



"THE BEST"

TOLEDO / BEAVER

Star Line Marketing Company
2015 Eastwood Ave., Houston, Texas 77047
713-261-2013



3-WAY THREADER



This is the handiest, most convenient small threading tool for use where ratchet tools are unnecessary. All dies are on center, assuring easier cutting. Dies can be reground or replaced at low cost. No adjustments necessary—no loose parts. Always operates easily and efficiently. Furnished (no extra cost) with special dies for straight threads for conduit work.

PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

MODEL No.	PART No.	CAPACITY
31	5127	Complete with 1/2", 3/4" & 1" Dies
31	83852	Extra, Set of 1/2" Dies
31	83853	Extra, Set of 3/4" Dies
31	83875	Extra, Set of 1" Dies

"TOLEDO" Pipe Threaders comply with Federal Specifications: GGG-T-581a. Nos. 00, 11, 12 Ratchet Threaders, Figure 5, Type III, Class 1. No. 31, 3-Way Threaders, Figure 6, Type III, Class 2.

SIMPACT SELF-CONTAINED 1" TO 2" RATCHET THREADER



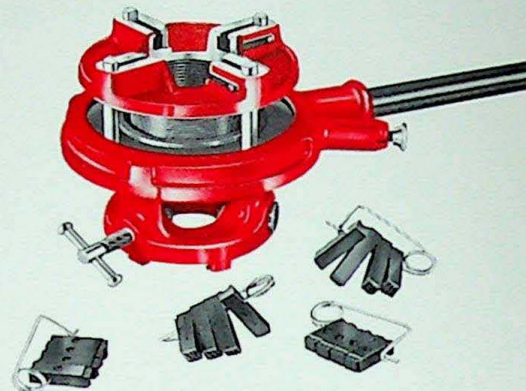
"TOLEDO" Simpac Threaders comply with Federal Specifications: GGG-T-581a, Type III, Class 5, Figure 12.

This is the ultimate in 1" to 2" ratchet threaders. Simple, few moving parts, positive, instant die change. Just set the dies in the proper tapered steps. Cam type pipe holder with broad jaws makes easy, firm centering on pipe. The finest in self-contained 1" to 2" threaders. Also furnished for threading electric conduit.

PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

MODEL No.	PART No.	CAPACITY
SIMPACT	5196	Complete, Self-Contained 1" to 2"
SIMPACT	94062	Extra, Set of Dies
SIMPACT	13106	Conduit Threader 1" to 2"

ADJUSTABLE 1" TO 2" THREADER



COMPLETE TOOL WITH R.H. DIES

TOLEDO'S Adjustable Pipe Threader is a superior tool at an economy price. Since it uses a separate set of dies for each size pipe, you're assured accurate, cleaner threads and tight joints. Die change in the TOLEDO Adjustable Threader is quick and easy. Centering the tool on the pipe is greatly simplified by cam centering arrangement. TOLEDO's Threader is furnished with one handle and complete set of 1" and 2" R.H. Dies. The TOLEDO adjustable No. 1C is the quality tool preferred by thousands of users.

PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

MODEL No.	PART No.	CAPACITY
1-C	13481	Complete with Dies, R.H.
1-C	83482	Extra, Set of 1" Dies
1-C	83483	Extra, Set of 1 1/4" Dies
1-C	83484	Extra, Set of 1 1/2" Dies
1-C	93485	Extra, Set of 2" Dies

NO-JAM THREADER 2 1/2" TO 4"

This safe-to-operate TOLEDO Threader is JAM-PROOF. The feed automatically kicks out at completion of thread. Separate dies for each size assure accuracy and long die life. Convenient, easy-to-set workholder makes centering a breeze. Fully enclosed gears. Pinion is straddle-mounted. Four sets of dies furnished, sizes 2 1/2", 3", 3 1/2" and 4" . . . and set-screw wrench. Ratchet handle is extra.



Release Pins Disengage Feed

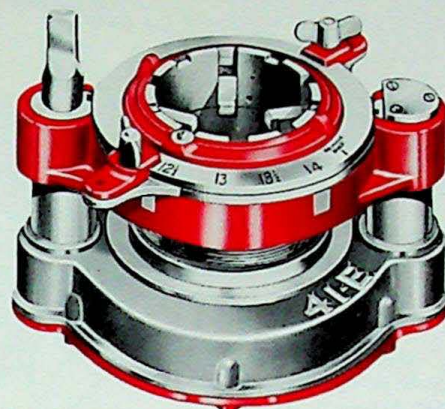
PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

MODEL No.	PART No.	CAPACITY
2BJ	15538	With 2 1/2", 3" & 4" Sizes Only
2BJ	13417	Complete, with 2 1/2" to 4" Dies
2BJ	84065	Extra, Set of 2 1/2" R.H. Pipe Dies
2BJ	84066	Extra, Set of 3" R.H. Pipe Dies
2BJ	84067	Extra, Set of 3 1/2" R.H. Pipe Dies
2BJ	84068	Extra, Set of 4" R.H. Pipe Dies
2BJ	13418	Special Conduit Thread 2 1/2" to 4" Inclusive



TOLEDO / BEAVER TOOLS

GEARED THREADERS



Hand or Power—
Fully Adjustable

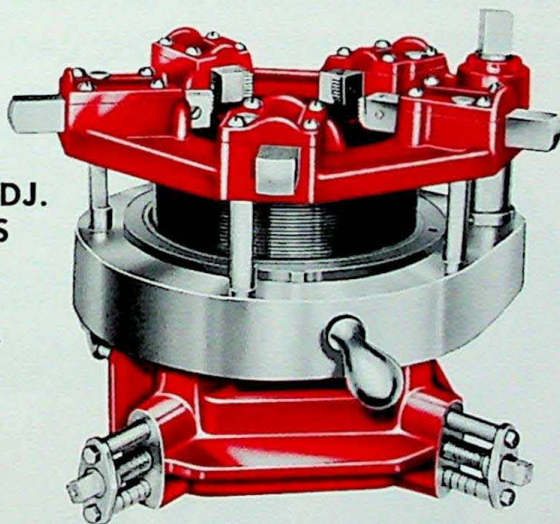
No. 41-E uses only one set of dies for full range 2½", 3", 3½" and 4". No. 61-E uses only two sets. No. 41-E and No. 61-E thread both pipe and conduit with same dies. Ratchet handle is extra.

PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

MODEL No.	PART No.	CAPACITY
41-E	60130	2½" to 4"
61-E	17269	2½" to 6"

GEARED ADJ. THREADERS

No. 25BR—
Threads 2½"-6"
With 1 Set Dies

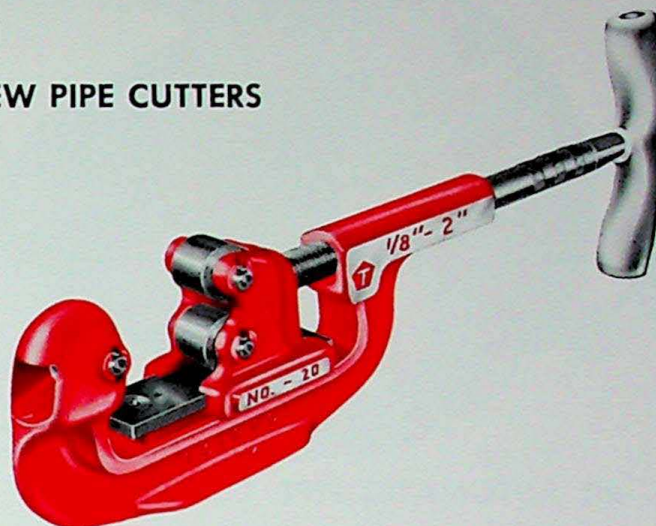


Tops among all geared threaders. Very easy to operate by hand with ratchet handle or converted to power with a "TOLEDO" Power Drive. Each tool produces smooth, perfectly tapered threads, assuring tight joints. No. 25BR uses one set of dies to thread seven (7) sizes of pipe—2½" to 6". No. 3 model uses separate set of dies for each size. Ratchet handle is extra.

PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

MODEL No.	PART No.	CAPACITY
25BR	5252	Complete, with 2 Sets Dies 2½" to 6"
25BR	84105	Extra Set of Dies, R.H.
3	4670	Complete with 3 Sets Dies 5", 6" & 8"
3	84077	Extra 5" Dies, Per Set
3	84078	Extra 6" Dies, Per Set
3	84079	Extra 8" Dies, Per Set

NEW PIPE CUTTERS



All new design. Stronger, lighter frame—longer shank on 2" size protects threads when used with power. No. 20 has replaceable slide plate, form fitting handle. Hook on pipe easily—track perfectly—cut cleanly. No. 20 three wheel model is available for close quarter work at no additional cost. Weight—6½ pounds.

PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

MODEL No.	PART No.	CAPACITY INCHES
20	12078	⅛" thru 2" Pipe Sizes
	12230	Extra Cutting Wheel

WHEEL-TYPE CUTTER For 2" thru 4" Pipe



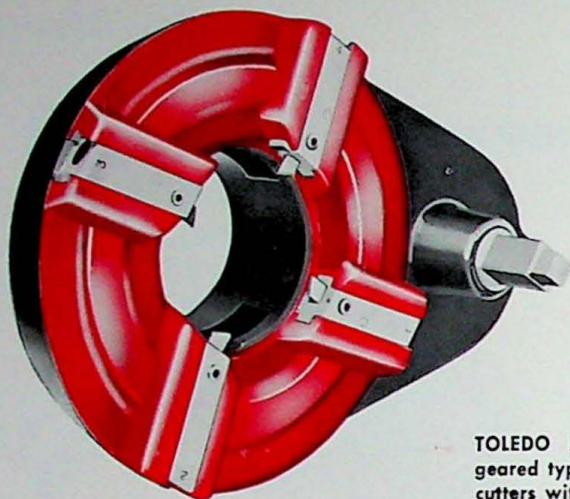
For a fast straight cut every time, choose Quality Checked TOLEDO Pipe Cutters. They are easy to use . . . and do the job better. Available in three models for ⅛" thru 4" pipe sizes. Model 204, shown, for 2" thru 4" sizes, features comfortable, form-fitting handle . . . replaceable slide plate . . . high-alloy steel cutting wheel . . . heavy-duty malleable frame. Constructed to wear longer. TOLEDO's cutters will stand up under hard usage. For a better job—choose TOLEDO at your supplier's.

PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

MODEL No.	PART No.	CAPACITY INCHES
204	14086	2" thru 4" Pipe Sizes
	14090	Extra Cutting Wheel



TOLEDO / BEAVER TOOLS



TOLEDO Pipe Cutters, either automatic or geared type, can be converted into fast power cutters with a "TOLEDO" Power Drive.



No. 40 AUTOMATIC PIPE CUTTER

This Automatic Pipe Cutter is an unusual tool. Knives are fed automatically requiring no attention on the part of the operator except to see that they are kept sharp. A single hand wheel given a part turn sets the knives for cutting or the quick return after the pipe is cut off. The tool cuts rapidly, leaves a straight, square end cut without burr and neatly chamfers the outer edge making it easy to center and start the threading dies on the pipe. May be operated by hand with ratchet handle or with a "TOLEDO" Power Drive, and with the No. 40 will cut

off 2" pipe in 20 seconds, 4" pipe in 65 seconds. Each tool is complete with set screw wrench, bushings, necessary cutter blocks, an extra set of cutter knives.

	PART No.	SHIP WT.
No. 40, Complete, 2" to 4"	4673	90 lbs.
1 set of (4) Cutter Blades	397	1 lb.
1 set of (4) Special 45° Bevelled Cutter Blades	533	1 lb.
1 set of (4) Special Victaulic Grooving Blades 3/4" No. 4166 3/8", No. 4167*		1 lb.
Ratchet Handle Complete	15022	11 lbs.

*Specify width desired.

GEARED PIPE CUTTERS



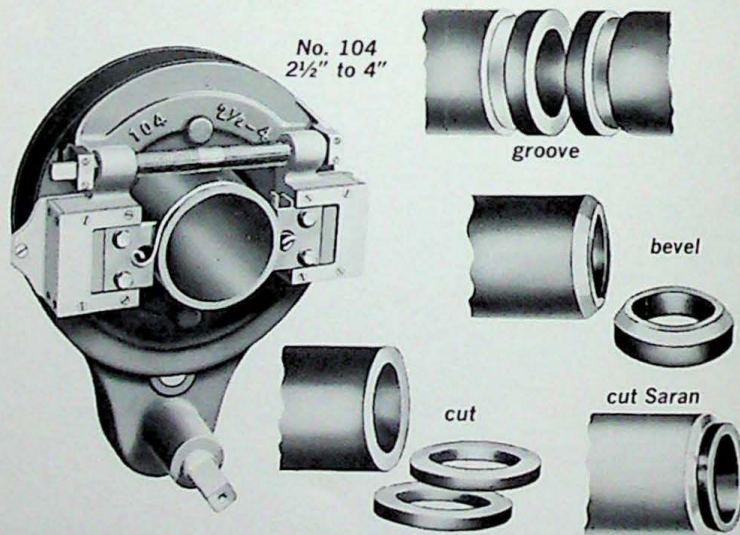
These tools cut off large pipe quickly and accurately leaving a straight, square end cut without burr. Frame casting is made in two parts so tools can be clamped around pipe already installed in the line and the work performed. While the cutter frame is rotating either by means of the ratchet handle or a "TOLEDO"

Power Drive, the knives are fed into the pipe by hand, the operator giving the hand wheel a part turn at each revolution. Knives are of high speed steel and may be reground when dull. Special cutter blades for beveling pipe. Special grooving blades for grooving pipe for Victaulic couplings. Special blades for cutting and stripping Saran lined pipe can also be furnished. Each tool is complete with cutter knives, set screw wrench.

	PART No.	SHIP WT.
No. 250, Complete, 2 1/2" to 6"	9047	110 lbs.
No. 300, Complete, 4 1/2" to 8"	9060	164 lbs.
No. 400, Complete, 9" to 12"	9085	207 lbs.
1 set of (4) Cutter Blades	14994	1 lb.
1 set of (4) Special 45° Bevelled Cutter Blades	637	1 1/4 lbs.
1 set of Saran Cutting and Stripping Blades		
1 set of (2) Adapters	638	1 lb.
4 long Cutter Clamp Screws, pet set	4924	1 lb.
*1 Set Special Victaulic Grooving Blades		1 1/4 lbs.
Ratchet Handle Complete	15022	11 lbs.

*3/4", 3/8", 3/16" or 1/2" wide. Specify width desired.

AUTOMATIC KNIFE CUTTERS, GROOVERS



All sizes available as Square End Cutters, or Groovers, or Saran Cutters, or Beveling Tools, or Combination Cutters and Groovers. Knives are spring loaded and feed automatically. Ratchet handle is extra.

PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

MODEL No.	PART No.	CAPACITY
No. 104	60105	2 1/2" to 4"
No. 104-G	17259	Grooving Only
No. 104-B	17258	Beveling Only
No. 104-S	17260	Saran Cutting & Stripping
No. 104-X	60106	Cutting & Grooving



TOLEDO/BEAVER TOOLS

NEW RED SNAPPER

HYDRAULIC
PIPE CUTTER



SQUEEZE THE PIPE AND SNAP IT OFF!
CLEAN—FAST—EASY—NO TURNING NEEDED

Cuts Cast Iron Soil Pipe, Duriron, Clay and Cement Tile. Time Saving Clean Cuts make tough Production Jobs just a "Snap" with the Red Snapper. Eliminates Waste—Increases Profits.

A COMPLETELY SELF-CONTAINED UNIT

Powerful—Easy to Operate—Fast—Accurate

ADJUSTS LIKE A PIPE WRENCH

No. 4—Part No. 60142 FOR 2" TO 4" PIPE,

No. 6—Part No. 60141 FOR 2" TO 6" PIPE,

AND 4" WATER MAIN

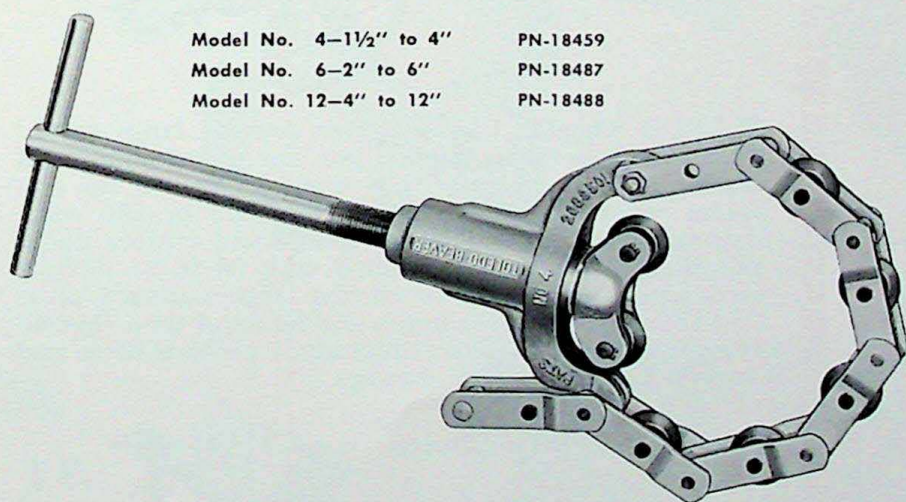
AN IDEAL TOOL FOR REMODELING WORK

Chain Extensions available for No. 6 Cutter for cutting up to 12" Clay or Cement Sewer Tile. CLOSE QUARTERS ARE NO PROBLEM With a RED SNAPPER. Works easily in trenches and other hard to reach areas.

USE IT IN ANY POSITION
Overhead, upside down. If you can wrap the chain around it—you can cut it.

PRECISION PIPE CUTTERS THE ONE YOU NEED MOST

ONE TOOL CUTS CAST IRON SOIL PIPE AND DURIRON



Model No. 4—1½" to 4"

PN-18459

Model No. 6—2" to 6"

PN-18487

Model No. 12—4" to 12"

PN-18488

Eliminate costly hand cutting, increase worker productivity, reduce material waste in cutting pipe, once and for all.

Regardless of roughness or lack of uniform pipe wall thickness, Toledo-Beaver spring loaded cutters apply equal pressure all around the pipe to make clean, true cuts.

They cut within one inch of the pipe end so you can salvage broken pieces, and make accurate cuts to any length, without waste.

CUTS CLEANER • CUTS FASTER

With No Jagged Edges • Without Splits or Breaks They cut anywhere, with a 45° turn . . . in the trench, between studs, in corners, at the ceiling as easily as in the shop.

Truly one-man tools — there is no assembly of parts, and the adjustments take but seconds.

VERSATILE . . . EASY TO OPERATE

Tighten
with
a turn
of the
handle!



Cut
close to
end
of pipe



Eliminate
costly
hand
cutting



Easy
to use
in hard-
to-get
places





TOLEDO / BEAVER TOOLS

PIPE VISE STANDS

No. 7-Y with 1/8" to 2 1/2" Yoke Vise
No. 7-C with 1/8" to 5" Chain Vise



Light weight, easily carried, easily set up or taken down. Folding steel tray locks legs—prevents collapsing. Your choice—No. 7C with Chain Vise; No. 7Y with Yoke Vise. Can be converted from chain to yoke or from yoke to chain easily. Compound leverage applied to chain. Minimum turns on screw. No knuckle-busting. No. 7Y weighs 50 3/4 lbs. No. 7C weighs 47 1/2 lbs.

PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

MODEL No.	PART No.	DESCRIPTION
7-C	11447	Vise Stand with Chain Vise
7-Y	11199	Vise Stand with Yoke Vise
	13134	Conversion Kit 7-C to 7-Y
	13133	Conversion Kit 7-Y to 7-C

OPEN-SIDE PIPE VISES

TOLEDO quality open-side pipe vises eliminate the need for unlatching and tipping a yoke for long lengths of pipe. All you do is simply slip the pipe in the open side and tighten. Long handles provide extra grip on the jaws. Jaws are hardened, full overlapping, designed to hold the pipe securely. Two models from which to choose. Largest size has 2 lower jaws for better gripping.

