....	\$3.40

Six in ctn. Wt. ctn. 2 lbs.

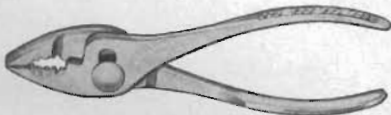
**COMBINATION  
CEE TEE CO**



Forged from special analysis steel, carefully machined, hardened and oil tempered. Sharp milled teeth. Nuts and bolts turned from solid bar of steel and case hardened. Lustrous bright plated finish.

Each	No. Lgth., in. ins.	Wt. Box lbs.	▲ Each
F7173G (H25B) D5C3★	5 12	2½	\$0.80
F7174G (H26B) D5C3★	6 12	6	.80
F7175G (H28) D8C0	8 1	¾	1.20
F7176G (H210) X1D13	10 1	1	1.70

**SLIP JOINT  
KEEN KUTTER**



Carefully heat-treated steel pipe pattern jaws with milled teeth. Wire cutter. Special lock nut. Knurled handles. Nickel plated finish.

Each	Lgth. in.	Wt. Ctn. lbs.	Each
F7171GK (K7-6) D5C7	6	5	\$0.85
Twelve in ctn.			
F7172GK (K7-8) D8C3	8	3	1.25
Six in ctn.			

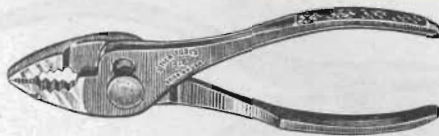
**UTICA**



High quality steel, carefully heat treated. Pipe pattern jaws with milled teeth. Wire cutter. Special lock nut. Nickel plated finish. Length 6 inches.

Each	▲ Each
F7141G (5/6) D4C3★	\$0.65
Loose. Wt. each 2 ozs.	

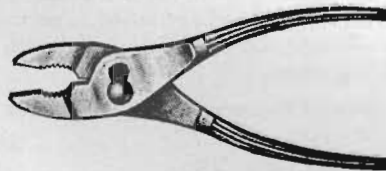
**PLIERS  
SLIP JOINT**



High quality steel, carefully heat treated. Pipe pattern jaws with milled teeth. Wire cutter. Special lock nut. Knurled handles. Nickel plated finish. Length 6 inches.

Each	▲ Each
F7103G (7/6) D5C4★	\$0.81
Twelve in ctn. Wt. ctn. 4 lbs.	

**SLIP JOINT—THIN NOSE**



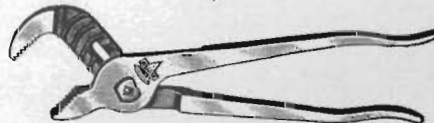
High quality steel, carefully heat treated for strength and lasting service. With wire cutter and sharp gripping teeth. Bright nickel plated finish.

Length 6½ inches.

Each	Each
F7212G (P16½) D2C3★	\$0.35
Twelve in box. Wt. box 4 lbs.	

**UTILITY COMBINATION PLIERS**

KEEN KUTTER



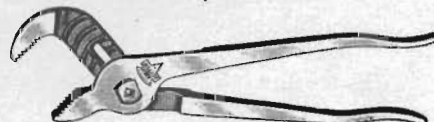
Drop forged alloy steel with full forged ribs for added strength. Milled teeth. Gun metal finish with polished head and side.

Capacity Opening Approximately 1 inch

Each	Each
F7145GK (K507/6½) X1D57	\$2.35
One in box. Wt. box 6 ozs.	

**COMBINATION PUMP PLIERS  
AND WRENCH**

KEEN KUTTER

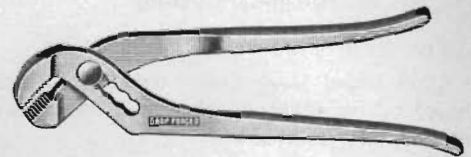


Drop forged alloy steel with full forged ribs for added strength where needed. Milled teeth. Gun metal finish with polished head and sides.

Capacity ⅜ to 1⅜ inches. Length 9½ inches.

Each	Each
F7187GK (K57) X2D10★	\$3.15
One in box. Wt. box 1 lb.	

**COMBINATION PUMP PLIERS  
AND WRENCH**



Thin jaws will reach hard-to-get-at water pump and other nuts on cars and trucks. Drop forged steel, cadmium finish. Plain handles. Milled teeth. Length 9¼ inches.

Each	Each
F7144G (9100) D8C5	\$1.25
One in box. Wt. box ½ lb.	

**CHANNELLOCK  
Self-Gripping**

A new revolutionary powerful gripping Channellock design. The tongue and groove Channellock joint provides a vise-like grip entirely independent of the gripping power of the user's hand.

Highest grade alloy steel, properly heat treated. Polished steel finish. Handles have knurled grips. Thoroughly tested beyond intended capacity.



General Utility

Will hold work of any shape with a positive pipe wrench grip. Will exceed a pipe wrench in usefulness. Streamlined and light in weight.

Four adjustments. Length 9½ inches. Capacity ⅜ to 1⅜ inches.

Each	▲ Each
F7128G (410) X2D26	\$3.40
Six in ctn. Wt. ctn. 6 lbs.	



Pump

The wide range of adjustments makes this plier adaptable to a multitude of uses.

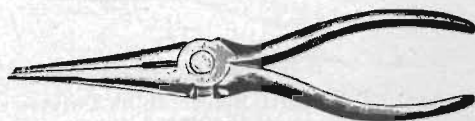
Channellock adjustment eliminates wear on the joint bolt.

Five adjustments. Length 9½ inches. Capacity ⅜ to 1⅜ inches.

Each	▲ Each
F7133G (420) X2D15★	\$5.20
Six in box. Wt. box 4¾ lbs.	

**PLIERS  
ROUND NOSE**

**KLEIN**



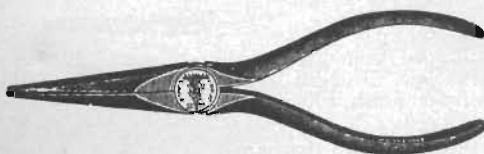
**Long Nose, Side Cutting**

Blued finish handles. Polished head and jaws. Forged from special grade tool steel. Ground and tempered. Raised cutting edge. Scored jaws. Point  $\frac{3}{16}$  inch round.

Each	Lgth., ins.	Wt. box, lb.	Each
<b>F7120G (203) X2D40★</b>	6	$\frac{3}{8}$	\$3.60
<b>F7119G (203) X2D60</b>	7	$\frac{1}{2}$	3.90

One in box

**KLEIN**



**Long, Needle Nose. Without Wire Cutters**

Polished head and jaws. Blued finish handles. Highest grade tool steel. Tempered and hardened so that jaws will not spring when pressure is applied. Long reach which permits getting into difficult places. Adapted for stripping the ends of insulated wire. A very popular pattern for electricians and general mechanics.

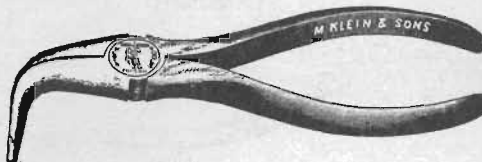
Length 6 inches. Point  $\frac{1}{16}$  inch round.

Each	Each
<b>F7125G (303) X2D07★</b>	\$3.10

One in box. Wt. box  $\frac{3}{8}$  lb.

**PLIERS  
ROUND NOSE**

**KLEIN**



**Milliners' or Radio**

**Long Curved Nose. Without Wire Cutters**

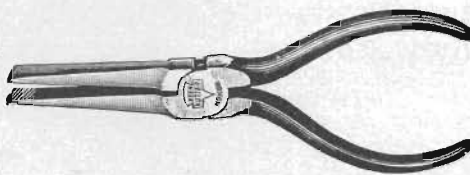
Blued finish handles. Polished head and jaws forged from special grade tool steel. Scored jaws. Long curved nose especially adapted for switch-board work or for reaching into confined places. Long curved nose bent at 45 degree angle. Length 6 inches.

Each	Each
<b>F7201G (302/6) X2D53</b>	\$3.80

Six in box. Wt. box  $1\frac{1}{2}$  lbs.

**FLAT NOSE**

**KEEN KUTTER**



**Duck Bill**

Long slender nose for motor winders and radiator repair men.

Drop forged alloy steel with spring tempered nose. Polished head. Properly balanced and smoothly finished.

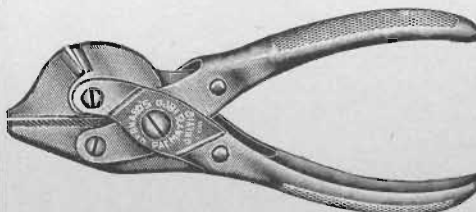
Length 6 inches

Each	Each
<b>F7193GK (K86/6) X1D87</b>	\$2.80

One in box. Wt. box  $\frac{1}{2}$  lb.

**PARALLEL ACTION**

**BERNARD**



Nickel plated and polished tool steel. Open throat. Parallel jaws, scored. Heavy sealed hollow handles riveted to jaws. Tempered and honed top cutter. Rivet joint. Knurled grips.

Each	Lgth., ins.	Wt. ctn., lbs.	Each
<b>F7106G (102/5½) X2D11</b>	5½	3	\$3.15
<b>F7107G (102/6½) X2D51★</b>	6½	3½	3.75
<b>F7108G (102/8) X3D27</b>	8	4½	4.90

One in box, six boxes in ctn.

**PLIER ASSORTMENT  
FULLER**



Made to U. S. Government specifications Electronic induction treated jaws. Completely ground and polished from top to bottom.

Hand honed cutting edges. High leverage handles.

Individually carded and pre-priced. Consists of:

Qty.	No.	Type	Size in.
2	190	Diagonal Cutting	5
2	190	Diagonal Cutting	6
2	192	Long Nose	5½
2	192	Long Nose	6½
2	194	Lineman's Side Cutter	7
2	194	Lineman's Side Cutter	8

Metal Rack—Free

Can be mounted on peg board or wall.

Per Asst.	Per Asst.
<b>0-198-G X15D73</b>	\$24.84

One asst. in ctn. Wt. ctn. 6 lbs.

**OPEN STOCK  
Diagonal Cutting**

Each	Size, in.	Wt. Box, lbs.	Each
<b>F7165G (190-5) X1D25</b>	5	$\frac{3}{4}$	\$1.98
<b>F7166G (190-6) X1D25</b>	6	1	1.98

**Long Nose**

<b>F7167G (192-5½) X1D25</b>	5½	$\frac{5}{8}$	1.98
<b>F7168G (192-6½) X1D25</b>	6½	$\frac{1}{2}$	1.98

**Lineman's Side Cutter**

<b>F7169G (194-7) X1D39</b>	7	1¼	2.20
<b>F7170G (194-8) X1D46</b>	8	1½	2.30

One on card, two in box

**PLIERS**

**ELECTRICIANS' OR LINEMENS'**

KEEN  KUTTER



**Standard—Side Cutting**

An ideal tool for electrical construction work. Unsurpassed cutting qualities.

Drop forged alloy steel, skillfully tempered. Face of jaws scored. Polished head, blue finish handles, with knurled grips.

Each	Length, inches	Weight Box, lb.	Each
F7190GK (K85/6)	X2D10	6 1/2	\$3.15
F7191GK (K85/7)	X2D40	7 3/4	3.60
F7192GK (K85/8)	X2D63★	8 1	3.95
One in box			

KEEN  KUTTER



**Giant Button's Pattern**

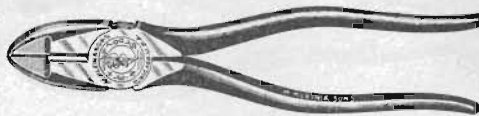
Has four wire cutters—two between jaws and one each top and bottom of head. The cutters between jaws hold one end of the wire firmly after being cut.

Drop forged alloy steel, oil tempered. Face of jaws scored. Polished head, blue finish handles, with smooth grips.

Each	Length, inches	Weight Box, lbs.	Each
F7210GK (KB8)	X2D03★	8 1	\$3.05
F7211GK (KB10)	X2D40★	10 1 1/2	3.60
One in box			

**ELECTRICIANS' OR LINEMENS'**

**KLEIN STANDARD**



**Side Cutting. For Bare and Insulated Wire**

Blued finished handles. Polished head and jaws. Hand forged from a special grade tool steel. Oil tempered and honed cutting edge. Extra heavy rivet joints. Scored jaws. Round nose permits easier working in confined space. All edges are rounded to prevent nicking of wire.

**Narrow End Streamlined**

(201NE)

Each	Length, ins.	Wt. Ctn., lbs.	Each
F7113G	X2D77	6 3/4	\$4.15
F7114G	X3D07★	7 3/8	4.60
F7115G	X3D47★	8 5/8	5.20
F7116G	X3D90	9 6/4	5.85

One in box. Six boxes in ctn.

**Heavy Blunt Head**

(201)

Each	Length, ins.	Wt. Ctn., lbs.	Each
F7110G	X3D07	7 3/8	\$4.60
F7111G	X3D47	8 5/8	5.20
F7112G	X3D90	9 7	5.85

One in box. Six boxes in ctn.

**ELECTRICIANS' OR LINEMENS'**

**KLEIN STANDARD**



**Side Cutting. With Sleeve-Joint Twister For Bare and Insulated Wire**

Blued finished handles. Polished head and jaws. Hand forged from a special grade tool steel. Oil tempered and honed cutting edges. Extra heavy rivet joint. Scored jaws. Sleeve opening in 7-inch for Nos. 14 and 17NBS and 12 BTS. 8 inch for Nos. 12 NBS and 10 BTS wire.

(212)

Each	Lgth., ins.	Wt. Ctn., lbs.	Each
F7122G	X3D23	7 3/8	\$4.85
F7123G	X3D67★	8 5/8	5.50

One in box. Six boxes in ctn.

**GLASS PLIERS  
RED DEVIL**



Forged from high grade tool steel. Flaring wide jaw. Rugged and nicely balanced. Full polished finish. Length 8 1/2 inches.

Each	▲ Each
F7129G (410) X5D10	\$8.50

Six in box. Wt. box 5 lbs.

**PLIER BOLTS**

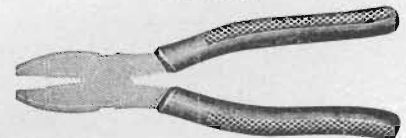
**With Nuts  
For Slip Joint Pliers  
Polished Steel**



Each	For Pliers, inches	▲ Each
F7057G	D0C7 (EB5)	5 \$0.15
F7058G	D0C7 (EB6)	6-7-8 .15
F7060G	D0C9 (EB10)	10 .15

Loose. Average wt. each 1/2 oz.

**PLIER HANDLES  
MILLER**



**Never Slip**

Applied simply by driving them on the plier handles. No heating or soaking.

Colorful plastic, moulded to fit plier handles snugly. Half smooth, half knurled for solid grip.

**Non-Burning Non-Explosive**

D4C0%	For Pliers, inches	Wt. Box, lbs.	Per Pair
F7219G	D3C9 (PG6)	5 & 6 1 1/2	\$0.65
F7220G	D4C2★ (PG7)	7 2 1/4	.70
F7221G	D4C5★ (PG8)	8 & 9 3	.75

Twelve pair in box



**SIDE CUTTING PLIERS**

**KLEIN**

**High Leverage**

Eliminates extra hinging and has comfortable one-hand operation.

Cuts through weatherproof hard-drawn solid wire up to No. 2.

Forged from high grade tool steel, individually fitted, tempered, adjusted and tested.

**Length 9 inches**



**Blunt Head Standard**

Each **F7138G (213/9) X4D40** ..... \$6.60

Six in pkg. Wt. pkg. 14 lbs.



**Narrow End Streamlined**

Each **F7139G (213-NE9) X4D40** ..... \$6.60

Six in pkg. Wt. pkg. 13½ lbs.

**PLIER AND NIPPER DISPLAY ASSORTMENT FULLER**



Four each of the following drop-forged tools with stove-baked enamel handles, polished ground heads, heat-treated jaws and sharp cutting edges in attractive counter display box:

- |     |                             |
|-----|-----------------------------|
| No. | Description                 |
| 64  | End Cutting Nippers, 6 inch |
| 60  | Engineers Pliers, 7 inch    |
| 74  | Long Nose Pliers, 6½ inch   |

Per Asst.		Per Asst.
<b>F7160G (119) X9D52</b> .....		\$14.28
One asst. in box. Wt. box 5 lbs.		

**OPEN STOCK PLIERS FULLER**



**Engineers' All-Purpose**

Drop-forged with stove-baked enamel handles, polished ground head, heat-treated jaws and sharp cutting edges.

**Length 6 inches**

Each		Each
<b>F7162G (70) D7C9</b> .....		\$1.19

Four in box. Wt. box 1¾ lbs.



**Long Nose Side-Cutting**

Drop-forged with stove-baked enamel handles, polished ground head, heat-treated jaws and sharp cutting edges.

**Length 6½ inches**

Each		Each
<b>F7163G (74) D7C9</b> .....		\$1.19

Four in box. Wt. box 1 lb.

**END CUTTING NIPPERS FULLER**



Drop-forged with stove-baked enamel handles, polished ground head, heat-treated jaws and sharp cutting edges.

**Length 6 inches**

Each		Each
<b>F7161G (64) D7C9</b> .....		\$1.19

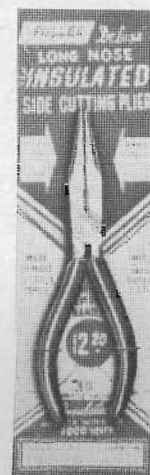
Four in box. Wt. box 1¾ lbs.

**PLIERS**

**FULLER**

**Insulated—DeLuxe**

**Long Nose Side-Cutting**



Made in England to U. S. government specifications. Withstands 1,000 volts.

Individually carded.

Each		Each
<b>F7156G (184) X1D47</b> .....		\$2.20

Six in ctn. Wt. ctn. 4½ lbs.

**SIDE CUTTING PLIERS**

**KLEIN**

**High Leverage**

Eliminates extra hinging and has comfortable one-hand operation.

Cuts through weatherproof hard-drawn solid wire up to No. 2.

Forged from high grade tool steel, individually fitted, tempered, adjusted and tested.

**Length 9 inches**



**Blunt Head Standard**

Each **F7138G (213/9) X4D40** ..... Each \$6.60  
Six in pkg. Wt. pkg. 14 lbs.



**Narrow End Streamlined**

Each **F7139G (213-NE9) X4D40** ..... Each \$6.60  
Six in pkg. Wt. pkg. 13½ lbs.

**PLIER AND NIPPER DISPLAY ASSORTMENT FULLER**

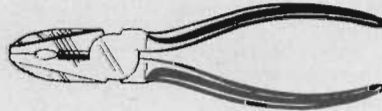


Four each of the following drop-forged tools with stove-baked enamel handles, polished ground heads, heat-treated jaws and sharp cutting edges in attractive counter display box:

No.	Description	Per Asst.
64	End Cutting Nippers, 6 inch	
60	Engineers Pliers, 7 inch	
74	Long Nose Pliers, 6½ inch	
	<b>F7160G (119) X9D00</b> .....	Per Asst. \$14.28

One asst. in box. Wt. box 5 lbs.

**OPEN STOCK PLIERS FULLER**

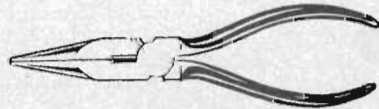


**Engineers' All-Purpose**

Drop-forged with stove-baked enamel handles, polished ground head, heat-treated jaws and sharp cutting edges.

**Length 6 inches**

Each **F7162G (70) D7C5** ..... Each \$1.19  
Four in box. Wt. box 1¾ lbs.



**Long Nose Side-Cutting**

Drop-forged with stove-baked enamel handles, polished ground head, heat-treated jaws and sharp cutting edges.

**Length 6½ inches**

Each **F7163G (74) D7C5** ..... Each \$1.19  
Four in box. Wt. box 1 lb.

**END CUTTING NIPPERS FULLER**



Drop-forged with stove-baked enamel handles, polished ground head, heat-treated jaws and sharp cutting edges.

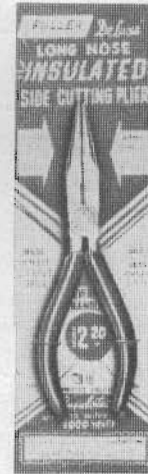
**Length 6 inches**

Each **F7161G (64) D7C5** ..... Each \$1.19  
Four in box. Wt. box 1¾ lbs.

**PLIERS**

**FULLER**

**Insulated—DeLuxe Long Nose Side-Cutting**



Made in England to U. S. government specifications. Withstands 1,000 volts. Individually carded.

Each **F7156G (184) X1D39** ..... Each \$2.20  
Six in ctn. Wt. ctn. 4½ lbs.

### CARPENTERS' PINCERS

KEEN  KUTTER



Forged from highest grade tool steel. Heavy steel rivet at joint. Oil tempered jaws with inside bevel. Polished face. Red handles.

Each	Length, ins.	Wt. lbs.	Box, lbs.	Each
F7013GK (K706) X1D20★	6	1/2		\$1.80
F7014GK (K708) X1D33★	8	1		2.00

One in box

SHAPLEIGH'S



Nail Cutting

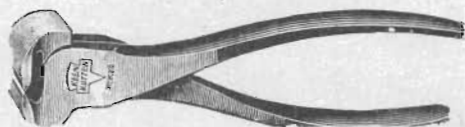
Polished jaws. Black finish handles. Forged from high grade tool steel. Oil tempered jaws. Steel rivet joint.

Each	Length, ins.	Wt. lbs.	Box, lbs.	Each
F7028G (SN10) X1D84	10	9 1/2		\$2.75
F7029G (SN14) X2D20★	14	12 1/2		3.30

Six in box

### END CUTTING NIPPERS

KEEN  KUTTER



Bulldog

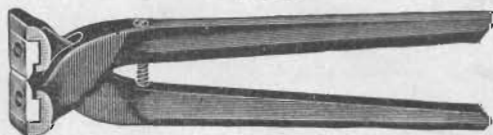
A strong, easy cutting tool for body builders, fender repair men and other mechanics who require a high quality end cutting nipper that will hold its edge.

