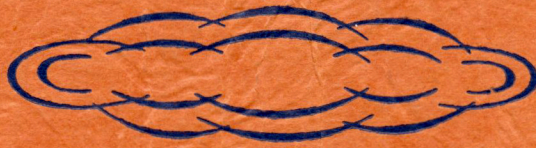


THE WALLACE MACHINE TOOL CO.



**50 CHURCH STREET
NEW YORK, N.Y.**

PROPOSAL

THE WALLACE MACHINE TOOL CO.

50 CHURCH STREET

NEW YORK 7, N. Y.

TELEPHONE CORTLANDT 7-1538

Agent for

"BRIDGEPORT"

MILLERS

ATTACHMENTS

"HISEY-WOLF"

GRINDERS

BUFFERS

"RICKERT-SHAFER"

DIE HEADS

COLLAPSIBLE TAPS

TAPPING MACHINES

"ZAGAR"

INDEXING FIXTURES

HOLDING FIXTURES

"CLEVELAND"

TAPPING MACHINES

"LA SALLE TOOL"

SURFACE GRINDERS

April 29, 1947

Mr. M. Fink
149 East 91st Street
New York, New York

Dear Sir:

Referring to telephone conversation of even date, we are pleased to enclose Price List and literature showing and describing the BRIDGEPORT Vertical Turret Milling Machine with various accessories.

Shipment covering the complete BRIDGEPORT Miller is tentatively about seven months, although this might be improved considerably due to rapidly changing conditions, such as the fact that our materials are gradually coming in faster and our factory output is gradually growing larger.

We are having one of our salesmen visit with you within the next few days to supply you with any further details you may wish.

Thanking you, we remain,

Very truly yours,

THE WALLACE MACHINE TOOL CO.

M. E. Bracey

h/l
Enc.

THE WALLACE MACHINE TOOL CO.

50 CHURCH STREET

NEW YORK 7, N. Y.

TELEPHONE CORTLANDT 7-1538

Agent for

"BRIDGEPORT"
MILLERS
ATTACHMENTS

"HISEY-WOLF"
GRINDERS
BUFFERS

"RICKERT-SHAFER"
DIE HEADS
COLLAPSIBLE TAPS
TAPPING MACHINES

"ZAGAR"
INDEXING FIXTURES
HOLDING FIXTURES

"CLEVELAND"
TAPPING MACHINES

"LA SALLE TOOL"
SURFACE GRINDERS

PRICE LIST

F.O.B. OUR FACTORIES

SUBJECT TO CHANGE WITHOUT NOTICE

NET 30 DAYS - - With

approved Credit Rating; otherwise CASH
before shipment; or Conditional Sales
Contract.

PLEASE NOTE

Our responsibility ceases on delivery in good order to the transportation agent.

If you are in the New York Metropolitan Area, shipment may be by Motor Truck to your door. If you have a loading platform, you must supply the help to get the equipment off the truck. Without a loading platform you will have to employ a winch, or riggers, or any other means necessary to get the equipment off the truck and in your plant. The transportation company will not remove same from truck. This should receive your consideration.

If you have a preference as to how you wish shipment made, please advise.

Bridgeport Vertical Turret Milling Machine with "MASTER" high Speed Milling Attachment and one (1) 1/2" Collet - NINE HUNDRED NINETY FIVE DOLLARS \$995.00

Standard Milling Machine per specifications, has a Table 9" by 32" included in above price. Larger size tables can be furnished as follows:

9" by 36"	extra	\$ 50.00
9" by 42"	"	75.00
9" by 48"	"	100.00

Extra Collets of any size up to and including 1/2" -
FOUR DOLLARS and Twenty-five cents each \$ 4.25

Bridgeport Longitudinal Travel Power Feed, mounted on right end of Milling Machine Table, twelve different feeds; low of 9/16", high of 9" feed per minute in geometrical progression. Price when supplied with machine TWO HUNDRED FIFTY DOLLARS \$250.00

When supplied as a separate unit, requiring longer screw, Price is TWO HUNDRED SEVENTY FIVE DOLLARS 275.00
which does not include installation, which is extra.

Bridgeport Longitudinal and Cross Feed Troughs, Micrometed Heads, Measuring Rods, Dial Indicators, new Table Holding Devices for Milling Machine - less installation. THREE HUNDRED FIFTY DOLLARS 350.00

Bridgeport Motorized Universal Vertical Shaping Attachment, Model "E" to mount on rear end of the overarm, opposite to MILLING ATTACHMENT. THREE HUNDRED FIFTY DOLLARS 350.00

Set of Shaping Tools (7) for above Attachment.
FORTY TWO DOLLARS 42.00

Bridgeport Vertical Turret Miller equipped with motor driven oil pump, reservoir, mounted in the pedestal; with oil feed to milling cutter, and return flow hose table to base. Extra - ONE HUNDRED THIRTY FIVE DOLLARS 135.00

Bridgeport Vertical Milling Machine - less Milling Attachment, but including forked mounting adapter.
SEVEN HUNDRED TWENTY DOLLARS 720.00

Bridgeport "MASTER" High Speed Milling Attachment, Model "M" shown and described on pages 4 and 5 of Bulletin. Price complete with one collet and proper mounting adapter for Horizontal Milling Machine is TWO HUNDRED NINETY FIVE DOLLARS 295.00
Extra for double drive on low spindle speed 20.00

Bridgeport RIGID SPINDLE, 1/4 H.P., High Speed Milling Attachment, Model "C" shown and described on page 3 of bulletin. Price complete with single phase motor; one collet and proper mounting adapter for Horizontal Milling Machine or Hand Milling Machine is TWO HUNDRED DOLLARS 200.00
Extra charge for Direct Current; or three (3) phase motor 10.00