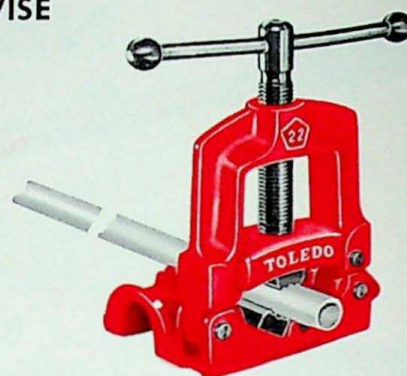


PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

MODEL No.	PART No.	DESCRIPTION
0	4688	Open Side Pipe Vise Cap. 1/8" to 2 1/2" Pipe
3	4689	Open Side Pipe Vise Cap. 1/8" to 4 1/2" Pipe

YOKE-TYPE PIPE VISE

No. 22
1/8" to 2 1/2" Pipe



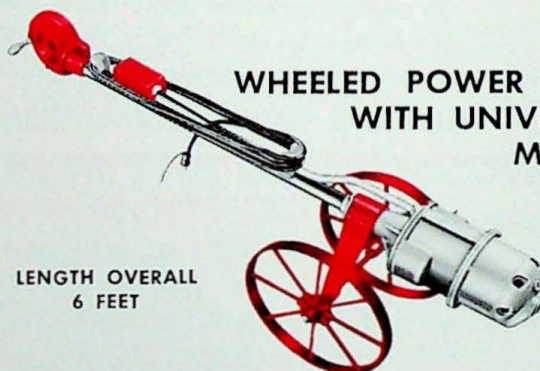
This new TOLEDO Pipe Vise has a new type design frame that is strong beyond need. Acme type screw for fast action and long life. Vise screw bears directly on upper jaw. Model 22 has three jaws—one upper, two lower. Jaws are hardened and are interchangeable. Yoke may be changed for right or left hand operation. Unique Pipe Benders that eliminate pipe slipping. Pipe rest helps support pipe in jaws. Base is designed to give firm, level mounting. Handle is of ample length for easy tightening. No. 22 weighs only 13 pounds.

PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

MODEL No.	PART No.	DESCRIPTION
22	11178	Yoke Type Pipe Vise Cap. 1/8" to 2 1/2" Pipe

WHEELED POWER DRIVE WITH UNIVERSAL MOTOR

LENGTH OVERALL
6 FEET



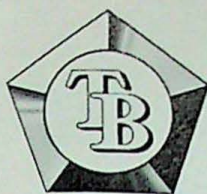
TOLEDO wheeled Power Drives convert large geared hand tools into swift, efficient low cost power equipment easily and economically. Universal Drive—1/2 hp universal reversible motor with either 115 or 230 volts. Recommended for geared threaders and cutters up to 12". Weight 165 lbs. Furnished with 20 ft. of flexible cord. Ideal for opening or closing large manually operated sluice gates. Saves hours and hours of time. Special Electrical Safety Device (Illustrated) protects drive and valve from overload or damage.

Electrical Safety Device



PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

MODEL No.	PART No.	DESCRIPTION
UNIVERSAL	11686	With 1/2 H.P. Motor, 115 Volt
UNIVERSAL	11687	With 1/2 H.P. Motor, 230 Volt
UNIVERSAL		With Electric Safety Device (Mounted)

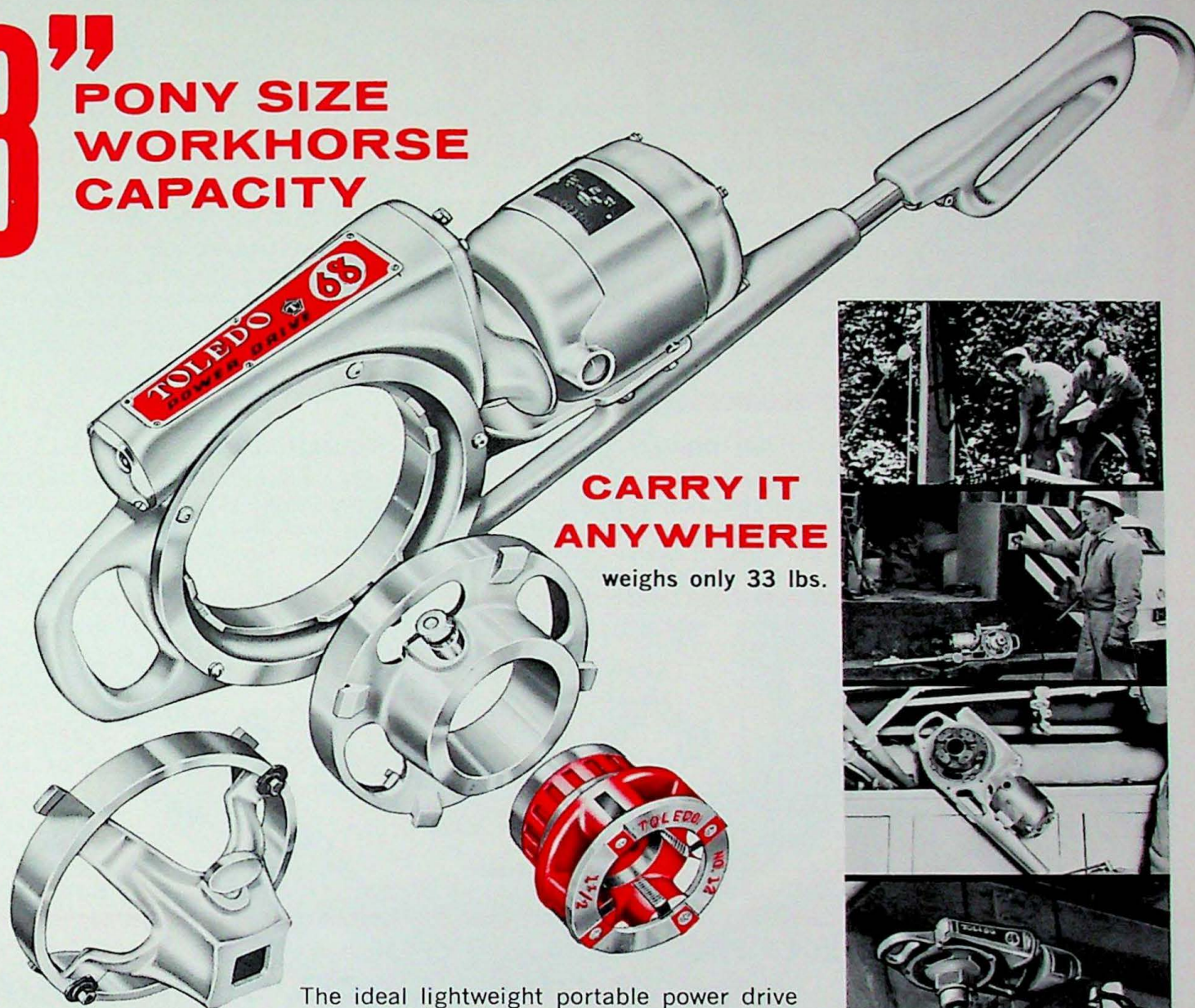


TOLEDO / BEAVER TOOLS

TOLEDO POWER DRIVE

"68"

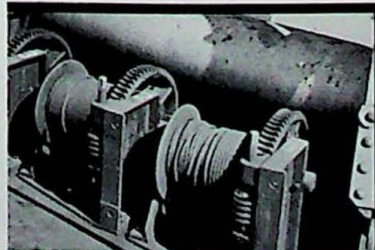
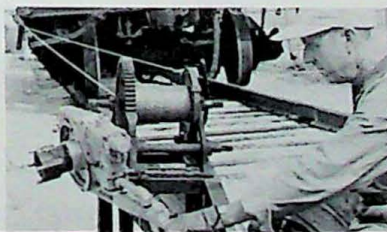
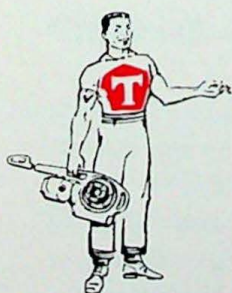
**PONY SIZE
WORKHORSE
CAPACITY**



**CARRY IT
ANYWHERE**

weighs only 33 lbs.

The ideal lightweight portable power drive
... adaptable wherever its power is needed
for pulling, lifting, turning, cranking.



**SEE OVER
FOR
OUTSTANDING FEATURES**





TOLEDO / BEAVER TOOLS



TOLEDO

"68"

PORTABLE POWER DRIVE

UNSURPASSED PERFORMANCE

TOLEDO provides the ideal, handiest tool you can own. It's the tool of a dozen uses. Consisting of worm and ring gear assembly powered by a reversible $\frac{1}{2}$ hp motor, a strong, lightweight frame houses the unit. Adaptors can be fitted for different jobs. Takes die stock up to 4"—works with hand or geared die stocks. Equipped with suitable adaptors it does cranking, turning, pulling, lifting. Wherever portable power is needed, the '68' is your answer. Order yours today!

AIR DRIVEN MOTOR ADDS TO VERSATILITY

The TOLEDO '68' with air driven motor makes it even more versatile. Where compressed air is available, such as street repair jobs, merely connect to the air line—as any other pneumatic tool used on the job. Lever type air valve on handle assures

positive, safe control. With air drive the '68' provides same instant response and high torque characteristics as electrically driven model—with even greater compactness. Recommended for 90 psi service.



DIE STOCKS

ADAPTOR PART NO.

TOLEDO No. 00 Pipe...10697
TOLEDO No. 00-B Bolt.....10695
TOLEDO No. 11.....10694
TOLEDO No. 12.....10699
TOLEDO SIMPACT.....10523

DIE STOCKS ADAPTABLE TO No. 68



BEAVER No. 2.....10697
NYE No. 60.....10694
NYE No. 50.....10697

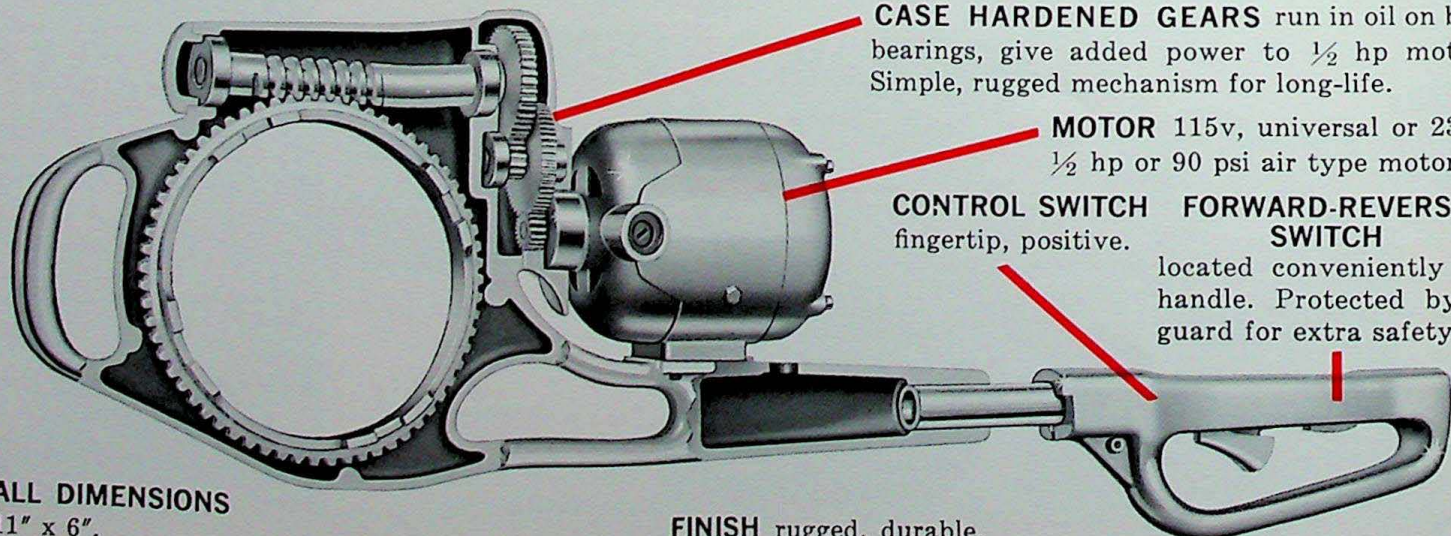


RIDGID No. 65RC and 65RP.....10524
RIDGID No. 00RB.....10695
RIDGID No. 0R.....10698
RIDGID No. 11R.....10710
RIDGID No. 00R.....10695
RIDGID No. 111R.....10694
RIDGID No. 12R.....10696

ADAPTOR For Geared Threaders, Winches or Square Valve Shanks.....10709
SAFETY ADAPTOR.....13964

HANDIEST, MOST VERSATILE TOOL FOR ON-THE-JOB, OR IN-YOUR-SHOP

(TOLEDO ENGINEERED FOR LONG LIFE SERVICE)



CASE HARDENED GEARS run in oil on ball bearings, give added power to $\frac{1}{2}$ hp motor. Simple, rugged mechanism for long-life.

MOTOR 115v, universal or 230v $\frac{1}{2}$ hp or 90 psi air type motor.

CONTROL SWITCH fingertip, positive. **FORWARD-REVERSE SWITCH**

located conveniently on handle. Protected by a guard for extra safety.

OVERALL DIMENSIONS
32" x 11" x 6".

TORQUE—2" pipe thread—190 ft.-lbs.
Current required—14.5 amps... 14 rpm.

FINISH rugged, durable.

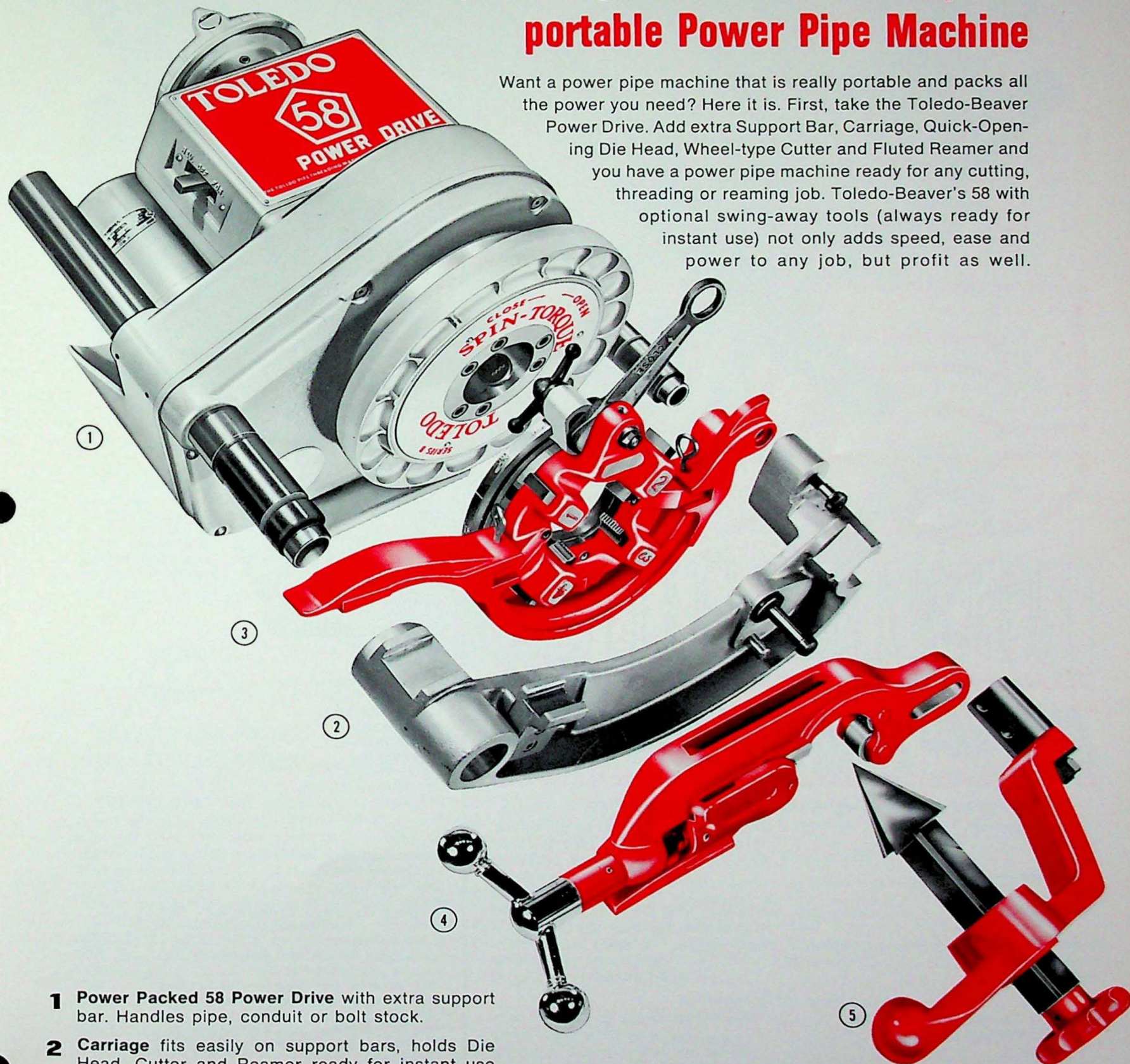
NET WEIGHT 33 lbs. without dies or adaptors.



TOLEDO / BEAVER TOOLS

With Swing-Away Tools you can have a Complete portable Power Pipe Machine

Want a power pipe machine that is really portable and packs all the power you need? Here it is. First, take the Toledo-Beaver Power Drive. Add extra Support Bar, Carriage, Quick-Opening Die Head, Wheel-type Cutter and Fluted Reamer and you have a power pipe machine ready for any cutting, threading or reaming job. Toledo-Beaver's 58 with optional swing-away tools (always ready for instant use) not only adds speed, ease and power to any job, but profit as well.



1 Power Packed 58 Power Drive with extra support bar. Handles pipe, conduit or bolt stock.

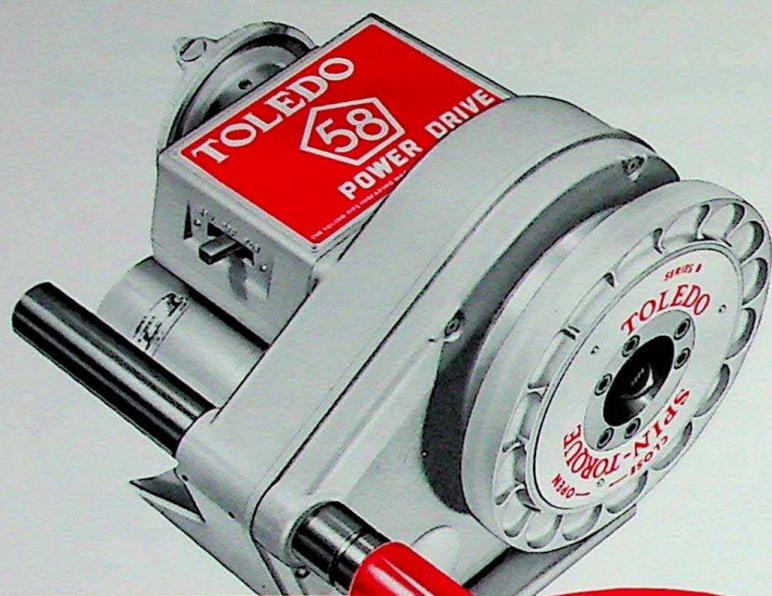
2 Carriage fits easily on support bars, holds Die Head, Cutter and Reamer ready for instant use ... handles close jobs. Designed for years of rugged use.

3 Quick-Opening Die Head with high speed, steel dies, locks into carriage quickly and easily, threads $\frac{1}{8}$ " through 2" pipe or conduit, assures threads of perfect length every time.

4 Cutter is wheel and roller type. Cut cleanly at full power. With 2" capacity cutter swings into position quickly, locks on pipe.

5 Reamer with three flutes leaves a smooth, clean cut every time. Capacity: 2 inches.

Only 73 lbs., the versatile 58 has been designed to handle all sizes of pipe up to 2". Its heavy-duty construction, including aluminum alloy housing and cover, assures maximum service plus outstanding portability—mounts on bench or stand. Capacity: 1/8" to 2" pipe or conduit, 1/4" and larger rod or bolt stock.



58

POWER DRIVE

performance proved.

SPECIFICATIONS STANDARD EQUIPMENT

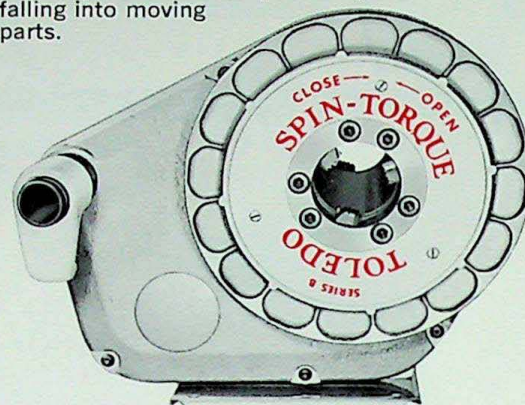
No. 58 Power Drive.....Net weight 73 lbs., shipping weight 81 lbs.
Chuck.....Toledo-Beaver Spin-Torque chuck
Motor.....1/2 H.P. 115-volt, Universal
Rear Centering Device.....3 jaw, easily removed
Switch.....Reversible, safety type
Transmission.....Heavy-duty, helical-cut, long-life, factory-lubricated gear train, ball bearings throughout
Base.....Heavy-gauge steel, center screw, four holes for mounting
Support Bar.....Heavy-duty, telescoping
Oil.....One quart thready cutting oil

Optional Parts and Accessories

No. 19589 Carriage Assembly Kit.....Heavy-duty, slides on support bars
Extra Support Bar.....Heavy-duty, telescoping
Cutter.....Wheel and Roller type, 2" capacity
No. 18163 Quick-Opening Die Head.....High speed, 1/8" to 2" capacity
No. 19647 Reamer.....3 flutes, 2" capacity
Heavy-duty Motor.....115 Volt
Geared Die Driver.....For operating Geared threaders
No. 12796 Stand.....Cast aluminum top, aluminum legs, hand hold, tool slots and folding steel tray. Net weight 16 1/2 lbs., shipping weight 19 lbs.