Forged from fine grade alloy steel carefully tempered with fine cutting edges. Good leverage. Polished head, blue finish handles, with checkered grips.

Each	Length, ins.	Wt. lbs.	Box, lbs.	Each
F7179GK (K26/6) X2D33★	6	5/8		\$3.50
F7180GK (K26/7) X2D63★	7	3/4		3.95

One in box

TODDS



Handles and head, natural oil finish, with polished head. Highest grade tool steel cutters, finely tempered, sharpened and tested. Set screw in handle for accurate adjustment of cutting edges. Cutters are interchangeable, easily removed, sharpened and replaced.

Each	Width Cut, ins.	Length, ins.	Wt. ozs.	Pkg.,	Each
F7024G (N6) X3D05	1 1/16	6	10		\$4.55
F7023G (N4) X3D25★	1 3/8	8	15		4.85
F7022G (N3) X3D55★	1 9/16	10	26		5.30
F7021G (N1) X4D15	1 3/4	12	34		6.25

Wrapped one in pkg.

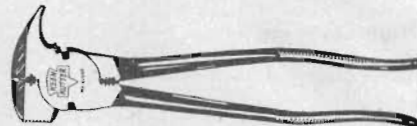
EXTRA CUTTERS  
With Screws

Per Pair	Width Cut, ins.	For Nos.	Wt. ozs.	Env.,	Per Pair
F7063G (NC1) X1D35	1 1/4	N1	2		\$2.00

One pair in envelope, with screws

### FENCING PLIERS OR STAPLE PULLERS

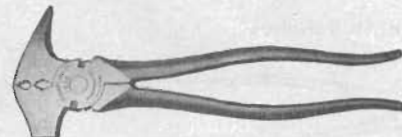
KEEN  KUTTER



Each	Length	Each
F7209GK (K1946) X2D17★	10 1/4 inches	\$3.25

One in box. Wt. box 1 3/8 lbs.

CRESCENT



Combination staple puller and wire stretcher with two wire cutters. Broad face on head for driving staples.

Forged steel. Polished head. Gun metal knurled handles. Length 10 1/2 inches.

Each	Length	Each
F7130G (1936) X2D56★	10 1/2 inches	\$3.85

One in box. Wt. box 1 1/2 lbs.

CRESCENT



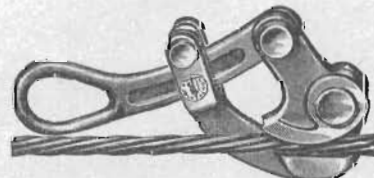
Forged steel. Double hammer head with faces hardened and checkered. Wire stretcher, wire splicer, staple puller and two cutters. Black finish. Knurled handles. Length 10 inches.

Each	Length	Each
F7137G (1907) X2D43	10 inches	\$3.65

One in box. Wt. box 1 1/4 lbs.

### LINEMEN'S WIRE GRIPS

KLEIN



Havens Grips

Forged from crucible tool steel. Galvanized finish. The eccentric, or dog, is hand cut, hardened and tempered. All rivets are steel, machine turned. Maximum opening, 1 1/2 inch (.53) inch. Minimum opening 1/4 inch (.14) inch. For 1/2 inch wire and smaller. Safe capacity, 5000 lbs.

Each	Length	Each
F496G (1604/20) X4D40	1 1/2 inch	\$6.75

One in box. Wt. box 2 1/2 lbs.

### WIRE CUTTERS PORTER HAND KLIP



For cutting and repair jobs on the farm, ranch, orchard, mine, reservations, in the home and camp. Also for clearance and maintenance work by utilities, railroads, car shops, garages, etc.

Tough alloy steel cutting head, drop forged and heat treated. Specially designed parrot-beak jaw with protruding tip. Finest pressed steel handles, scientifically shaped to fit the palm and fingers, covered with a special plastic moulding, pliable, durable and non-tacking.

Cutting capacity—wire rope and soft rods up to 3/16 inch, annealed bolts in threads up to 1/4 inch. Length over all 8 inches.

Each	Length	Each
F7091G (6C) X4D80★	8 inches	\$7.20

Loose. Wt. each 1 lb.

## BOLT CLIPPERS PORTERS

Forged tool steel adjustable jaws. Red malleable iron curved handles with improved hand grip. Metal handle stops with rubber buffers. Spring control. Tempered carbon steel straps. Bushing in center joint. All bolts heat treated. Compound lever action.



### Rigid Clipper Cutter

Cutting edges beveled almost entirely from one side.

For close cutting non-ferrous metals, wrought iron, annealed bolts in the thread, soft steel, cold-drawn screw stock, machinery steel, annealed tool steel and stainless iron.

Each		Length, inches	Cuts Bolt, inches	Cuts Soft Rods, inches	Weight Each, lbs.	▲ Each
F7086G	X8D15★	090 18	3/8	5/16	4 1/4	\$12.20
F7083G	X10D10★	190 24	7/16	3/8	6 3/4	15.10
FX-2B-G	X12D95	290 30	9/16	1/2	10 1/2	19.40
FX-3B-G	X16D80	390 36	5/8	9/16	14 3/4	25.20

Loose

### Rigid Clipper Cutter

Cutting edge beveled almost entirely from one side.

For all-around work in softer metals requiring close cutting. Cuts bolts in the thread up to 9/16 inch. Soft rods up to 1/4 inch, Length 14 ins.

Each			▲ Each
F7092G	(1490)	X7D67	\$11.20
			Loose. Wt. each 2 7/8 lbs.

### Extra Jaws For Above

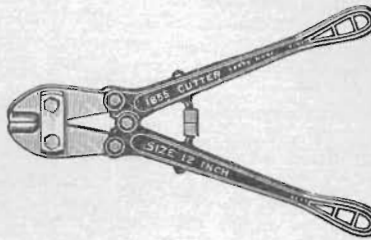
Each			▲ Each
F7034G	(1412-Right)	X1D87	\$2.80
F7035G	(1412-Left)	X1D87	2.80
			Loose. Wt. each 1/4 lb.

### PORTER'S UTILITY CUTTER

A small clipper designed for the occasional user.

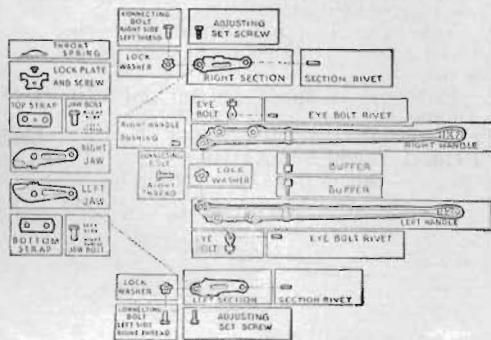
Length 12 inches. Cuts bolts up to 1/4 inch. Cuts soft rods up to 3/16 inch.

Each	(1290)	▲ Each
F7093G	X4D60★	\$6.90
One in display ctn. Wt. ctn. 1 1/2 lbs.		



## BOLT CLIPPER REPAIR PARTS

PORTER



In Ordering Repair Parts Give Name and Number of Part as Well as Number of Clippers.

Clipper	No.-090-18 inch			No.-190-24 inch			No.-290-30 inch			No.-390-36 inch						
	No. of Part	Weight Ea., lbs.	▲ Each	No. of Part	Weight Ea., lbs.	▲ Each	No. of Part	Weight Ea., lbs.	▲ Each	No. of Part	Weight Ea., lbs.	▲ Each				
Clipper cut jaws, right hand	F7038G-01	X2D03	3/4	\$3.05	F7038G-11	X2D40	1 1/8	\$3.60	F7040G-21	X3D10	2 1/8	\$4.65	F7042G-31	X3D90	2 9/16	\$5.80
Clipper cut jaws, left hand	F7037G-02	X2D03	3/4	3.05	F7039G-12	X2D40	1 1/8	3.60	F7041G-22	X3D10	2 1/8	4.65	F7043G-32	X3D90	2 9/16	5.80

## PIPE CUTTERS RIDGID



### Heavy Duty

Frame made of malleable casting. Cutter wheels made of high grade tool steel. Cuts the pipe practically without burr. Long strip proof threads on handle. Socket wrench in handle end. Both cutter and rollers can be easily removed by driving out the pin.

Each		Lgth, ins.	Cuts Pipe, ins.	Wt., lbs.	box, Each
F7095G	X10D40	13 1/2	1/8 to 1 1/4	5	\$15.60
F7096G	X13D90★	16 1/4	1/8 to 2	6 1/4	20.85
One in box					

## PIPE CUTTER REPAIR PARTS

### Extra Cutter Wheels For Saunders Pipe Cutters

Tricrome thin alloy steel. Silvered finish with red hub.

Each		Diam., ins.	Wt., box, ozs.	Each	
F7045G	(SW2)	X1D00	1 5/16	12	\$1.50
Twelve in box					

### Extra Cutter Wheels For Ridgid Pipe Cutters Nos. 1 and 2

Diameter of Wheel 1 5/16 inch

Each			Heavy Duty	Each
F7053G	(R2W)	D9C5		\$1.45
<b>Thin Wheel</b>				
F7054G	(R2WTW)	D8C5		1.30
Twelve in box. Wt. box 3/4 lb.				

**PIPE VISES**

**RIDGID**

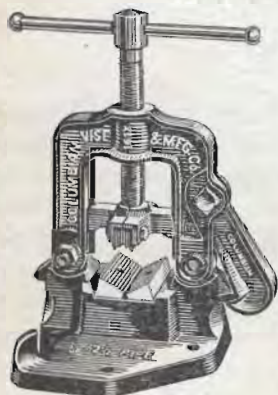
**Bench Yoke**



Malleable iron frame and base. Machine milled steel screw and cross arm. Frame hinged at side. Hook holds frame rigid when closed. Convenient pipe rest and bender. Highest quality long grip tool steel jaws. Red yoke with black base.

Each	Capacity pipe, ins.	Wt. lbs	Each
0-BY2A-G	X12D35 1/8 to 2	11 1/2	\$18.50
	Loose		

**COLUMBIAN**



Extra strong, high grade malleable iron frame and bases, with easy-working, unbreakable self-locking hook. Steel jaws, carefully heat-treated. Reversible lower jaws milled on both sides. Cold rolled steel screw and cross handle with forged ball ends. Handy bender for small pipe, conduit and tubing. Flat base has 3 holes for mounting on any plane surface.

**Long Bearing Jaws**

Each	Cap. Pipe, ins.	Height Closed, ins.	Size Base, ins.	Weight Each, lbs.	Each
0-160-G	X12D35 1/8 to 2	9 1/4	4 1/2 x 5	9	\$18.50
0-161-G	X14D60 1/8 to 2 1/2	10 1/2	5 1/2 x 6	11	21.90
±163-G	X28D80 1/8 to 4 1/2	14 1/2	6 1/2 x 9	26	43.20

**Interlocking Jaws**

±164X-G	X64D70 1/2 to 6	17 1/4	7 1/2 x 10 1/2	37	97.50
	Loose				

**LITTLETOWN**

**Plumbers**

**Broad Jaw Type**



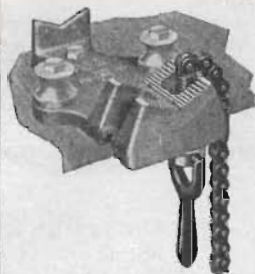
Constructed of malleable iron.

Specially designed, enabling all styles of pipe, including polished or brass, to be firmly held with least possible damage. Long one-piece removable grooved steel jaws. Self-locking latch.

Each	Cap. Pipe, ins.	Height Closed, ins.	Size Base, ins.	Weight Each, lbs.	▲ Each
0-200-G	X4D05 1/8 x 2	8	4 x 5	5 1/2	\$6.00
0-300-G	X6D00 1/8 x 2 1/2	9 6 1/2	5 x 5	8 1/2	9.00
	Loose				

**CHAIN PIPE VISES**

**RIDGID**



**Bench**

Special malleable frame. Highest quality tool steel jaws, hardened for long wear. Handy pipe rest and bender. Steel flat link chain.

Each	Capacity pipe, ins.	Wt. each, lbs.	Each
0-BC2-G	X9D10 1/8 to 2	5 1/2	\$13.65
	Loose		

**THIN WALL TUBE CUTTERS**

**GENERAL Pocket Size**



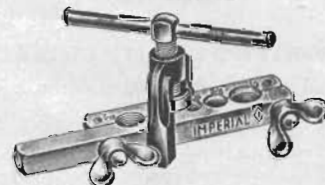
Ideal for garage, oil burner and refrigeration servicemen for cutting all thin wall tubing up to 1 inch outside diameter.

This perfectly balanced precision tool assures fast, easy cutting with practically no burr.

Fine quality material, rust-proof finish. Extra thin razor-edged wheel. Sliding spring lock safety reamer with two bevel machine ground cutting edges. Spring lock holds reamer back out of the way when not in use. Length closed 4 1/2 inches.

Each	F7101G (TC100)	X1D04	▲ Each	\$1.56
			One in box, 12 in ctn.	
			Wt. box 1 1/2 lb.	

**FLARING TOOLS IMPERIAL**



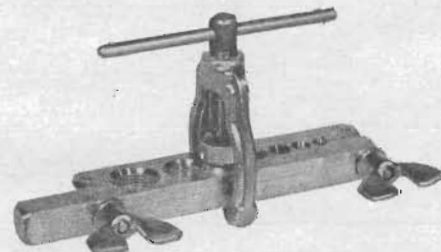
Flares soft copper, brass or aluminum tubing to make up S. A. E. 45% flare joints without cracking or splitting tubing.

Yoke of steel forging. Swivel type flaring cone, which remains stationary when compressor screw is turned.

Flares 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, and 5/8 in. O. D. Tubing.

Each	F7102G (296FS)	X4D18	Each	\$5.95
			One in box. Wt. box 1 3/4 lbs.	

**NATIONAL**



Flares copper, brass and aluminum tubing without cracking or splitting.

Steel forging compressor with cadmium finish. Tool can be used without removing tubing from equipment. Hinged die. One end opens for rapid application. Holes threaded for secure grip.

Flares 3/16, 1/4, 5/16, 3/8, 7/16, 1/2 and 5/8 inch Tubing

Each	F7090G (290)	X2D31	▲ Each	\$3.50
			One in box. Wt. box 2 lbs.	

**TUBE CUTTERS**

**NATIONAL**



Pressure rollers operate on a sliding feed mechanism and cutter wheel is mounted on a wide axis. Perfect alignment guaranteed—threading eliminated. Retractable vet locks solidly open. Die cast aluminum body. Steel blade and reamer knife easily replaced.

Length over all closed 4 inches. Width 2 inches. Tubing capacity 0 to 1 inches O.D.

Each	F7094G (9555)	X1D75	▲ Each	\$2.65
			One in box. W t. box 7 1/2 ozs.	

Items marked ± not carried in stock. Can only be furnished by shipping direct from factory, F. O. B., Cleveland, Ohio. Freight allowed on shipments of X150D00 or more.

STAR ★ DENOTES BEST SELLER

**PIPE WRENCHES**

KEEN  KUTTER



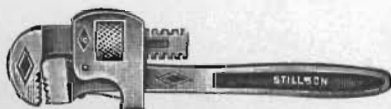
**Stillson Pattern**

Highest grade drop forged tool steel. Polished shank jaws. Malleable frame zinc finished. Solid steel red finish handle and nuts. Heavy steel springs.

Each	Lgth., ins.	Adj., ins.	Wt. box lbs.	Each
	(KX6)			
<b>F7928GK</b>	<b>X1D30</b>	6	1/8 to 1/2	3 \$1.95
	(KX8)			
<b>F7929GK</b>	<b>X1D50</b> ★	8	1/8 to 3/4	6 2.25
	(KX10)			
<b>F7930GK</b>	<b>X1D95</b> ★	10	1/8 to 1	12 2.95
	(KX14)			
<b>F7931GK</b>	<b>X2D65</b> ★	14	1/4 to 1 1/2	18 4.00
	(KX18)			
<b>F7932GK</b>	<b>X3D75</b>	18	1/4 to 2	36 5.65
	(KX24)			
<b>F7933GK</b>	<b>X6D50</b>	24	1/4 to 1 1/2	60 9.85

Six in wood box

**MASTER STILLSON**



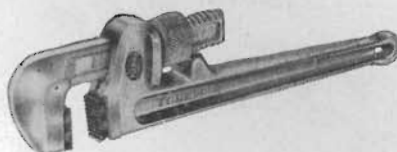
Drop forged tool steel. Polished shank and jaws. Polished malleable frame. Steel drop forged paneled handles, painted red. Lengths 6 and 8 inches have front springs, lengths 10 and 14 inches have two back springs and one front spring. Lengths 18 and 24 inches have two back springs and one front spring. Lengths 36 and 48 inches have single front spring.

Each	Lgth., ins.	Adj. ins.	Wt. Box lbs.	Each
	(PS8)			
<b>F7935G</b>	<b>X1D50</b>	8	1/8 to 3/4	6 \$2.25
	(PS10)			
<b>F7936G</b>	<b>X1D95</b>	10	1/8 to 1	12 2.95
	(PS14)			
<b>F7937G</b>	<b>X2D65</b>	14	1/4 to 1 1/2	18 3.95
	(PS18)			
<b>F7938G</b>	<b>X3D75</b>	18	1/4 to 2	36 5.65
	(PS24)			
<b>F7939G</b>	<b>X6D50</b>	24	1/4 to 2 1/2	60 9.75
<b>FX-PS36-G</b>	<b>X13D75</b>	36	1/4 to 3 1/2	90 20.75

6 through 24 inch six in box, 36 inch six in bd.

**HEAVY DUTY PIPE WRENCHES**

KEEN  KUTTER



**Malleable Alloy**

Will take roughest treatment. Better balanced "feel", fast easy adjustment, calibrated hook jaw and patented double action spring makes these wrenches bit, ratchet and release faster. Pearlitic malleable alloy. Forged steel jaws milled and triple heat treated. Red handle with hang hole.

Each	Lgth. in.	Cap. in.	Wt. Pkg. lbs.	Each
<b>F7922GK</b>	<b>X1D98</b>	8	1/8-1	6 \$3.15
<b>F7925GK</b>	<b>X2D58</b>	10	1/8-1 1/2	12 4.15
<b>F7923GK</b>	<b>X3D01</b>	12	1/8-2	18 4.80
<b>F7926GK</b>	<b>X3D48</b>	14	1/4-2	21 5.55
<b>F7927GK</b>	<b>X4D98</b>	18	1/4-2 1/2	33 7.95

Six in Pkg.

**RIDGID**



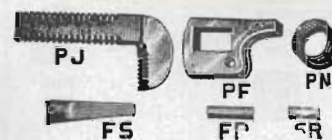
Alloy steel polished and hardened jaws. Inserted steel jaws.

Knurled adjusting nut. Japanned finish handle. The inserted jaw and frame are fastened to handle by a removable steel pin. Removable jaws and nut have round top and bottom thread.

Each	Length, ins.	Cap., ins.	Wt. Box lbs.	Each
	(RPW6)			
<b>F7944G</b>	<b>X1D80</b>	6	3/4	3 \$2.70
	(RPW8)			
<b>F7945G</b>	<b>X2D10</b>	8	1	4 1/2 3.15
	(RPW10)			
<b>F7946G</b>	<b>X2D75</b> ★	10	1 1/2	9 4.12
	(RPW12)			
<b>F7950G</b>	<b>X3D20</b> ★	12	21	18 4.80
	(RPW14)			
<b>F7947G</b>	<b>X3D70</b> ★	14	2	19 1/2 5.55
	(RPW18)			
<b>F7948G</b>	<b>X5D30</b> ★	18	2 1/2	30 3/4 7.95
	(RPW24)			
<b>F7949G</b>	<b>X8D35</b>	24	3	51 12.50
<b>FX-RPW36-G</b>	<b>X17D65</b>	36	3 1/2	16 1/4 26.47
<b>FX-RPW48-G</b>	<b>X26D50</b>	48	6	28 39.75

6 through 24-inch, six in box 36 and 48 inch loose

**PIPE WRENCH REPAIRS**



For **MASTER STILLSON**

KEEN KUTTER and SHAPLEIGH

Each			For Wrench, ins.	Wt. lbs.	Each
<b>F9396G</b>	<b>D4C5</b>	<b>(PJ6)</b>	6	1/8	\$0.70
<b>F9397G</b>	<b>D5C0</b>	<b>(PJ8)</b>	8	1/4	.75
<b>F9398G</b>	<b>D7C5</b>	<b>(PJ10)</b>	10	3/8	1.15
<b>F9399G</b>	<b>X1D05</b>	<b>(PJ14)</b>	14	1/2	1.60
<b>F9400G</b>	<b>X1D45</b>	<b>(PJ18)</b>	18	1 3/8	2.25
<b>F9401G</b>	<b>X2D40</b>	<b>(PJ24)</b>	24	2 1/8	3.60
<b>+PJ36-G</b>	<b>X3D90</b>		36	4 1/8	5.85
<b>+PJ48-G</b>	<b>X6D20</b>		48	6 1/8	9.35

**Front Jaws**

**Frames and Pin**

Each			For Wrench, ins.	Wt. lbs.	Each
<b>+PF6-G</b>	<b>D3C0</b>		6	1/4	\$0.45
<b>+PF8-G</b>	<b>D4C0</b>		8	1/4	.60
<b>+PF10-G</b>	<b>D5C0</b>		10	1/4	.75
<b>F9391G</b>	<b>D5C5</b>	<b>(PF14)</b>	14	1/2	.85
<b>F9392G</b>	<b>D6C5</b>	<b>(PF18)</b>	18	1/2	1.00
<b>F9393G</b>	<b>X1D20</b>	<b>(PF24)</b>	24	3/4	1.80
<b>F9394G</b>	<b>X1D90</b>	<b>(PF36)</b>	36	1 1/2	2.85
<b>+PF48-G</b>	<b>X2D40</b>		48	2	3.60

**Nuts**

Each			For Wrench, ins.	Wt. ozs.	Each
<b>F9404G</b>	<b>D1C5</b>	<b>(PN6)</b>	6	1/2	\$0.25
<b>F9405G</b>	<b>D1C5</b>	<b>(PN8)</b>	8	1	.25
<b>F9406G</b>	<b>D2C0</b>	<b>(PN10)</b>	10	2	.30
<b>F9407G</b>	<b>D3C0</b>	<b>(PN14)</b>	14	4	.45
<b>F9408G</b>	<b>D3C5</b>	<b>(PN18)</b>	18	4	.55
<b>F9409G</b>	<b>D4C5</b>	<b>(PN24)</b>	24	8	.70
<b>F9410G</b>	<b>D9C5</b>	<b>(PN36)</b>	36	14	1.45

**Frame Pins**

Each			For Wrench, ins.	Each
<b>+FP6-G</b>	<b>D0C5</b>		6	\$0.10
<b>+FP8-G</b>	<b>D0C5</b>		8	.10
<b>+FP10-G</b>	<b>D0C5</b>		10	.10
<b>+FP14-G</b>	<b>D0C5</b>		14	.10
<b>+FP18-G</b>	<b>D0C5</b>		18	.10
<b>+FP24-G</b>	<b>D0C5</b>		24	.10
<b>+FP36-G</b>	<b>D0C5</b>		36	.10
<b>+FP48-G</b>	<b>D0C5</b>		48	.10

**Front Springs With Pins**

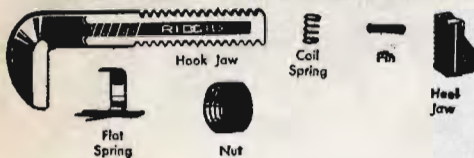
Each			For Wrench, ins.	Each
<b>+FSP6-G</b>	<b>D0C6</b>		6	\$0.10
<b>+FSP8-G</b>	<b>D0C6</b>		8	.10
<b>+FSP10-G</b>	<b>D0C6</b>		10	.10
<b>+FSP14-G</b>	<b>D0C6</b>		14	.10
<b>+FSP18-G</b>	<b>D0C9</b>		18	.15
<b>+FSP24-G</b>	<b>D0C9</b>		24	.15
<b>+FSP36-G</b>	<b>D0C9</b>		38	.15
<b>+FSP48-G</b>	<b>D0C9</b>		48	.15

All above, loose

Items marked + not carried in stock. Can only be furnished by shipping direct from factory, F. O. B., Boston, Mass.