Bridgeport RIGID SPINDLE, 1/2 H.P., High Speed Milling Attachment, Model "R" shown and described on page 6 of Bulletin. Price complete with single phase or three (3) phase motor, with one collet and proper mounting adapter for Horizontal Milling Machine is TWO HUNDRED FORTY-FIVE DOLLARS 245.00
Extra for double drive on low spindle speed 20.00
Extra collets 1/8" up to and including 3/4", Type R-8, each 5.00
Extra Adapters for No. 2 Morse or No. 7 B & S Taper - each 5.00

Bridgeport No. 1 Boring Head, equipped with shank drilled and tapped for draw-bar of Milling Attachment 42.00

Bridgeport Mechanical Duplicator (Profiling Arm) 35.00

TURCHAN HYDRAULIC DUPLICATOR, for single duplicating, equipped with Bridgeport "MASTER" High Speed Attachment with special housing; on left side of which is milled a flat mounting surface for the TURCHAN fastening. This special attachment has a little longer quill, and a little longer spindle to help make up for the loss of travel by the installation of the TURCHAN. TURCHAN Duplicator with Bridgeport MASTER Attachment included is ONE THOUSAND THREE HUNDRED FIFTY NINE DOLLARS \$1359.00

Set of "Bridgeport" Boring Bars (5 per set) 12.00

STEVENS 12" Dial Indexing Rotary Table 340.00

STEVENS 12" Standard Type Rotary Table 235.00

TROYKE 12" Rotary Table. ONE HUNDRED SIXTY DOLLARS 160.00

DA-15 Attachment for above Table. THIRTY FIVE DOLLARS 35.00

COMET Internal Threading and Boring Tools tipped with Cemented Carbide.

JAC OBS 1/2" capacity No. 14 Super Precision Ball Bearing Chuck, with shank drilled and tapped for draw-bar of Milling Attachment. FOURTEEN DOLLARS and twenty-five cents 14.25

ZAGAR 1" Indexing Fixture - ONE HUNDRED EIGHTY DOLLARS 180.00

ZAGAR 2" Indexing Fixture - THREE HUNDRED DOLLARS 300.00

ZAGAR Broaching Machines, Vertical OR Horizontal.
Price on application.

ZAGAR Multiple Spindle Drill Heads and Hydraulic Drilling equipments. Price on application.

NICHOL Vernier Attachment - less installation.
ONE HUNDRED SEVENTY FIVE DOLLARS 175.00

CARROLL 6" Universal Indexing Center
NINETY EIGHT DOLLARS 98.00

CARROLL 6" Universal Dividing Head
ONE HUNDRED FORTY FIVE DOLLARS 145.00

CARROLL 10" Universal Dividing Head
TWO HUNDRED FIFTEEN DOLLARS 215.00

CARROLL 12" Universal Dividing Head
TWO HUNDRED FORTY DOLLARS 240.00

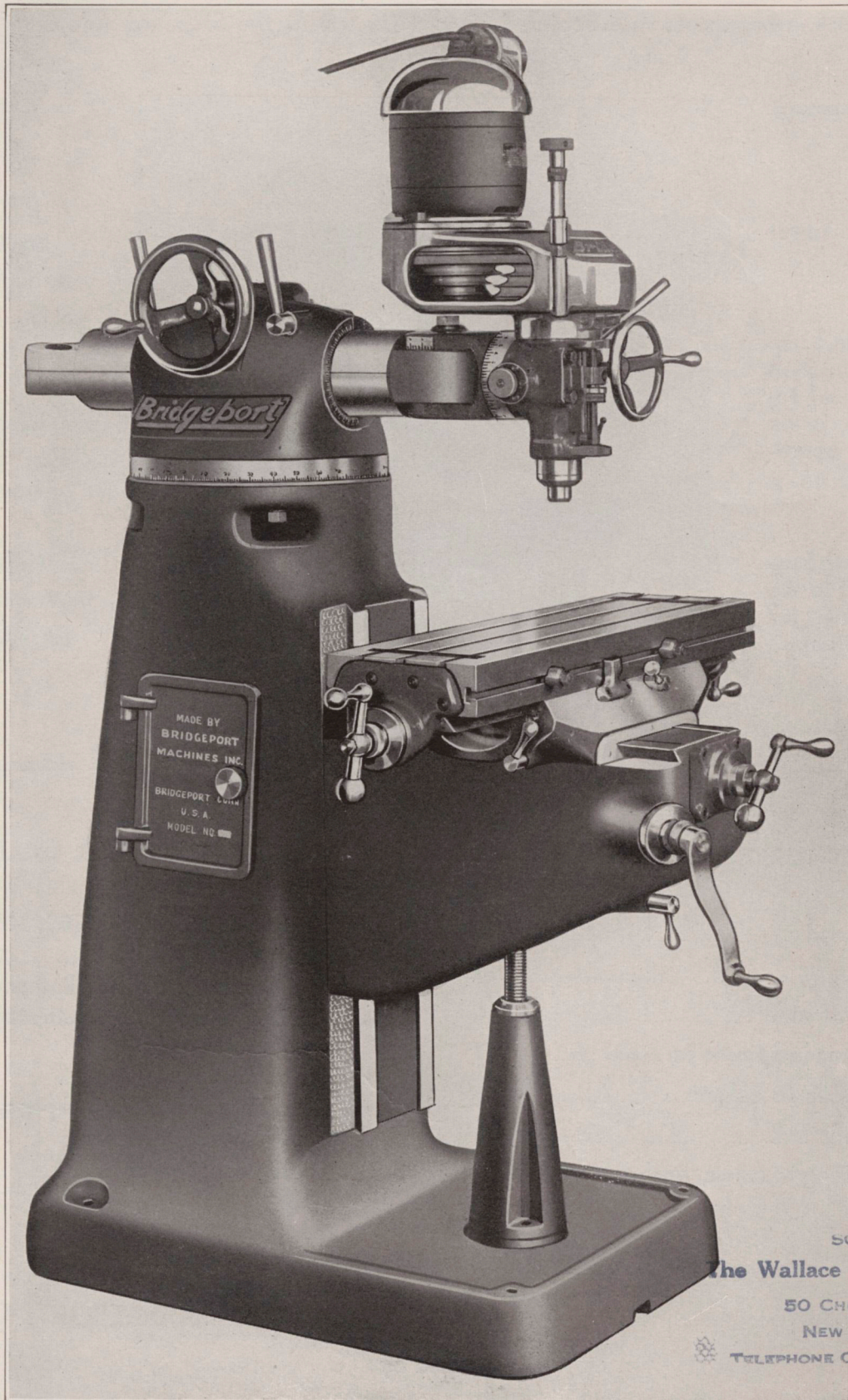
Accessories of Chucks, Collet Chucks, Collets, etc. as extras, can be supplied.