Note: Extra Support Bar and Cutter are included with Carriage Assembly Kit.

Spin-Torque Chuck. Quick spin of hand wheel and self-centering jaws are tightened—the more torque the tighter the grip. Enclosed jaws eliminate possibility of chips falling into moving parts.



Heavy-Duty Gear Train. Engineered and built for long service life, the precision hobbled, helical cut gears have been carefully machined to deliver smooth, constant operating power. Sealed, factory-lubricated gear train is easily removed.



3 Jaw Rear Centering Device. Pipe or conduit centered easily and precisely. A quick spin of hand wheel and 3 jaws position pipe exactly on center.

Optional 58 Stand. Lightweight—yet sturdy, the stand has cast top with convenient tool slots—folding tray prevents collapsing.



DESCRIPTION

PART NO.

No. 58 Power Drive—115 Volt.....	13890
Stand w/Shelf (Folding)	12796
Carriage Assembly Kit	19589
(Consists of: Carriage, Die Head Holder, Extra Way Rod, and Cutter)	
Reamer Assembly Kit	19647
One Universal Die Head only, capacity 1/8" to 2".....	17898
1 Set—1/8" Right Hand Pipe Dies.....	66485
1 Set—1/4" & 3/8" Right Hand Duo-Type Pipe Dies.....	66058
1 Set—1/2" & 3/4" Right Hand Duo-Type Pipe Dies.....	66057
1 Set—1" & 1 1/4" Right Hand Duo-Type Pipe Dies.....	66033
1 Set—1 1/2" & 2" Right Hand Duo-Type Pipe Dies.....	66034
We can supply Duo- and Quadra-Type Die Heads if desired—as follows:	
Quadra-Type Die Head w/1" to 2" Pipe Dies.....	18168
Duo-Type Die Head w/1/2" & 3/4" Pipe Dies.....	18096
Duo-Type Die Head w/1/4" & 3/8" Pipe Dies.....	18095
Mono-Type Die Head w/1/8" Pipe Dies.....	18099

ORDER ANY COMBINATION DESIRED

F.O.B. TOLEDO, OHIO.
 PRICES SUBJECT TO CHANGE WITHOUT NOTICE.



TOLEDO / BEAVER TOOLS



SUPER 88 POWER DRIVE



SUPER 88
WITH LEGS
AND TRAYS

Featuring . . .

- EASY TO USE POWER • HEAVY DUTY GEAR-TRAIN
- SPIN-TORQUE CHUCK • ADAPTABILITY With Universal Drive-Shaft for large Geared Tools

TOLEDO-BEAVER offers you a high standard of performance in this new Super 88 Power Drive. The 88 turns pipe for hand tools, it provides fast production threading, cutting and reaming operations in the shop, or on the job.

The SUPER 88 has capacities for $\frac{1}{8}$ " thru 2" pipe sizes and $\frac{1}{4}$ " and larger rod or bolts. The SPINTORQUE Chuck tightens with the spin of the hand wheel, with plenty of room for a good grip your job is made easier. It provides a powerful positive grip either forward or reverse.

The precision hobbled, helical cut gears in heavy-duty gear train have been carefully machined for smooth service. Sealed, this new gear train is factory-lubricated—with ball-bearings throughout.

The 88 also features a 3-jaw rear centering device for positive alignment and true centering.

Heavy Duty, Universal type motor, forward or reverse, 115 volt, 25 to 60 cycle, AC or DC. Light socket operation; 220 volt on request.

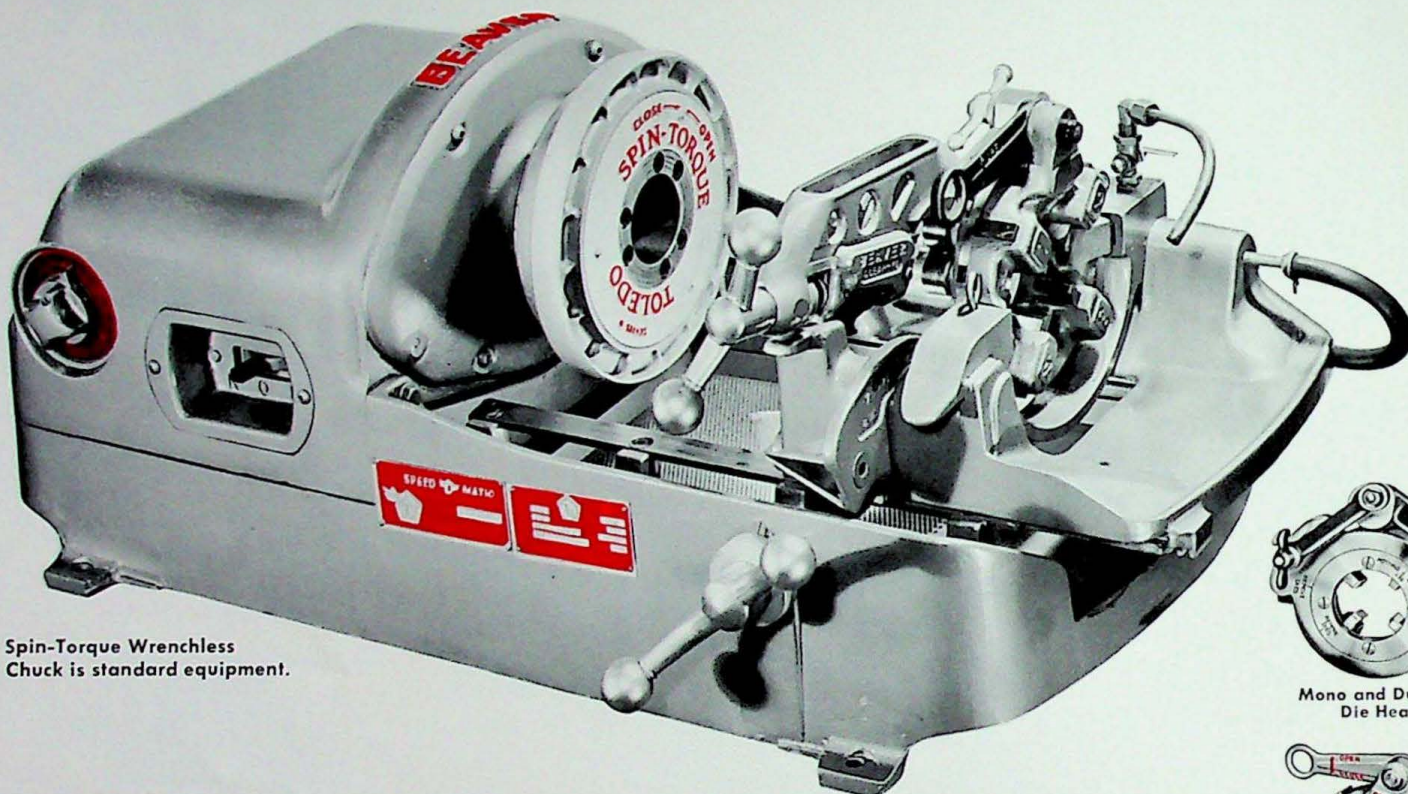
PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

MODEL No.	PART No.	DESCRIPTION	WGT.
No. 88	14894	With 115 Volt Universal Motor	157 lbs.
	16014	With 230 Volt Universal Motor	157 lbs.
LEGS	14767	Legs, Set of Four with Tray	32 lbs.



TOLEDO / BEAVER TOOLS

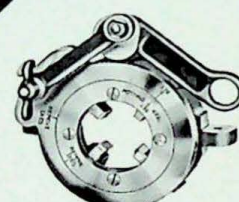
THE 720 SPEED-O-MATIC... the lightweight heavyweight



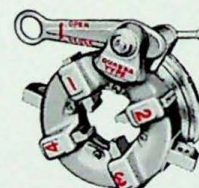
Spin-Torque Wrenchless Chuck is standard equipment.

Fastest, Most Powerful, Most Rugged, Lightest Weight in its Class — Only 170 lbs., Threads 2" Bolt-Full Depth-in 1 Pass

- 50% greater speed. More power from faster, completely NEW and greatly improved motor. Motor and switch fully protected. 115 volt universal.
- Carriage travel 9 inches. Protected carriage ways.
- Cut-off, die heads and reamer all pivot mounted—ideal make-up machine.
- New "CLEAR-VUE" self-centering wheel-and-roller cutoff—cut is completely visible at all times.
- Oiling tube easily directed to work.



Mono and Duo-type Die Heads



Quadra-type Die Heads

- Vane type, quick-acting, "Pulsating Flow" pump produces even distribution of oil on all die segments.
- Instant setting rear support.
- Renewable bearings and easily accessible parts for minimum upkeep and long life.
- Uses same die heads and dies as all Beaver machines.

PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

SPEED-O-MATIC WITH SPIN-TORQUE CHUCK		With Duo-Type Die Heads (See Page 18)	
With Universal Die Head		17297	With three quick opening adjustable duo-type die heads and dies to thread 1/2" to 2" 1/2"-2"
17300	With one Universal die head and 3 sets of duo dies, 1/2" to 2" 1/2"-2"	17299	With 5 duo-type die heads with dies as above to thread 1/8" to 2" 1/8"-2"
With Quadra-Type and Duo-Type Die Heads		With Mono-Type Die Heads (See Page 18)	
17302	With one Quadra-type die head to thread 1" to 2", and one duo-type die head and dies to thread 1/2" x 3/4" 1/2"-2"	17305	With six mono-type die heads and six sets of dies to thread 1/2" to 2" 1/2"-2"
17304	With one Quadra-type die head 1" to 2" and one each duo-type die head and dies 1/2" x 3/4", 1/4" x 3/8" and 1/8" 1/8"-2"	17307	With 9 mono-type die heads as above to thread 1/8" to 2" 1/8"-2"
SEE PAGE 18 FOR ACCESSORIES		17308	Complete less all threading equipment



TOLEDO / BEAVER TOOLS

the automatic
999
push-button threading

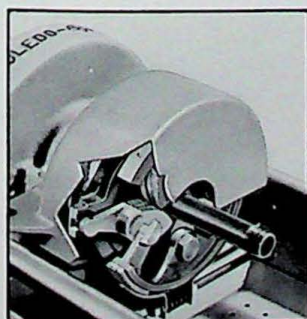


**2" POWER PIPE
AND BOLT MACHINE**

1/8" to 2" Pipe • 1/4" to 1 1/2" Rod • 1/2" to 2" Conduit

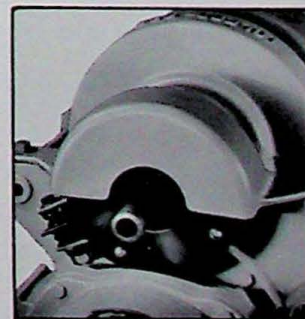
Our latest workhorse, second in the new 999 series, eliminates manual chucking and centering, assures faster, safer and greater production. The new 999 incorporates an automatic chuck and automatic centering device that can be operated both ways—forward or reverse. Both chuck and centering device are fully guarded. After inserting the pipe, just let the machine take over. It picks up the pipe, centers it front and rear, turns it right or left with no slippage—and it does it all in seconds. The 999 compact carriage and extended frame double the work space of former models. A redesigned cutter and reamer give quick, clean cuts and smooth reaming. Reversed carriage conveniently puts all controls and handles on the same side. For shop, job or plant, the 999 offers the ultimate in efficiency.

INSTANT AUTOMATIC CHUCKING AND CENTERING



Automatic Chuck fully guarded by a safety hood. Place pipe in the unit, turn on switch, chuck teeth close automatically for right or left hand revolution, according to setting. They grip the pipe firmly until the threading is completed—no more hammering.

Centering Device at the rear of the unit eliminates wobbling, guarantees accurate threading, cutting, or reaming. Automatically centers the pipe. Operator never has to stop for adjustments. Unit fully guarded.



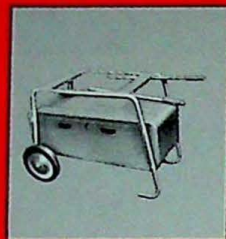
Automatic 999 The Profit Maker



Controls and Motor feature protected switch. Controls conveniently located. No gear shifting. Motor 1/2 HP, 115 V., heavy duty, universal, reversible type. (Other motors available.)



Oil Pump assures constant flow. Pump is centrifugal type requiring no relief or overflow valves. Flexible oil line follows the work.



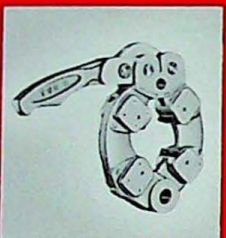
Steel Stand, closed type with steel or rubber tired wheels can be furnished at extra cost.



Wheel and Roll Cutter is rugged and requires a minimum of attention. Features one large cutting wheel and two rollers.



Improved Reamer performs quickly and smoothly as a result of its single blade design. Swings into position easily.



Quick-Opening Die Heads open, close quickly, can be changed instantly, adjustable. Separate set of dies for each size.

SPECIFICATIONS AND WEIGHTS

Pipe Range	1/2" to 2"
Extra Pipe Range	3/4", 1", 1 1/2"
Bolt Range	1/2" to 1 1/2"
Number of die heads furnished as standard equipment	6
Number of set of dies to cover range	Separate set for each size
Motor HP	1/2
Motor rpm (115 Volt)	6000
Spindle Speeds	2" pipe size threading 38 rpm
Coolant Capacity	2 gallons
Coolant Pump—driven directly from motor	Centrifugal type
Chuck	Automatic
Spindle Bore	2 1/2"
Carriage Travel	10 1/2"
Bench Space	35" x 13"—20" High
Net Weight (pounds)	385
Shipping Weight (pounds)	436
Complete machine and extra parts (Furnished with 115 Volt motor and automatic chuck unless otherwise specified.)	

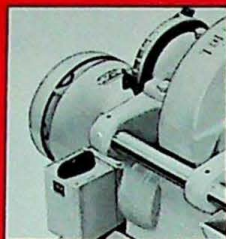
Automatic 999 The Profit Maker

Ship. Wt.	Net Wt.
lbs.	lbs.
436	385
420	367
422	369
462	403
110	98
100	88
11	9
6 1/2	6
6 1/2	6
6 1/2	6
1	1 1/2
1	1 1/2

No. 999 complete with 6 Q.O. Die Heads and 1/2" to 2" R.H. Pipe Dies (6 sets)
No. 999 complete with 3 Q.O. Die Heads and 1/2" to 2" R.H. Pipe Dies (6 sets)
No. 999 complete with 3 Q.O. Die Heads and 1/2" to 2" R.H. Pipe Dies (9 sets)
No. 999 complete with 9 Q.O. Die Heads and 1/2" to 2" R.H. Pipe Dies (9 sets)
Enclosed steel stand, with partitioned Die Head Box, and steel tired wheels
Enclosed steel stand, with partitioned Die Head Box, and rubber tired wheels
Adjustable Pipe Support
1 1/2", 1 1/4", 1 1/2", 1 1/4", 1 1/2" quick-opening Die Head, only, no Dies
1"-1 1/4" Quick-Opening Die Head, only, no Dies
1 1/2"-2" Quick-Opening Die Head, only, no Dies
1 set 1/2", 1/4", 1/2", 1/2" or 1/2" R.H. Pipe Dies, carbon steel, per set, each size
1 set 1", 1 1/2", 1 1/2" or 2" R.H. High Speed Steel Pipe Dies, per set, each size
Cutter Wheels
Cutter Pins
Cutter Rollers
1 set 3/4", 3/4", 3/4", 3/4", 3/4", 3/4", 1", or 1 1/4" N.C. or N.F.R.H. Bolt Dies, carbon steel, for 1/2"-1 1/2" Q.O. Die Head, per set, each size
1 set 1 1/4", 1 1/4" or 1 1/4" N.C. R.H. High Speed Steel Bolt Dies for 1", 1 1/4" Q.O. Die Head, per set, each size
1 set 1/2" or 1/2" Electric Conduit Dies, carbon steel, per set, each size
1 set 1", 1 1/4", 1 1/2" or 2" Electric Conduit Dies, High Speed Steel, per set, each size

When ordering parts or replacements, specify serial number of the machine.

999 The Workhorse



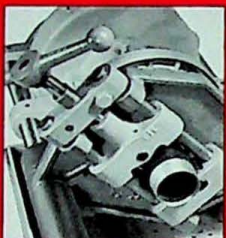
Controls and Motor feature protected switch. Controls conveniently located. No gear shifting. Motor 1/2 HP, 115 V., heavy duty, universal, reversible type. (Other motors available.)



Oil Pump assures constant flow. Pump is centrifugal type requiring no relief or overflow valves. Flexible oil line follows the work.



Steel Stand, closed type with steel or rubber tired wheels can be furnished at extra cost.



Wheel and Roll Cutter is rugged and requires a minimum of attention. Features one large cutting wheel and two rollers.



Improved Reamer performs quickly and smoothly as a result of its single blade design. Swings into position easily.



Quick-Opening Die Heads open, close quickly, can be changed instantly, adjustable. Separate set of dies for each size.

SPECIFICATIONS AND WEIGHTS

Pipe Range	1/2" to 2"
Extra Pipe Range	3/4", 1", 1 1/2"
Bolt Range	1/2" to 1 1/2"
Number of die heads furnished as standard equipment	6
Number of set of dies to cover range	Separate set for each size
Motor HP	1/2
Motor rpm (115 Volt)	6000
Spindle Speeds	2" pipe size threading 38 rpm
Coolant Capacity	2 gallons
Coolant Pump—driven directly from motor	Centrifugal type
Chuck	Choice of wrenchless or 3-jaw universal
Spindle Bore	2 1/2"
Carriage Travel	10 1/2"
Bench Space	35" x 13"—20" High
Net Weight (pounds)	385
Shipping Weight (pounds)	436
Complete machine and extra parts (Furnished with 115 Volt motor and automatic chuck unless otherwise specified.)	

999 The Workhorse

Ship. Wt.	Net Wt.
lbs.	lbs.
436	385
420	367
422	369
462	403
110	98
100	88
29	26
9	8 1/2
9	8 1/2
9	8 1/2
1	1 1/2
1	1 1/2

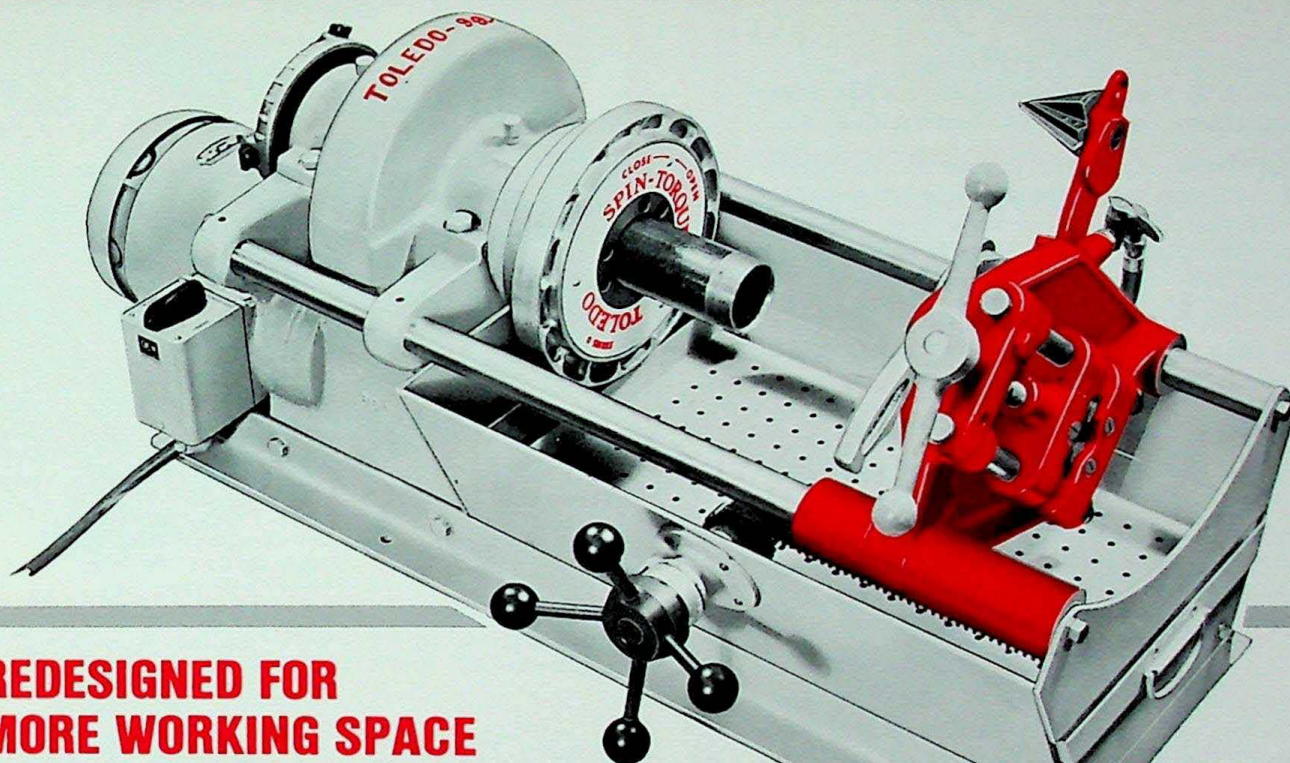
1	1 1/2
1	1 1/2
1	1 1/2
1	1 1/2



TOLEDO / BEAVER TOOLS

999 the workhorse

2" POWER PIPE AND BOLT MACHINE



REDESIGNED FOR MORE WORKING SPACE

1/8" to 2" Pipe • 1/4" to 1-1/2" Rod • 1/2" to 2" Conduit

Long considered the workhorse of the industry, the 999 has been redesigned to assure even greater production than previously possible. The 999 features a new, more compact carriage and an extended frame, doubling the work space of former models. In addition, a new cutter and reamer assure quick, clean cuts and smooth reaming. The carriage has been reversed, placing all controls and handles on

the same side.