STAR ★ DENOTES BEST SELLER

**PIPE WRENCH REPAIRS**



**RIDGID—Front Jaw**

Each			For Wrench, inches	Weight Each, lbs.	Each
F9351G	D3C5	(RJ6)	6	1/4	\$0.97
F9352G	D7C0	(RJ8)	8	1/2	1.05
F9353G	X1D05	(RJ10)	10	3/4	1.55
F9354G	X1D45	(RJ14)	14	1 1/4	2.20
F9355G	X2D05	(RJ18)	18	2 1/4	3.05
F9356G	X3D15	(RJ24)	24	3 1/4	4.70

**Heel Jaw and Pin**

Each			For Wrench, inches	Weight Each, lbs.	Each
†RHJ6G	D3C5	(RHJ6)	6	1/8	\$0.55
F9345G	D4C0	(RHJ8)	8	1/8	.60
F9346G	D5C5	(RHJ10)	10	3/16	.80
F9347G	D8C5	(RHJ14)	14	1/4	1.00
F9348G	D7C0	(RHJ18)	18	3/8	1.05
F9349G	D7C5	(RHJ24)	24	1/2	1.10

**Heel Jaw Pins**

Each			For Wrench, inches	Weight Each, lbs.	Each
†RP6G	D0C5		6	..	\$0.10
†RP8G	D0C5		8	..	.10
†RP10G	D0C5		10	..	.10
†RP14G	D0C5		14	..	.10
†RP18G	D0C5		18	..	.10
†RP24G	D0C5		24	..	.10
†RP36G	D0C5		36	..	.10

**Coil and Flat Springs**

One each flat and coil springs.

Each			For Wrench, inches	Weight Each, lbs.	Each
†RCFS6G	D2C0		6	..	\$0.30
†RCFS8G	D2C0		8	..	.30
†RCFS10G	D2C0		10	..	.30
†RCFS14G	D3C0		14	..	.45
†RCFS18G	D5C0		18	..	.75
†RCFS24G	D5C5		24	..	.80
†RCFS36G	D6C0		36	..	.90

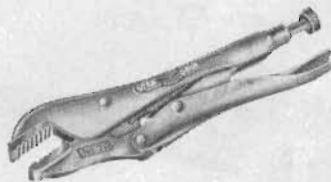
**Nuts**

Each			For Wrench, inches	Weight Each, lbs.	Each
F9358G	D1C5	(RN6)	6	1/16	\$0.25
F9359G	D1C5	(RN8)	8	1/8	.25
F9360G	D2C0	(RN10)	10	3/16	.30
F9361G	D3C5	(RN14)	14	5/16	.55
F9362G	D3C5	(RN18)	18	1/2	.55
F9363G	D5C0	(RN24)	24	1	.75
F9364G	X1D00	(RN36)	36	1 1/2	1.50

Loose

**PLIER-WRENCHES**

**PETERSON VISE**



**Straight Jaw Models**

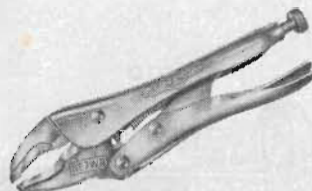
Double lever action. High grade alloy tool steel, hardened and tempered.

Each			Jaw Size in.	Jaw Thick-ness, in.	Jaw Adj. in.	▲Each
F7981G	X1D43	(7R)	7	3/16	1 1/8	\$2.15

One in box. Wt. box 3/4 lb.

F7982G	X1D63	(10R)	10	5/8	1 1/4	2.45
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One in box. Wt. box 1 1/4 lbs.



**Involute Curved Jaw models**

Made of heat treated alloy steel. Gives tooth contact on four points of nuts—increases tooth contact on round work. When used as clamp, pressure can be applied exactly where wanted.

Knurled jaw tips hold work at very tip with non-slip grip. Thin nose works in close quarters. Wire cutter even cuts 5/16 in. bolts.

**With Wire Cutter**

Each			Jaw Size in.	Jaw Thick-ness, in.	Jaw Adj. in.	▲Each
F7988G	X1D67	(7WR)	7	1/4	1 5/8	\$2.50

One in box. Wt. box 3/4 lb.

F7989G	X1D97	(10WR)	10	3/8	1 7/8	2.95
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One in box. Wt. box 1 1/4 lbs.

**Without Wire Cutters**

F7986G	X1D50	(7CR)	7	1/4	1 7/8	2.25
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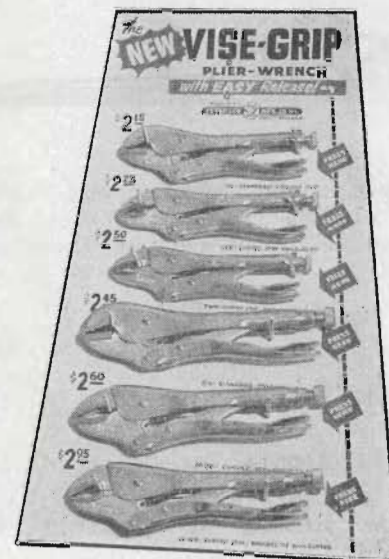
One in box. Wt. box 3/4 lb.

F7987G	X1D73	(10CR)	10	3/8	1 7/8	2.60
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One in box. Wt. box 1 1/4 lbs.

**PLIER-WRENCH DEAL**

**PETERSON VISE-GRIP**



Simply press "easy-release" and jaws click open.

Three color display board 13 in. wide at base, 20 1/2 in. high, with pegboard hooks.

Consists of one each of the following:

No.	Size in.	Type Jaw
7R	7	Straight
7CR	7	Curved
7WR	7	Curved, with Cutter
10R	10	Straight
10CR	10	Curved
10WR	10	Curved, with Cutter

Per Deal (6DB) ▲Per Deal

F7969G X9D93.....\$14.90

One in etc. Wt. etc. 10 lbs.

# MERCHANDISE MANAGER'S SPECIAL PROMOTION

## OUTBOARD MOTOR MAINTENANCE KITS Challenger Imperial



Every tool required for repairing and adjusting outboard motors to peak efficiency plus an official Popular Mechanics' magazine "Outboard Motor Operation" manual.

Spark plug holding socket, with cushion insert, for inserting or removing plugs without dropping them in the water or burning fingers.

Includes following tools in plastic, waterproof, roll-up kit that folds to 11½x5x2 inches—each kit individually boxed—six kits in automatic merchandising carton:

- |                                    |                                     |
|------------------------------------|-------------------------------------|
| 3/8x7/16 inch Open end Wrench      | 2 Ignition Files                    |
| ½x9/16 inch Open end Wrench        | 7-Piece Spark Adjustment Tool       |
| 5/8x¾ inch Open end Wrench         | 10-Piece Feeler Gauge               |
| 8 inch Phillips Screwdriver        | 7-Piece Set Screwdriver set and Kit |
| 8 inch Mechanics' Screwdriver      | Spark Plug Holding Socket           |
| 10 inch All-purpose Locking Pliers | Shear Pin and Cotter Pin Pouch      |
| 6 inch Mechanics' Pliers           |                                     |

(6195)

Per Kit  
F7980-G

X6D65 .....

Per Kit  
\$9.98

Six kits in ctn. Wt. ctn. 21 lbs.



**ADJUSTABLE WRENCH DISPLAYS**



KEEN KUTTER

Attractive sturdy metal display stand with double steel wire easel and brackets for holding wrenches. Width 10 inches. Height 13 inches. Display twelve wrenches. Wrenches have alloy steel frames and handles. Hardened jaws. Polished heads. Silver finish web handle with hole for hanging.

Red background with white trim.

Contains:

Qty.	No.	Length, ins.	Cap., ins.	Each
<b>Adjustable Wrenches</b>				
2	F7890GK-K4	4	1/2	\$2.50
3	F7891GK-K6	6	3/4	2.50
3	F7892GK-K8	8	15/16	2.95
2	F7893GK-K10	10	1 1/8	3.75
2	F7894FK-K12	12	1 1/16	5.50
<b>For Wrench</b>				
<b>Jaws</b>				
1	F9453G-914J	K4		.44
1	F9258G-916J	K6		.44
1	F9259G-918J	K8		.56
1	F9260G-9110J	K10		.72
1	F9261G-9112J	K12		1.08
<b>Knurls</b>				
1	F9454G-914K	K4		.18
1	F9262G-916K	K6		.18
1	F9263G-918K	K8		.20
1	F9264G-9110K	K10		.22
1	F9265G-9112K	K12		.37
<b>Pins</b>				
1	F9455G-914P	K4		.07
1	F9266G-916P	K6		.07
1	F9267G-918P	K8		.07
1	F9268G-9110P	K10		.07
1	F9269G-9112P	K12		.15
<b>Springs</b>				
1	F9456G-914S	K4		.07
1	F9270G-916S	K6		.07
1	F9271G-918S	K8		.07
1	F9272G-9110S	K10		.07
1	F9273G-9112S	K12		.07

Per Display  
**F7888GK X27D77**.....\$41.65

Wrenches packed in individual boxes, extra parts in envelopes.

Complete display in ctn. Wt. ctn. 8 lbs.

**REPAIRS FOR ADJUSTABLE WRENCHES**



Jaws



Knurls



Pins

**DIAMOND EDGE, KEEN KUTTER AND UTICA**

Jaws				Knurls					
Each			For Wrench ins.	Each	Each		For Wrench ins.		
F9453G	(914J)	D3C0	4	\$0.45	F9454G	(914K)	D1C2	4	\$0.25
F9258G	(916J)	D3C0	6	.45	F9262G	(916K)	D1C2	6	.25
F9259G	(918J)	D3C7	8	.60	F9263G	(918K)	D1C4	8	.30
F9260G	(9110J)	D4C8	10	.75	F9264G	(9110K)	D1C5	10	.30
F9261G	(9112J)	D7C2	12	1.10	F9265G	(9112K)	D2C5	12	.50

**Pins**

Each			For Wrench ins.	Each	Each		For Wrench ins.		
F9455G	(914P)	D0C5	4	\$0.10	F9268G	(9110P)	D0C5	10	.10
F9266G	(916P)	D0C5	6	.10	F9269G	(9112P)	D1C9	12	.20
F9267G	(918P)	D0C5	8	.10					

**Springs**

Each			For Wrench ins.	Each	Each		For Wrench ins.		
F9456G	(914S)	D0C4	4	\$0.08	F9273G	(9112S)	D0C4	12	.08
F9271G	(918S)	D0C4	8	.08					

**CRESTOLOY**

**Pins and Springs for AC and AT Style Wrenches**

Jaws				Pins and Springs for AC and AT Style Wrenches					
Each			For Wrench ins.	Each			For Wrench ins.		
F9302G	(AC14J)	D3C3	4	\$0.50	F9316G	(AC14PS)	D0C4	4	\$0.06
F9303G	(AC16J)	D3C6	6	.55	F9317G	(AC16PS)	D0C4	6	.06
F9304G	(AC18J)	D4C5	8	.68	F9318G	(AC18PS)	D0C4	8	.06
F9305G	(AC110J)	D5C7	10	.86	F9319G	(AC110PS)	D0C4	10	.06
F9306G	(AC112J)	D8C4	12	1.26	F9320G	(AC112PS)	D1C1	12	.17
F9307G	(AC115J)	X1D25	15	1.88	F9321G	(AC115PS)	D1C1	15	.17
					F9329G	(AC118PS)	D1C3	18	.20

**Knurls—For AC and AT Style Wrenches**

Each			For Wrench ins.	Each			For Wrench ins.		
F9309G	(AC14K)	D1C3	4	\$0.20	F9312G	(AC110K)	D1C9	10	.30
F9310G	(AC16K)	D1C3	6	.20	F9313G	(AC112K)	D2C9	12	.45
F9311G	(AC18K)	D1C7	8	.26	F9314G	(AC115K)	D3C9	15	.60

All above, Loose

**For Type "A" CRESCENT Wrenches**

Jaws				Pins and Springs					
Each			For Wrench ins.	Each			For Wrench ins.		
F9275G	(A16J)	D2C9	6	\$0.45	F9288G	(A14PS)	D0C4	4	\$0.08
F9276G	(A18J)	D3C3	8	.50	F9289G	(A16PS)	D0C4	6	.08
F9277G	(A110J)	D4C7	10	.70	F9290G	(A18PS)	D0C4	8	.08
F9278G	(A112J)	D6C9	12	1.05	F9291G	(A110PS)	D0C4	10	.08
F9279G	(A115J)	D9C6	15	1.44	F9292G	(A112PS)	D1C1	12	.22
F9280G	(A118J)	X1D37	18	2.06	F9293G	(A115PS)	D1C1	15	.22
					F9294G	(A118PS)	D1C3	18	.22

**Knurls—For Type "A" Wrenches**

Each			For Wrench ins.	Each			For Wrench ins.		
F9281G	(A14K)	D1C3	4	\$0.22	F9284G	(A110K)	D1C9	10	.30
F9282G	(A16K)	D1C3	6	.22	F9285G	(A112K)	D2C9	12	.45
F9283G	(A18K)	D1C7	8	.24	F9286G	(A115K)	D3C9	15	.60
					F9287G	(A118K)	D4C5	18	.68

All above, Loose

**ADJUSTABLE WRENCHES**



**KEEN KUTTER**

**Thin Pattern**

Alloy steel frame and handle. Hardened jaws. Polished head. Silver finish web handle with hole for hanging.

**Single Head**

Each			Length, ins.	Capacity, ins.	Wt. Box, lbs.	Each
F7890GK	(K4)	X1D67	4	1/2	1/8	\$2.50
F7891GK	(K6)	X1D67★	6	3/4	1/4	2.50
F7892GK	(K8)	X1D97★	8	15/16	3/4	2.95
F7893GK	(K10)	X2D50★	10	1 1/8	1	3.75
F7894GK	(K12)	X3D67★	12	1 1/2	1 1/4	5.50

One in box



**SHAPLEIGH'S**

**Thin Jaw Type**

Forged from alloy steel. Nickel plated finish

Each			Lgth., inches	No. in a Carton	Cap., ins.	Weight ctn. lbs.	Each
F3366G	(F1)	X1D46★	6	4	3/4	1	\$2.20
F3367G	(F2)	X1D66★	8	4	15/16	2	2.50
F3368G	(F3)	X2D13	10	6	1 1/8	5 1/2	3.20
F3369G	(F4)	X3D15	12	2	1 1/2	3	4.75

**ADJUSTABLE WRENCHES**

**CRESCENT**



**CRESTOLOY**

**Chromium Plated Single End**

A newly developed steel by the makers of Crescent wrenches will withstand a strain of over twice that required to break a regular Crescent wrench; yet they are one third thinner and much lighter. Handle dull satin finish, heads polished and buffed.

Each			Lgth., ins.	Thickness of Head			Wt. Box, lbs.	▲ Each
				Cap., ins.	Thickest Point, ins.	Tip of Jaw, in.		
F7877G	(AC14)	X1D67	4	1/2	1 1/32	1/32	1/8	\$2.50
F7878G	(AC16)	X1D69★	6	3/4	1 1/32	1/32	1/4	2.55
F7879G	(AC18)	X1D97★	8	15/16	1 5/32	1/32	1/2	2.95
F7880G	(AC110)	X2D51★	10	1 1/8	1 1/16	1 1/32	3/8	3.75
F7881G	(AC112)	X3D63★	12	1 5/16	2 1/32	1 5/32	1 5/8	5.52
F7882G	(AC115)	X5D53	15	1 11/16	1 5/16	1 9/32	3 1/4	8.30
F7883G	(AC118)	X9D00	18	2 1/16	1 1/8	1 1/16	5 1/4	13.50
F7884G	(AC124)	X15D07	24	2 7/16	1 13/32	7/8	9	22.60

One in box



**ENGINEERS' ADJUSTABLE**

**Single End—Thin Jaw**

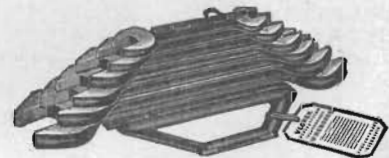
Drop forged steel handles. Hardened tool steel jaws, 4 inches to 12 inches. Side of jaws polished, balance black oil finish.

Each			Length, inches	Capacity inches	Wt. Box lbs.	▲ Each
F7871G	(AT16)	X1D33★	6	3/4	3/8	\$1.90
F7872G	(AT18)	X1D60★	8	15/16	3/4	2.25
F7873G	(AT110)	X1D96★	10	1 1/8	1 1/4	2.75
F7874G	(AT112)	X2D97★	12	1 5/16	2	4.20
F7875G	(AT115)	X4D65	15	1 11/16	4 3/8	6.60

One in box

**WRENCH SET**

**VLCHEK  
Open End**



Drop forged new "Parabolic" carbon steel, milled openings. Tempered, natural finish. Each set securely held in all-metal sidehinged positive locking container. 5 piece set, 3/16 to 3/4 inch opening.

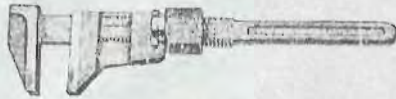
Per Set ▲ Per Set  
**F8054G (X2163) X1D20★** .....\$1.80

Loose. Wt. set 2 lbs.

# MERCHANDISE MANAGER'S SPECIAL PROMOTION

## ADJUSTABLE WRENCHES

BILLINGS & SPENCER



Ruggedly constructed—only three parts. Capable of precise adjustment. Carbon steel one-piece handle and front jaw. Carbon steel movable jaw. Long nut and sleeve. Natural rust-proof finish, with disced jaws.

Each		Lgth., ins.	Jaws Open, ins.	Wt. Box, lbs.	▲ Each
F7848G	X3D75 (B590/12)	12	2 1/4	17	\$5.62
F7849G	X4D97 (B590/15)	15	3	26	7.46
F7850G	X6D31 (B590/18)	18	4	34 1/2	9.46

Six in pkg.

## TRUECRAFT



Made in Japan

Alloy Steel

Exceeds tensile strength required for normal duty.

Fully polished on all surfaces except inside of handles.

Each	Price	In.	Box, Lbs.	Each
F7867G	.90 (F6)	6	2	\$1.39
F7870G	1.10 (F8)	8	2 1/2	1.69
F7868G	1.50 (F10)	10	5	2.25
F7869G	2.05 (F12)	12	3	3.10

One In A Box

## WRENCH SETS

BARCALO

Combination Box and Open End



12 3/4 x 11 1/4 x 6 1/2 inches. Color fast vacuum-formed plastic reinforced display board.

Four sets of 6 wrenches to fit 31 types of nuts and bolts in handy pocket pack.

Handy storage compartment in back holds supply of extra wrench sets.

Drop forged from alloy steel, chrome plated highly polished end and panels. Smooth finish sides.

Each set consists of one each

Length, inches	Opening inches Open and box ends
4 1/2	3/8
5	7/16
5 3/8	1/2
6 1/4	9/16
7	5/8
8 5/8	3/4

Counter display (No charge)

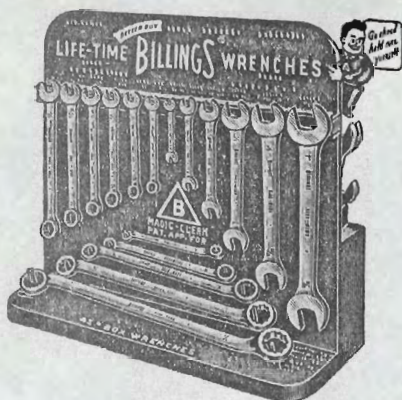
(CD1346P)

Per Set		▲ Per Set
F8030G	X14D67	\$22.60

One set in box. Wt. box 6 1/4 lbs.

# WRENCH DISPLAYS

## BILLINGS & SPENCER LIFE-TIME



### Magic Clerk

Forged from selected alloy steel. Openings are clean and accurately machined. Handles are slim and round edged. Scientifically heat treated. Heads polished. Finished with an attractive and practical over all chrome plate.