ELLIS Dividing Head, complete with tailstock. TWO HUNDRED EIGHTY DOLLARS	\$280.00
4" Self Centering Chuck with Adapter Plate fitted to ELLIS Dividing Head. SIXTY SEVEN DOLLARS	67.00
HAND WHEEL COLLET ATTACHMENT, FOR ELLIS DIVIDING HEAD with one set (30C) Collets from 1/8" thru 1/2" in 16ths FIFTY ONE DOLLARS	51.00
L-W Dividing Head for Plain Milling Machine - ONE HUNDRED FIFTY ONE DOLLARS and twenty cents	151.20
SKINNER 6FS 6" Swivel Vise. EIGHTY EIGHT DOLLARS.	88.00
SKINNER 5FS 5" Swivel Vise. SIXTY FOUR DOLLARS	64.00
MODERN 4" Swivel Vise. FIFTY DOLLARS	50.00
L-W Swivel Base "MASTER" Milling Machine Vise. THIRTY EIGHT DOLLARS	38.00
L-W Swivel Base "JUNIOR" Milling Machine Vise. TWENTY EIGHT DOLLARS and thirty five cents	28.35
New Britain Universal Vise. ONE HUNDRED SIXTY EIGHT DOLLARS . . .	168.00
Universal Three Way Precision Vise. ONE HUNDRED SIXTY DOLLARS	160.00
LASALLE SURFACE GRINDERS -	
Model 2 HFE Hand Feed	1150.00
Model 2 AFE, Hydraulic	1950.00
Model 22 FE, Full Automatic Hydraulic Table 8" by 24" including electrical equipment . . .	2150.00
"MELIN" End Mills, 2 flute, 3 flute, 4 flute, etc., Single Mills, Double End Mills, Short, Long, Taper, etc., see catalogue.	
RICKERT-SHAFFER Self Opening Die Heads, Collapsible Taps; Tapping Machines, Boring Heads, etc. Price on application.	
THE HISEY-WOLF MACHINE COMPANY Grinding & Polishing Equipment as per catalogue. Prices on application.	

Bridgeport

- TURRET MILLING MACHINE -

F
L
E
X
I
B
I
L
I
T
Y



R
I
G
I
D
I
T
Y

SOLE BY

The Wallace Machine Tool Co.

50 CHURCH STREET

NEW YORK, N. Y.

TELEPHONE CORTLANDT 7-1538

- UNPARALLELED RANGE -

Angular settings in one plane are achieved by turning the Hand Wheel which controls the Keyed Overarm.

The Overarm is 5" in diameter and amply rigid. There is also provision for a Slotting Attachment on the other end of the Overarm, making it possible to use the Machine for more than one purpose.

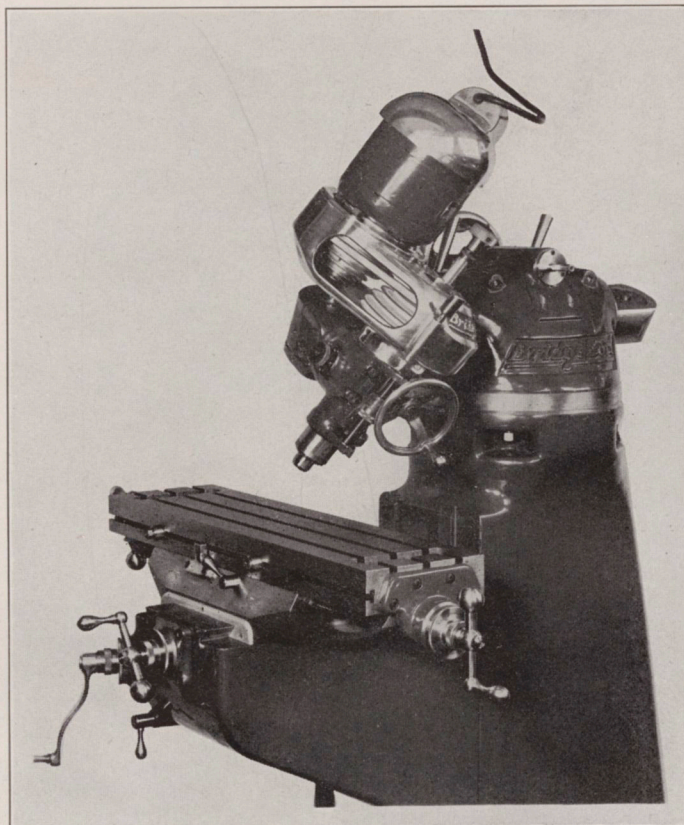
The Machine weighs 1500 pounds and is of convenient size for easy hand operation, yet due to the ability to move the Milling Unit in and out as well as to each end of the Table, it has more range than any Vertical Machine twice its size.

All Bridgeport Attachments manufactured since 1930 will fit the Standard Adapter furnished with this Machine.

15" Diameter Turret
with 5" Overarm.

●
Rugged Column, Knee
and Table construction
with wide ways and taper
gibs for accurate
and vibrationless operation.

●
Table, Knee and Saddle
Locks located in the
front of Machine for
convenient operation.



Anti Friction Bearings
throughout entire Machine.

●
Large graduated dials
3 1/4" in diameter.

●
Keyed Overarm with
Worm Wheel Control
for Angular Settings.