999 a choice of

able — the standard Spin-Torque or optional Wrench-Type. ■ The ideal power pipe machine for shop, job or plant, the 999 still allows instant change from cutting to threading to reaming, assuring higher production and greater satisfaction.

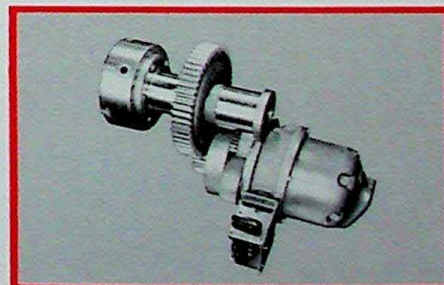
■ With the new chucks is available — the standard Spin-Torque or optional Wrench-Type.



SPIN-TORQUE CHUCK



REAR CENTERING DEVICE



MOTOR-GEAR COMBINATION

Choice of Chucks—The wrenchless-type Spin-Torque chuck tightens with a spin of the handwheel—no hammering necessary, end thrust slippage is eliminated. Available at extra cost is a wrench-type universal chuck with three wrench positions. Throw-out fingers eject wrench if left in chuck ■ **Perfect Centering**—With the 3-jaw centering device, pipe and conduit are centered easily and quickly with a spin of the handwheel. ■ **Heavy-Duty Gears**—Motor-gear combination is built for years of trouble-free service.



TOLEDO / BEAVER TOOLS

TOLEDO NO. 999-B

NO. 999-B USES BEAVER DIE HEADS — MONO — DUO — QUADRA
 $\frac{1}{8}$ " TO 2" PIPE SIZES — $\frac{1}{4}$ " AND LARGER BOLTS OR ROD

Designed to enable users of BEAVER Pipe Machines and Die Heads to continue their use.

THREADING . . . Three styles of die heads available. Mono . . . A separate head and dies for each size. Duo . . . Threads 2 sizes with one set of dies. Just change setting. Quadra . . . Threads four sizes 1" to 2" with one set of dies. Easy quick size change.

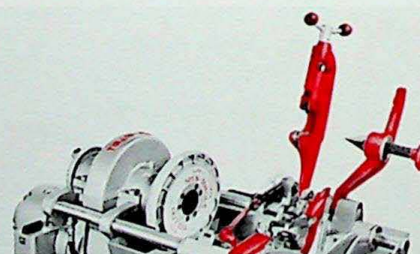
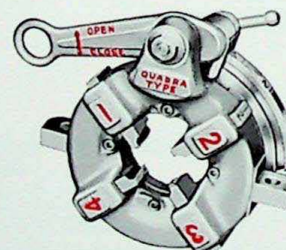
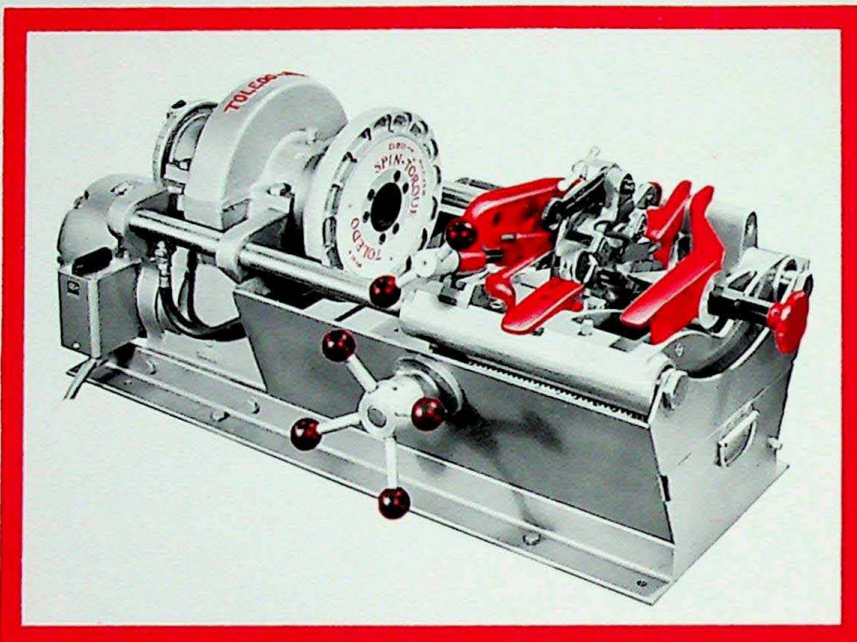
CUTTING . . . Wheel and roller type. Easy operating.

REAMING . . . Instant, with cone reamer.

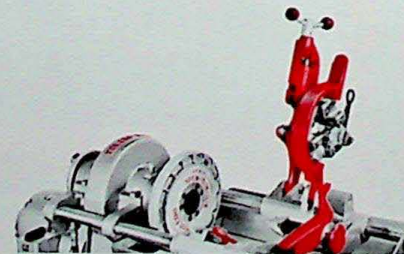
Cutter and reamer tilt back out of the way when not in use and more working space is desired.

CHUCK . . . Wrenchless—Spin Torque operates forward or reverse. No rocking or hammering necessary. End-thrust slippage eliminated. 3-Jaw Wrench Type Chuck also available at extra cost.

DIES . . . Pipe dies $\frac{1}{8}$ " to 2". Conduit dies $\frac{1}{2}$ " to 2". Left hand dies. Bolt dies. All are available. Steel Stand . . . Enclosed type with steel or rubber tired wheels.



Threading is Easy and Quickly Accomplished



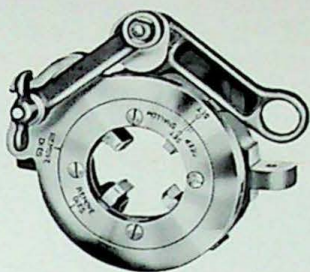
Reaming is Smooth and Quick

PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

MODEL No.	PART NUMBERS			DESCRIPTION
	115 V.	230 V.	220-440 V.	
	19313	19458	19459	Less All Die Heads & Dies—with Wheel Cutter and Spin-Torque Chuck
999-B	19460	19461	19462	With One Quadra-Type Die Head & Dies 1" to 2" and One Duo-Type Die Head & Dies $\frac{1}{2}$ " & $\frac{3}{4}$ " with Wheel Cutter and Spin-Torque Chuck
999-B	19463	19464	19465	With 3 Duo-Type Die Heads & Dies $\frac{1}{2}$ " to 2" with Wheel Cutter and Spin-Torque Chuck
999-B	19466	19467	19468	With 6 Mono-Type Die Heads & Dies $\frac{1}{2}$ " to 2" with Wheel Cutter and Spin-Torque Chuck
999-B				See Page 18 For Die Heads and Dies as well as other Accessories
STAND		18506		Enclosed Stand with Rubber Tired Wheels
STAND		18507		Enclosed Stand with Steel Tired Wheels



TOLEDO / BEAVER TOOLS



DIE HEADS Mono-Type, Duo-Type and Bolt

All Beaver Die heads are the quick-opening, fully-adjustable type. Duo-type heads thread two sizes of pipe with the same set of dies. Mono-type die heads thread just one size of pipe or bolt with one set of dies. The small die head handles $\frac{1}{4}$ " to 1" bolts and $\frac{1}{8}$ " to $\frac{3}{4}$ " pipe. The large size handles $\frac{1}{8}$ " to 2" bolts and 1" to 2" pipe. Duo-type heads also graduated for bolt dies. Shpg. Wt. 9 lbs.

MACHINE DIES

Specify type die head for which dies are required.

Pipe Dies—R.H.

For Pipe or Conduit— $\frac{1}{8}$ " to 2"
Mono-Type—Shpg. Wgt. $1\frac{1}{4}$ lbs.
Duo-Type—Shpg. Wgt. $1\frac{1}{4}$ lbs.

Left Hand Pipe Dies and Special Pipe or Conduit Dies for Stainless Steel, Aluminum, Brass and other materials available in most sizes. R.H. or L.H. Shpg. Wt. $1\frac{1}{4}$ lbs.

R.H. or L.H.—Shpg. Wgt. $1\frac{1}{4}$ lbs.

Price on Application

British Whitworth Dies—Available in Duo-Type Only

Quadra-Type—1" to 2"

For 1" to 2" Pipe or Conduit only. 1 set dies threads all sizes 1" to 2". Available R.H. only. Shpg. Wt. $1\frac{1}{4}$ lbs.

Special Dies for Brass, Aluminum, Stainless Steel and other materials available. R.H. Only. Price on application.

Bolt Dies—High Speed— $\frac{1}{4}$ " thru 2"

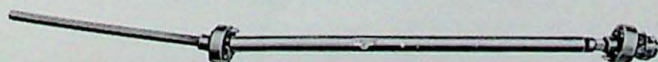
RH, USS (NC) per set—Shpg. Wgt. $1\frac{1}{4}$ lbs.
RH, NF (SAE) per set—Shpg. Wgt. $1\frac{1}{4}$ lbs.
USS (NC) LH per set—Shpg. Wgt. $1\frac{1}{4}$ lbs.

WRENCHLESS CHUCK (SPIN-TORQUE)

Range $\frac{1}{8}$ " to 2" Pipe; $\frac{1}{4}$ " to 2" Bolts

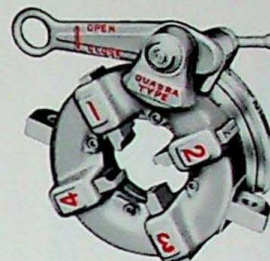
Amazingly fast, simple and quick acting wrenchless chuck. Rocker grip jaws grip with pipe wrench principle. Forward or reverse. No hammering or socking. Easily and quickly adjustable to work by simple easy turn of hand wheel. Machine Power sets the Rocker Grip Jaws in action. Easily adapted to old machines.

UNIVERSAL DRIVE SHAFT



Heavy Duty for operating geared tools

PART No. 60701—Shipping Weight 26 lbs.



THE NEW QUADRA-TYPE DIE HEAD

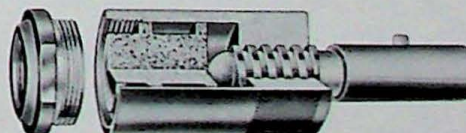
Threads 1", $1\frac{1}{4}$ ", $1\frac{1}{2}$ " and 2" pipe or conduit. Assures threads of perfect length and pitch. Adjustable for over and under standard. For pipe and conduit only. Fits all Beaver machines. Also used with adaptor on Speed King machine.

Part No. 17149—Shpg. Wt. 9 lbs.



PORTABLE ENCLOSED STANDS for MODEL A or No. 999 or SPEED-O-MATIC MACHINES

w/Rubber Tired Wheels—18506
w/Steel Tired Wheels—18507
Shipping Weight 87 lbs.



No. 55 NIPPLE CHUCK

$\frac{1}{2}$ " to 2"—17244. Shpg. Wt. 13 lbs.
 $\frac{3}{8}$ " to 2"—17246. Shpg. Wt. 15 lbs.
Kit Box Extra—17248. Shpg. Wt. 3 lbs.
For use with any machine.



TOLEDO / BEAVER TOOLS



5 GAL. PAILS
ALSO
55
GALLON DRUMS



1 GAL.
CONTAINERS
STACK EASY
IN STORAGE



1 QT.
CONTAINERS
HAVE
HANDY
"EZY-POR"
SPOUTS

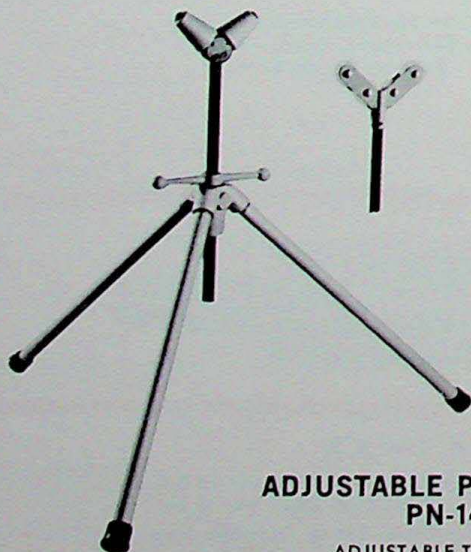
NEW THREADEZY CUTTING OIL

A New Era in Cutting Oils
SUPERIOR QUALITY at POPULAR PRICES
Choice of either Dark or Clear

TOLEDO offers a superior grade of cutting oil—either dark or clear—unexcelled for hand or power machines. Recommended for use on all TOLEDO Power Drive and Power Pipe Machines. Improves Threads, increases die life. Highly satisfactory for most metal cutting operations. Antiseptic. Handy inverted "EZY-POR" spouts on quart containers and 5 gallon pails allow oil to be directed to work without waste. Spouts reverse to re-seal if desired.

THREADEZY OIL CONTAINERS STACK EASILY IN STORAGE

Sizes	Per Carton	Weight
1 Quart	24	56 lbs
1 Gallon	6	51 lbs
5 Gallon		42 lbs
55 Gallon		460 lbs



ADJUSTABLE PIPE SUPPORT
PN-14151

ADJUSTABLE TUBE SUPPORT
w/ NYLON ROLLERS PN-14938



EZY OILER

• REAL CONVENIENCE • LOW COST • PAYS FOR ITSELF WITH 1 PAIL of OIL • SIMPLIFIED, EZY PRESS FLO-BULB • LIGHTWEIGHT

This low cost OIL CONTROL SYSTEM . . . Toledo's EZY-OILER . . . not only conserves oil but eliminates messy floors around machines and the extra cleanup time required after the job is done.

The EZY-OILER provides the constant flow of oil needed to keep dies sharp, makes the dies last longer. It is complete ready for work. The transparent hose is equipped with EZY-PRESS Flo-Bulb, and Nozzle to direct constant flow of oil to the work. The EZY-OILER Funnel is equipped with oil strainer permitting reuse of oil, over and over.

The low cost EZY-OILER makes it practical to have more than one available for use in even the smallest shops. For clean, accurately cut threads use the Toledo EZY-OILER and superior quality, popularly priced, Toledo ThreadEzy Oils.

PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

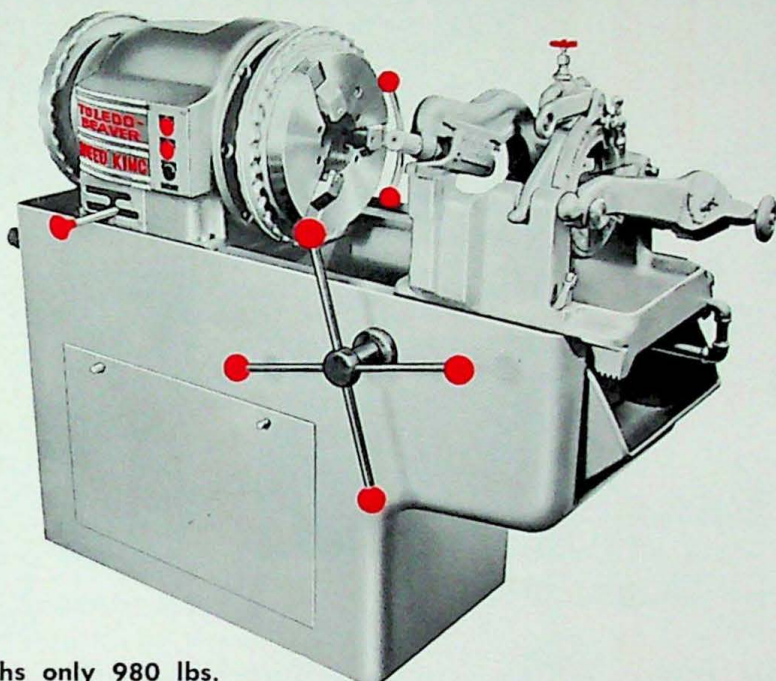
MODEL No.	PART No.	DESCRIPTION
EZY-OILER	15047	EZY-OILER KIT (Includes Pump and Funnel)



TOLEDO/BEAVER TOOLS

NEW "SPEED KING" 727 4" PIPE MACHINE

CAPACITY: 1/2" TO 4" PIPE, 1/2" TO 2" BOLT STOCK



Weights only 980 lbs.

- Wheel and Roller Cutoff is standard equipment.
- Double rack and pinion feed—for positive carriage feeding.
- Carriage travel 14 inches. Nipples as short as 9 inch.
- Equipped with the original Power Grip Wrenchless Chuck. Power Grip inserts give positive grip—forward or reverse.
- Gears lubricated for life. Zerk fittings used to lubricate bearings.
- Oil Sump—capacity, 5 gallons.
- Floor Space, 32 x 57 inches.
- Height, 47 inches.
- Height to Center of Chuck, 39 inches.
- Diameter of Spindle Bore, 4 3/4 inches.
- Maximum distance, chuck to cutoff tool, 13 inches.
- Floor Space, 32 x 57 inches.
- Carriage Travel, 14 inches.
- V-Belt Drive.
- Chucks: Wrenchless in front. Scroll type centering device in rear.
- Five segments in 2 1/2 to 4 inch set of dies.
- Four segments in all sizes up to and including 2 inch.
- Coolant Pump: Belt Drive off motor—plenty of coolant at all times, regardless of speed . . . Positive displacement type pump.
- Motor: 1800 r.p.m., 3 h.p., 220/440, 3 phase, 50 or 60 cycle. Motors of other specifications available. Price on request.
- Motor Control: Magnetic Starter with push button control—start, jog, stop—on standard machine.
- Shipping weight, 1 to 4 inch, 1285 lbs.
- Shipping weight, 1/2 to 4 inches, 1295 lbs.

Four Spindle Speeds, 19-24-38-74 RPM

Die head and Cutoff Carriers throw-out—ideal for making up fittings. Knife-Type or Wheel and Roller Cutoff.

Rear Pipe Centering Device is standard equipment. Fittings and flanges may be made up in the front chuck.

ONE QUADRA-TYPE DIE HEAD using only 1 set of dies threads 2 1/2, 3, 3 1/2 and 4 inch . . . ONE QUADRA-TYPE DIE HEAD and 1 set of dies threads 1, 1 1/4, 1 1/2 and 2 inch . . . ONE DUO-TYPE DIE HEAD and 1 set of dies threads 1/2 and 3/4 inch pipe or conduit . . . BOLT RANGE 1/2 to 2 inch.

PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

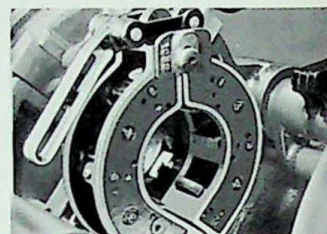
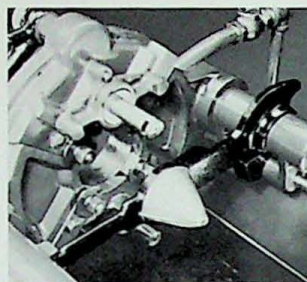
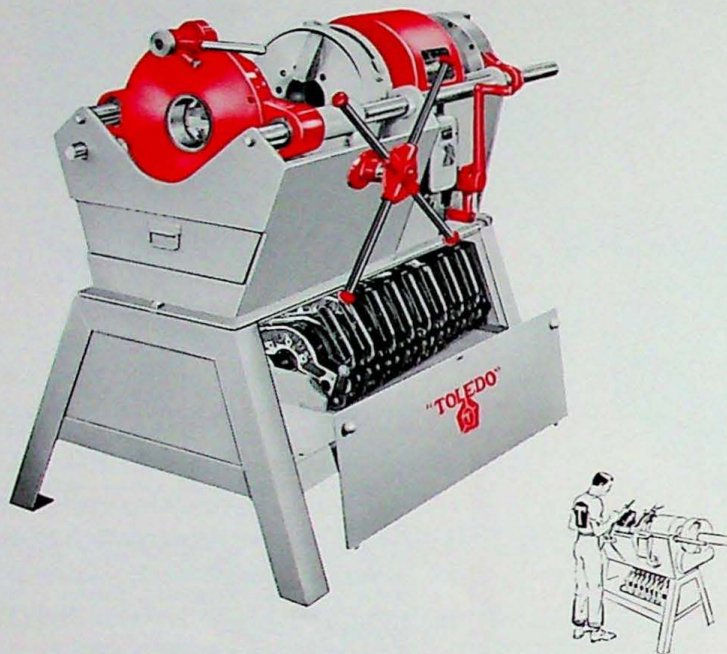
PART No.	SPEED KING 4-INCH PIPE MACHINE		
17270	Base Machine, with no threading equipment, with wheel and roller cut-off	17149	Quadra-type 1" to 2" Duo-type 1/2" x 3/4", 1" x 1 1/4", or 1 1/2" x 2" Small Mono-type, Specify size—pipe or bolt—2" maximum
17271	Complete Machine with 1 Quadra-type Die Head and Dies to thread 2 1/2" to 4" pipe with wheel and roller cut-off		DIES FOR ABOVE DIE HEADS
17272	Complete Machine with 2 Quadra-type Die Heads and Dies to thread 1" to 4" pipe (includes adaptor for small die heads) with wheel and roller cut-off	68087	2 1/2" to 4" Quadra-type—(only 1 set required) 5 segments
17273	Complete Machine with 2 Quadra-type and 1 Duo-type head and Dies to thread 1/2" to 4" pipe (includes adaptor) with wheel and roller cut-off All above prices include 3 H.P. 220/440 V., 3 phase, 50 or 60 cycle Motor and Magnetic starter. Other motors available. Price on application.	67493	1" to 2" Quadra-type—(only 1 set required) 4 segments Duo-type, Specify size, 4 segments Mono-type, Specify size, 1/2" thru 2" (4 segments)
	EXTRA DIE HEADS, LESS DIES		BOLT DIES
17195	Quadra-type 2 1/2" to 4"	17151	1/2" to 2" N.C. for use in standard bolt dieheads Same as above, Left Hand N.C. Same as above, N.F. Right Hand Cutter Wheel for wheel and roller cutter



TOLEDO / BEAVER TOOLS

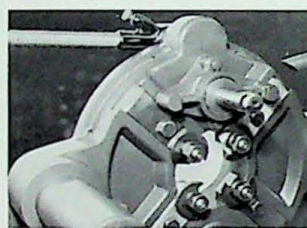
No. 1-2-4 POWER PIPE MACHINE

For high speed high production, efficient heavy duty Capacity: 1/2" to 4" pipe, 3/8" to 2" bolts, 1/2" to 4" conduit

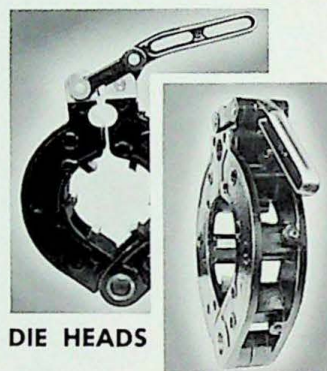


THREADING

REAMING



CUTTING



DIE HEADS

THREADING . . . The No. 1-2-4 uses a separate set of dies for each size of pipe, resulting in longer die life, cleaner, better threads. Threading is unusually fast—2" pipe only 18 seconds; 3" pipe only 30 seconds; 4" pipe only 42 seconds. All time study figures were made with full length threads. A nipple as short as 4 1/2" can be cut without nipple chuck.

CUTTING . . . Four double-edge high speed steel knives make the Toledo 1-2-4 the fastest cutting-off pipe machine available. Cuts 2" pipe in 3 1/2 seconds; 4" pipe in 9 seconds. Convenient ratchet handle located on top of cutter-head feeds the four knives simultaneously.

REAMING . . . The cone-shaped single blade reamer swings easily into position for quick, clean reaming. Material removal is distributed along the entire cutting edge, instead of one point. Blade is easily removed for regrinding or replacement. A special reaming and chamfering tool with holder can be attached to the reamer arm.

DIE HEADS . . . Specially designed, quick-opening die heads are furnished for each size of pipe. Recognized as the most successful design by leading manufacturers,

it eliminates the weakness of sliding die and scroll construction—insures maximum wear and ample chip clearance. Individual adjusting screw for each die distributes wear evenly.

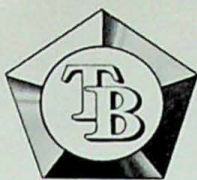
CHUCKS . . . Two three-jaw universal type, front and rear, have three wrench positions. Throw-out fingers eject wrench if left in chuck. Rear chuck equipped with step-jaws and pipe tong supports. Front chuck jaw extensions available. Also adaptor plate for small bolt die heads.

OIL PUMP . . . Centrifugal oil pump will pass chips without clogging or damage. The entire cutting oil system is easily accessible to the operator.

CONTROLS, GEARS, MOTOR . . . Six spindle speeds are obtainable with one clutch lever and gear shift, with speeds varying from 17 1/2 to 144 RPM. All gears are machine cut and accurately fitted, and rugged enough to withstand years of severe service. Gear train is easily accessible to operator. Safety equipped with friction gear, multiple disc clutch, and thermal overload circuit breaker. A 3 HP heavy-duty motor is mounted on the rear of machine, and assures a surplus of power for all operating conditions. Silent chain drive adjusts easily.

PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

MODEL No.	PART No.	DESCRIPTION
1-2-4	14135	Less All Die Heads & Dies—With 220-440 Volt, 3 Phase, 60 Cycle Motor
1-2-4	14137	Less All Die Heads & Dies—With 230 Volt, 60 Cycle, 1 Phase Motor
	4719	Add Desired Sizes of Die Heads and Dies
	4720	Die Head for 1" or 1 1/4" Sizes
	4721	Die Head for 1 1/2" or 2" Sizes
	4722	Die Head for 2 1/2" or 3" Sizes
	4722	Die Head for 3 1/2" or 4" Sizes
		R.H. Dies, 1" or 1 1/4" Pipe, Per Set, Each Size
		R.H. Dies, 1 1/2" or 2" Pipe, Per Set, Each Size
		R.H. Dies, 2 1/2", 3", 3 1/2" or 4" Pipe, Per Set, Each Size
	14151	Adjustable Pipe Support



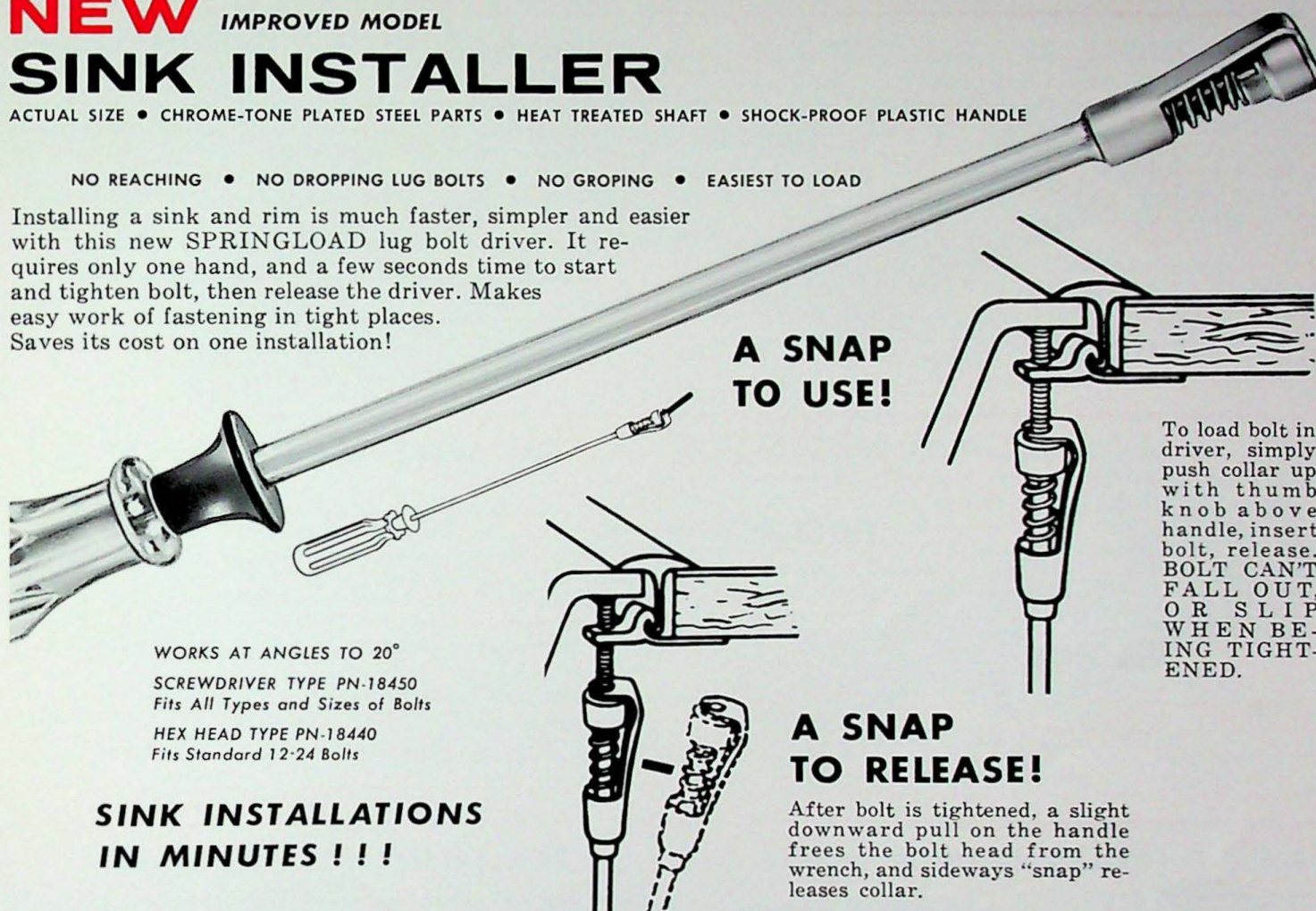
TOLEDO / BEAVER TOOLS

NEW IMPROVED MODEL SINK INSTALLER

ACTUAL SIZE • CHROME-TONE PLATED STEEL PARTS • HEAT TREATED SHAFT • SHOCK-PROOF PLASTIC HANDLE

NO REACHING • NO DROPPING LUG BOLTS • NO GROPING • EASIEST TO LOAD

Installing a sink and rim is much faster, simpler and easier with this new SPRINGLOAD lug bolt driver. It requires only one hand, and a few seconds time to start and tighten bolt, then release the driver. Makes easy work of fastening in tight places. Saves its cost on one installation!



**SINK INSTALLATIONS
IN MINUTES!!!**

GUARANTEED TO CUT INSTALLATION COSTS . . . REDUCE CALLBACKS AND SERVICE CALLS, AND VIRTUALLY ELIMINATE LEAKS!

You'll get faster, water-tight installations every time with this easy-to-use two-piece set. Strainer installer holds strainer tight, prevents sealing compound from working out while spanner wrench pulls gasket to a water-tight joint. Knurled nut makes strainer wrench easy to adjust in seconds with one hand. Guaranteed not to slip.

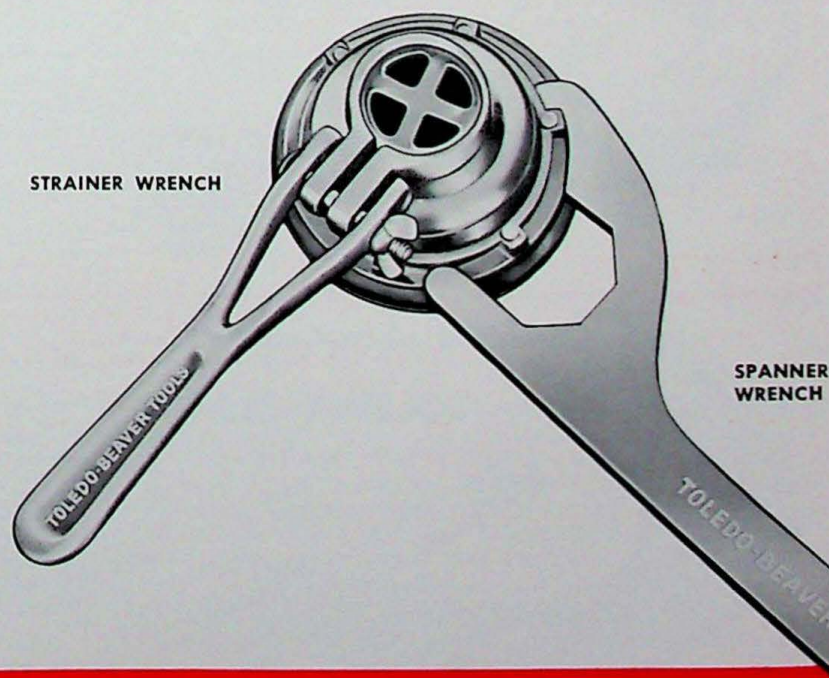
Tools are designed to fit any basket strainer with a 1½" thread. Spanner wrench also fits hexagonal slip nut. Will not damage lugs, threads or finish.

Strainer Installer is drop forged, to handle the toughest jobs without breaking. Both tools smooth finished and Chrome-Tone plated to prevent rust.

Order Tools Individually or As-a-Set

STRAINER WRENCH (9" Overall) PN-18453

SPANNER WRENCH (11" Overall) PN-18458





TOLEDO/BEAVER TOOLS

755-C . . . Handy Tool To Carry, Only 3½" Overall



JUNIOR

New, Streamlined, improved design of this smaller tube cutter, takes all tubing sizes from 1/8" thru 3/4" outside diameters. It makes a clean right-angle cut without flattening the tube. Its compact size—only 3½" overall length—remains the same regardless of size tubing being cut. It's the handy tool for hard-to-reach places, handy to carry. Threads are protected against dirt and damage by enclosed feed mechanism.

PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

MODEL No.	PART No.	DESCRIPTION	WGT.
755-C	14501	Tube Cutter for 1/8" to 3/4" O.D. Tubing (1/8" to 3/4" nominal)	5 ozs.

753-C . . . HAS SPARE WHEEL and REAMER



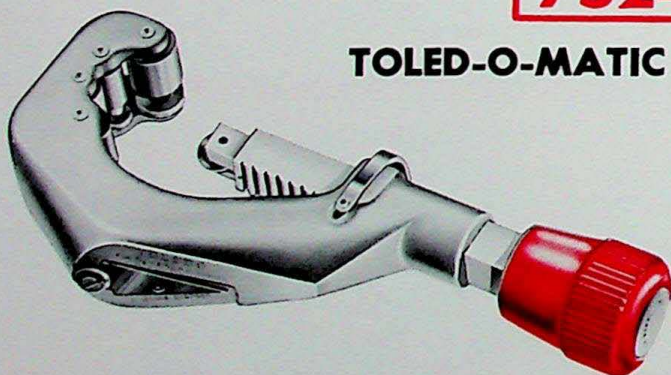
TWO-IN-1

Toledo's standard long-service tube cutter has spare cutting wheel in recess in the body of the cutter under the reamer. Fold-away, handy reamer locks securely in open position. Toledo's Tube Cutter is easiest operating because of ball thrust bearings in handle. Its two rollers have Flare cut-off grooves, makes it possible to remove cracked flares without removing tubing. Cutter remains same size overall regardless of tubing size being cut.

PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

MODEL No.	PART No.	DESCRIPTION	WGT.
753-C	14500	Tube Cutter for 1/8" to 1 1/8" O. D. Tubing (1/8" to 1" nominal)	6 ozs.

752-C . . . FOR LARGER SIZES of TUBING



TOLED-O-MATIC

Cutter can be opened instantly to maximum size simply by pressing down release on ratchet mechanism. Toled-o-matic Cutters have enclosed feed mechanism with threads protected against damage and dirt to insure lasting, easy operation. Large fluted handles provide secure grip. Push on handle to slide cutting wheel down to tubing size, then feed in conventional manner by turning operating handle. Toled-o-matic Cutters are strong, lightweight, easy to handle; assuring clean right angle cuts in hard or soft temper tubing.

PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

MODEL No.	PART No.	DESCRIPTION	WGT.
752-C	14502	Tube Cutter for 3/8" to 2 5/8" O.D. (3/8" to 2" nominal)	1 1/2 lbs.

754-C . . . FOR "DWV" and Other Large Sizes

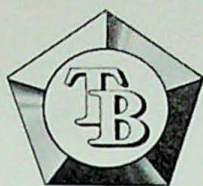


TOLED-O-MATIC

Designed for wide range of tubing sizes—2 1/8" thru 4 1/8" O.D. (2" to 4" nominal), including DWV Copper Tubing (Drain, Waste and Vent). Adjusts instantly to size of tube to be cut merely by pushing handle. The cutting wheel slides down to tubing and is then fed in conventional manner by turning operating handle. Opens instantly by pressing release on ratchet mechanism. Flare Cut-off grooves provided in all Toled-o-matic Cutters. Light, strong, durable aluminum alloy body. Quality checked for long-life service.

PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

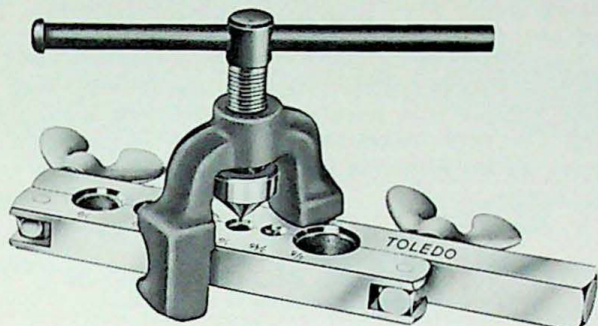
MODEL No.	PART No.	DESCRIPTION	WGT.
754-C	14503	Tube Cutter for 2 1/8" to 4 1/8" O.D. (2" to 4" nominal)	2 lbs.



TOLEDO / BEAVER TOOLS

756-F

... FOR FAST. EASY 45° FLARES



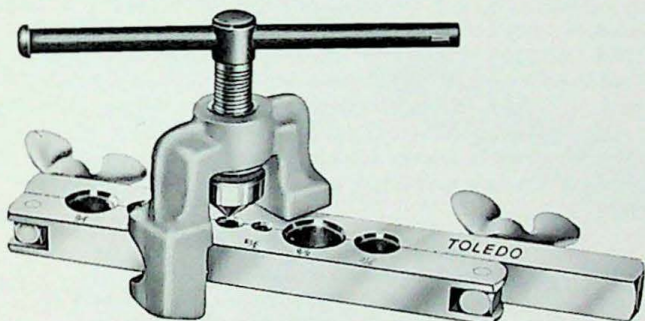
All Toledo Flaring Tools have quick slip-on type forged steel yokes which provide exceptional ease and speed of operation. The yoke, with hard chrome-finished swivel cone, slips over the bar without having to twist or turn it . . . easy centering . . . thumb pressure holds yoke securely in position over tubing. Its design and construction also permits operation where little space exists between nut and end of tubing. Flaring bars have positive, special non-slip feature.

PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

MODEL No.	PART No.	DESCRIPTION	WGT.
756-F	14504	Flaring Tool for 3/16", 1/4", 5/16", 3/8", 1/2", 5/8" O.D. Tubing (1/8", 1/4", 3/8" and 1/2" nominal)	1 1/2 lbs.

760-F

... POPULAR ECONOMY TOOL



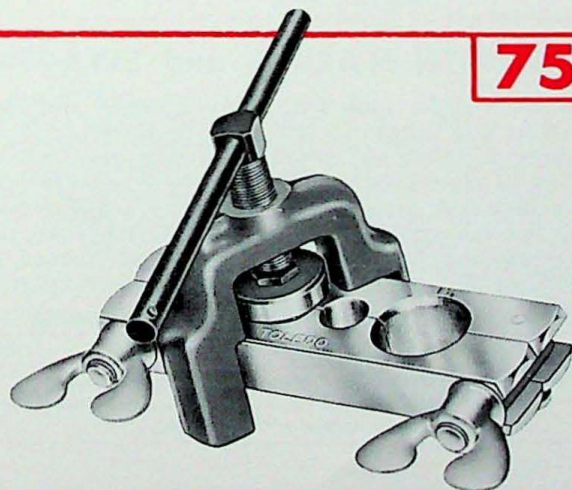
This economical and efficient Toledo Flaring Tool does a fast job of making 45° flares on soft copper, brass, or aluminum tubing. It flares seven sizes—3/16" through 5/8" O.D. Tubing. The quick slip-on type yoke with swivel type hard-chrome flaring cone, adds ease of operation and assures smooth, accurate 45° flares. 45° flares, most frequently used type, are required when tubing is to be connected with S.A.E. 45° flare fittings. Automotive, industrial, liquefied petroleum, plumbing, heating, air-conditioning, are among applications.

PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

MODEL No.	PART No.	DESCRIPTION	WGT.
760-F	14508	Flaring Tool flares 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", and 5/8" O.D. Tubing (1/8", 1/4", 3/8", & 1/2" nominal)	1 3/4 lbs.