An eye catcher, with sales appeal. Attractive plywood counter display, finished in rich royal blue. Exclusive permanent magnetic device for holding wrenches, guaranteed to hold its power for a life time. Spaces properly marked for each wrench. Wire supports at bottom for box wrenches. Partitioned pockets on back for refill stock. Wrenches can be removed for inspection. Easy to set up.

Length 18 inches. Depth 8 inches. Height 24 inches

### Contents:

#### Engineers

Quantity		Openings, ins.	Length, ins.	▲ Each
4	F8303G-L1020 .....	1/4 & 5/16	3 1/2	\$0.64
4	F8323G-L1723 .....	3/8 & 7/16	4 3/4	.64
4	F8325G-L1725B .....	1/2 & 9/16	6	.74
4	F8327G-L1729 .....	5/8 & 3/4	8	1.04
4	F8329G-L1731B .....	13/16 & 7/8	9 1/2	1.46
3	F8308G-L1033C .....	15/16 & 1	9 1/2	1.72

#### 45° Box

4	F8331G-L8723 .....	3/8 & 7/16	8 1/2	.80
4	F8332G-L8725B .....	1/2 & 9/16	9	.90
4	F8333G-L8729 .....	5/8 & 3/4	11	1.12
4	F8334G-L8731B .....	13/16 & 7/8	12 5/8	.93
3	F8330G-L8033C .....	15/16 & 1	15 1/2	1.78

#### Combination

4	F8310G-L1161 .....	7/16	5 3/8	.78
4	F8311G-L1162 .....	1/2	6	.92
4	F8312G-L1163 .....	9/16	6 3/4	.98
4	F8313G-L1164 .....	5/8	7 5/8	1.08
4	F8314G-L1165 .....	11/16	8 1/2	1.14
4	F8315G-L1166 .....	3/4	9 1/2	1.30

### 66 Wrenches—3 Popular Styles

Each	<b>FX-EBC66-G X50D39</b> .....	▲ Each	<b>\$75.58</b>
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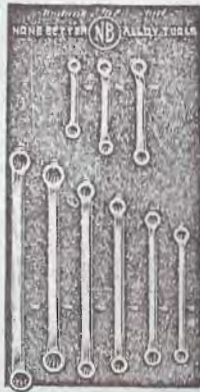
One in ctn. Wt. ctn. 36 lbs.

**WRENCHES**

NEW BRITAIN MACHINE CO.

None Better

Chrome Alloy—Polished and Lacquered



**BOX END WRENCHES**

45° Long

Each		Milled Opening inches	For U. S. S. Nut; Size Bolt, inch	For Hex Head Cap screw inch	For S. A. E. Std. Screw & Nut inch	Length inches	Weight Box, lbs.	Each
F8381G	D6C0	(NB8725B)	1/2 & 5/16	1/4 & ..	5/16 & 3/8	8 5/8	2 1/4	\$ .90
F8386G	D9C7	(NB8731B)	13/16 & 7/8	.. & 1/2	9/16 & 5/8	11 5/16	6 3/8	1.46
F8377G	X1D19	(NB8033C)	1 1/8 & 1	.. & 5/8	.. & 3/4	14 1/4	8 3/8	1.78

15° Long

F8371G	D5C6	(NB7723)	3/8 & 1/8	.. & ..	.. & 1/4	7 3/4	1 1/2	.84
F8372G	D6C0	(NB7725B)	1/2 & 9/16	1/4 & ..	5/16 & 3/8	8 3/8	2 1/4	.90

15° Short

F8368G	D5C9	(NB6725B)	1/2 & 9/16	1/4 & ..	5/16 & 3/8	4 3/8	1 1/8	.88
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Six in a box

**COMBINATION WRENCHES**

Each		Milled Opening inches	For U. S. S. Nut; Size Bolt, inch	For Hex Head Cap Screw inch	For S. A. E. Std. Screw & Nut inch	Length inches	Weight Each, ozs.	Each
F8351G	X1D01	(NB1167A)	1 3/16 & 1 5/16	..	5/8	10 3/8	9	\$ 1.52
F8352G	X1D28	(NB1168)	1 5/16 & 1 7/16	..	5/8	11	13	1.92

Six in box

# WRENCHES

## BILLINGS & SPENCER LIFE-TIME

Assured proper design, strength, lightness and long life.

Forged from selected alloy steel. Openings are clean and accurately machined. Handles are slim and round edged. Scientifically heat treated. Heads polished. Finished with an attractive and practical over all chrome plate.

### Engineers

Each		Openings Milled (Nominal), inches	For U. S. Std. Nuts; Size Bolts, inches	For Hex. Hd. Cap Screws; Dia. Screws, inches	For S. A. E. Std. Nuts; Size Bolts, inches	For Amer. Std. Reg. Nuts; Size Bolts, inches	Length (App.), inches	Thickness Head, inches	Weight, Box, lbs.	▲ Each
F8305G D6C8	(L1027)	$1\frac{9}{32}$ & $1\frac{1}{16}$	$\frac{5}{16}$ & $\frac{3}{8}$	— & —	— & —	— & —	7	$\frac{7}{32}$	$1\frac{1}{2}$	# 1.02
F8328G X1D07	(L1731A)	$\frac{3}{4}$ & $\frac{7}{8}$	— & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{7}{16}$ & $\frac{9}{16}$	$9\frac{1}{2}$	$\frac{3}{8}$	$3\frac{1}{2}$	1.60
F8307G D9C1	(L1031)	$2\frac{5}{32}$ & $\frac{7}{8}$	$\frac{7}{16}$ & $\frac{1}{2}$	— & $\frac{5}{16}$	— & $\frac{9}{16}$	— & $\frac{9}{16}$	$9\frac{1}{2}$	$2\frac{3}{64}$	6	1.36
F8309G X1D27	(L1034)	$\frac{7}{8}$ & $1\frac{1}{16}$	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{5}{8}$ & —	$\frac{9}{16}$ & $\frac{3}{4}$	$\frac{9}{16}$ & —	11	$1\frac{3}{32}$	9	1.90

Six in a box

### 45° Box

Each		Opening, inches	For U. S. S. Amer. Std. Heavy Nut, Size Bolt, in.	For Amer. Stand. Hex. Cap Screw, inches	For S. A. E. Amer. Std. Light Nut Size Bolt, in.	For Amer. Std. Regular Nut Size Bolt, in.	Length Approx., inches	Weight Box, lbs.	No. in Box	▲ Each
F8333G D7C9	(L8729)	$\frac{5}{8}$ & $\frac{3}{4}$	— & —	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{3}{8}$ & $\frac{7}{16}$	11	$3\frac{1}{2}$	6	\$ 1.18

Six in a box

## WRENCH DISPLAY ASSORTMENTS

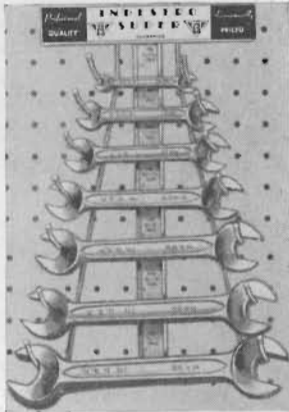
INDESTRO SELECT STEEL

Drop-Forged—Scientifically Heat-Treated

Clean, Accurate Broaching—Brightly Plated—Polished Heads

Servatool displays include metal hanger with pricing strips—can be mounted on perforated board at hanger ends or hung anywhere with hanger brackets furnished.

### OPEN END WRENCHES



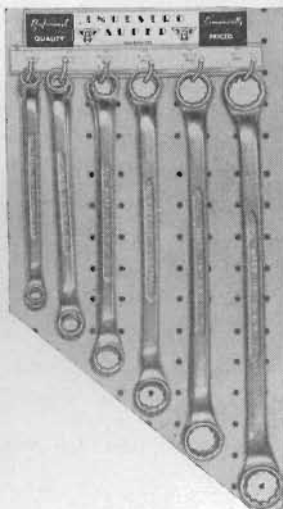
#### Servatool 21-Piece Assortment

Contents:

Qty.	No.	Opening, in.	▲Each
3	F8130G (P20)	1/4 & 3/16	\$0.53
3	F8131G (P723)	3/8 & 7/16	.61
3	F8132G (P725B)	1/2 & 9/16	.72
3	F8133G (P27)	19/32 & 11/16	.83
3	F8134G (P729)	5/8 & 3/4	.95
3	F8135G (P731B)	13/16 & 7/8	1.19
3	F8136G (P33C)	15/16 & 1	1.47

Per Display **FX-5304-G** **X13D61** ..... \$20.86  
 One Display in box. Wt. box 7 lbs.

### BOX WRENCHES



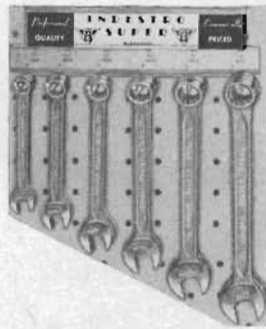
#### Servatool 14-Piece Assortment

Contents:

Qty.	No.	Opening, in.	▲Each
3	F8293G (911)	3/8 & 7/16	\$0.76
3	F8294G (912)	1/2 & 9/16	.86
2	F8295G (913)	5/8 & 11/16	.99
2	F8296G (914)	3/4 & 25/32	1.15
2	F8297G (915)	13/16 & 7/8	1.37
2	F8298G (916)	15/16 & 1	1.82

Per Display **FX-5305-G** **X10D91** ..... \$16.78  
 One display in box. Wt. box 10 lbs.

### COMBINATION WRENCHES

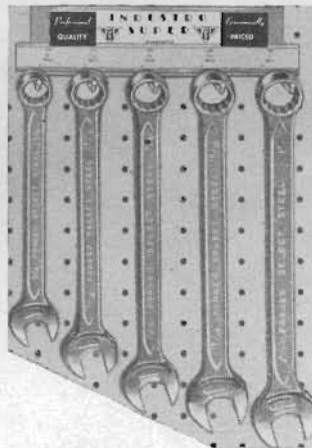


#### Servatool 18-Piece Assortment

Contents:

Qty.	No.	Opening, in.	Each
3	F7319G (1071)	3/8	\$0.64
3	F7320G (1072)	7/16	.69
3	F7321G (1073)	1/2	.73
3	F7322G (1074)	9/16	.84
3	F7323G (1075)	5/8	.97
3	F7324G (1076)	11/16	1.11

Per Display **FX-5312-G** **X10D58** ..... \$16.26  
 One display in box. Wt. box 5 lbs.



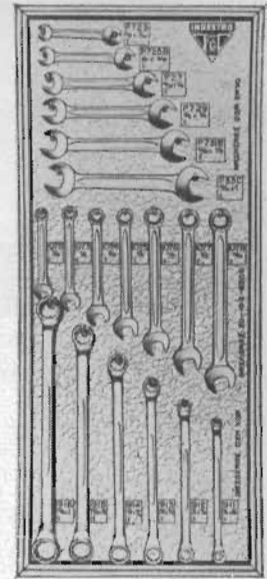
#### Servatool 10-Piece Assortment

Contents:

Qty.	No.	Opening, in.	Each
2	F7325G (1077)	3/4	\$1.25
2	F7326G (1078)	13/16	1.52
2	F7327G (1079)	7/8	1.67
2	F7328G (1080)	15/16	1.84
2	F7329G (1081)	1	2.06

Per Display **FX-5314-G** **X11D70** ..... \$18.01  
 One display in box. Wt. box 5 lbs.

### OPEN END, BOX AND COMBINATION WRENCHES



For use with counter type Servatool sales-maker or individually on walls, posts or islands.

All wood construction, size 13x31 ins.; finished in yellow and red.

Contents:

#### Open End Wrenches

Qty.	No.	Opening, in.	Each
3	F8131G (P723)	3/8 & 7/16	\$0.61
3	F8132G (P725B)	1/2 & 9/16	.72
3	F8133G (P27)	19/32 & 11/16	.83
3	F8134G (P729)	5/8 & 3/4	.95
3	F8135G (P731B)	13/16 & 7/8	1.19
3	F8136G (P33C)	15/16 & 1	1.47

#### Combination Wrenches

3	F7320G (1072)	7/16	.69
3	F7321G (1073)	1/2	.73
3	F7322G (1074)	9/16	.84
3	F7323G (1075)	5/8	.97
3	F7324G (1076)	11/16	1.11
3	F7325G (1077)	3/4	1.25
3	F7326G (1078)	13/16	1.52

#### 45° Box End Wrenches

3	F8293G (911)	3/8 & 7/16	.76
3	F8294G (912)	1/2 & 9/16	.86
3	F8295G (913)	5/8 & 11/16	.99
3	F8296G (914)	3/4 & 25/32	1.15
3	F8297G (915)	13/16 & 7/8	1.37
3	F8298G (916)	15/16 & 1	1.82

Per Display **+5046W-G** **X40D11** ..... \$62.71  
 One display in ctn. Wt. ctn. 27 lbs.

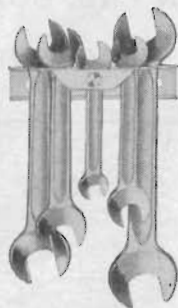
Items marked † not carried in stock. Can only be furnished by shipping direct from factory, F. O. B., Chicago, Ill.

## WRENCH SETS

### INDESTRO SELECT STEEL

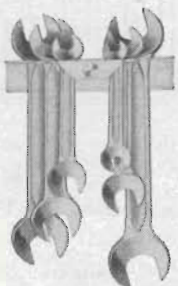
Drop-Forged—Scientifically Heat-Treated  
Clean, Accurate Broaching—Brightly Plated—Polished Heads

#### OPEN END



**5 Piece Set**  
Range  $\frac{5}{16}$  to  $\frac{3}{4}$  in.

Per Set **F8059G** (0930-5W) **X1D37**..... \$2.15  
Six sets in box. Wt. box  $5\frac{7}{8}$  lbs.



**6 Piece Set**  
Range  $\frac{5}{16}$  to  $\frac{7}{8}$  in.

Per Set **F8057G** (0930-6W) **X1D83**..... \$2.86  
Six sets in box. Wt. box  $8\frac{3}{4}$  lbs.

#### IGNITION

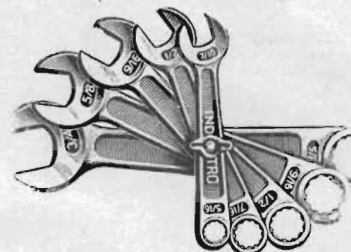


**4 Piece Set**  
15° and 60° Openings

Wrench Sizes  $\frac{7}{32}$  and  $\frac{1}{4}$ ,  $\frac{15}{64}$  and  $\frac{19}{64}$ ,  $\frac{5}{16}$  and  $\frac{3}{8}$ ,  $\frac{11}{32}$  and  $\frac{3}{8}$  in.  
Mounted on colorful merchandising card.

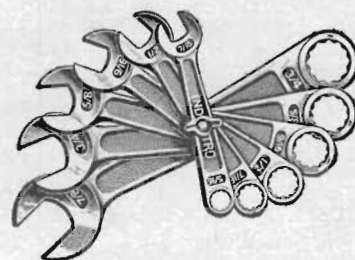
Per Set **F8061G** (884) **X1D65**..... \$2.58  
Six sets in box. Wt. box 1 lb.

#### COMBINATION



**5 Piece Set**  
Range  $\frac{5}{16}$  to  $\frac{3}{4}$  in.

Per Set **F8007G** (0900-5A) **X1D41**..... \$2.21  
Twelve sets in box. Wt. box 9 lbs.



**6 Piece Set**  
Range  $\frac{5}{16}$  to  $\frac{7}{8}$  in.

Per Set **F8008G** (0900-6A) **X1D83**..... \$2.86  
Twelve sets in box. Wt. box 13 lbs.

#### UTILITY



**8 Piece Set**

For ignition systems, carburetors, radio, television and anywhere the application of small tools is required.

Contains:

- 4—Open End Wrenches, one each  $\frac{1}{4}$  and  $\frac{7}{32}$ ,  $\frac{5}{64}$  and  $\frac{15}{64}$ ,  $\frac{5}{16}$  and  $\frac{9}{32}$ ,  $\frac{11}{32}$  and  $\frac{3}{8}$  in.
- 1—Midget Plier
- 1—Shockproof Midget Screw Driver
- 1—Tungsten Ignition File
- 1—Swedish Steel Feeler Gauge with Blades .012, .015, .018, .020 and .025.

In attractive enameled box.

Per Set **F8062G** (889) **X3D73**..... \$5.84  
One set in box. Wt. box 1 lb.



**WRENCH SETS**

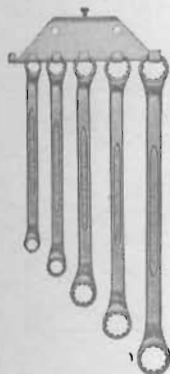
**INDESTRO SELECT STEEL**

**Drop-Forged—Scientifically Heat-Treated**

**Clean, Accurate Broaching—Brightly Plated—Polished Heads**

Klip-Tite sets have utility wall brackets designed so wrenches can be hung or removed speedily. Two holes in red enameled bracket for easy attachment to wall.

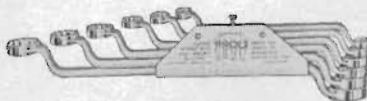
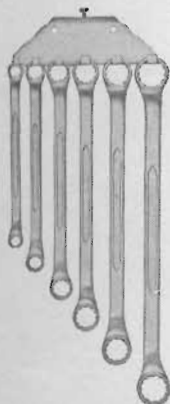
**45° LONG BOX**



**5 Piece Klip-Tite Set**

12 Point Opening  
Range  $\frac{3}{8}$  to  $\frac{7}{8}$  in.

Per Set **F7959G (0910-5W) X2D77**.....\$4.33  
Six sets in box. Wt. box 13 lbs.

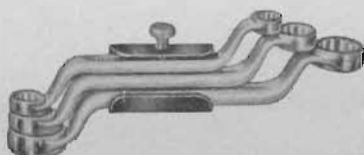


**6 Piece Klip-Tite Set**

12 Point Opening  
Range  $\frac{3}{8}$  to 1 in.

Per Set **F8025G (0910-6W) X3D71**.....\$5.79  
Six sets in box. Wt. box 18 lbs.

**45° SHORT BOX**

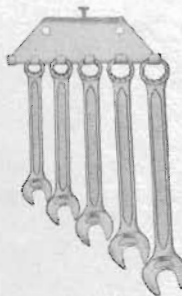


**3 Piece Set**

12 Point Opening  
Range  $\frac{3}{8}$  to  $1\frac{1}{16}$  in.

Per Set **F8026G (935-3K) X1D37**.....\$2.15  
Six sets in box. Wt. box  $3\frac{1}{4}$  lbs.

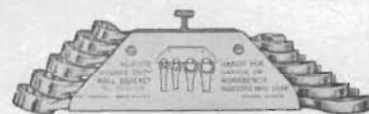
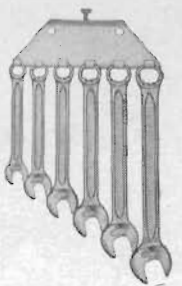
**COMBINATION**



**5 Piece Klip-Tite Set**

Range  $\frac{1}{16}$  to  $1\frac{1}{16}$  in.

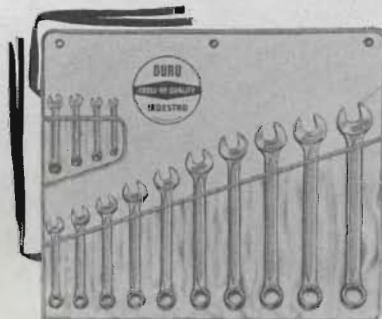
Per Set **F8032G (01070-05W) X2D27**.....\$3.54  
Six sets in box. Wt. box  $7\frac{1}{2}$  lbs.



**6 Piece Klip-Tite Set**

Range  $\frac{1}{16}$  to  $\frac{3}{4}$  in.

Per Set **F7967G (01070-6W) X2D88**.....\$4.50  
Six sets in box. Wt. box 18 lbs.



**14 Piece Set**

In colorful, modern, reinforced vinyl plastic tool roll with clear plastic pockets.

Contains the following sizes:  $\frac{1}{4}$ ,  $\frac{5}{16}$ ,  $\frac{3}{8}$ ,  $\frac{7}{16}$ ,  $\frac{1}{2}$ ,  $\frac{9}{16}$ ,  $\frac{5}{8}$ ,  $1\frac{1}{16}$ ,  $\frac{3}{4}$ ,  $1\frac{1}{8}$ ,  $\frac{7}{8}$ ,  $1\frac{5}{16}$ , 1,  $1\frac{1}{16}$ .

Per Set **F8067G (1068) X13D04**.....\$20.38  
One set in a box. Wt. box  $6\frac{1}{4}$  lbs.

**WRENCHES**

**INDESTRO SELECT STEEL**

Drop-Forged—Scientifically Heat-Treated, Clean  
Accurate Broaching—Brightly Plated—Polished Heads

**OPEN END**



Each			Opening, in.	Wt. Box lbs.	▲Each
F8130G	(P20)	D3C6	1/4 & 5/16	1/4	\$0.55
F8131G	(P723)	D4C1	3/8 & 7/16	1/2	.64
F8132G	(P725B)	D4C8	1/2 & 9/16	1	.75
F8133G	(P27)	D5C6	19/32 & 11/16	1 1/2	.86
F8134G	(P729)	D6C4	5/8 & 3/4	2	1.00
F8135G	(P31B)	D8C4	13/16 & 7/8	3	1.31
F8136G	(P33C)	X1 D01	15/16 & 1	4 3/4	1.58

Six in box

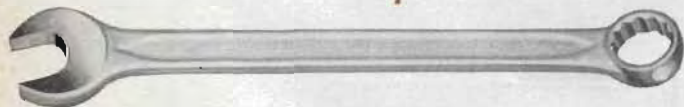
**BOX**



Each			Opening, in.	Wt. Box lbs.	▲Each
F8293G	(911)	D5C1	3/8 & 7/16	1	\$0.79
F8294G	(912)	D5C8	1/2 & 9/16	1 1/2	.90
F8295G	(913)	D6C7	5/8 & 11/16	2	1.04
F8296G	(914)	D7C7	3/4 & 25/32	2 3/4	1.20
F8297G	(915)	D9C2	13/16 & 7/8	3 3/4	1.44
F8298G	(916)	X1 D23	15/16 & 1	5	1.93

Six in Box

**COMBINATION**



Each			Opening, in.	Wt. Box lbs.	Each
F7319G	(1071)	D4C4	3/8	1/2	\$0.69
F7320G	(1072)	D4C7	7/16	1/2	.73
F7321G	(1073)	D5C0	1/2	3/4	.77
F7322G	(1074)	D5C6	9/16	1 1/4	.88
F7323G	(1075)	D6C6	5/8	1 1/2	1.02
F7324G	(1076)	D7C5	11/16	2	1.17
F7325G	(1077)	D8C4	3/4	2 1/2	1.31
F7326G	(1078)	X1 D01	13/16	3	1.58
F7327G	(1079)	X1 D12	7/8	4	1.75
F7328G	(1080)	X1 D24	15/16	4 5/8	1.94
F7329G	(1081)	X1 D39	1	5	2.17

Six in box

**WRENCH AND TOOL SETS**

**INDESTRO**



**47 Piece Set**

Contents:

**1/2 in. Drive Sockets & Fittings**

- 10—Sockets, range 7/16 to 1 in.
- 1—Reversible Ratchet
- 1—Swing Handle, 15 1/2 in.
- 1—Cross Bar, 9 in.