SPECIFICATIONS

BRIDGEPORT TURRET MILLING MACHINE

RANGE:

Longitudinal feed.....	20"
Cross Feed.....	9"
Vertical feed of knee.....	16"
Maximum distance spindle to table.....	17"
Maximum spindle to column.....	19 1/2"
Size of table.....	9"x32"
Weight of Milling Machine, approx.....	1500 lbs.

BRIDGEPORT MASTER MILLING UNIT

RANGE:

Spindle speeds.....	275, 425, 700, 1050, 2100, 4250
Quill travel.....	3 1/2"
Rack and worm feed for drilling and boring	
Dependable Micrometer depth stop graduated in thousandths	
Positive quill lock	
No. 2 Morse or No. 7 B & S taper spindle optional	
1/2 H. P. Heavy Duty Motor	
Weight of Milling Unit.....	113 lbs.

Made by
BRIDGEPORT MACHINES, INC.

Formerly The Bridgeport Pattern & Model Works

52 REMER STREET

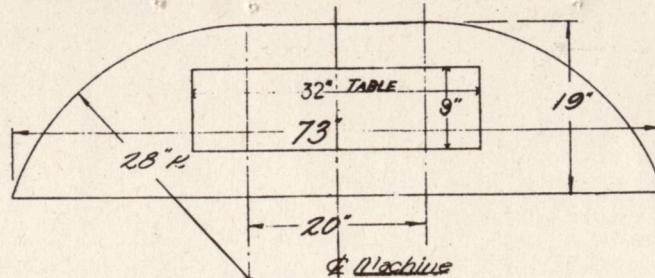
BRIDGEPORT, CONN., U.S.A.

Sold by

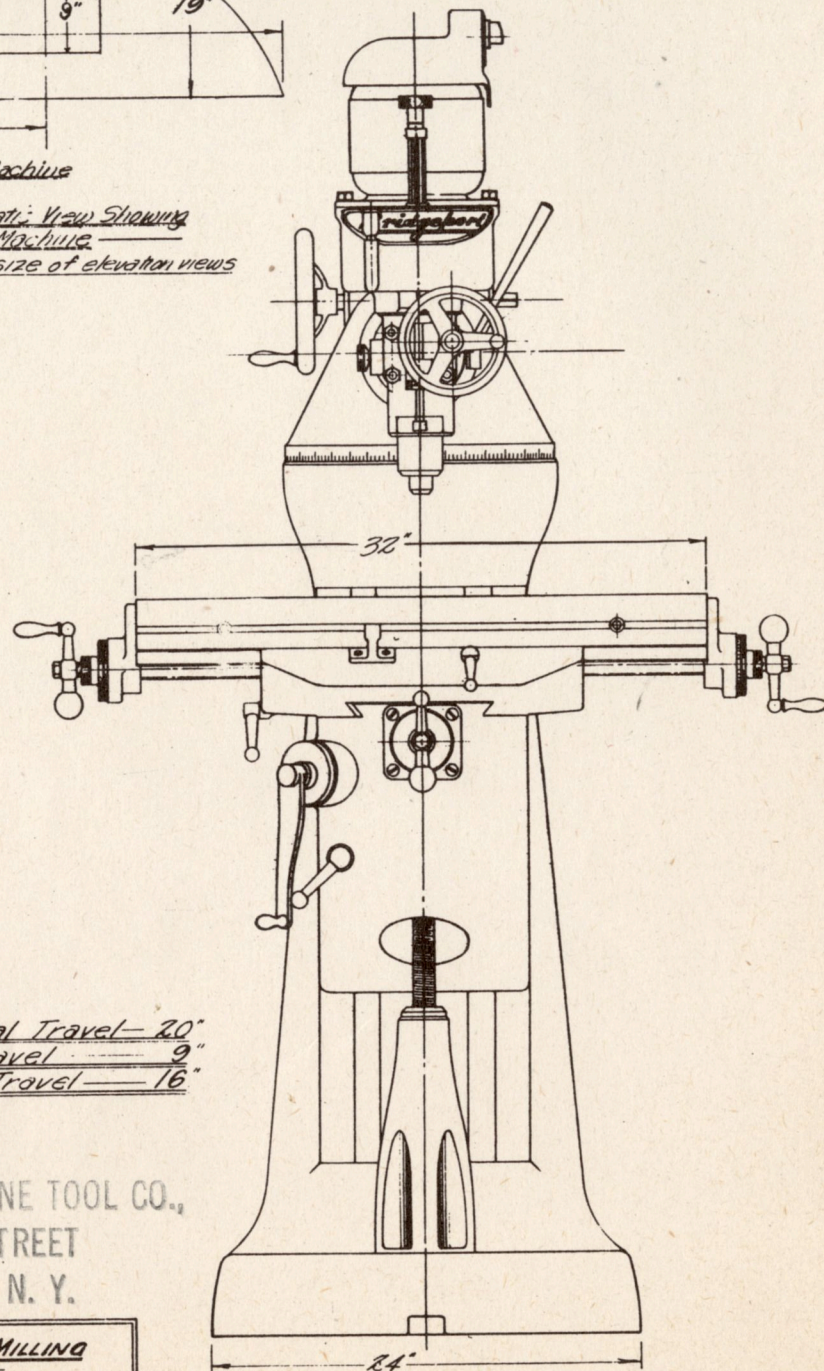
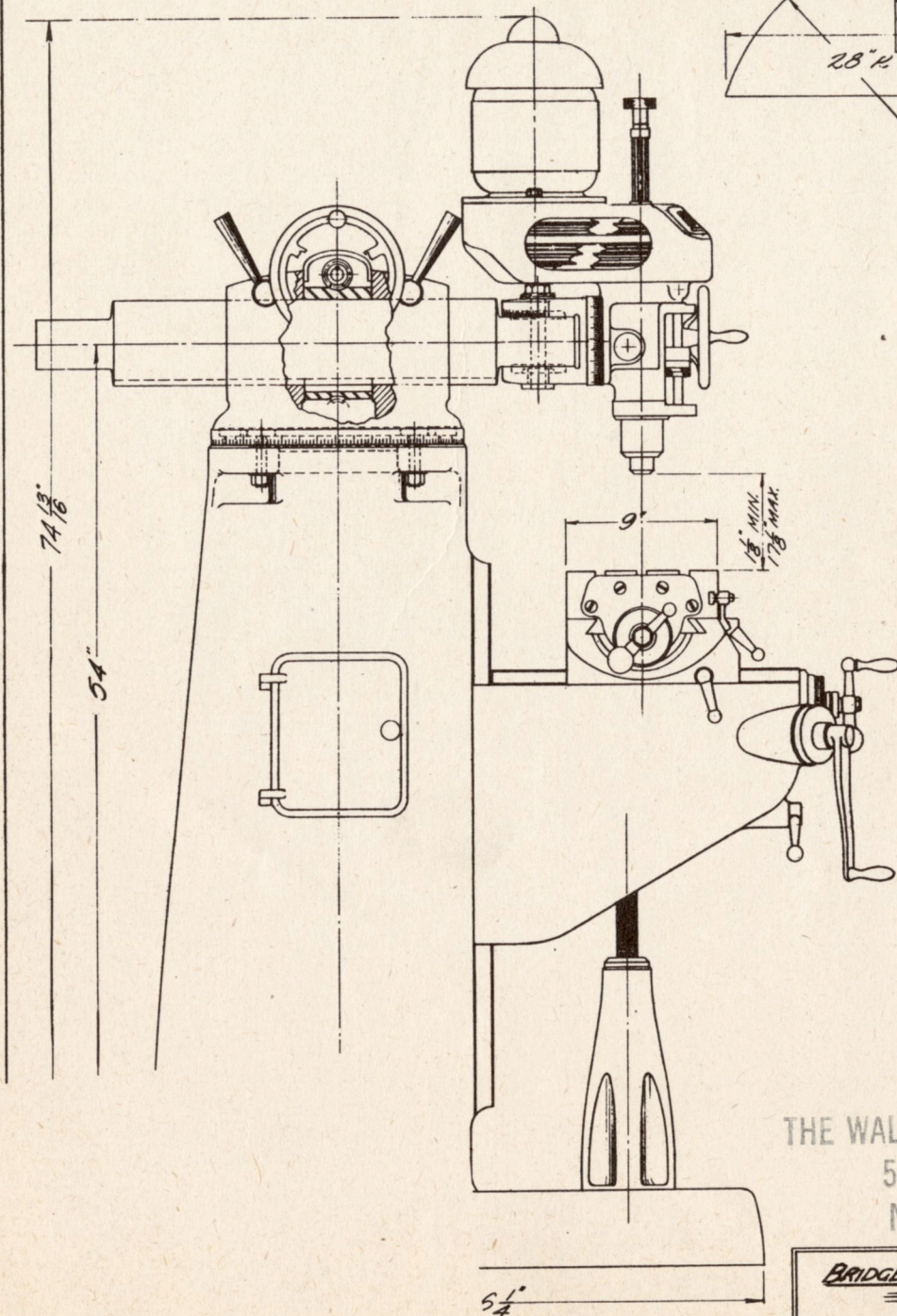
SOLD BY
The Wallace Machine Tool Co