759-F

... 4 MOST POPULAR PLUMBING SIZES



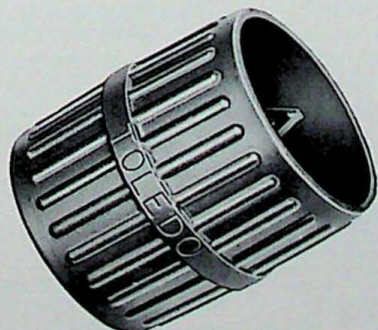
Flaring of larger size tubing for S.A.E. flared joints is made extremely simple by this heavier duty Toledo Flaring Tool. It is ideal for large tubing jobs on plumbing work, refrigeration, and other applications where large size tubing is involved. The latest type slip-on yoke can be slipped over the bar without undue fuss, and is held securely in place by thumb pressure. Wing nuts have swivel cups to minimize friction and tighten easier. Yoke has hard chrome finished cone.

PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

MODEL No.	PART No.	DESCRIPTION	WGT.
759-F	14507	Flaring Tool for 3/4", 1", 1 1/4", & 1 1/2" O.D. Tubing (1/2", 3/4", 1" and 1 1/4" nominal)	4 lbs.

775-R

... Inside-Outside Reamer



This handy Toledo Reamer reams both the outside and inside edges of copper, brass, or aluminum tubing. It will ream tubing sizes 3/8" thru 1 1/2" O.D. The Toledo Reamer cuts in either direction and is self-centering. Tubing is introduced from one end of the tool for inside reaming and from the other end for outside reaming. The Toledo Reamer has three hardened, hollow-ground, tool steel cutters to give it an exceptionally long service life. The body of the Toledo Reamer is fluted for easy handling.

PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

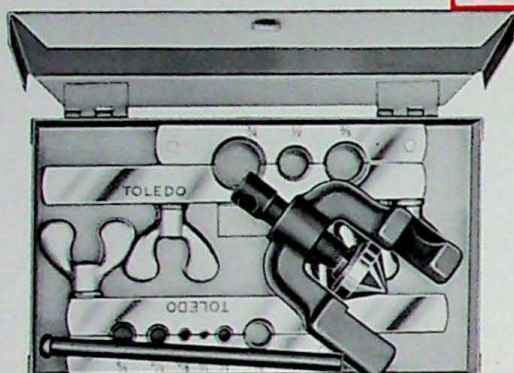
MODEL No.	PART No.	DESCRIPTION	WGT.
775-R	14523	Inside-Outside Reamer 3/16" to 1 1/2"	3/4 lb.



TOLEDO / BEAVER TOOLS

758-F

... WIDE RANGE, Flares 9 Tubing Sizes



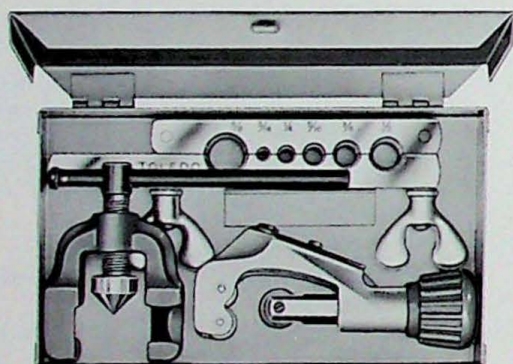
This Toledo tool eliminates the necessity of having several tools to cover a complete size range . . . Small, compact, and easy to work with. The Toledo Wide-Range Flaring Tool consists of two flaring bars and one yoke. One of the bars flares $\frac{1}{8}$ " thru $\frac{7}{16}$ " O.D., and the other flares $\frac{1}{2}$ " thru $\frac{3}{4}$ " O.D. sizes. Slip-on type yokes of forged steel are self-centering for direct positioning of the hardened chrome swivel-cone over the tubing. The cone makes smoother, finer flares.

PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

MODEL No.	PART No.	DESCRIPTION	WGT.
758-F	14506	Flaring Tool for $\frac{1}{8}$ ", $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ ", and $\frac{3}{4}$ " O.D. Tubing. ($\frac{1}{4}$ ", $\frac{1}{2}$ ", $\frac{3}{4}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ " nominal). Complete in Metal Case.	4 $\frac{3}{4}$ lbs.

774-K

... CUTTING and FLARING (Kit)



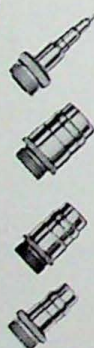
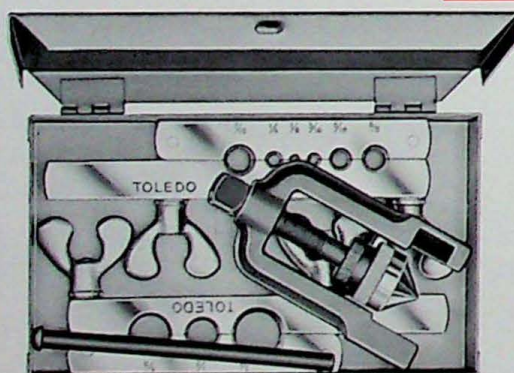
Toledo provides you with this complete tool kit for flaring and cutting operations, on copper, brass, and aluminum tubing. It consists of one Toledo No. 756-F flaring tool and one Toledo No. 753-C cutting tool. The flaring tool, with slip-on yoke and hardened chrome cone, handles all sizes of tubing from $\frac{3}{16}$ " thru $\frac{5}{8}$ " O.D. The cutter, with spare cutting wheel and retractable reamer, makes clean right angle cuts on $\frac{1}{8}$ " thru $1\frac{1}{8}$ " O.D. tubing. It leaves no chips or burrs to clog the line.

PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

MODEL No.	PART No.	DESCRIPTION	WGT.
774-K	14522	Flares $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ " O.D. (Nominal sizes $\frac{1}{8}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ") Cuts $\frac{1}{8}$ " to $1\frac{1}{8}$ " O.D. sizes ($\frac{1}{8}$ " to 1 " nominal). Complete in Metal Case.	3 lbs.

757-F

... FOR BOTH FLARING and SWAGING



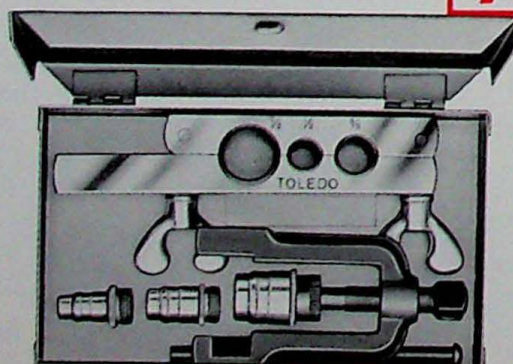
This complete Toledo tool with flaring cone and swage adapters will flare $\frac{1}{8}$ " thru $\frac{3}{4}$ " O.D. tubing. Swages $\frac{3}{16}$ " thru $\frac{3}{4}$ " O.D. tubing ($\frac{1}{8}$ " thru $\frac{5}{8}$ " nominal). Toledo Swaging Tool swages tubing in close quarters where it is sometimes impossible to use punch-type tool. The parts in the complete Toledo tool include two bars, covering a range of 9 sizes, yoke, adapters for swaging, and spreader cone for flaring. Swivel type swaging adapters and spreader cone for easy operation.

PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

MODEL No.	PART No.	DESCRIPTION	WGT.
757-F	14505	Wide-Range Flaring and Swaging Tool with Flaring Cone and 4 Swage Adapters. Complete in Metal Case.	3 $\frac{1}{2}$ lbs.

761-S

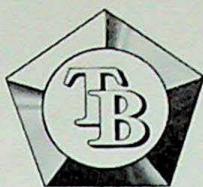
... FOR SWAGING 3 PLUMBING Sizes



Here is the easy, reliable way to swage tubing. Toledo Swaging Tool for use on soft copper, brass, or aluminum tubing will swage $\frac{1}{2}$ " thru $\frac{7}{8}$ " O.D. ($\frac{3}{8}$ " thru $\frac{3}{4}$ " nominal). It features slip-on, self-centering, forged steel yoke. The yoke slips straight down over top of bar, locks into position with slight turn. Adapters change easily without use of tools. It is far easier to work in close quarters with Toledo Swaging Tools. Far more reliable and accurate, too.

PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

MODEL No.	PART No.	DESCRIPTION	WGT.
761-S	14509	Swaging Tool complete in Metal Case. For $\frac{1}{2}$ ", $\frac{3}{4}$ ", and $\frac{7}{8}$ " O.D. ($\frac{3}{8}$ ", $\frac{1}{2}$ ", and $\frac{3}{4}$ " nominal).	2 $\frac{1}{2}$ lbs.



TOLEDO / BEAVER TOOLS



LEVER TYPE

767-LB

... FOR 1/4" and 5/16" O.D.

(IT REQUIRES A SEPARATE BENDER FOR EACH SIZE)

Strong, durable and lightweight Toledo "Open-Side Lever-Type" Tubing Benders form neat accurate bends to short radius without marring or deforming tubing. Especially easy to use in hard-to-get-at places. No. 767-style Lever-Type Benders are for 1/4" and 5/16" O.D., 1/8" Nominal Size, for bending either hard or soft tubing.

PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

MODEL No.	PART No.	DESCRIPTION	WGT.
767-LB	14515	Toledo Lever Type Bender for 1/4" O.D. Tubing, 9/16" Radius	3/4 lb.
768-LB	14516	Toledo Lever Type Bender for 5/16" O.D. Tubing, 1 1/16" Radius	1 1/4 lbs.



LEVER TYPE

769-LB

... FOR 3/8" and 1/2" O.D.

(IT REQUIRES A SEPARATE BENDER FOR EACH SIZE)

Like all Toledo Lever-Type Benders, the No. 769 is calibrated for easy degree reading up to 180°. With its "Open-Side" feature, tubing can be bent at the exact spot where the bend is desired. Toledo Benders will bend hard drawn copper, steel (including JIC), aluminum, and stainless steel tubing, thin wall conduit, in addition to soft tubing.

PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

MODEL No.	PART No.	DESCRIPTION	WGT.
769-LB	14517	Toledo Lever Type Bender for 3/8" O.D. Tubing, 1 5/16" Radius	1 3/4 lbs.
770-LB	14518	Toledo Lever Type Bender for 1/2" O.D. Tubing, 1 1/2" Radius	3 1/2 lbs.



LEVER TYPE

773-LB

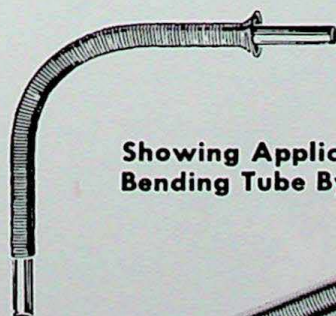
... FOR 5/8", 3/4" and 7/8" O.D.

(IT REQUIRES A SEPARATE BENDER FOR EACH SIZE)

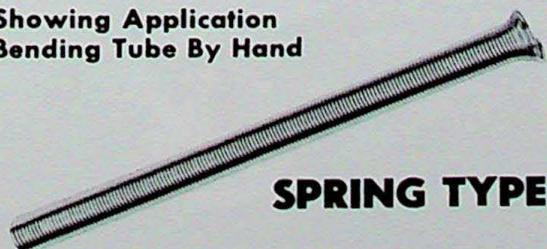
Nos. 771 thru 773 Toledo Lever-Type Tubing Benders bend 5/8", 3/4" and 7/8" O.D. tubing—either hard or soft. Easy-to-read calibrated dial, a Toledo feature, insures accurate, perfect bends up to 180°. Easy to use.

PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

MODEL No.	PART No.	DESCRIPTION	WGT.
771-LB	14519	Toledo Lever Type Bender for 5/8" O.D. Tubing, 2 1/4" Radius	10 lbs.
772-LB	14520	Toledo Lever Type Bender for 3/4" O.D. Tubing, 3" Radius	10 1/2 lbs.
773-LB	14521	Toledo Lever Type Bender for 7/8" O.D. Tubing, 3" Radius	10 1/2 lbs.



Showing Application
Bending Tube By Hand



SPRING TYPE

762-SB

... FOR 1/4" thru 5/8" O.D. Sizes

(IT REQUIRES A SEPARATE BENDER FOR EACH SIZE)

Efficient, low cost, external Spring-Type for bending tubing by hand. You can bend any desired shape without collapsing the tubing. Toledo Spring-Type Benders consist of especially prepared spring-wire coil. Available in five sizes for 1/4" thru 5/8" O.D., copper, aluminum, and other soft, thin-wall metal tubing. Nickel finish, with belled end.

PLEASE SPECIFY BOTH THE MODEL & THE PART NUMBER

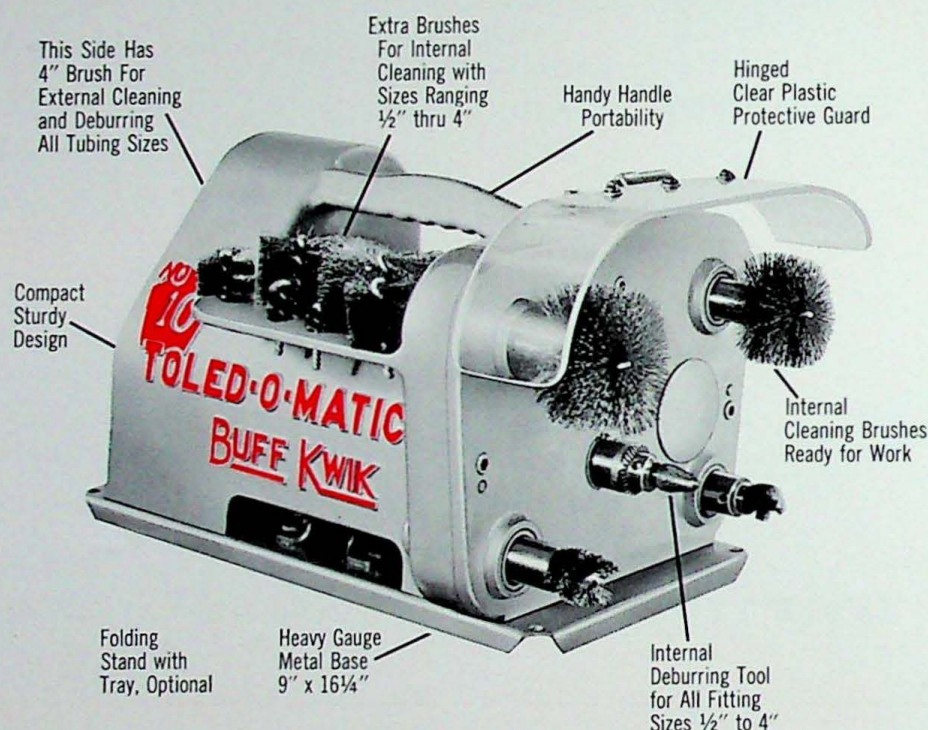
MODEL No.	PART No.	DESCRIPTION	WGT.
762-SB	14510	Spring Type Bender for 1/4" O.D. Tubing	3 ozs.
763-SB	14511	Spring Type Bender for 5/16" O.D. Tubing	3 ozs.
764-SB	14512	Spring Type Bender for 3/8" O.D. Tubing	4 ozs.
765-SB	14513	Spring Type Bender for 1/2" O.D. Tubing	6 1/2 ozs.
766-SB	14514	Spring Type Bender for 5/8" O.D. Tubing	8 ozs.



TOLEDO-BE AVER TOOLS

TOLED-O-MATIC No. 10 "BUFF-KWIK"

- CLEANS, DEBURRS TUBES and FITTINGS • ELIMINATES COSTLY HANDWORK
- FASTER, BETTER CLEANING and DEBURRING • ELIMINATES LEAKS, COSTLY RE-WORKING



Part No. 16396
Stand Only 12796

INCREASES COPPER TUBE FINISHING OPERATIONS 100%—HANDLES ALL SIZES 1/2" THRU 4". SAVE 50% ON CLEANING OPERATIONS. IT'S NEW FOR COPPER TUBING AND FITTINGS

The NEW Toledo-O-matic No. 10 "Buff-Kwik" cleans and deburrs in half the time compared to other methods. Greatly increased production in prefabrication of copper tubing and fittings is achieved by a single operator. It is a compact, self-contained, portable unit for either bench or stand mounting. The Toledo-Beaver "Buff-Kwik" is completely equipped, ready for work on-the-job or in-the-shop.

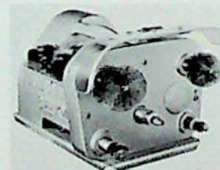
The "Buff-Kwik" features 10 brushes with a range of 1/2" thru 4" for the internal cleaning of copper tube fittings. Any 4 of these can be mounted in place in the chucks on the machine. The remaining chuck holds rotary deburring tool for all internal deburring. A permanently mounted 4" brush is located at opposite end of machine. This is for external cleaning operations on all tubing 1/2" thru 4" sizes. See illustration at lower right. A hardened circular deburring cutter (drum) is located directly behind the brush for removing external burrs. The adjustable guide with rest-plate is for positive control of all tubing sizes handled by the operator. All spindles operate at proper speed for safety and the control of finishing brightness desired.

The practical design of the Toledo-Beaver "Buff-Kwik" makes it ideal for two operators to work at the machine. While one operator cleans the O.D. of tubing at one end of machine, the other operator cleans the I.D. of the fittings at opposite end. Thus it is possible to increase production by as much as 100%.

The "Buff-Kwik" Machine is only 14" wide x 10 1/2" high x 19" long; overall. It has hinged, clear plastic protective guard over internal cleaning brushes. It is equipped with carrying handle and chuck key. The heavy gauge metal base, 9" x 16 1/4", provides for easy mounting to bench or stand. The machine without stand weighs only 55 lbs., which makes it truly portable to and from any job. Its 1/2 H.P., single phase motor operates on 115 volts, AC-60 cycle current.

Manufactured and Quality-Checked by TOLEDO-BE AVER TOOLS, INC., you can depend upon longer, trouble-free operation and increased production. This modestly priced Toledo-O-Matic No. 10 "Buff-Kwik" Machine is available thru authorized TOLEDO-BE AVER Distributors. Ask, too, about the complete TOLEDO-BE AVER line of copper working tools and machines.

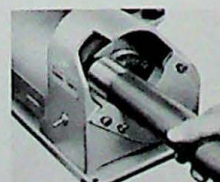
Set up ready for internal cleaning and deburring operations. Machine handles 1/2" to 4" fittings.



3" T-fitting being cleaned internally for assembly with tubing, to insure lifetime joints.

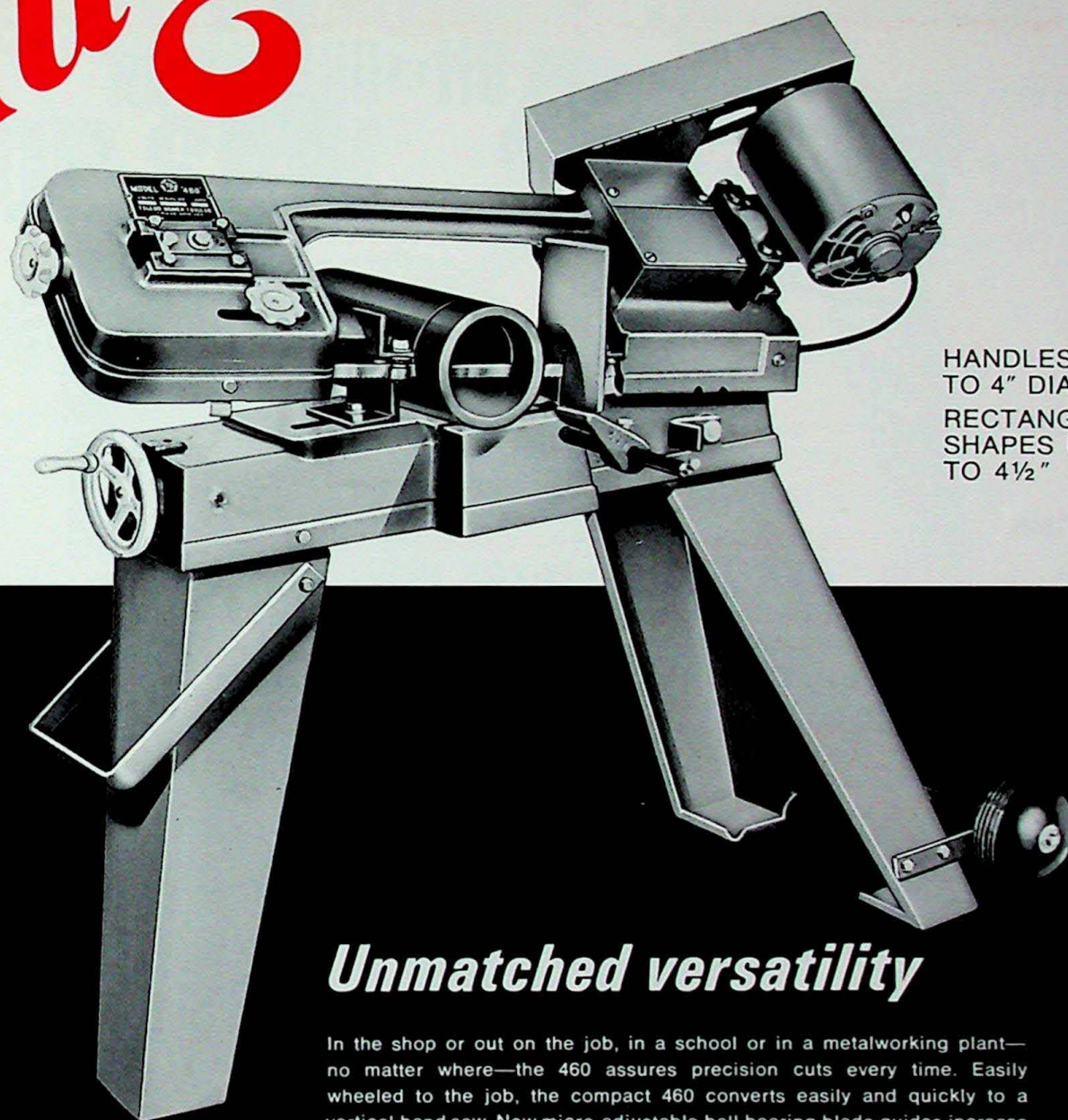


Operator has clear view of external cleaning and deburring operation on 1/2" thru 4" tubing sizes.