**1/4 in. Drive Sockets & Fittings**

In transparent plastic box

- 8—Sockets, range 1/2 to 3/8 in.
- 1—Extension 3 3/4 in.
- 1—L Handle, 4 in.
- 1—Spinner Handle, 6 1/2 in.

**Open End Wrenches**

5 Pieces—10 sizes range 3/16 to 3/4 in.

**45° Long Box End Wrenches**

5 Pieces—10 sizes range 3/8 to 7/8 in.

**Allen Type Wrenches**

7 Pieces set—range 3/64 to 1/4 in.

- 1—Ignition and Hobbyist Set
  - 3—Midget End Wrenches
  - 1—Ignition File
  - 1—Feeler Gauge
  - 1—Pocket Klip Screw Driver
- Red Steel Box 19x7 1/2x6 1/2 in.

Per Set

Per Set

**FX-80228A-G X22D50** .....\$35.25

One set in ctn. Wt. ctn. 18 lbs.

# MERCHANDISE MANAGER'S SPECIAL PROMOTION

## SOCKET WRENCH SOCKETS NEW BRITAIN MACHINE CO'S. "NONE BETTER"

Chrome Alloy—Polished and Lacquered

1/2-inch Square Drive  
Straight Thin Wall  
12-Point—Double Hex

Extra Deep

Height Over All 3 1/2 inches



Each	Size in.	Wt. ctr. lbs.	▲ Each
F8503G X1D27 (TD34)	1 1/16	4 1/2	1.90
F8504G X1D27 (TD36)	1 1/8	5	1.90

Five in ctn.

F8479G D4C1 (T1219)	1 3/32	1	.62
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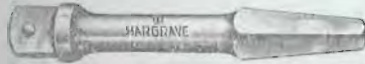
## SOCKET WRENCH BRACE ADAPTERS HARGRAVE

For Socket with 1/2-inch Drive

Can be used in a brace with any type 1/2-inch drive socket.

Forged steel, heat treated. Nickel plated finish

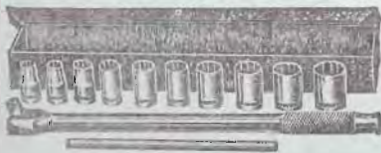
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Each	▲ Each
F8277G X1D88	\$2.82

Three in box. Wt. box 9 ozs.

## SOCKET WRENCH SETS



12 Piece Set—  
1/2 inch Square Drive

Straight Thin Wall Sockets

Chrome alloy, triple chrome plate.

Black damaskened finished steel box 16x2 3/4 x 1 1/2 inches.

Consists of:

10—12 point sockets, one each 1/16, 1/8, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8 and 15/16 inch.

1—Flexible handle 15 inches long.

1—Cross bar 8 inches long.

(6012)

Per. Set	▲ Per Set
F8039G X8D00	\$12.00

One set in box. Wt. box 5 lbs.

## SOCKETS AND DRIVE PARTS DISPLAYS

NEW BRITAIN MACHINE CO.

"NONE BETTER"

Chrome Alloy—Polished and Lacquered

Display Panel

Sturdy, light-weight Masonite panel 1 x 2 feet. Large enough for attention value and handy enough to permit extreme flexibility of arrangements. Rich green background sets off the lustre of the tools. White space above each tool for prices.



Contains 38 sockets and drive tools as below:

Quantity	No.	Description	List Each
2	F8415G-S24	5-inch Socket Extension	\$1.26
2	F8416G-S25	10-inch Socket Extension	1.52
2	F8417G-S30	8-inch Cross Bar	.38
2	F8419G-S41	Reversible Ratchet	6.32
2	F8421G-S53	15-inch Flex Handle	3.58
2	F8422G-S60	Universal Joint	2.14
2	F8423G-S70	Slide Tee Handle	1.80
1	T816	1/2-inch 8-Point Socket	.80
1	T818	9/16-inch 8-Point Socket	.80
1	T820	5/8-inch 8-Point Socket	.80
2	F8476G-T1214	1/16-inch 12-Point Socket	.58
2	F8477G-T1216	1/8-inch 12-Point Socket	.58
2	F8478G-T1218	9/16-inch 12-Point Socket	.62
2	F8479G-T1219	1/2-inch 12-Point Socket	.62
2	F8480G-T1220	5/8-inch 12-Point Socket	.62
2	F8482G-T1222	11/16-inch 12-Point Socket	.70
2	F8483G-T1224	3/4-inch 12-Point Socket	.78
2	F8485G-T1226	13/16-inch 12-Point Socket	.82
2	F8486G-T1228	7/8-inch 12-Point Socket	.90
2	F8487G-T1230	15/16-inch 12-Point Socket	.94
2	F8489G-T1232	1-inch 12-Point Socket	.98

1/2-inch Square Drive

Each	▲ Each
FX-NB6263-G X34D58	\$51.88

One in shipping container. Wt. container 23 lbs.

## BRACE SOCKET WRENCHES

HARGRAVE  
Square Opening

For U. S. Standard nut sizes

Forged steel, heat treated. Shoulder prevents nut working far up into the wrench. Open shank prevents clogging and enable use where a brace will not go.



Each	Size Opening, inch	Weight Box, lbs.	Each
F8292G X1D28 (1560)	1 1/16	1 1/2	\$1.92

Six in box

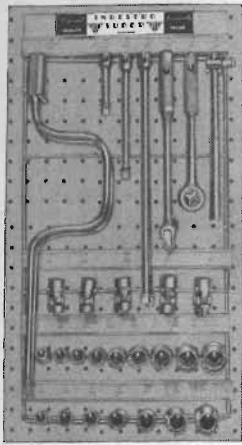
**SOCKET WRENCH DISPLAY ASSORTMENTS**

**INDESTRO CHROME ALLOY**

**Chrome Alloy Steel—Scientifically Heat-Treated—Rich Chrome Finish  
Thin Wall, Hot Broached, Four-Way Lock-On Sockets**

Servatool displays include metal hanger with pricing strips—can be mounted on perforated board at hanger ends or hung anywhere with hanger brackets furnished.

**3/8 IN. SQUARE DRIVE**



**Servatool 43 Piece Assortment**

Size 10x17 inches.

Contains:

Qty.	No.	Item	Size in.	Each
2	F8392G (2730)	Extension	3	\$0.96
2	F8393G (2733)	Extension	6	1.28
2	F8394G (2735)	Extension	12	1.55
1	(2763)	Slide T Handle	8	
2	F8396G (2781)	Swing Head Handle	9	2.67
2	F8401G (2785)	Speeder	16 1/2	2.10
1	F8397G (2797)	Universal Joint	1 13/16	2.29
2	F8414G (2775)	Reversible Ratchet	8	5.65

**6 Point Sockets**

2	F8431G (2712)		3/8 in.	.54
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**12 Point Sockets**

2	F8432G (2714)		7/16	.54
2	F8433G (2716)		1/2	.54
2	F8434G (2718)		9/16	.54
2	F8435G (2720)		5/8	.54
2	F8436G (2722)		11/16	.61
2	F8437G (2724)		3/4	.63
2	F8438G (2726)		13/16	.77
2	F8439G (2728)		7/8	.88

**6 Point Universal Joint Sockets**

1	F8449G (2714UV)		7/16	2.31
1	F8450G (2716UV)		1/2	2.31
1	F8451G (2718UV)		9/16	2.31
1	F8452G (2720UV)		5/8	2.31

**12 Point Deep Sockets**

1	F8442G (2742)		7/16	.79
1	F8443G (2743)		1/2	.79
1	F8444G (2744)		9/16	.86
1	F8445G (2745)		5/8	.91
1	F8446G (2746)		11/16	.99
1	F8447G (2747)		3/4	1.04
1	F8448G (2748)		13/16	1.24

Per Asst. **FX-5310-G X40D91** Per Asst. \$59.07

One Asst. in box. Wt. box 10 lbs.

**1/2 IN. SQUARE DRIVE**



**Servatool 14-Piece Socket Assortment**

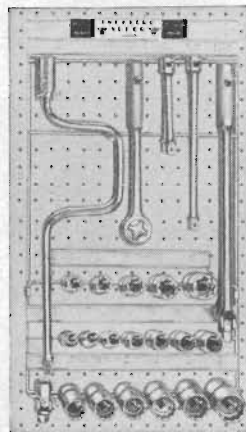
Size 8 1/2 x 5 inches

Contents:

Qty.	No.	Size in.	Each
2	F8495G (3020)	5/8	\$1.28
2	F8496G (3022)	11/16	1.28
2	F8497G (3024)	3/4	1.28
2	F8499G (3026)	13/16	1.44
2	F8500G (3028)	7/8	1.58
2	F8501G (3030)	15/16	1.71
2	F8502G (3032)	1	1.78

Per Display **FX-5320-G X14D20** Per Display \$20.63

One display in box. Wt. box 7 lbs.



**Servatool 34-Piece Assortment**

Size 12x22 in.

Content:

Qty.	No.	Item	Size in.	Each
2	F8415G (3216)	Extension	5 1/2	\$1.31
2	F8416G (3211)	Extension	10	1.62
2	F8421G (3222)	Swing Handle	15 1/2	4.06
2	F8426G (3208)	Long Speeder	19	2.17
2	F8419G (3275)	Reversible Ratchet		6.59
1	F8422G (3217)	Universal Joint		2.23

**12 Point Sockets**

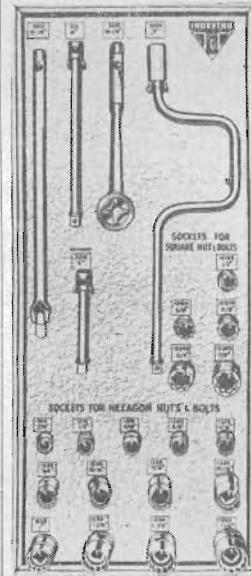
Qty.	No.	Size in.	Each
2	F8476G (1214)	7/16	\$0.59
2	F8477G (1216)	1/2	.59
2	F8478G (1218)	9/16	.63
2	F8480G (1220)	5/8	.63
2	F8482G (1222)	11/16	.74
2	F8483G (1224)	3/4	.81
2	F8485G (1226)	13/16	.86
2	F8486G (1228)	7/8	.94
2	F8487G (1230)	15/16	.96
2	F8489G (1232)	1	1.04
1	F8490G (1234)	1 1/16	1.14
1	F8491G (1236)	1 1/8	1.24
1	F8492G (1240)	1 1/4	1.28

Per Display **FX-5306-G X36D76** Per Display \$53.12

One display in box. Wt. box 22 lbs.

**1/2 IN. SQUARE DRIVE**

**46-Piece Assortment Display Board**



For use with counter type Serva-Tool salesman or individually on walls, posts or islands.

All wood construction, size 13x31 in., finished in yellow and red.

Complete with Sockets, Handles and Fittings as follows:

**Hexagon Sockets—12 Point**

Qty.	No.	Size in.	Each
2	F8476G (1214)	7/16	\$0.59
2	F8477G (1216)	1/2	.59
2	F8478G (1218)	9/16	.63
2	F8480G (1220)	5/8	.63
2	F8482G (1222)	11/16	.74
2	F8483G (1224)	3/4	.81
2	F8485G (1226)	13/16	.86
2	F8486G (1228)	7/8	.94
2	F8487G (1230)	15/16	.96
2	F8489G (1232)	1	1.04
2	F8490G (1234)	1 1/16	1.14
2	F8491G (1236)	1 1/8	1.24
2	F8492G (1240)	1 1/4	1.28

**Square Sockets—8 Point**

2	(1216S)	1/2	.84 1/2
2	(1218S)	9/16	.84 1/2
2	(1220S)	5/8	.84 1/2
2	(1224S)	3/4	.99
2	(1228S)	7/8	1.09

**Handles and Fittings**

Qty.	No.	Item	Size in.	Each
2	F8415G (3216)	Extension	5 1/2	\$1.31
2	F8416G (3211)	Extension	10	1.62
2	F8421G (3222)	Swing Handle	15 1/2	4.06
2	F8426G (3208)	Speeder	19	2.17
2	(3201)	Reversible Ratchet	10 1/2	6.59

Per Display **FX-5048W-G X42D47** Per Display \$61.08

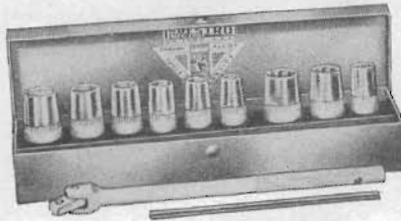
One display in ctn. Wt. ctn. 29 lbs.

**SOCKET WRENCH SETS**

**INDESTRO CHROME ALLOY**

**Chrome Alloy Steel—Scientifically Heat-Treated—Rich Chrome Finish  
Thin Wall, Hot Broached, Four-Way Lock-On Sockets**

**1/4 IN. SQUARE DRIVE**



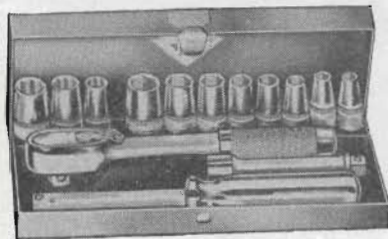
**11 Piece Set**

Contents:

- 6—Hexagon 6 point sockets, one each 1/4, 9/32, 5/16, 11/32, 3/8, 7/16 in.
- 3—Square 8 Point sockets, one each 1/4, 5/16, 3/8 in.
- 1—Swing Head Handle, 6 in.
- 1—Cross bar 4 in.
- Red steel box 6 7/8 x 2 x 1 in.

Per Set		Per Set
<b>F8040G</b>	(7600) <b>X3D52</b> .....	\$5.50

One set in box. Wt. box 1 lb.



**14 Piece Set**

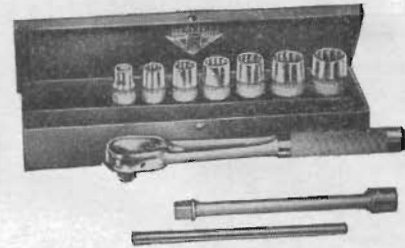
Contents:

- 8—Hexagon 6 Point Sockets, one each 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16 in.
- 3—Square 8 Point Sockets, one each 1/4, 5/16, 3/8 in.
- 1—Reversible Ratchet
- 1—Extension 3 in.
- 1—Spinner Handle 6 in.
- Red steel box 6 3/8 x 2 3/4 x 1 in.

Per Set		Per Set
<b>F8046G</b>	(7602) <b>X7D33</b> .....	\$11.46

One set in box. Wt. box 2 lbs.

**3/8 IN. SQUARE DRIVE**



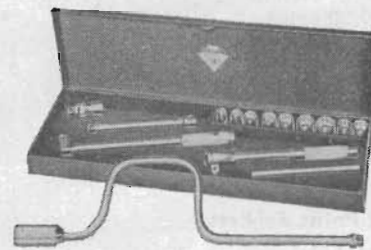
**11 Piece Set**

Contents:

- 1—Hexagon 6 Point Socket 3/8 in.
- 6—Hexagon 12 Point Sockets, one each 7/16, 1/2, 9/16, 5/8, 11/16, 3/4 in.
- 1—Reversible Ratchet
- 1—Socket Extension 6 in.
- 1—Swing Head Handle 9 in.
- 1—Cross Bar 5 1/2 in.
- Red steel box 9 3/4 x 3 3/4 x 1 1/4 in.

Per Set		Per Set
<b>F7972G</b>	(7701) <b>X9D77</b> .....	\$15.28

One set in box. Wt. box 3 1/2 lbs.



**15 Piece Set**

Contents:

- 1—Hexagon 6 Point Socket 3/8 in.
- 6—Hexagon 6 Point Sockets, one each 7/16, 1/2, 9/16, 5/8, 11/16, 3/4 in.
- 2—Square 8 Point Sockets, one each 7/16, 1/2 in.
- 1—Extension 6 in.
- 1—Universal Joint
- 1—Cross Bar 5 1/2 in.
- 1—Swing Head Handle 9 in.
- 1—Speeder 16 in.
- 1—Reversible Ratchet
- Red steel box 17 1/4 x 5 1/4 x 1 1/4 in.

Per Set		Per Set
<b>F8047G</b>	(7702) <b>X14D93</b> .....	\$23.34

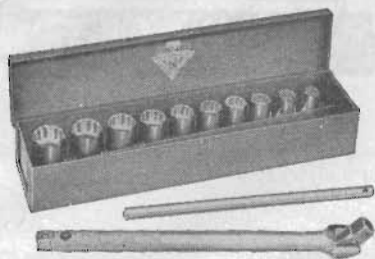
One set in box. Wt. box 6 lbs.

**SOCKET WRENCH SETS**

**INDESTRO CHROME ALLOY**

**Chrome Alloy Steel—Scientifically Heat-Treated—Rich Chrome Finish  
Thin Wall, Hot Broached, Four-Way Lock-On Sockets**

**1/2 IN. SQUARE DRIVE**

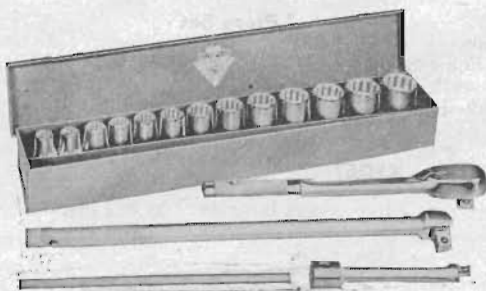


**12 Piece Set**

Contents:

- 10—Hexagon 12 Point Sockets, one each 1/16, 1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 13/16, 7/8, 15/16, 1 in.
- 1—Swing Head Handle 11 1/4 in.
- 1—Cross Bar, 9 in.
- Red steel box 12 1/4 x 2 3/4 x 2 in.

Per Set **F8049G (7803) X8D00**..... Per Set \$12.50  
One set in box. Wt. box 5 lbs.



**17 Piece Set**

Contents:

- 13—Hexagon 12 Point Sockets, one each, 1/16, 1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8 in.
- 1—Extension 5 1/2 in.
- 1—Swing Head Handle 15 1/2 in.
- 1—Cross Bar 9 in.
- 1—Reversible Ratchet
- Red steel box 16 1/4 x 2 3/4 x 2 1/8 in.

Per Set **F8048G (7805) X16D20**..... Per Set \$25.22  
One set in box. Wt. box 8 1/2 lbs.



**18 Piece Set**

Contents:

- 13—Hexagon 12 Point Sockets, one each, 1/16, 1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8 in.
- 1—Swing Head Handle, 15 1/2 in.
- 1—Cross Bar, 9 in.
- 1—Reversible Ratchet
- 2—Extensions, one each 5 1/2 in. and 10 in.
- Red steel box 18 1/16 x 5 7/8 x 3 1/2 in.

Per Set **FX-7806-G X18D74**..... Per Set \$29.30  
One set in ctn. Wt. ctn. 11 lbs.

**1/4 AND 1/2 IN. SQUARE DRIVE**



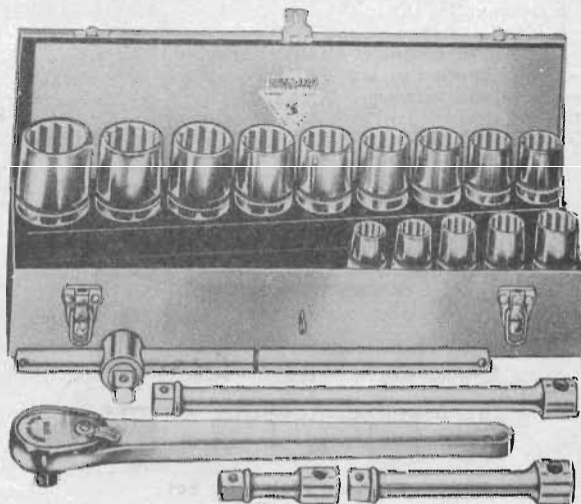
**30 Piece Set**

Contents:

- 14—Hexagon 12 Point Sockets, one each 1/16, 1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8 in.
- 1—Speeder, 19 in.
- 1—Swing Head Handle 15 1/2 in.
- 1—Cross Bar, 9 in.
- 1—Reversible Ratchet
- 1—Extension, 5 1/2 in.
- 6—Hexagon 6 Point Sockets, one each 1/4, 5/16, 3/8, 1/2, 5/8, 3/4
- 3—Square 8 Point Sockets, one each 1/4, 5/16, 3/8 in.
- 1—Swing handle, 6 in.
- 1—Cross Bar, 4 in.
- Red steel box 19 x 6 5/8 x 6 in.

Per Set **FX-7811-G X25D27**..... Per Set \$39.51  
One set in ctn. Wt. ctn. 16 lbs.

**3/4 IN. SQUARE DRIVE**



**19 Piece Set**

Contents:

- 14—Hexagon 12 Point Sockets, one each 1, 1 1/16, 1 1/8, 1 1/4, 1 5/16, 1 3/8, 1 7/8, 1 1/2, 1 5/8, 1 11/16, 1 3/4, 1 13/16, 1 7/8 and 2 in.
- 3—Extensions, one each 4, 8 and 16 in.
- 1—Slide T handle 18 in.
- 1—Reversible Ratchet 18 in.
- Red steel box 22 1/2 x 6 1/4 x 3 1/2 in.