50 CHURCH STREET
NEW YORK, N. Y.

TELEPHONE CORTLANDT 7-1538



*Diagrammatic View Showing
Range of Machine
Scale 1/2 size of elevation views*

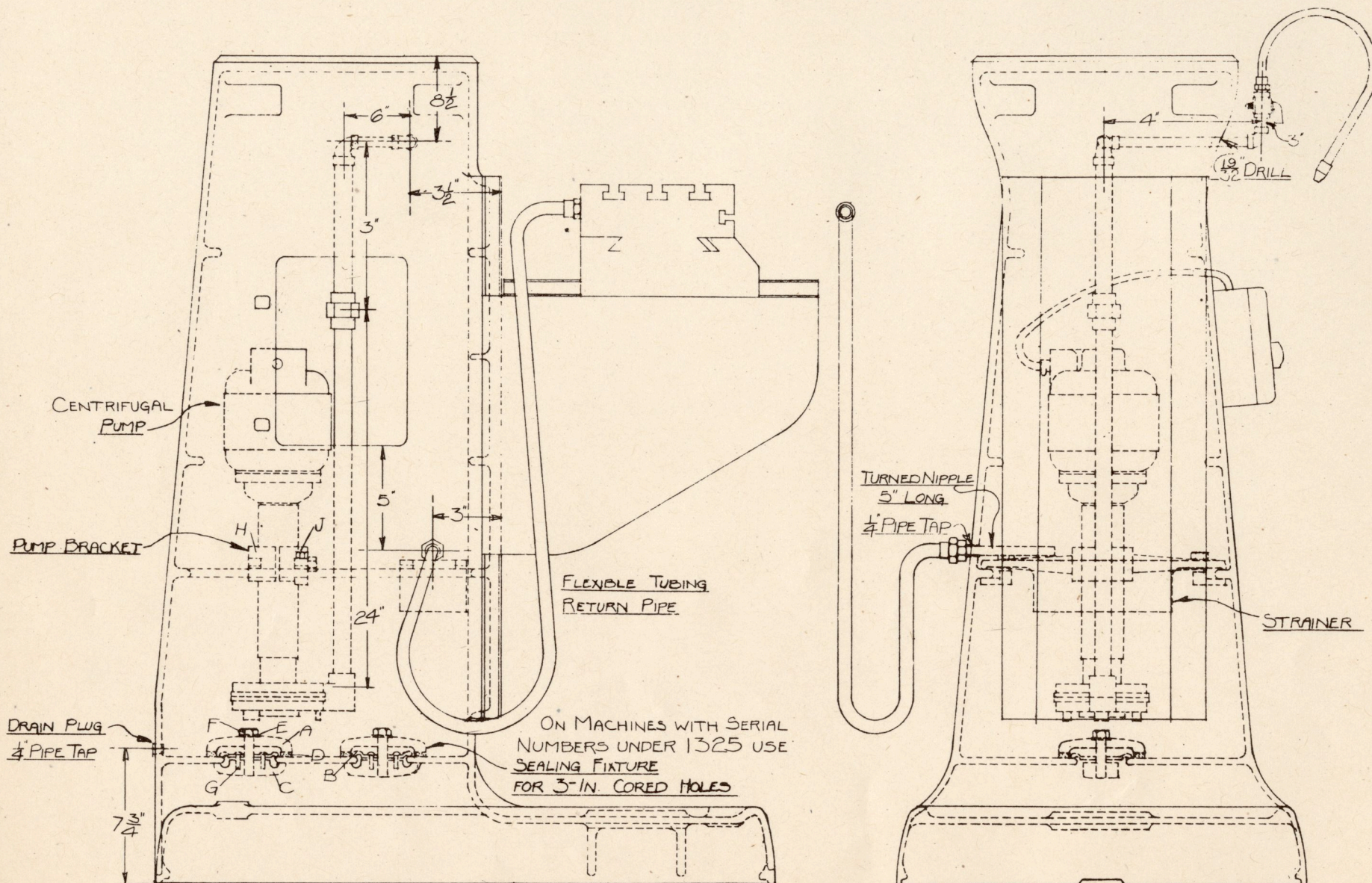


Longitudinal Travel—20"
Cross Travel—9"
Vertical Travel—16"

THE WALLACE MACHINE TOOL CO.,
50 CHURCH STREET
NEW YORK 7, N. Y.

**BRIDGEPORT TURRET MILLING
MACHINE**

Bridgeport Machines Inc.
Bridgeport Conn.



SPECIFY MODEL NUMBER WHEN ORDERING PUMP

THE WALLACE MACHINE TOOL CO.,
50 CHURCH STREET
NEW YORK 7, N. Y.

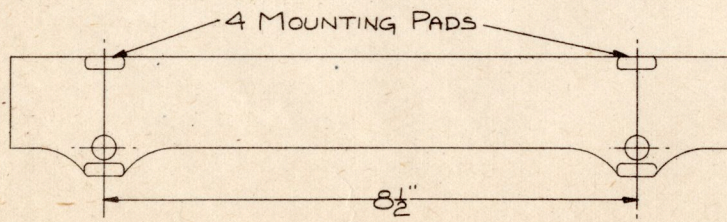
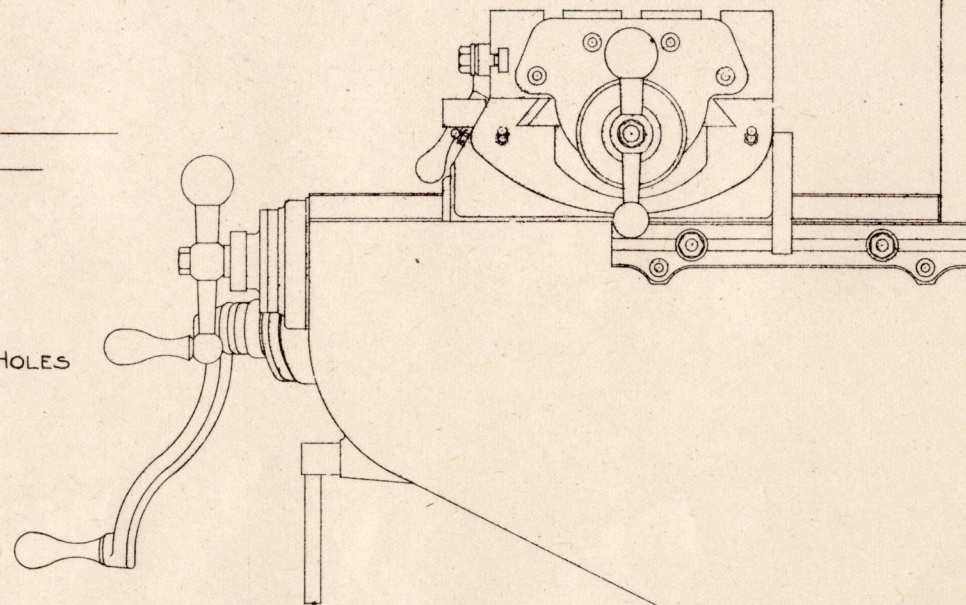
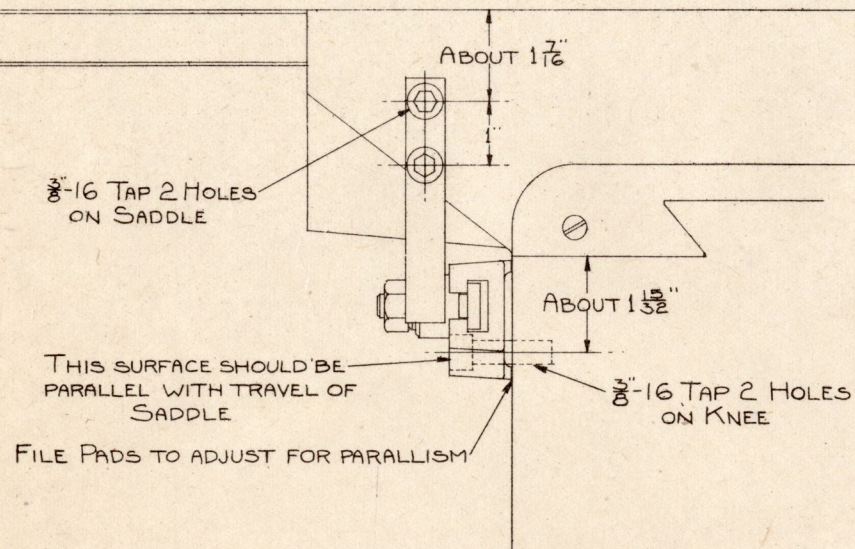
INSTALLATION DIAGRAM

BRIDGEPORT MACHINES, INC.
BRIDGEPORT, CONN. U. S. A.