Introducing

THE 460 METAL CUTTING BAND SAW



HANDLES PIPE UP
TO 4" DIAMETER,
RECTANGULAR
SHAPES UP
TO 4½"

Unmatched versatility

In the shop or out on the job, in a school or in a metalworking plant—no matter where—the 460 assures precision cuts every time. Easily wheeled to the job, the compact 460 converts easily and quickly to a vertical band saw. New micro-adjustable ball bearing blade guides increase blade life. And best of all, it's backed by the reliable Toledo-Beaver name.

- Three blade speeds—65, 120, 220 FPM—assure ample cutting range.
- Blade completely guarded for maximum safety.
- Tough, ribbed cast iron construction throughout.
- Bed is precision ground, top and bottom.
- 12 Double-sealed, lubricated-for-life ball bearings.
- Shuts off automatically when piece is cut.



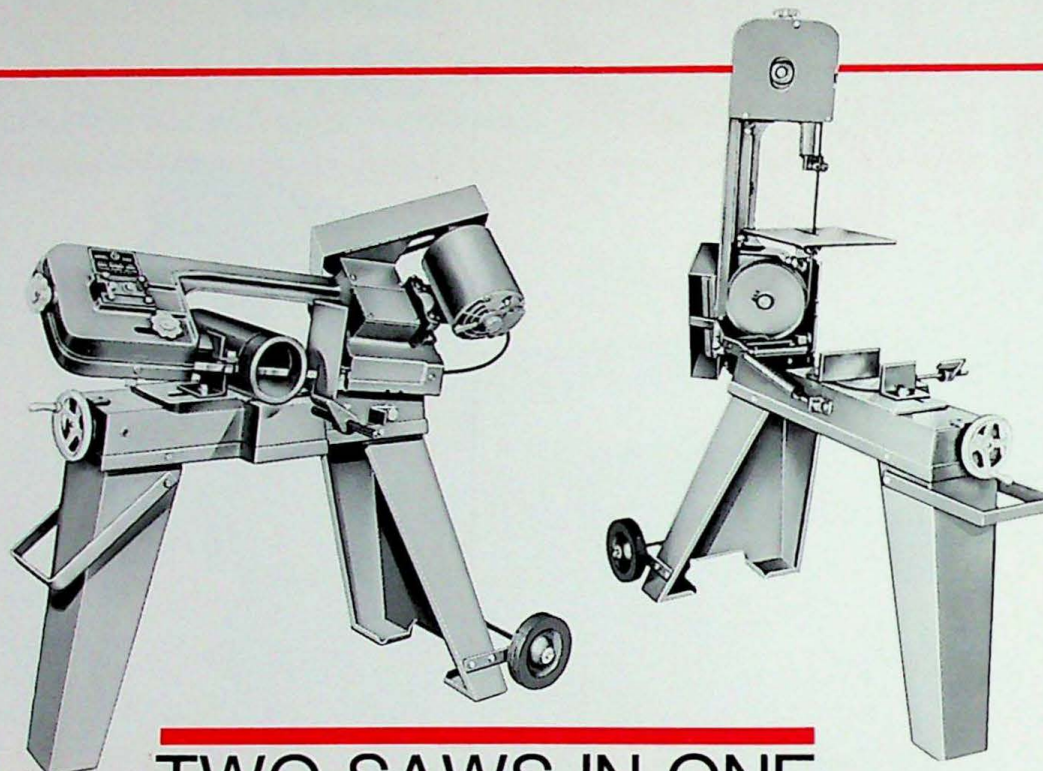
TOLEDO / **BEAVER**

Want to know more? Turn the page.



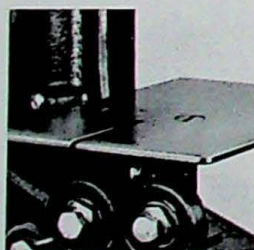
TOLEDO/BEAVER

THE CONVERTIBLE 460



TWO SAWS IN ONE

In just seconds one man can easily convert the 460 from its horizontal position into a vertical band saw—two saws for the price of one.



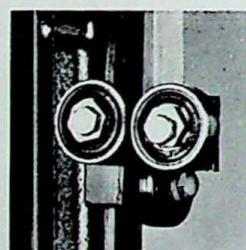
VERTICAL SAW TABLE

Now you have a vertical band saw, for contour cutting, slitting and notching. Truly America's greatest saw value, offering many features not found on much higher priced saws. 10" x 10" Large Steel Production Table Optional.



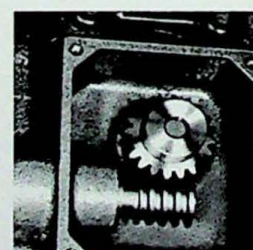
BLADE ADJUSTMENT

The blade tension control knob is conveniently located at the front of the head. This makes it easy to adjust the blade tension correctly. The blade can be adjusted to exact cutting pressure required for the material being cut.



NEW (6) BALL BEARING BLADE GUIDES

The Micro-Adjustable blade guides are the newest, easily to adjust, on any saw. Increases blade life from 50% to 100%.

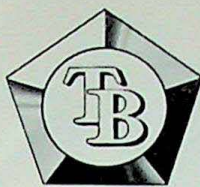


GEAR BOX

New automotive-type hardened steel gears. Will outlast several sets of ordinary soft steel worm and bronze gears. Runs in constant lubricant, completely sealed, equipped with double-sealed, lubricated-for-life ball bearings. No open gears to become clogged with dirt and shavings.

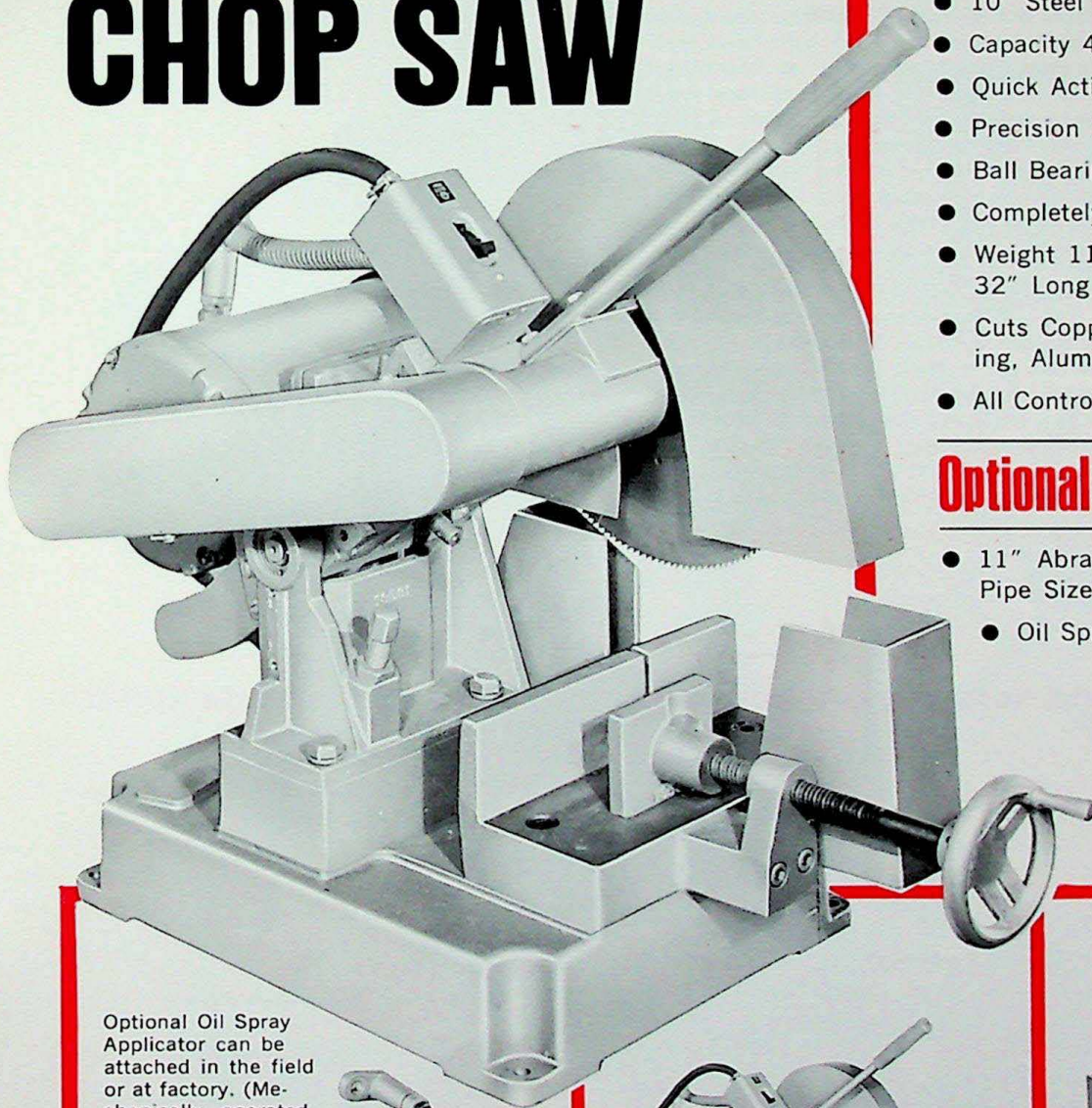
SPECIFICATIONS

O/A Ht. w/stand, 39" • O/A W. w/stand, 16" • Ht. to bed w/stand, 24" • Floor Space, 19½" x 42" • Angular cuts, 90°-45° • ½ HP Motor, 115 v. 60 cy. 1725 RPM • O/A Vert. Ht. w/stand, 55" • O/A L. w/stand, 36" • Ht. floor to table w/stand, 34" • Cuts pipe up to 4" • Blade size, ½x.025x64½ • O/A Bed, 26¼x9x3¾



TOLEDO / BEAVER TOOLS

Cut nonferrous tubing
and shapes, DWV tubing up to 4"
**QUICKLY, ECONOMICALLY,
PRECISELY/NEW NO. 100 & 110**
CHOP SAW



**built for years of rugged,
trouble-free service**

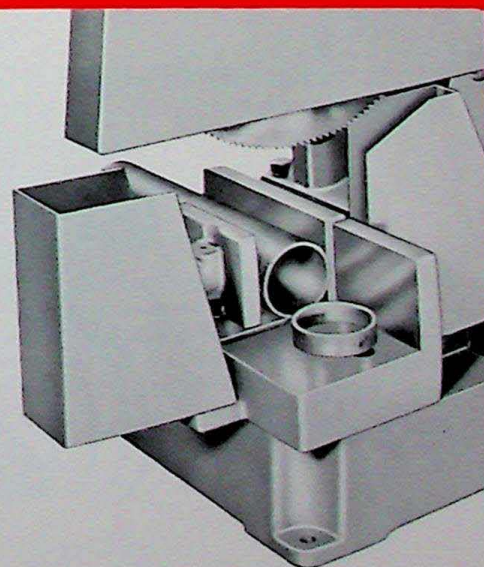
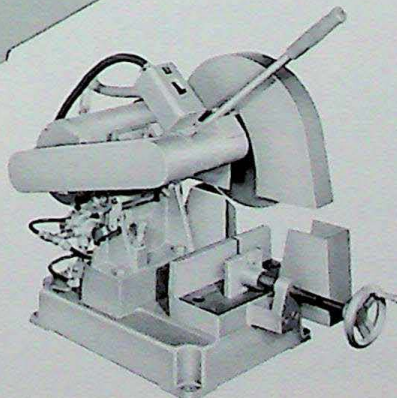
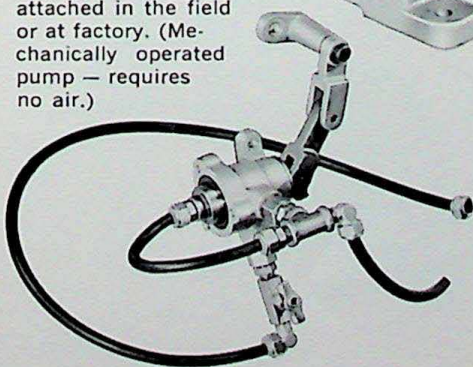
- 1 Horsepower, 115/230 V, 60 Cycle, Heavy Duty Motor
- 2 Horsepower, 230 Volt, 60 Cycle, 1 Phase Motor
- 10" Steel Cutting Wheel
- Capacity 4" DWV Tubing (3" without Turning)
- Quick Acting, Integral 4" Vise
- Precision Ball Bearing Spindle
- Ball Bearing Trunnion Shaft
- Completely Wired
- Weight 116 Lbs., Size 28" High, 16½" Wide, 32" Long
- Cuts Copper and Aluminum Tubing, DWV Tubing, Aluminum Extrusions
- All Controls within Easy Reach

Optional Equipment

- 11" Abrasive Wheel (Capacity Small Rod and Pipe Sizes)
- Oil Spray Applicator

Close cuts made easily, quickly, guard assures full protection for operator.

Optional Oil Spray Applicator can be attached in the field or at factory. (Mechanically operated pump — requires no air.)



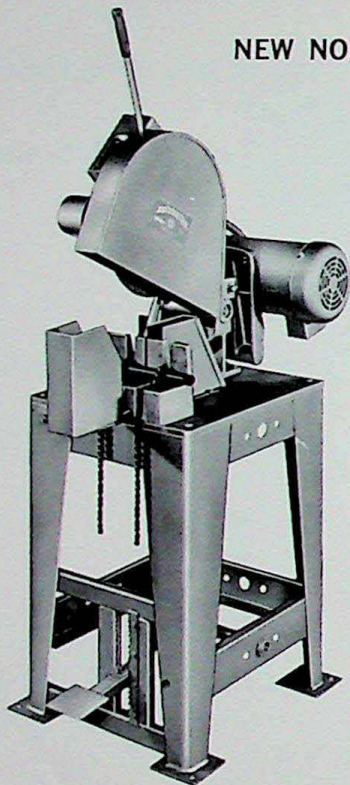


TOLEDO / BEAVER TOOLS

SPEED CUT

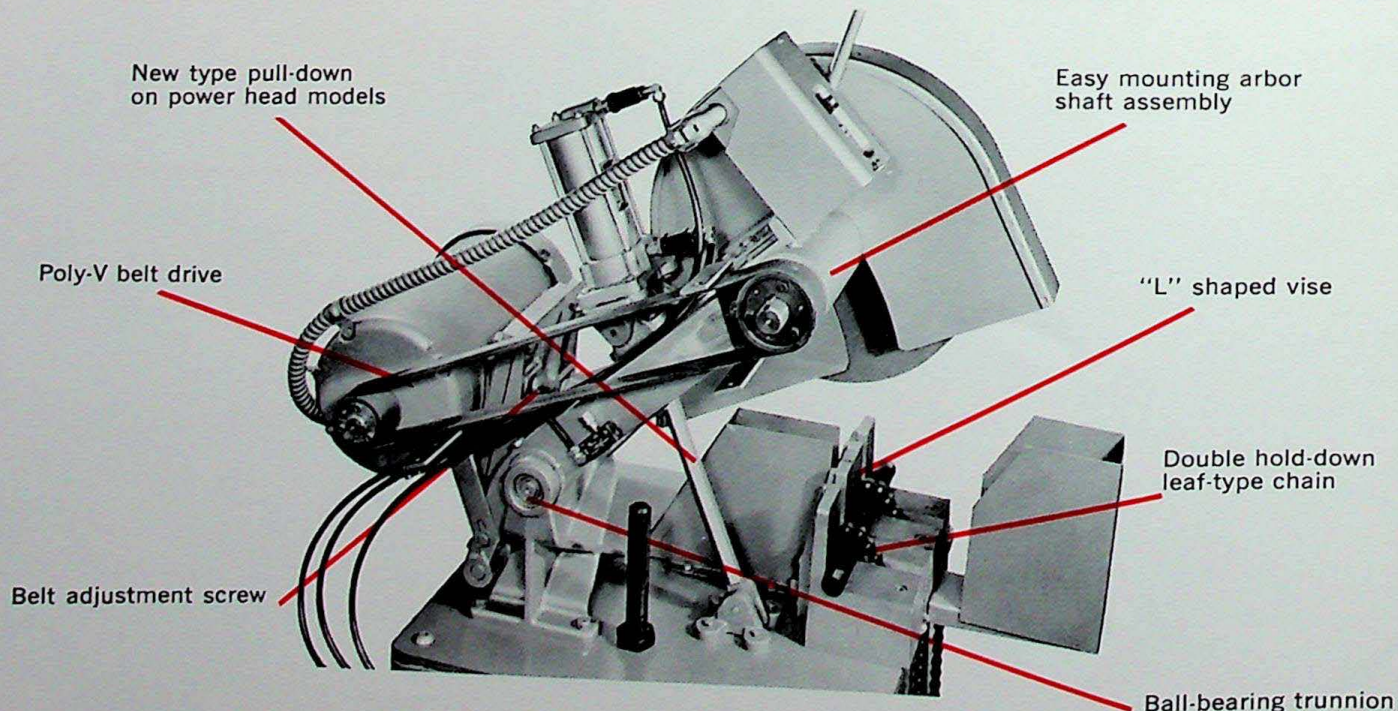
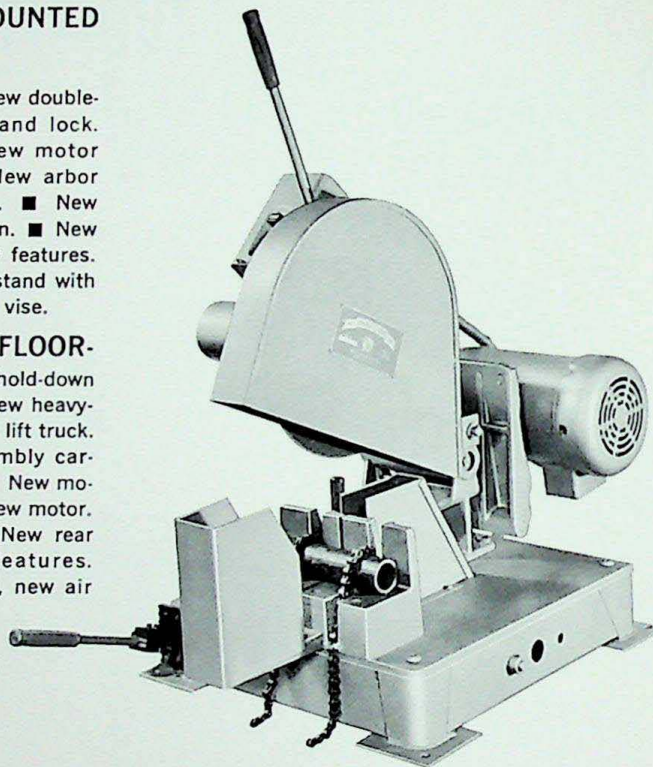
ABRASIVE CUT-OFF MACHINES

NEW NO. 14 DRY MANUAL BENCH-MOUNTED



NEW IMPROVED FEATURES. New double-chain hold-down L-Vise with hand lock. ■ New Poly-V belt drive. ■ New motor mounting belt adjustment. ■ New arbor shaft bearing assembly cartridge. ■ New motor. ■ New ball-bearing trunnion. ■ New rear spark guard and other safety features. ■ New options: Heavy-duty floor stand with foot-lock, new power head, new air vise.

NEW NO. 16 DRY MANUAL FLOOR-MOUNTED. New double-chain hold-down L-Vise with foot or hand lock. ■ New heavy-duty open stand, easily moved with lift truck. ■ New arbor shaft bearing assembly cartridge. ■ New Poly-V belt drive. ■ New motor mounting belt adjustment. ■ New motor. ■ New ball-bearing trunnion. ■ New rear spark guard and other safety features. ■ New options: new power head, new air vise.