Per Set **FX-7910-G X50D05**..... Per Set \$78.25  
One set in ctn. Wt. ctn. 37 lbs.

**SOCKET WRENCH SETS**  
INDESTRO SELECT STEEL

Drop-Forged—Scientifically Heat-Treated—Brightly Plated

**1/4 IN. HEX DRIVE**



**6 Piece Set**

Contents:

- 5—Sockets, one each 1/4, 5/16, 11/32, 3/8 and 7/16 in.
- 1—Combination spinner-extension-screw driver handle, of shock-proof tenite II U.L. approved.
- Sockets held on Handle.

Per Set **F8044G (360) D7C8**..... Per Set \$1.23  
Twelve in box. Wt. box 3 lbs.

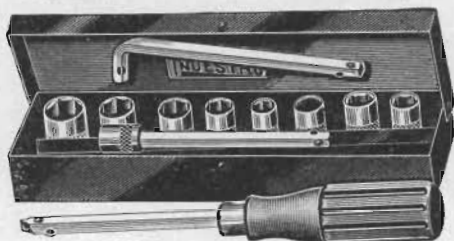


**7 Piece Set**

Contents:

- 5—6 Point Hexagon sockets, one each 1/4, 5/16, 11/32, 3/8 and 7/16 in.
- 1—4 Point Square Socket, 1/4 in.
- 1—Round Knurled Socket, 3/8 in.
- 1—L handle, 4 in.
- Red baked enamel case.

Per Set **F7993G (350) D6C6**..... Per Set \$1.03  
Twenty-four sets in ctn. Wt. ctn. 7 1/2 lbs.



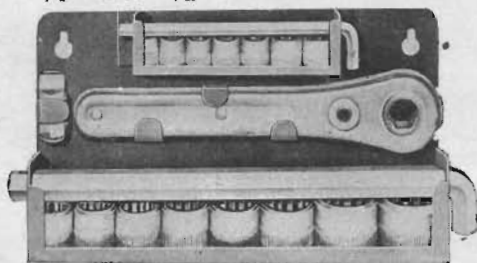
**11 Piece Set**

Contents:

- 5—6 Point Hex Sockets, one each 1/4, 5/16, 3/8, 7/16, 1/2 in.
- 2—4 Point Square Sockets, one each 1/4 and 5/16 in.
- 1—Extension 3 3/4 in.
- 1—L Handle, 4 in.
- 1—Combination, spinner-screwdriver handle.
- 1—Round knurled socket, 3/8 in.
- Red baked enamel case.

Per Set **F8045G (367) X2D08**..... Per Set \$3.25  
One set in box. Wt. box 3/4 lb.

**1/4 AND 1/2 IN. HEX DRIVE**



**19 Piece Wall Klip Set**

Contents:

- 1/4-Inch Drive**
- 5—6 point sockets, one each 1/4, 5/16, 11/32, 3/8, 7/16 in.
- 2—4 point square sockets, one each 1/4 and 5/16 in.
- 1—L handle, 4 in.
- 1/2-Inch Drive**
- 8—12 point sockets, one each 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 7/8, 15/16 in.
- 1—Ratchet Handle
- 1—L Handle
- 1—Screw Driver Adaptor
- Red baked enamel case with wall slots.

Per Set **F7962G (1454) X3D48**..... Per Set \$5.40  
Three sets in box. Wt. box 2 3/4 lbs.

**3/8 IN. HEX DRIVE**



**10 Piece Set**

Contents:

- 9—6 point sockets, one each 9/32, 5/16, 11/32, 3/8, 7/16, 15/32, 1/2, 9/16, 5/8 in.
- 1—L Handle, 6 in.
- Red baked enamel case

Per Set **F8043G (2104) X1D40**..... Per Set \$2.19  
Twelve sets in box. Wt. box 10 lbs.

**1/2 IN. HEX DRIVE**



**7 Piece Set**

Contents:

- 6—12 Point Sockets, one each 1/2, 9/16, 5/8, 11/16, 3/4, 7/8 in.
- 1—L handle, 6 1/2 in.
- Red baked enamel case holds sockets securely.

Per Set **F8021G (1351) X1D57**..... Per Set \$2.46  
Three sets in box. Wt. box 3 3/4 lbs.

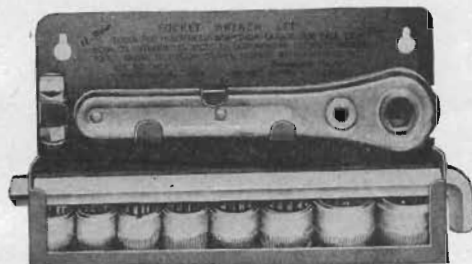


**8 Piece Set**

Contents:

- 7—12 Point Sockets, one each 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 7/8 in.
- 1—L handle, 6 1/2 in.
- Sockets held on L handle.

Per Set **F7994G (1349) X1D39**..... Per Set \$2.17  
6 Sets in box. Wt. box 6 1/4 lbs.



**11 Piece Wall Klip Set**

Contents:

- 8—12 Point Sockets, one each 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 7/8, and 15/16 in.
- 1—Ratchet Handle
- 1—L Handle
- 1—Screw Driver Adaptor
- Red baked enamel case with wall slots.

Per Set **F7961G (1453) X2D97**..... Per Set \$4.65  
Three in box, Wt. box 7 1/2 lbs

## SOCKET WRENCH ATTACHMENTS

INDESTRO CHROME ALLOY

Chrome Alloy Steel—Scientifically Heat-Treated—Rich Chrome Finish  
Thin Wall, Hot Broached, Four-Way Lock-On Sockets

3/8 IN. SQUARE DRIVE

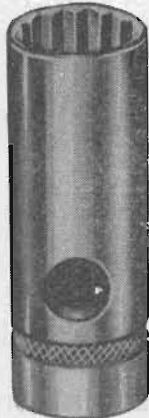
### REGULAR SOCKETS



Each		Size in.	Point	Wt. Box lbs.	Each
F3431G (2712)	D3C6	3/8	6	1/4	\$0.56
F3432G (2714)	D3C6	7/16	12	1/4	.56
F8433G (2716)	D3C6	1/2	12	1/4	.56
F8434G (2718)	D3C6	9/16	12	1/2	.56
F8435G (2720)	D3C6	5/8	12	1/2	.56
F8436G (2722)	D4C1	11/16	12	3/4	.64
F8437G (2724)	D4C2	3/4	12	3/4	.66
F8438G (2726)	D5C2	13/16	12	3/4	.80
F8439G (2728)	D5C9	7/8	12	1	.92

Six in box.

### DEEP SOCKETS



Each		Size in.	Point	Wt. Box lbs.	Each
F8442G (2742)	D5C3	7/16	12	1/2	\$0.82
F8443G (2743)	D5C3	1/2	12	1/2	.82
F8444G (2744)	D5C8	9/16	12	1/2	.90
F8445G (2745)	D6C0	5/8	12	1	.94
F8446G (2746)	D6C6	11/16	12	1 1/4	1.03
F8447G (2747)	D7C0	3/4	12	1 1/2	1.08
F8448G (2748)	D8C3	13/16	12	1 3/4	1.29

Six in box.

### UNIVERSAL JOINT SOCKETS



6 Point

Each		Size in.	Each
F8449G (2714UV)	X1D53	7/16	\$2.40
F8450G (2716UV)	X1D53	1/2	2.40
F8451G (2718UV)	X1D53	9/16	2.40
F8452G (2720UV)	X1D53	5/8	2.40

Two in box. Wt. box 1/4 lb.

### REVERSIBLE RATCHETS



52 tooth action. Quick, smooth, effortless reversing. Form-fit cap for comfortable palming. A new hold every 7 degrees. Fast ratcheting. Length 8 inches.

Each		Each
F8414G (2775)	X3D76	\$5.88

Four in box. Wt. box 4 lbs.

### SWING HEAD HANDLES

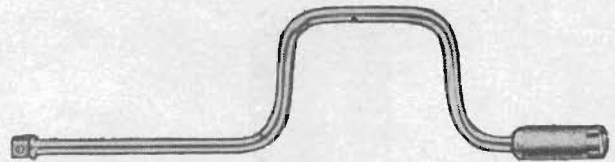


Ball and spring tension to hold head at any selected angle. Broached 3/8 in. square opening in handle for use as extension. Also drilled for cross bar. Length 9 in.

Each		Each
F8396G (2781)	X1D77	\$2.77

Six in box. Wt. box 3 1/4 lbs.

### SPEEDER HANDLES



For speedy assembly or tear down. Designed with ball thrust bearing for easy operation and is knurled for comfortable grip. Length 16 1/2 in.

Each		Each
F8401G (2785)	X1D40	\$2.19

Six in box. Wt. box 5 3/4 lbs.

### EXTENSIONS



Forged in one piece. Drilled for cross bar.

Each		Length in.	No. in Box	Wt. Box lbs.	Each
F8392G (2730)	D6C4	3	6	3/4	\$1.00
F8393G (2733)	D8C6	6	4	3/4	1.33
F8394G (2735)	X1D03	12	4	1 1/2	1.62

### UNIVERSAL JOINTS



Spring tension in joints holds drive at any selected angle. Length 1 13/16 in.

Each		Each
F8397G (2797)	X1D52	\$2.38

6 in box. Wt. box 3/4 lb.



## SOCKET WRENCH ATTACHMENTS

INDESTRO CHROME ALLOY

Chrome Alloy Steel—Scientifically Heat-Treated—Rich Chrome Finish

Thin Wall, Hot Broached, Four-Way Lock-On Sockets

1/2 IN. SQUARE DRIVE

### REGULAR SOCKETS



12 Point

For Hexagon Nuts and Bolts

Each			Size in.	Wt. Box lbs.	Each
F8476G	(1214)	D4C0	7/16	3/4	\$0.61
F8477G	(1216)	D4C0	1/2	3/4	.63
F8478G	(1218)	D4C3	9/16	3/4	.67
F8480G	(1220)	D4C3	5/8	3/4	.67
F8481G	(1221)	D5C0	21/32	1	.77
F8482G	(1222)	D5C0	17/16	1	.77
F8483G	(1224)	D5C4	3/4	1	.84
F8484G	(1225)	D5C6	23/32	1 1/4	.88
F8485G	(1226)	D5C8	17/16	1 1/2	.90
F8486G	(1228)	D6C2	7/8	1 3/4	.96
F8487G	(1230)	D6C4	13/16	2	1.00
F8489G	(1232)	D7C0	1	2	1.08
F8490G	(1234)	D7C6	1 1/16	2 1/4	1.18
F8491G	(1236)	D8C2	1 1/8	2 1/2	1.28
F8492G	(1240)	D8C5	1 1/4	3 1/4	1.32

Six in box.

### DEEP SOCKETS



12 Point

For Hexagon Nuts and Bolts

Each			Size in.	Wt. Box lbs.	Each
F8493G	(3016)	D8C4	1/2	1 1/2	\$1.31
F8494G	(3018)	D8C5	9/16	1 3/4	1.32
F8495G	(3020)	D8C6	5/8	1 3/4	1.33
F8496G	(3022)	D8C6	17/16	1 3/4	1.33
F8497G	(3024)	D8C6	3/4	2	1.34
F8499G	(3026)	D9C5	13/16	2	1.48
F8500G	(3028)	X1D03	7/8	2 1/4	1.60
F8501G	(3030)	X1D13	13/16	3	1.77
F8502G	(3032)	X1D18	1	3 1/4	1.84

Six in box.

### UNIVERSAL JOINTS



Provides accessibility to many difficult jobs. Close coupled and with spring tension. Length 2 3/8 in.

Each				Each
F8422G	(3217)	X1D48		\$2.31

Six in box. Wt. box 2 lbs.

### REVERSIBLE RATCHET

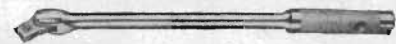


52 tooth engagement gives a new bite every 7 degrees and can be used in the most restricted places. Especially strong. Length 10 1/2 inches.

Each				Each
F8419G	(3275)	X4D39		\$6.86

Four in box. Wt. box 5 7/8 lbs.

### SWING HEAD HANDLE

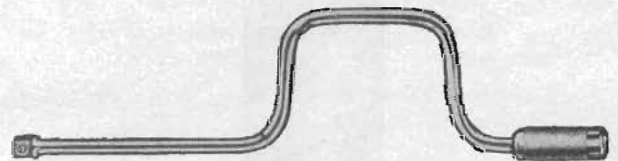


Suitable for extra leverage and to clear obstructions. Ideal for nut spinning. Swing head permits using at many angles. Ball and spring hold head at selected angle. One piece construction. Length 15 in.

Each				Each
F8421G	(3222H)	X2D71		\$4.23

Four in box. Wt. box 8 lbs.

### SPEEDER

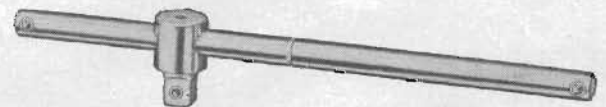


For speedy nut turning. Comfortable knurled handle. Ball bearing design. Friction ball in drive end gives positive lock to socket.

Each				Each
F8426G	(3208)	X1D44		\$2.25

Four in box. Wt. box 6 3/4 lbs.

### SLIDE T HANDLES



Ideal for use around crowded places as head slides from one end o-bar to other to clear obstructions. Head will hold at any selected position on bar through ball and spring tension. Length 11 inches.

Each				Each
F8423G	(3206)	X1D25		\$1.95

Four in box. Wt. box 4 lbs.

### EXTENSIONS



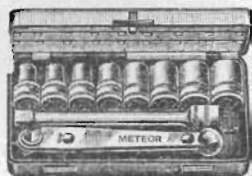
Forged in one piece. Drilled for cross bar.

Each			Length in.	No. in box	Wt. Bx lbs.	Each
F8415G	(3216)	D8C8	5 1/2	6	2	\$1.37
F8416G	(3211)	X1D07	10	4	2 1/4	1.68

### SOCKET WRENCH SETS

NEW BRITAIN MACHINE CO'S.

#### METEOR



With reversible ratchet and extension. For carburetors, distributors, radios, television sets, etc.

Made of highly polished chrome plated alloy steel, heat treated for strength. Sockets accurately broached. Small diameter extension for hard to get at places. Spring loaded ball on ratchet drive and extension.

#### Consists of:

Reversible ratchet handle with screw driver bit on reverse side, length 4 inches, four inch extension and one each 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8 and 1/2 inch sockets.

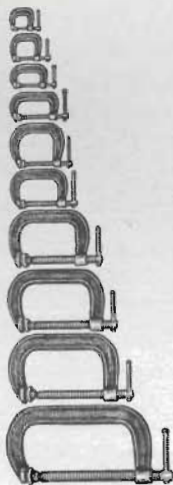
Attractively packed in a blue plastic case with clear hinged cover and catch. Size 2 1/2 x 4 1/2 x 3/4 inches thick.

#### 1/4 Inch Square Drive

Per Set **F8022G (1025) X2D80**.....\$4.00

Loose. Wt. set 1/2 lb.

Per Set



### CLAMPS

HARGRAVE



Super-Junior  
Small C

Forged from a good grade of steel and heat treated. Nickel plated screws with sliding pin handle. Black gun metal finish frames.

Each			Wt.			▲
			Opens	Depth	Box	
			ins.	ins.	lbs.	Each
<b>F471G (50P)</b>	<b>D3C3</b>	1	1	1	1	\$0.50
<b>F472G (51P)</b>	<b>D3C5★</b>	1	1 1/2	2 1/4	2 1/4	.52
<b>F473G (52P)</b>	<b>D3C7</b>	1 1/4	1 1/4	2 1/2	2 1/2	.56
<b>F474G (53P)</b>	<b>D3C9★</b>	1 1/2	1 1/2	3 1/2	3 1/2	.58
<b>F475G (54P)</b>	<b>D5C2★</b>	2	1 1/4	2	2	.78
<b>F476G (55P)</b>	<b>D6C8★</b>	3	1 3/8	3 1/4	3 1/4	1.02
<b>F477G (56P)</b>	<b>D7C7</b>	2 1/2	2 1/2	4	4	1.16

50P to 53P twelve, 54P to 56P six in box

### ADJUSTABLE CLAMP

C Clamp

Complete range of sizes, that are priced to compete even with the "Toy" class of clamp with which many users formerly had to be content.

**Frames**—Correctly designed, liberally proportioned malleable iron. Heat treated. Smooth, clean natural finish.

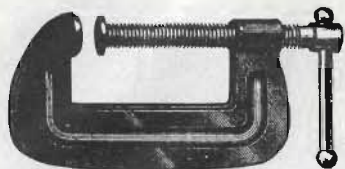
**Screws**—Steel of adequate diameter, carefully fitted; "vice-type" handle.

**Swivels**—Revolving, oscillating, put on to stay.

Each			Opening Capacity ins.	Depth at Throat ins.	Diam. of Screw ins.	No. in Ctn.	Wt. Ctn. lbs.	▲ Each
<b>F481G (1410)</b>	<b>D1C6</b>	1	1 1/8	1/4	144	21	\$0.24	
<b>F482G (1420)</b>	<b>D2C1</b>	2	1 1/16	5/16	144	38	.32	
<b>F484G (1425)</b>	<b>D4C0</b>	2 1/2	2 1/2	3/8	72	46	.60	
<b>F485G (1430)</b>	<b>D4C4</b>	3	2	7/16	48	40	.66	
<b>F450G (1440)</b>	<b>X1D00</b>	4	3	9/16	24	38	1.50	
<b>F451G (1460)</b>	<b>X1D48</b>	6	3 1/2	5/8	24	64	2.22	

**CLAMPS**

**JUDD**



Steel frame, red enamel finish. Good quality bright steel screw, swivel head and vise type sliding pin handle.

Each	Opens, ins.	Depth, ins.	Weight Box, lbs.	Each
<b>F490G (152B) D2C5</b>	2	7/8	4	\$0.39
<b>F491G (156B) D3C9</b>	3	1 3/8	8	.59

Twelve in box

**STANDARD**

**Carriage Makers'**



Used by carriage and wagon-makers, auto body builders, repair shops, etc. Malleable frame, reinforced and shaped to give greatest strength. Large diameter steel screw, will not bend or break; has deep cut acme thread and long bearing, insuring long life. Oscillating ball and socket tip. Forge integral wing.

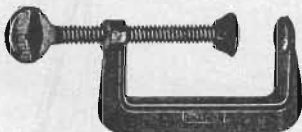
bearing, insuring long life. Oscillating ball and socket tip. Forge integral wing.

Each	Opens, ins.	Depth, ins.	Wt. Box, lbs.	▲ Each
<b>F458G (3) X1D12★</b>	3	1 7/8	6	\$1.65
<b>F459G (4) X1D44★</b>	4	2 1/16	10 5/8	2.16
<b>F460G (5) X1D76</b>	5	2 1/2	13 3/4	2.64
<b>F461G (6) X2D08★</b>	6	2 3/4	15 5/8	3.12
<b>F446G (8) X3D04</b>	8	3 1/4	25 1/8	4.56
<b>F447G (10) X4D24</b>	10	3 5/8	38 1/4	6.36

3 to 8 six in box, 10 loose

**QUILT FRAME CLAMPS**

**SARGENT**



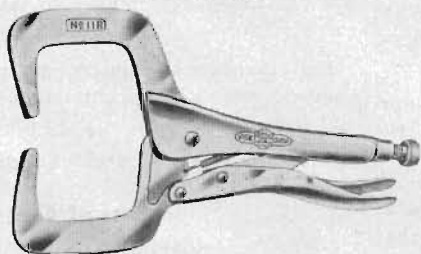
Cast iron. Ball and socket head on screw zinc dipped.

Each	Opens, ins.	Depth, ins.	Weight Box, lbs.	▲ Each
<b>F493G (ZD132) D2C6</b>	1 7/8	1 3/8	4 1/4	\$0.39
<b>F494G (ZD133) D3C3★</b>	2 3/4	1 3/8	5	.49

Twelve in box

**WISE GRIP C CLAMPS**

**PETERSON**



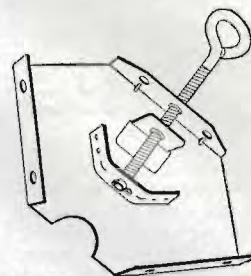
Special alloy steel, hardened and tempered. "Ice-Tong" jaws reach around any shape-angle iron. I beams, etc. Jaw adjustment 0 to 3 3/4 in. Length 11 inches. Jaw adjustment 3 3/4 in.

Each	Each
<b>F7992G (11R) X2D23</b>	\$3.35

Twelve in ctn. wt. ctn. 22 lbs.

**FRAME OR CORNER CLAMPS**

**LARSON**



Heavy 13 gauge steel with bright finish. Fits any moulding up to 2 5/8 inches wide. Can be used as a saw gauge. Lies flat—nail from any position. Large frames can be held in vise. Open end has advantage of clearance for gluing, nailing, soldering, welding, brazing, etc.

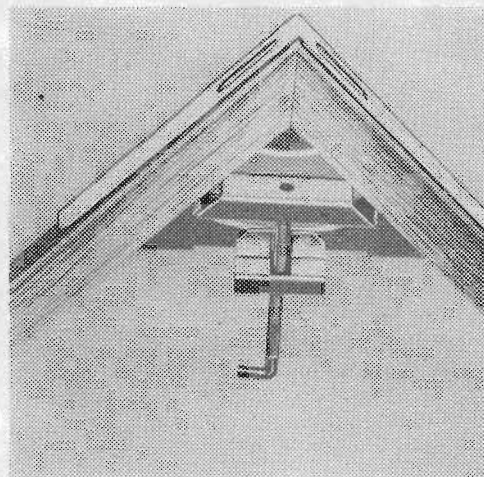
For miter joint, butt corner "L" joint, "T" joint and angle joints.

Each	Each
<b>F466G X1D20</b>	\$1.85

Twelve in box Wt. box 11 lbs.