BRIDGEPORT TURRET MILLING
MACHINE - COOLANT SYSTEM

AUG. 30, 1941 DR. S. 11/11
N. T. S. B-417 APPR.

CROSS TRAVEL STOP ATTACHMENT FOR THE Bridgeport TURRET MILLING MACHINE



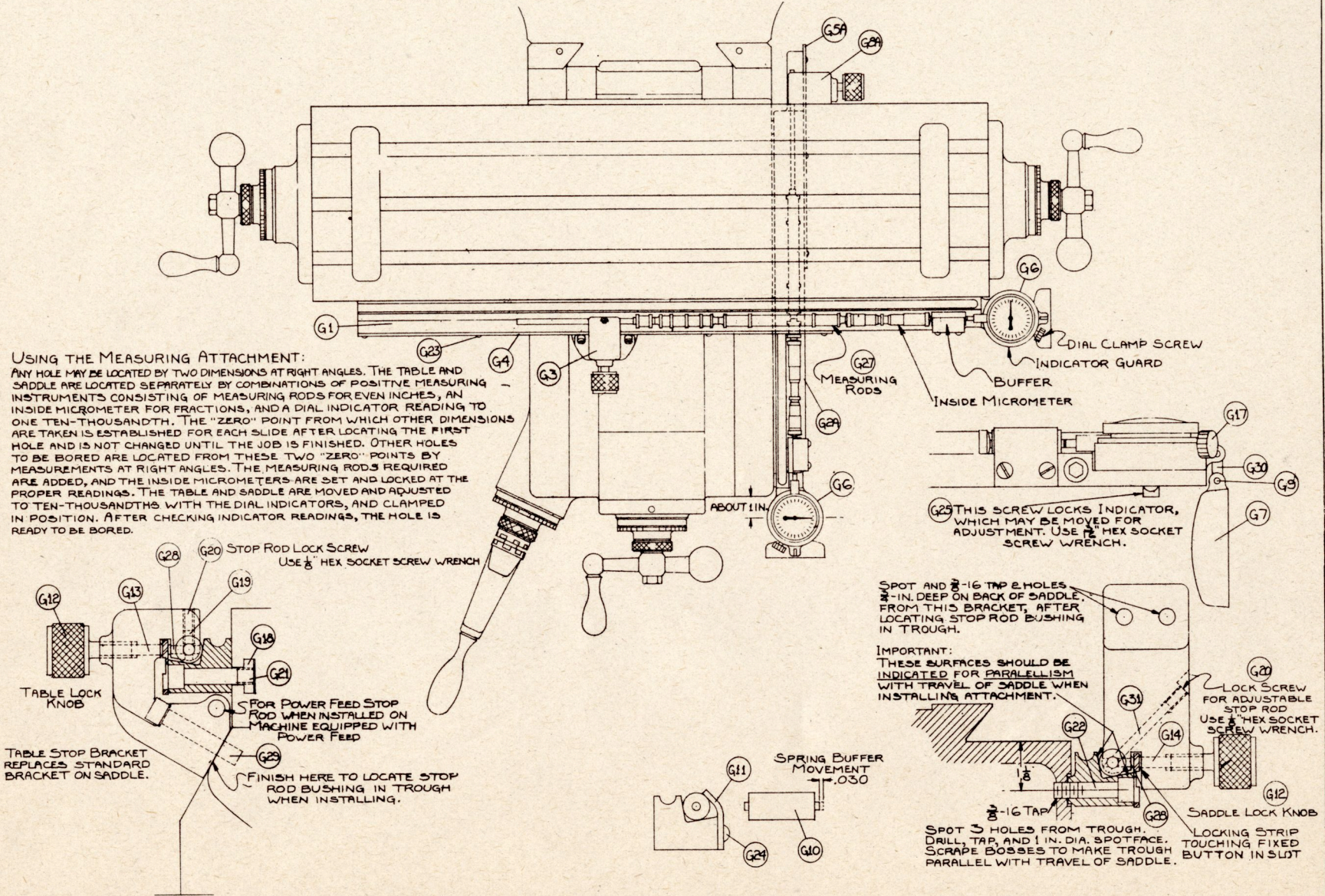
NOTE: ATTACHMENT MAY BE MOUNTED
ON EITHER LEFT OR RIGHT SIDE OF KNEE.

SOLE BY
The Wallace Machine Tool Co.
50 CHURCH STREET
NEW YORK, N. Y.
TELEPHONE CORTLANDT 7-1538

BRIDGEPORT MACHINES, INC.
BRIDGEPORT, CONN. U.S.A.