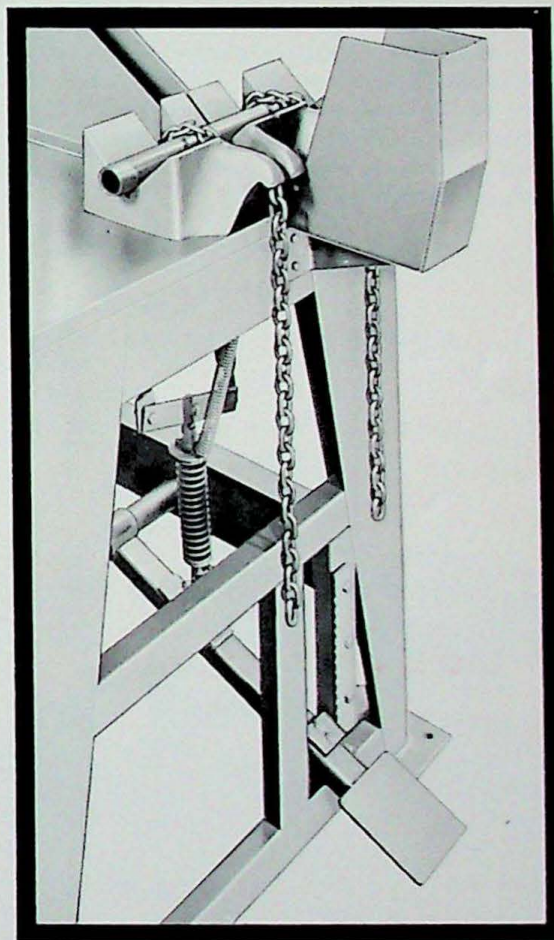
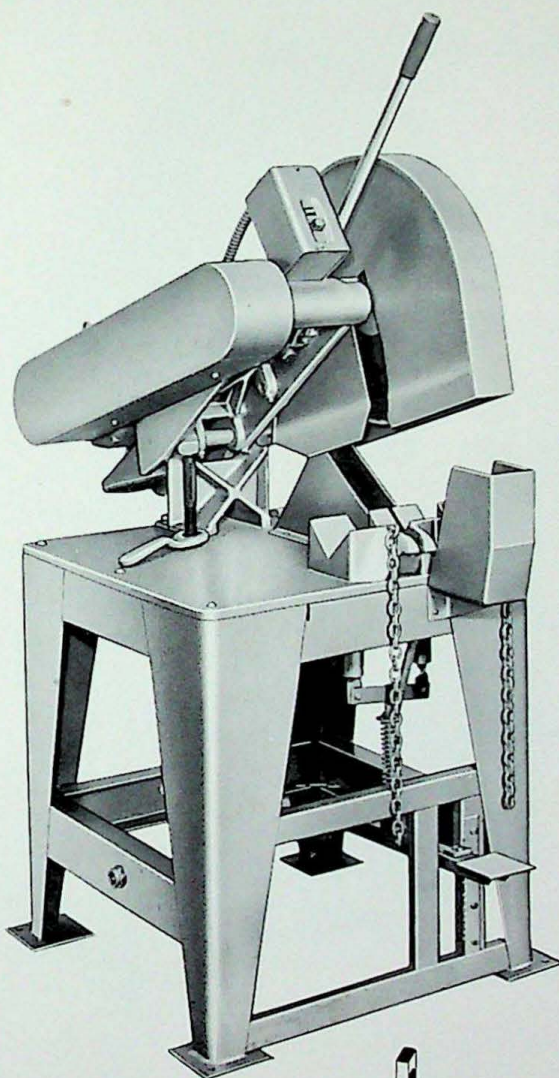


TOLEDO / BEAVER TOOLS

SPEED CUT

ABRASIVE CUT-OFF MACHINES

NEW MODEL 20 DRY



CHAIN VISE-GRIPS LIKE A BULLDOG

New double chain vise with foot lever is unmatched for holding odd shapes, as well as straight pieces. Air vises also available.

Spring release on the vise foot lever. Spring action and toggle bar assure constant tension and quick release.



IMPROVED NEW FEATURES

■ New double chain hold-down vise with foot lock. ■ New improved motors. ■ New sturdy open stand, now easily moved with lift truck. ■ Improved safety factors for operator protection. ■ Many more helpful improvements and at no increase in price. ■ Also available in Hi-Boy model for increased capacity—see separate specifications sheet.

See separate sheet for information on power head, oscillating head and wet models.



TOLEDO / BEAVER TOOLS

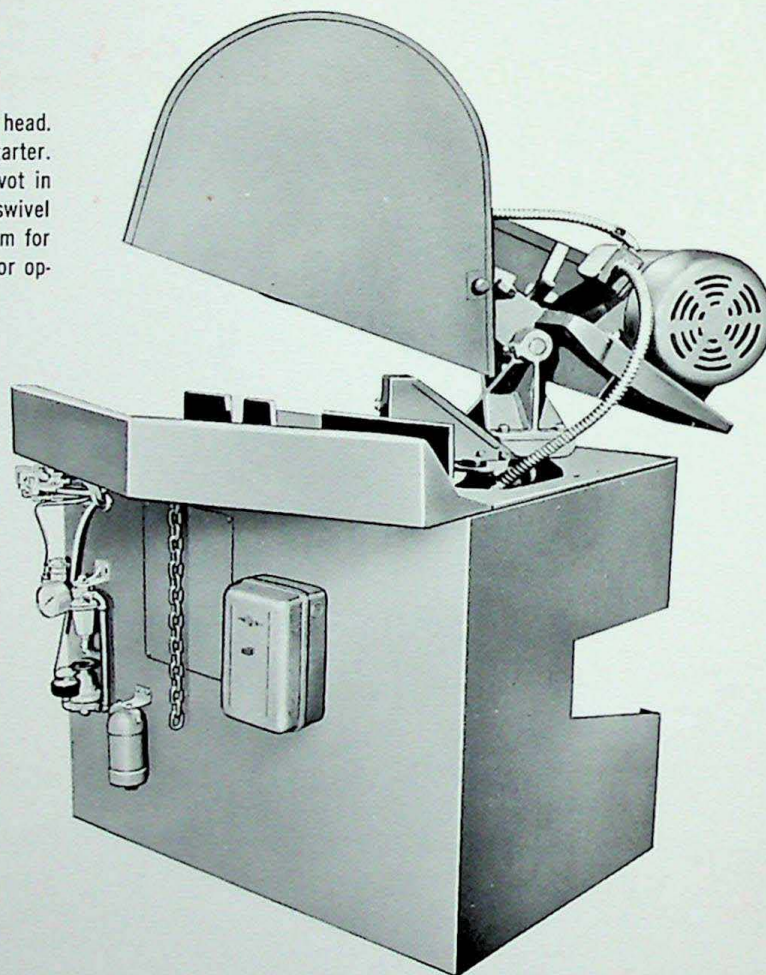
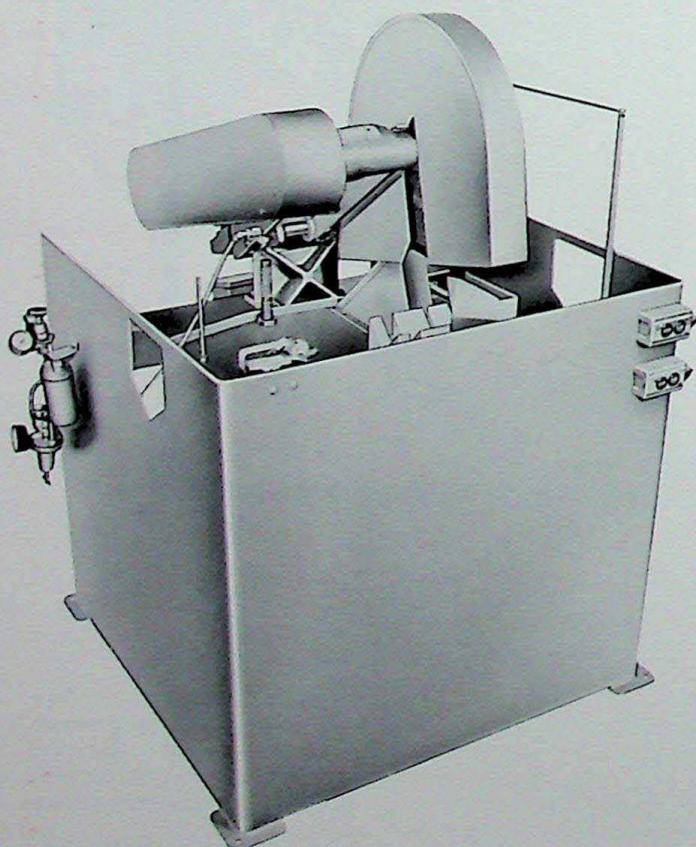
SPEED CUT

ABRASIVE CUT-OFF MACHINES

NO. 20 DRY - ANY ANGLE

Capacity: Most 6" shapes at 90°, 4" shapes on angle, 2½" solid stock.

The No. 20 Dry model is available either manually operated or with power head. Both versions feature an L-shaped, air-actuated chain vise and magnetic starter. Cuts on any angle from 30° to 90° are possible. This results from the pivot in the base allowing the head to swivel through a 60° arc. In addition, the swivel head makes it possible for the user to set up a permanent loading platform for all cutting operations, regardless of angle to be cut. See specifications for optional motors, wheels and starters.



NO. 20 WET

Capacity: Most 6" shapes, 2" solids
(w/power head), 4" solids (w/power head and oscillator)

Available manually operated or with power head on both the Standard and Oscillating Machine, the No. 20 Wet model offers several advantages not found in dry models. Wet machines result in better quality cuts, larger solid capacity and longer wheel life. The power head model is particularly recommended for polished, burr-free cuts. □ As can be seen in the specifications, the Oscillating model has a larger solid capacity than does the Standard. Both feature a recirculating pump for coolant, with separate motor and controls. Both also contain as standard equipment settling tank in base, air vise and magnetic starter. See specifications for optional wheels, motors and starters.



TOLEDO / BEAVER TOOLS

SPEED CUT

ABRASIVE CUT-OFF MACHINES

GENERAL SPECIFICATIONS

- All "Speed-Cut" Machines are equipped with special motors, made to our specifications, which are far more powerful than motors with similar ratings on competitive equipment. Our special motors provide the extra power needed to keep the wheel cutting at proper speed. We do not sell any machine without our motors.
- All "Speed-Cut" Machines are completely guarded. Operator is shielded at all times.
- All models have permanently sealed precision double row ball bearings on arbor shaft.
- All machines have multiple V belt or Poly-V belt drives.
- Air vices available on all No. 20 machines. Standard equipment on Any-Angle, Wet Oscillator, or Power Head No. 20 machines.
- 110 Volt push button controls available at extra cost.
- Use of power heads increases wheel life at least 30%, and in most cases much more.

TYPES and OPERATION	CAPACITIES		ABRASIVE WHEELS			POWER SOURCE		DIMENSIONS			WEIGHTS	
	MOST SHAPES	SOLID STOCK	DIA.	SPINDLE	SPEED R.P.M.	MOTORS	STARTERS	HGT.	WIDTH	LGTH.	NET Lbs.	SHPG. Lbs.
14 DRY CUTTING MANUAL	4"	1½"	14"	1"	2880	5 H.P.	MANUAL	58" FLOOR 34" BENCH	20"	37"	370 320	440 360
16 DRY CUTTING MANUAL	5"	2"	16"	1"	2880	7½ H.P.	MANUAL	58" FLOOR 34" BENCH	20"	37"	372 322	445 395
20 DRY CUTTING MANUAL OR POWER	6"	2½"	18" 20"	1"	2300	5 H.P. 10 H.P. 20 H.P.	MANUAL MANUAL MAGNETIC	63"	27"	50"	490	530
20 DRY OSCILLATOR MANUAL OR POWER	6"	4"	18" 20"	1"	2300	10 H.P. 20 H.P.	MANUAL MAGNETIC	67"	27"	57"	520	560
20 DRY HIBOY MANUAL OR POWER	12" PIPE 6" Shapes	2½"	14" 18" 20"	1"	2300	10 H.P. 20 H.P.	MANUAL MAGNETIC	73"	27"	50"	500	575
20 DRY ANY ANGLE MANUAL OR POWER	6" @ 90° 4" @ 45°	2½"	18" 20"	1"	2300	10 H.P. 20 H.P.	MAGNETIC MAGNETIC	74"	42"	48"	725	825
20 WET CUTTING MANUAL OR POWER	6"	2"	18" 20"	1"	1530	20 H.P.	MAGNETIC	70"	44"	51"	1100	1250
20 WET OSCILLATOR MANUAL OR POWER	6"	4"	18" 20"	1"	1530	20 H.P.	MAGNETIC	74"	44"	57"	1130	1280



TOLEDO / BEAVER TOOLS

SPEED CUT

ABRASIVE CUT OFF WHEELS

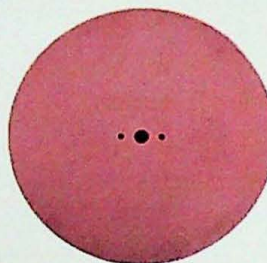
ESPECIALLY DESIGNED FOR USE WITH TOLEDO-BEAVER ABRASIVE MACHINES



11 INCH, No. 245,
No. T-332

RESINOID BOND ALUMINUM OXIDE No. 245. Recommended for cutting steel pipe, structurals, cast iron, stainless steel and other ferrous materials.

NEW No. 247 WHEEL in 14" and 20" sizes. Same type as 245 except harder, not quite as smooth cuts but longer lasting.



14 INCH, No. 245, No. FG-245, No. T-332, No. 247, No. R-60, No. R-91

FIBERGLASS REINFORCED RESINOID BOND ALUMINUM OXIDE No. FG-245. Break resistant. Same cutting qualities as regular No. 245 wheels but with greater resistance to side pressure.



18 INCH, No. 245, No. R-91

RESINOID BOND ALUMINUM OXIDE No. T-332. Recommended for cutting ferrous tubing and other thin wall ferrous shapes.

RUBBER BOND ALUMINUM OXIDE No. R-60. Recommended for cutting same material as Resinoid Bond Aluminum Oxide wheels on wet cutting and wet oscillating head machines.

RUBBER BOND SILICON CARBIDE No. R-91.

Recommended for cutting non-ferrous materials such as copper, brass, transite, aluminum, etc. Also used on wet cutting and wet oscillating head machines.



20 INCH, No. 245, No. FG-245,
No. 247, No. T-332, No. R-60

GENERAL SPECIFICATIONS

MATERIAL	AREA Sq. Inches	TIME With Horizontal Band Saw	TIME With No. 20 Manually Operated	% FASTER With No. 20 "Speed-Cut" Machine
SOLIDS				
2" Dia. Mild Steel	3.142"	60 Seconds	10 Seconds	600%
2 1/4" x 1" Flat Bar	2.250"	70 Seconds	8 Seconds	700%
1 1/4" Dia. Tool Steel (Annealed)	1.227"	60 Seconds	4 Seconds	1500%
1" Dia. Tool Steel (Hardened)	.785"	Cannot Cut	5 Seconds	
STRUCTURAL BARS				
3" Channel	1.19"	20 Seconds	4 Seconds	500%
4" Channel	1.56"	50 Seconds	6 Seconds	800%
PIPE or TUBING				
1 7/8" O.D. x 3/16" Wall Fibre	1.00"	20 Seconds	1 1/2" Seconds	3000%
2" O.D. x 1/16" Wall-Steel	.381"	20 Seconds	1 1/2" Seconds	3000%
2 3/8" O.D. Stainless Pipe	1.089"	55 Seconds	5 Seconds	1100%
2 1/2" O.D. x 3/16" Wall-Steel	1.362"	39 Seconds	3 Seconds	1300%

A COMPLETE LINE OF ABRASIVE WHEELS FOR ALL METALS IS AVAILABLE. SPECIFY TOLEDO-BEAVER WHEELS FOR COMPLETE SATISFACTION.

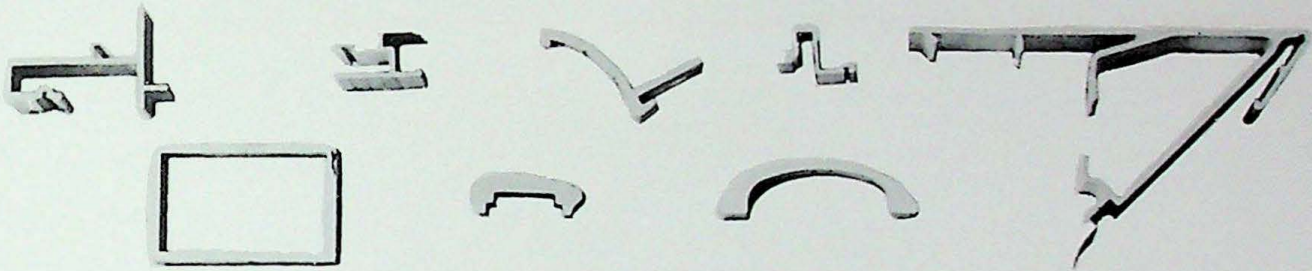


TOLEDO / BEAVER TOOLS

Just a few of the numerous cuts made with the

SPEED CUT

ABRASIVE CUT-OFF MACHINES



All Above—Aluminum and Brass Extrusions. Perfect cuts with 14 inch Beaver Speed-Cut Steel Saw with oil spray—1 to 3 sec.



2" Aluminum Angle
Steel Saw. 2 Sec.

1½" Aluminum.
Steel Saw. 1 sec.

¾ & 1¼" Copper Tubing
Steel Saw. 1 sec.

2" Plastic Pipe.
Steel Saw. 1 sec.

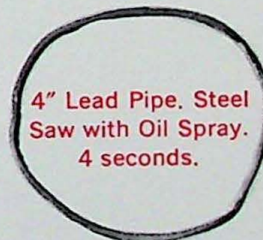
1½" Aluminum Bar.
Steel Saw. 2 sec.



1" Stainless Tubing
Beaver R-91 Abrasive
Wheel. 2 seconds.



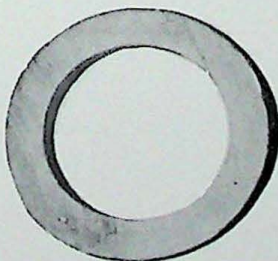
1½" Fibreglass
Steel Saw. 1 sec.



4" Lead Pipe. Steel
Saw with Oil Spray.
4 seconds.



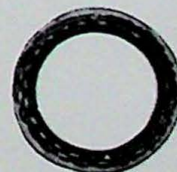
1" & 1½" Formed Mild
Steel. R-60 Beaver
Wheel. 3 seconds.



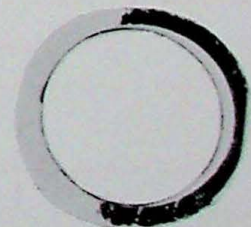
3" Havag Pipe.
Wet Cut. Beaver
R-60 wheel. 5 sec.



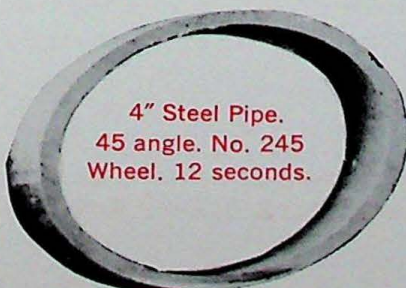
3" Paper Tube.
Steel Saw. 2 sec.



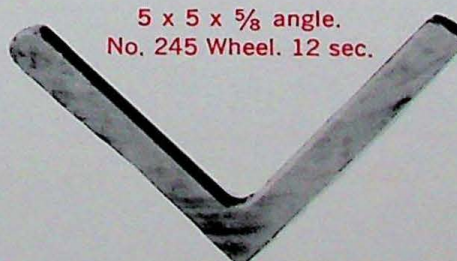
2" Woven Wire
Rubber Tubing
R-91 wheel.



3" Transite. 245
Wheel. 6 seconds.



4" Steel Pipe.
45 angle. No. 245
Wheel. 12 seconds.



5 x 5 x 5/8 angle.
No. 245 Wheel. 12 sec.



4" Orangeburg
Pipe. Steel Saw.
3 seconds.



"THE BEST"

TOLEDO / BEAVER

COPPER TUBING CUTTERS ■ COPPER TUBING BENDERS ■ COPPER TUBING FLARING & SWAGING ■ COPPER TUBING & FITTINGS CLEANING MACHINES ■ PIPE WRENCHES ■ PIPE THREADERS ■ PIPE CUTTERS ■ PIPE REAMERS ■ PIPE VISES ■ VISE STANDS ■ BOLT THREADERS ■ POWER DRIVES ■ POWER PIPE MACHINES ■ THREADEZY CUTTING OIL ■ NIPPLE CHUCKS ■ ADJUSTABLE PIPE & TUBING SUPPORTS ■ HYDRAULIC PIPE CUTTERS ■ ABRASIVE CUT-OFF MACHINES ■ ABRASIVE WHEELS

TOLEDO-BEAVER TOOLS

A WYLE COMPANY

P. O. Box 1689, Toledo, Ohio 43603