**CORNER CLAMPS**

**GUNVER**



Popular leader for amateur and professional, 2 inch capacity for straight or molding stock. Special cut-outs for nailing, doweling, etc. Makes accurate right angle joint.

**With Steel Grips**

Each	Each
<b>F464G (B198) X1D32★</b>	\$1.98

Twelve in box. Wt. box 15 lbs.

**CARPENTERS' BAR CLAMPS**

**HARGRAVE**



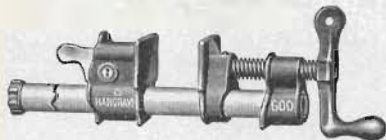
**Improved "I" Bar**

A powerful clamp having "I"-shape high carbon steel bar, size 1½x½x½ inch. Steel screw ½ inch in diameter with deep cut acme thread and long bearing, insuring long life to the clamp. Case hardened thrust bearing for end of screw. Crank frame, tip and slide are malleable, slide has tempered steel dog for engaging the notches. The notches do not weaken the bar, as they are in the web instead of being cut through the flange at bottom of bar. This construction makes it possible to place the notches close together, being spaced only ½ inch apart, they permit much more rapid adjustment than is possible with the ordinary clamp.

Each	Capacity, feet	Weight Each, lbs.	▲ Each
O-3DC-G X4D40★	3	7¾	\$6.60
O-4DC-G X4D80★	4	9	7.20
O-6DC-G X5D88	6	11⅛	8.82

Loose

**HARGRAVE**



Can be applied to any odd length of pipe. Black iron pipe preferred. Weight according to pressure required.

Strong analysis malleable frame, slide and top, threaded to fit standard pipe thread. Bearing for screw 1⅜ inch long. Hardened steel insert in tip. Hardened steel cam trigger type slide with milled teeth, locks slide. Steel screw ⅝ inch diameter. Acme thread. All parts painted red.

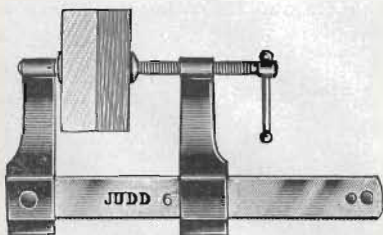
Clamping surfaces are 1¾x1¾ inches.

**Without Pipe Fits ¾ inch Pipe**

Each	▲ Each
F479G (600) X2D40.....	\$3.60

One in box. Wt. box ¼ lb.

**JUDD**



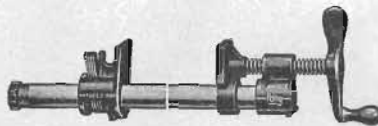
Bright steel adjustment bar with knurled edges for sure grip. Stamped steel red adjustable upper jaw and stationary lower jaw. Bright steel adjustment screw and sliding bar handle.

Maximum opening of jaws 6 inches. Depth 3 inches.

Each	▲ Each
F492G (157B) D4C5★.....	\$0.70

Twelve in box. Wt. box 11 lbs.

**PONY**



Can be applied to any odd length of ¾-inch black pipe. Extra heavy for ordinary clamping and double extra heavy pipe is recommended where greater pressure is required.

Frame is threaded to fit standard pipe threads and the slide slips over the other end. Slide can be quickly and easily adjusted to any position on the pipe and is securely locked by hardened steel plates gripping the pipe. It will not slip.

Malleable iron castings, orange baked enamel finish. Cold drawn steel screw ⅝-inch diameter with deep smoothly cut threads. Hardened thrust bearing at point of screw. Hardened steel reversible clutch discs. Clamping face 1¾ inch square. One piece malleable iron handle. Baked black enamel finish.

One set consists of tail and head piece, or one complete clamp. Don't use galvanized pipe.

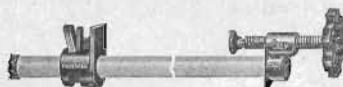
**Without Pipe**

**Fits ¾-inch Pipe**

Per Set	▲ Per Set
F470G (500) X2D40★.....	\$3.95

One set in box. Wt. box 2½ lbs.

**PONY**



These fittings, when assembled to a length of ½-inch black steel pipe, threaded at both ends, provide an inexpensive, yet thoroughly practical steel bar clamp. Various lengths of black pipe, either of standard, heavy or extra heavy weight may be used and readily interchanged with a single set of fittings. The slide can be easily and quickly adjusted to any position on the pipe and is securely locked by gripping the pipe. Will not slip. The ball and socket screw is self-aligning on work which may not have parallel surfaces.

Malleable iron castings, orange baked enamel finish. Hardened steel reversible clutch discs. Cold drawn steel screw ½ inch in diameter with deep smoothly cut threads. Clamping faces 1½ inch square and 1 inch diameter swivel, malleable iron hand wheel 2⅞-inch diameter, black enamel finish.

**Without Pipe**

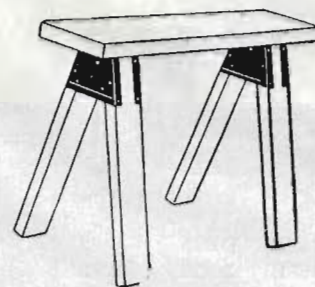
**Fits ½-inch Pipe**

Per Set	▲ Per Set
F469G (52) X1D68★.....	\$2.75

One set in ctn. Wt. ctn. 1½ lbs.

**BRACKET SETS**

**LARSON**



**Make Your Own**

Build your own saw horse, picnic table and bench sets, work bench, swing set and many others. Easily built and taken apart for storage.

Heavy zinc coated steel brackets complete with 36 round head wood screws. For one or two inch lumber.

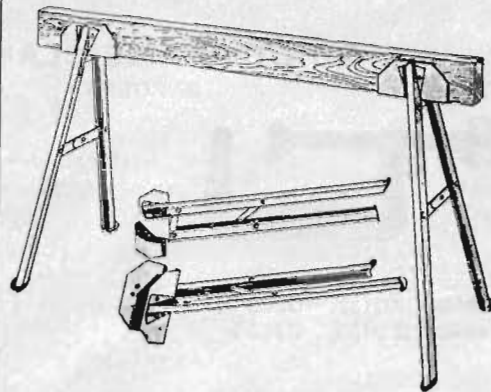
Packed in colorful box with instruction sheet for assembly.

**In Sets of 4 Without Lumber**

Per Set	▲ Per Set
F495G (24) X1D25.....	\$1.88
FX495G (24) X1D25—(Case lots 12 sets)	

Twelve sets in ctn. Wt. ctn 32 lbs.

**SAW HORSE LEGS**



Make your own saw horse. Self leveling clamps, attach to 2x4 or 2x6 without nails or screws. Locks tight. Easy to take apart and carry.

For carpenters, painters, plasterers, paper hangers, electricians, contractors, homes, city and state road work.

Made of 14 gauge steel. Baked red enamel finish.

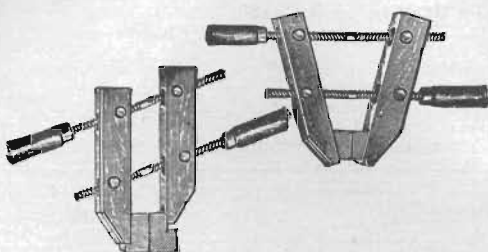
**In Sets of 4 Without Lumber**

Per Set	Height of Legs, ins.	Wt. lbs.	Per Set
61-SH24-G X6D50	24	25	\$9.80
61-SH30-G X7D75	30	32	11.60

Packed in two ctns.

**HAND SCREWS**

**JORGENSEN**



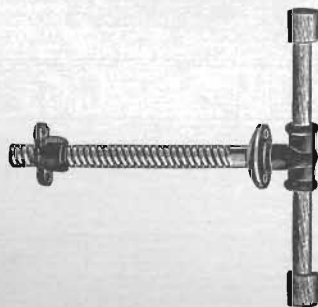
Lathed steel spindles and sockets. Seasoned maple jaws. Spindles are equipped with right and left hand threads, making it very fast of adjustment.

The jaws can be adjusted to many angles to grip irregular surfaces. Glue will not adhere to the spindles.

Each		Lgth. Jaws, ins.	Max. Opening, ins.	Wt. Case, lbs.	▲ Each
		(J3/0)			
F507G	X2D40	6	3	12½	\$3.95
FX507G	X2D40	—(Case lots 6)			
		(J0)			
F509G	X2D88★	8	4½	12½	4.75
FX509G	X2D88★	—(Case lots 6)			
		(J1)			
F510G	X3D28★	10	6	17	5.40
FX510G	X3D28★	—(Case lots 6)			
		(J2)			
F511G	X3D80★	12	8½	27½	6.25
FX511G	X3D80★	—(Case lots 6)			
		(J4)			
F513G	X5D60	16	12	49	9.25
FX513G	X5D60	—(Case lots 6)			

**BENCH SCREWS**

**COLUMBIAN**



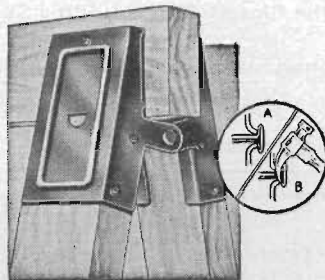
Special double lead thread for maximum speed and positive gripping. Extra heavy screw head, thrust washer and nut casting. Hardwood handle 12 inches long. Length of screw 16 inches. Diameter 1½ inches.

Each ▲ Each  
**0-1½-G X3D10★**.....\$4.65

Twelve in case. Wt. case 80 lbs.

**SAW HORSE BRACKETS**

**DALTON**



**Spee-Dee**

Unmatched for speed, sureness and simplicity. Grips cross bar and legs securely. Saw horse will not fall apart when lifted.

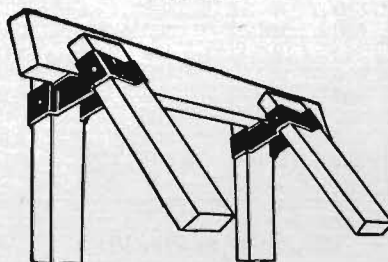
Heavy gauge steel brackets with toothed jaws for a positive grip on cross bar. Exclusive flanged nail holes facilitate disassembly. Rust-resistant finish.

**For 2x4 inch Lumber**

Per Pair		▲ Per Pair
F500G	(300) X1D20.....	\$1.80
FX500G	(300) X1D20—(Case lots 12)	

Twelve pairs in ctn. Wt. ctn. 27 lbs.

**NU-WAY**



Used for scaffolding, work benches, ping pong tables, platforms, temporary tables and many other uses. Easily set up and taken down.

Stamped from ½-inch steel, cadmium plated. For use with 2x4 inch legs and cross bar of various length.

Size 8x4x4 inches.

**Without Lumber**

Per Pair		▲ Per Pair
F498G	(NW) X1D15.....	\$1.89
FX498G	(NW) X1D15—(Case lots 18 pairs)	

One pair in box. 18 pairs in case.  
 Wt. case 56 lbs.

**SAW HORSE BRACKETS**

**SHAPLEIGH'S**



**No Nails, Bolts or Screws**

Converts five pieces of 2x4 lumber into a saw-horse which cannot slip or pull apart. Convenient and portable for hundreds of uses in the home, shop, stores and general use for building, platforms, scaffolding and benches.

Heavy gauge orange steel clamps 3¾x7¾ inches, with cadmium plated wing nut locking device, which locks on legs and rail of lumber.

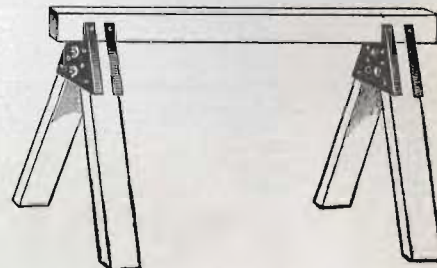
**Fully Mechanical**

**For 2x4 inch Lumber—(Without Lumber)**

Per Pair		▲ Per Pair
F501G	(801) X2D50.....	\$3.75
FX501G	(801) X2D50—(Case lots 6 pairs)	

Six pair in ctn. Wt. ctn. 36 lbs.

**SAW HORSE BRACKETS**



Pressed steel with horizontal corrugations. Designed so that the wood need only be sawed off square, all the same length, then slipped into the brackets, no beveling or joining necessary.

The plate acts as a stop and the wood is wedged against each other, making a stronger construction than all-wood horses. Assures exact angles and even setting on the floor. Finished in cadmium plate. Supplied with duplex nails and cadmium plated bolts and wing nuts for quick assembly. It takes four brackets to make one set or enough for one complete saw horse.

Per Set		Per Set
F499G	(2) X1D19.....	\$1.78
FX499G	(2) X1D19—(Case lots 12 sets)	

One set in box. Twelve boxes in ctn.  
 Wt. ctn. 30 lbs.

**QUICK REFERENCE VISE CHART**

COLUMBIAN Vise Catalog Numbers and the Catalog Numbers of Similar Sizes and Types of Other Manufactures.

Jaw Widths are in inches and the Closest Corresponding Sizes has been Used in each Case

**Stationary Jaw Vises—Stationary Base**

Jaw Width	COLUMBIAN	Parker		Prentiss	Reed	Athol	Hollands	Simplex	Yost
		Superior	Eclipse						
2½	502½	....	952½ (101)	511 (211)	102½	612½	12½	...	102½
3	503	803 (29X)	953 (102)	512 (50)	103	613	13	31P	103
3½	503½	803½ (39X)	953½ (103)	513 (51)	103½	613½	13½	33P	103½
4	504	804 (49X)	954 (104)	514 (52)	104	614	14	41P	104
4½	504½	804½ (59X)	954½ (105)	515 (53)	104½	614½	14½	43P	104½
5	505	805 (....)	955 (106)	516 (54)	105	615	15	51P	105
5½	505½	805½ (69X)	955½ (106½)	517 (55)	105½	615½	15½	...	105½
6	506	806 (79X)	956 (107)	518 (56)	106	616	16	61P	106
7	507	807 (79½X)	....	519 (57)	107	617	17	71P	107
8	508	808 (60X)	958 (108)	....	108	618	18	81P	108

**Stationary Jaw Vises—Swivel Base**

2½	602½	....	972½ (201)	521 (212)	202½	622½	22½	...	202½
3	603	823 (229X)	973 (202)	522 (90)	203	623	23	31S	203
3½	603½	823½ (239X)	973½ (203)	523 (91)	203½	623½	23½	33S	203½
4	604	824 (249X)	974 (204)	524 (92)	204	624	24	41S	204
4½	604½	824½ (259X)	974½ (205)	525 (93)	204½	624½	24½	43S	204½
5	605	825 (....)	975 (206)	526 (94)	205	625	25	51S	205
5½	605½	825½ (269X)	975½ (206½)	527 (95)	205½	625½	25½	...	205½
6	606	826 (279X)	976 (207)	528 (96)	206	626	26	61S	206
7	607	827 (279½X)	....	529 (97)	207	627	27	71S	207
8	608	.... (260X)	978 (208)	....	208	628	28	...	208

**Adjustable Jaw Vises—Swivel Base**

3	403	....	383 (270)	502	403	643	43	...	42
3½	403½	....	383½ (271)	503 (19)	403½	643½	43½	...	43
4	404	....	384 (271½)	504 (19½)	404	644	44	41S]	44
4½	404½	....	384½ (272)	505 (20)	404½	644½	44½	53S]	45
5	405	....	385 (273)	506	405	645	45	...	46
5½	405½	....	385½ (274)	507 (21)	405½	...	45½	...	...
6	406	....	386 (275)	508 (22)	406	646	46	...	...
7	407	....	387 (240)	509 (23)	407	647	47	...	...
8	408	....	....	....	408	...	48	...	...

**Combination Pipe Vises**

3½	203½	....	433½ (87)	181	1C (31)	323½X	52	CP33	31
4½	204½	....	434½ (88)	182	2C (32)	324½X	53	CP43	32
5	205	....	435 (288½)	182½	3C (33)	325X	54	....	33
6	206	....	436 (289½)	183	4C (34)	326X	56	....	34

**Heavy Chipping Vises**

7	107	....	....	...	....	....	....	....	...
8½	108½	....	....	58	....	....	....	....	99

**Body Makers Vises**

**Stationary Base—Stationary Jaw**

4½	124½	....	654½ (146)	59	124½	414½	164½	42CP	504
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**Swivel Base—Stationary Jaw**

4½	224½	....	674½ (246)	99	224½	424½	264½	....	505
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**Swivel Base—Adjustable Jaw**

4½	424½	....	....	26	424½	444½	464½	....	....
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No attempt has been made to make comparisons of quality, strength, weight or capacity.

This information is taken from the latest available catalog of each of the manufacturers mentioned above.

## MACHINISTS' VISES

### COLUMBIAN

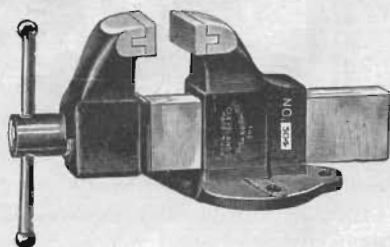
These vises have many outstanding features that provide quality and economy—accuracy, greater strength and longer service.

**Malleable Iron Castings**—Guaranteed unbreakable—insure maximum strength and shock resistance.

**Steel Screw and Malleable Iron Nut**—The design and rigid alignment provide maximum power and reduce wear. Steel balls on both ends of handle are forged from handle stock and can not come loose.

**Graphite-Bronze (self-lubricating) Bearings** at front of sliding jaw takes thrust of steel screw head, provides easy positive operation, prevents wear and eliminates "end play".

**Hardened Tool Steel Replaceable Jaw Faces**—Machine knurled "T" section design, pinned into castings and will not come loose.



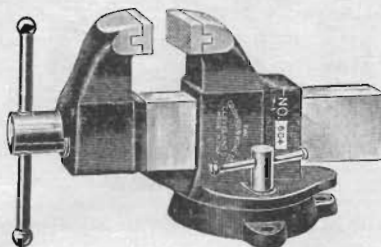
**Stationary Base—Stationary Jaw**

Designed to handle the varied sizes and weights of work in the average shop, these vises will stand the abuse often given to such a tool.

The machined flat base of Columbian vises permits firm installation with three bolts, and eliminates cutting the bench top.

Each		Width Jaws, ins.	Jaws Open, ins.	Depth Jaws, ins.	Weight Each, lbs.	▲ Each
O-503-G	X23D80	3	4½	2½	20	\$28.00
O-503½-G	X27D20	3½	5½	2¾	29	32.00
O-504-G	X32D30	4	6	2¾	36	38.00
O-504½-G	X40D80	4½	7	3½	47	48.00
✚508-G	X187D00	8	12	5½	150	220.00

Loose



**Swivel Base—Stationary Jaw**

The effective swivel base allows these vises to be swung freely and locked in any desired position, reducing the shifting of work in the vise.

The steel clamping nut draws the teeth of a forged steel lock bolt up into gear-like corrugations in the base plate—the most positive locking device.

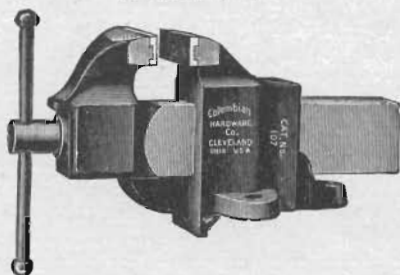
The advantages of shifting the position of work and holding it at different angles without removing the piece from the vise are appreciated by users.

Each		Width Jaws, ins.	Jaws Open, ins.	Depth Jaws, ins.	Weight Each, lbs.	▲ Each
O-603-G	X30D60	3	4½	2½	25	\$36.00
O-603½-G	X35D70	3½	5½	2¾	34	42.00
O-604-G	X42D50	4	6	2¾	42	50.00
✚606-G	X122D40	6	10	4¼	106	144.00
✚608-G	X238D00	8	12	5½	170	280.00

Loose

## HEAVY CHIPPING VISES

### COLUMBIAN



Designed for use wherever mass weight is of primary importance.

Hardened tool steel jaw faces with machine cut diamond-shaped teeth insure firm grip on heavy work.

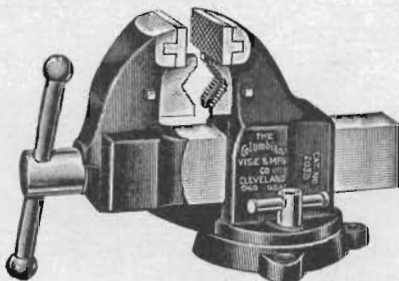
Kromiron castings provide increased tensile strength and greater shock resistance. Other parts same high quality material and workmanship as machinists' vises.

**Stationary Base—Stationary Jaw**

Jaws 8 inches wide, open 12 inches.

Each		▲ Each
✚108-G	X187D00	\$220.00

Wt. each 268 lbs.



**Adjustable Base—Stationary Jaw**

Each		Width Jaws, ins.	Jaws Open, ins.	Holds Pipe, ins.	Weight Each, lbs.	▲ Each
O-203½-G	X44D20	3½	4	⅛ to 2½	36	\$52.00
O-204½-G	X62D90	4½	5	⅛ to 3½	60	74.00

Loose

These vises are made of the same high quality materials and workmanship as machinists' vises, but have high jaws and tool steel pipe jaws in addition to regular flat jaws.

The pipe jaws of tool steel are carefully heat treated to insure correct hardness and strength. The three jaws are interchangeable and each has two working faces.

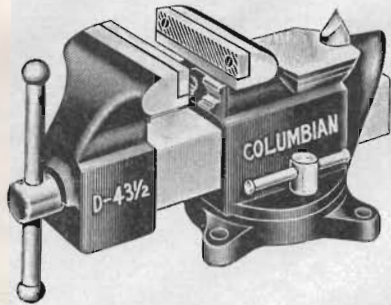
The special design of the pipe jaws makes it possible to hold down to ⅛ inch pipe without the pipe jaws protruding beyond the jaw faces. Other work can be held, therefore, without removing the pipe jaws.

Equalize Freight with nearest Jobber carrying Columbian Vises

Items Marked ✚ Not Carried in Stock. Can Only be Furnished by Shipping Direct from Factory, F. O. B., Cleveland, Ohio

**WORKSHOP VISES**

COLUMBIAN



Heavy duty front jaw beam of channel steel, covering screw. Extra large back jaw, anvil and anvil horn. Cold rolled steel screw. Handle balls forged from handle stock. Replaceable malleable iron nut with Acme thread and heat treated steel jaw faces. Permanent pipe jaws, positive tri-grip design. Positive locking swivel base with slip handle lock nut. Bright red finish with polished jaws and anvil.

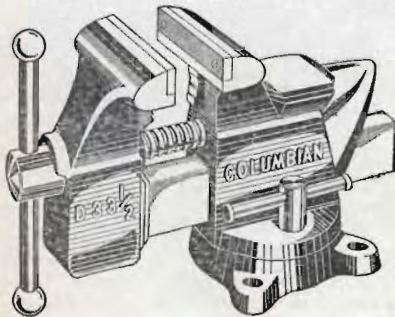
**Swivel Base**

Specifications:

Nos.	Width Jaws, in.	Jaws Open, in.	Pipe Capacity in.
D43 1/2	3 1/2	4	1/8 to 1 1/4
D44	4	5	1/8 to 2
D45	5	6	1/8 to 2 1/2

Each		Wt. Each, lbs.	▲ Each
O-D43 1/2-G	X8D33★	17 1/2	\$12.50
O-D44-G	X12D13★	30	18.20
O-D45-G	X15D33	48	22.70

One in ctn.



Extra heavy steel beam with balanced castings for super strength.

Large back jaw anvil and anvil horn. Cold-rolled steel screw. Slip-proof screw collar. Handle balls forged from handle stock and "3-point" Tri-Grip permanent pipe jaws. Positive locking swivel base, with slip-handle lock nut. Polished jaws and anvil with bright Columbian red finish.

**Swivel Base**

**Replaceable Steel Jaw Faces**

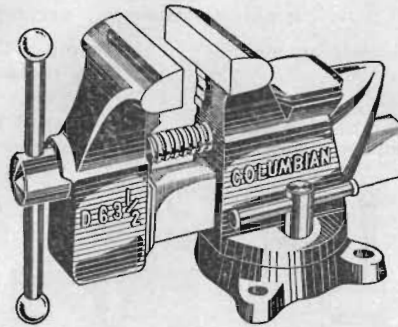
Width of jaws 3 1/4 inches. Jaws open 4 inches. Depth 1 1/4 inches. Pipe capacity 1/8 to 1 1/4 inches.

Each		▲ Each
O-D33 1/2-G	X5D67★	\$8.50

One in ctn. Wt. ctn. 13 lbs.

**WORKSHOP VISES**

COLUMBIAN



**RED ARROW**

Extra heavy steel beam with balanced castings for super strength.

Large back jaw anvil and anvil horn. Cold-rolled steel screw. Slip-proof screw collar. Handle balls forged from handle stock and "3-point" Tri-Grip permanent pipe jaws. Positive locking swivel base, with slip-handle lock nut. Polished jaws and anvil with bright Columbian red finish.

**Smooth Jaw Faces**

**Swivel Base**

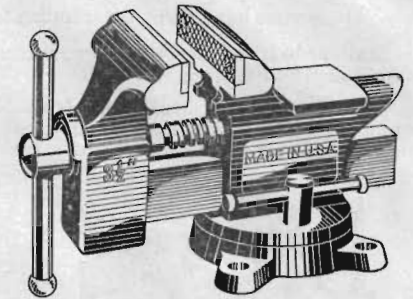
Width of jaws 3 1/2 inches. Jaws open 4 inches. Pipe capacity 1/8 to 1 1/4 inches.

Each		▲ Each
O-D63 1/2-G	X5D25★	\$7.90

One in ctn. Wt. ctn. 13 lbs.

**HOMESHOP VISE**

COLUMBIAN



**SWIVEL BASE**

Steel screw, slide bar and handle. Anvil back. Pipe jaws. Replaceable steel jaw faces. Polished jaws and anvil.

Width of jaws 3 1/2 inches. Opens 3 inches. Pipe capacity 1/8 to 1 inch.

Each		Each
O-31 1/2-G	X4D00★	\$6.00

One in ctn. Wt. ctn. 10 lbs.

Equalize Freight with Nearest Jobber Carrying Columbian Vises

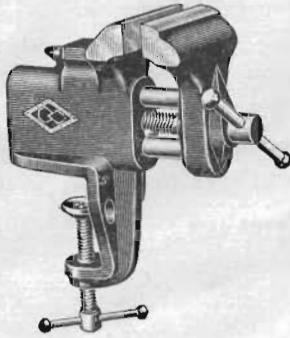
Items Marked ✚ Not Carried in Stock. Can Only be Furnished by Shipping Direct from Factory, F. O. B., Cleveland, Ohio

STAR ★ DENOTES BEST SELLER



**VICES**

**B & C**



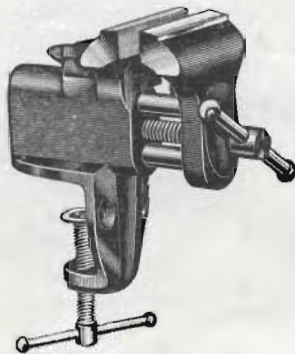
Unexcelled for ordinary jobs about the home, garage or farm.

Fine grain gray iron frame and front section. Anvil back. Accurately machined, hardened and polished jaws. Nickel plated feed screw and two supporting rods. Steel sliding handle on feed screw and bench clamp. Red baked enamel finish.

Width of jaws 1 3/4 inches. Jaws open 1 3/4 inches.

Each **F7233G (149) X1D24★** ..... \$1.88

One in box. Wt. box 2 lbs.



Fine grain gray iron frame and anvil back, red baked enamel finish. Accurately machined jaws, polished and lacquered. Machine cut feed screw with nickel plated head and sliding steel handle. Two nickel plated supporting rods. Steel bench clamp screw with nickel plated head and sliding steel handle.

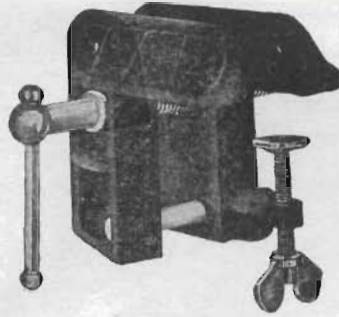
Width of jaws 2 1/2 inches. Opens 2 1/2 inches. Bench clamp screw opens 2 1/4 inches.

Each **F7236G (150/2 1/2) X2D03★** ..... \$3.06

One in box. Wt. box 3 3/8 lbs.

**WOODWORKERS' VICES**

**LITTLETOWN**



**Bench Type**

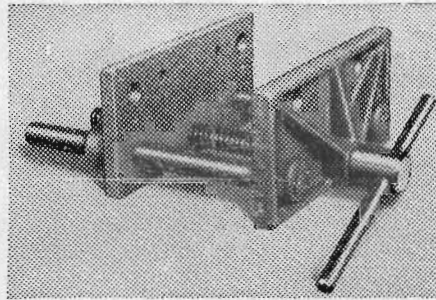
Cast iron construction. Solid steel screw and sliding handles. Clamp screw with wing nut.

Jaws 5x5 1/2 inches, opens up to 3 1/2 inches.

Each **0-165-G X2D35★** ..... \$3.25

One in ctn. Wt. ctn. 5 lbs.

**STANDARD**



**Bench**

For home, farm and school workshop, hobbyists and craftsmen.

Iron web design double jaw construction for full parallel bearing surface. Screw holes in jaws for attaching hardwood facings. Well fitting square cut screws and 1/2 inch steel guide rods. Strong steel handle-bar of convenient length. Screw holes for attaching to both the front and underside of bench.

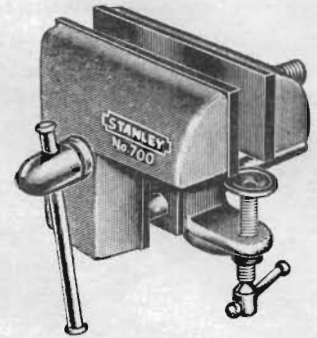
Jaws 5 1/2 inches wide, 1 5/8 inches deep. Maximum opening 4 1/2 inches.

Each **F7232G (134) X2D30** ..... \$3.45

One in box, twelve in ctn. Wt. ctn. 51 lbs.

**WOODWORKER'S VICES**

**STANLEY-HANDYMAN**



**For Work Bench or Saw Horse**

Light weight portable clamp vise with press-wood face plate. Jaws 5-inch wide horizontally, 4 3/8-inches wide vertically "L" shaped jaws open to 3 1/2-inches. Sliding steel handle. Steel screw bench clamp with sliding steel handle.

Each **F7237G (700) X5D00★** ..... \$7.50

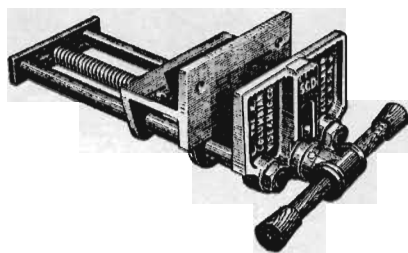
One in box. Wt. box 5 5/8 lbs.

## WOODWORKERS' VISES

### COLUMBIAN

For general use in woodworking or manual training shops. Simple in construction. Durable, reliable and smooth in operation.

Close-grained gray iron castings, with smooth jaws drilled for wood facings. Cold rolled steel guide rods operate through accurately machined guides in back jaw and keeps jaws in alignment, fitted with removable lock nuts. Heavy steel screw with machine-cut double fast-running threads for positive action and maximum speed.



#### Continuous Screw

Steel handle socket with large head screw for securing hardwood handle.

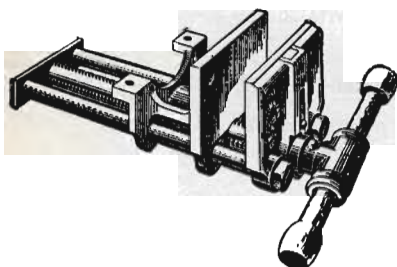
#### With Plain Front Jaw

Each	Size	Jaws	Jaws	Wt.	
	Jaws,	Open,	Ctn.,		
	ins.	ins.	lbs.		▲ Each
0-7CPW-G	X16D00	4x7	9	22	\$24.00

#### With Dog in Front Jaw

0-7CDW-G	X16D66	4x7	9	23	25.00
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One in ctn.



#### Rapid Acting

For shops where time is an important factor—particularly where large change in jaw opening must be made frequently.

**Operation**—When handle of vise is turned to left against a stop, the front jaw can be slid to full opening—a partial turn of the handle tightens the vise against the work.

#### Plain Front Jaw

Each	Size Jaws,	Jaws Open,	Weight Ctn.,	▲ Each
	inches	inches	lbs.	
0-10RPW-G	X19D33	4x10	32	\$29.00

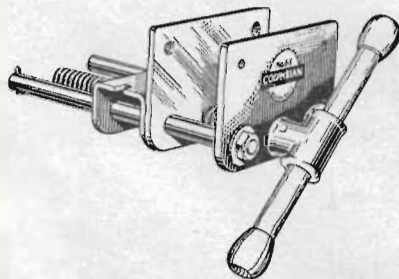
#### With Dog in Front Jaw

0-10RDW-G	X20D00	4x10	33	30.00
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One in ctn.

## WOODCRAFT VISES

### COLUMBIAN



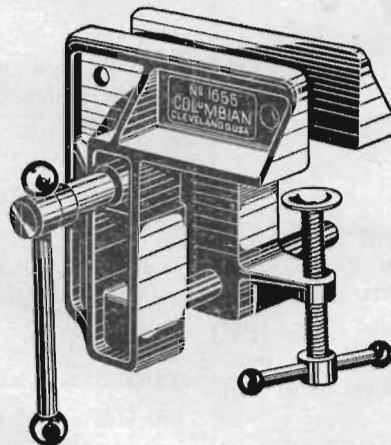
A well-made, moderately priced woodworker's vise for homeshop work bench.

Close-grained gray iron castings with smooth jaws drilled for wood facings. Steel guide rods keep jaws in alignment. Steel screw with machine-cut threads insure positive free action. Steel handle socket, with hardwood handle. Will fit any bench up to 2 1/4 inches without mortising. Jaw 3 x 6 inches. Opens 7 inches.

Each	▲ Each
0-6C-G	X4D67★
One in ctn.	Wt. ctn. 10 lbs.
	\$7.00

## CARPENTERS' VISES

### COLUMBIAN



Excellent for home workshops. Light weight. Can be carried in tool kit.

Aluminum with nickel plated screw parts. 5x5 inch aluminum alloy jaws. Horizontal and vertical faces hold work in any position. Jaws open 3 1/2 inches to hold 2x4 wood securely. Tool steel feed screws and guide pin. Fits popular 2 1/4 inch bench top.

Holes in jaws for mounting wood faces.

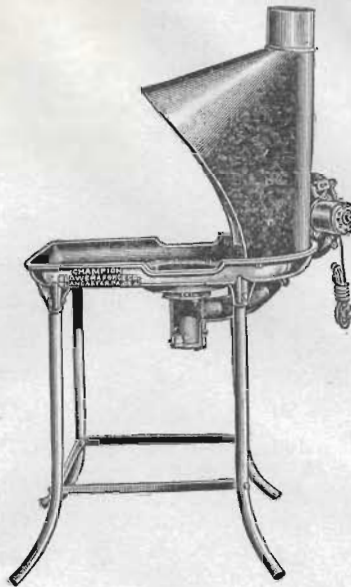
Each	Handy	▲ Each
0-1655-G	X3D00★	\$4.50
One in ctn.	Wt. ctn. 2 lbs.	

Note—Equalize Freight with Nearest Jobber Carrying Columbian Vises

STAR ★ DENOTES BEST SELLER

**ELECTRIC FORGES**

CHAMPION



No. 4143S



No. 4145S

For homecraft service and general repair work. Steel hearth. Sturdy motor, without radio interference. Blast regulated by damper on intake. Fully braced steel pipe legs. Toggle switch on fan case. Complete with 10 foot cord and attachment plug.

Operates on 110 volt, 60 cycles, single phase.

**With Half Hood—10 inch Fan**

Size 24x35 inches. Height 30 inches

Each		Each
✦4143S-K	X136D00.....	\$200.00

One in crate. Wt. crate 145 lbs.

**With Shield—8 inch Fan**

Diameter of hearth 18 inches. Height 30 inches.

Each		Each
✦4145S-K	X61D00.....	\$92.00

One in crate. Wt. crate 45 lbs.



For home workshops, schools, industrial and farm. Fuel storage space beneath the hearth. Upper door in base receives the fuel and automatically feeds it to the lower storage reservoir from which it is removed for use.

Steel hearth, half hood and base. Sturdy motor, without radio interference. Eight inch fan. Blast regulated by damper on intake side. Toggle switch on fan case. Complete with attachment cord and plug.

Diameter of hearth 18 inches. Height 30 inches.

Operates on 110 volts, 60 cycles, single phase.

Each		Each
✦1146SE-K	X120D00.....	\$180.00

One in crate. Wt. crate 55 lbs.

**ANVILS**



VULCAN

BLACKSMITHS'

Face of solid tool steel, tempered, ground and polished and welded to the body by a special process. Horn and point are covered with tough untempered steel. Body is made of best quality gray iron.

DIRECT SHIPMENT

F. O. B., Chattanooga, Tenn.

Each	Weight, lbs.	Face, ins.	Height Overall, ins.	Horn, ins.	Hardie Hole, ins.
+V7-K X27D95	70	3¼x11	8¼	7¾	¾
+V10-K X34D85	100	3½x12½	9½	7¾	7/8
+V13-K X40D00	130	3¾x13½	107/8	8½	1
+V15-K X47D50	150	4x14½	11¼	8½	1
+V20-K X62D50	200	4½x16	12¼	9¾	1½

Wrapped in burlap

**BLACKSMITHS' HOOF PARERS**

SHAPLEIGH'S



Full polished head. Black finish handles, forged from highest grade tool steel. Oil tempered jaws. Length 14 ins.

Each	Each
F7008G (100/14) X2D33★	\$3.50

Six in box. Wt. box 12½ lbs.

**FARRIERS' KNIVES**



High carbon steel blade, uniformly tempered and highly polished. Solid adjustable iron handle. Blade 4 inches long, ¾ inches wide. Handle 4½ inches long.

Each	Each
S1505A (10F) X1D90★	\$2.95

Twelve in box. Wt. box 4 lbs.

**BLACKSMITHS' APRONS**



Muleskin, Without Bib

Gray color. Two-piece. Double seamed and riveted to split. Size 26x34 inches.

Each	Each
P-M-G X6D65	\$10.00

Loose. Wt. each 2¼ lbs.

**WELDING COMPOUND**



E-Z

Used between laps of welds. For welding all grades of steel.

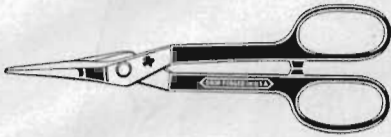
5 lbs. In Wood Box

Per Box	Per Box
F7383G (3) X1D15★	\$1.75

Sold only in full boxes.

**TINNERS' SNIPS**

KEEN  KUTTER



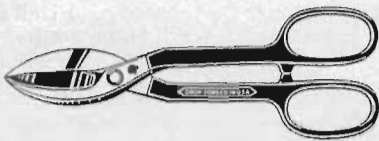
**Duckbill or Circular Pattern  
Hollow Ground**

High carbon hot drop forged steel, scientifically heat-treated. Hardened slab bolt, special lock nut. Hollow ground blades, full polished, rust inhibitor treated. Large positive stop. Hard chrome finish blade area. Red baked enamel handles.

Each	Over-all Lgth., in.	Cut, in.	Wt. Box, lbs.	Each
F7453G X1D70	7	1 3/4	1/2	\$2.60
F7452G X2D20	10	2 1/2	1	3.30
F7451G X2D75	12 1/2	3	1 5/8	4.10

One in box.

KEEN  KUTTER



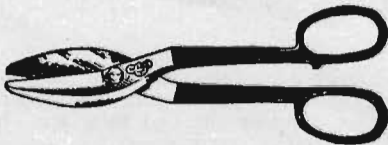
**Straight—Hollow Ground**

High carbon hot drop forged steel, scientifically heat-treated. Hardened slab bolt, special locknut. Hollow ground blades, full polished, rust inhibitor treated. Large positive stop. Hard chrome finish blade area. Red baked enamel handles.

Each	Over-all Lgth., ins.	Cut, ins.	Wt. Box, lbs.	Each
F7438G X1D67	7	1 3/4	1/2	\$2.50
F7439G X2D10	10	2 1/2	1	3.10
F7440G X2D50	12 3/4	3	1 3/4	3.70

One in box.

**WISS**



**Straight**

Crucible steel inlaid blades. Gun metal finish handles.

Each	Cut, ins.	Lgth, ins.	Wt. Box, lbs.	▲Each
F7462G (W7) X5D00	4	14 1/2	3	\$7.50
F7463G (W8) X4D67	3 1/2	13 3/4	2 1/2	7.00

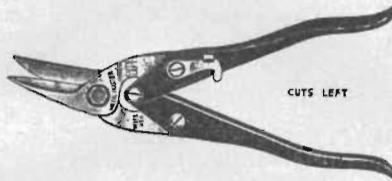
One in box

**WISS**

**Metal Master**

Hot drop forged of Molybdenum alloy steel, blades precisely hardened and tempered. Nickel chrome Molybdenum bolts. Compound leverage action.

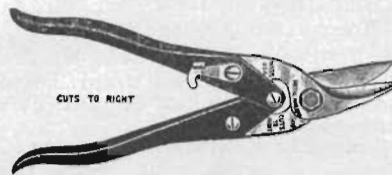
Unexcelled for cutting intricate patterns in sheet metal, air conditioning ducts, louvres, roofing, eaves, gutters, auto body repair, aircraft manufacturing equipment, installation and steel strapping.



**Cuts Left**

Length of cut 1 3/8 inches. Over all length 10 inches.

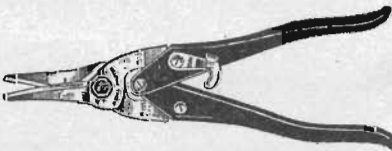
Each	F7464G (WM1) X2D83★	▲ Each	\$4.25
One in box. Wt. box 3/4 lb.			



**Cuts Right**

Length of cut 1 3/8 inches. Over all length 10 inches.

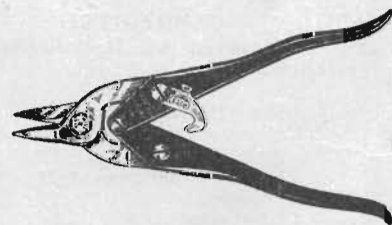
Each	F7465G (WM2) X2D83★	▲ Each	\$4.25
One in box. Wt. box 3/4 lb.			



**Combination**

Length of cut 1 1/2 inches. Over all length 10 inches.

Each	F7466G (WM3) X2D83★	▲ Each	\$4.25
One in box. Wt. box 3/4 lb.			



**Bulldog Combination**

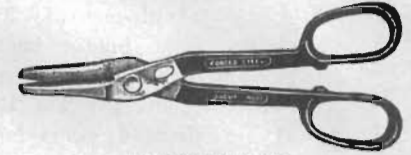
Length of cut 1 inch. Over all length 9 1/2 inches.

Each	F7467G (WM5) X2D83★	▲ Each	\$4.25
One in box. Wt. box 3/4 lb.			

**MIDWEST**



**Straight**



**Duckbill or Circular**

Drop forged from special high carbon steel, heat treated. Blades machine hollow ground and polished. Gray enameled handles. Smoothly finished.

**Straight**

Each	Cut, ins.	Lgth, ins.	Box, lbs.	▲Each
F7426G (77S) X1D30	1 3/4	7	1/2	\$1.95
F7427G (107S) X1D67★	2 1/2	10	1	2.50
F7428G (127S) X2D00★	3 3/4	12	1 3/4	3.00

One in box.

**Duckbill or Circular**

Each	Cut, ins.	Size, ins.	Box, lbs.	▲Each
F7432G (77D) X1D30	1 3/4	7	1/2	\$1.95
F7433G (107D) X1D80	2 1/2	10	1	2.70
F7434G (127D) X2D34	3	12 1/2	1 3/4	3.50

One in box.