THE Bridgeport MEASURING ATTACHMENT

FOR LOCATING HOLES TO TEN-THOUSANDTHS OF AN INCH ON THE Bridgeport TURRET MILLING MACHINE

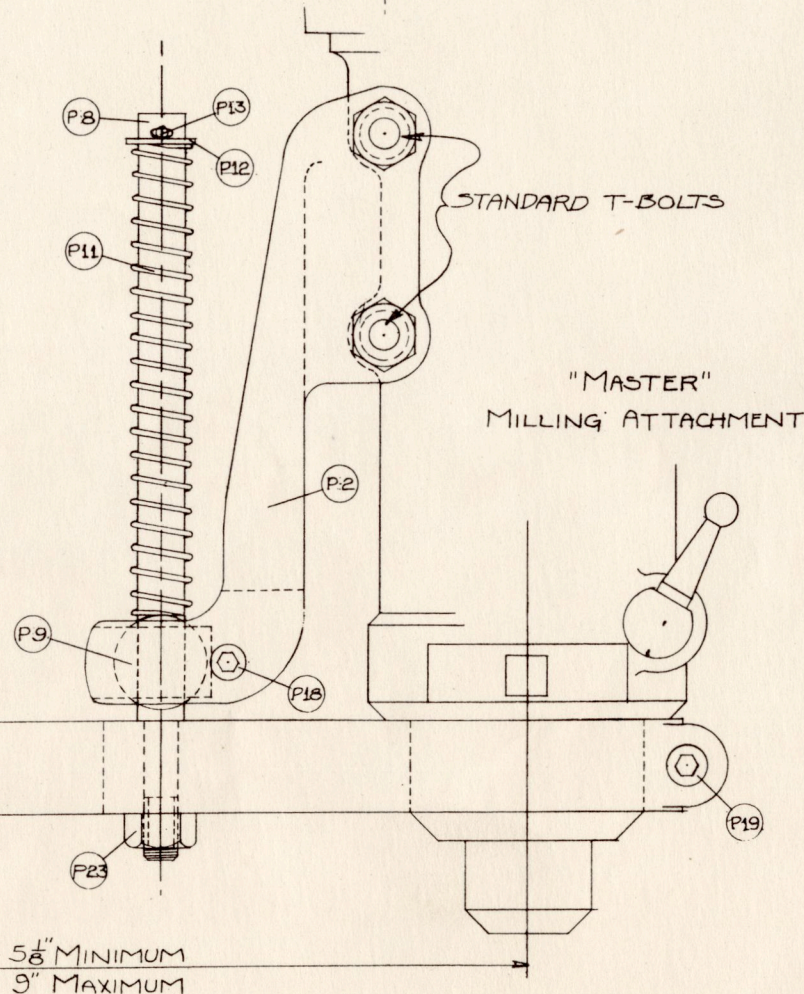
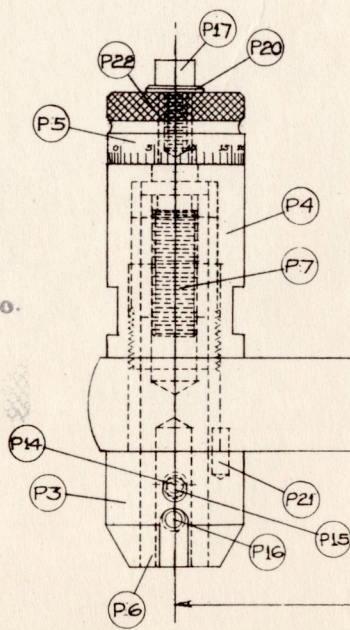
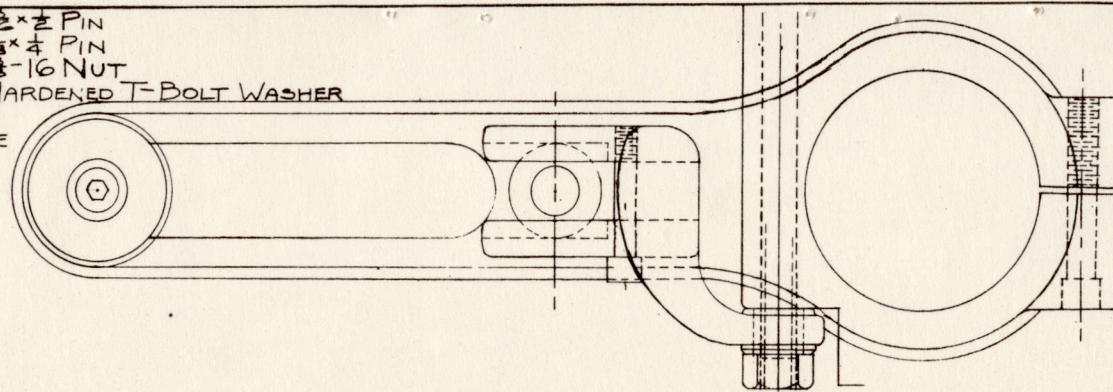
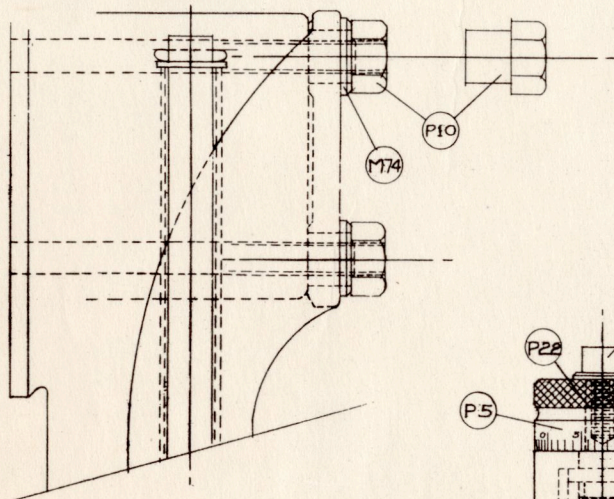


THE WALLACE MACHINE TOOL CO.,

50 CHURCH STREET
NEW YORK 7, N. Y.

P1 ARM
 P2 BRACKET
 P3 SLEEVE
 P4 CAP
 P5 DIAL
 P6 STYLUS ADJUSTMENT SPINDLE
 P7 MICROMETER SCREW
 P8 SPRING ROD
 P9 BALL
 P10 T-BOLT NUT
 P11 COIL SPRING
 P12 $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{4}$ WASHER
 P13 COTTER PIN
 P14 $\frac{1}{4} - 20 \times \frac{3}{8}$ KEY SCREW
 P15 $\frac{1}{4} - 20 \times \frac{3}{8}$ SET SCREW
 P16 $\frac{1}{4} - 20 \times \frac{1}{2}$ SET SCREW
 P17 $\frac{1}{4} - 20 \times \frac{1}{2}$ CAP SCREW
 P18 $\frac{1}{4} - 20 \times \frac{1}{2}$ CAP SCREW
 P19 $\frac{1}{2} - 18 \times \frac{1}{8}$ CAP SCREW
 P20 HARDENED WASHER

P21 $\frac{1}{2} \times \frac{1}{2}$ PIN
 P22 $\frac{1}{4} \times \frac{1}{4}$ PIN
 P23 $\frac{3}{8} - 16$ NUT
 M74 HARDENED T-BOLT WASHER



SOLD BY

The Wallace Machine Tool Co.

50 CHURCH STREET

NEW YORK, N. Y.

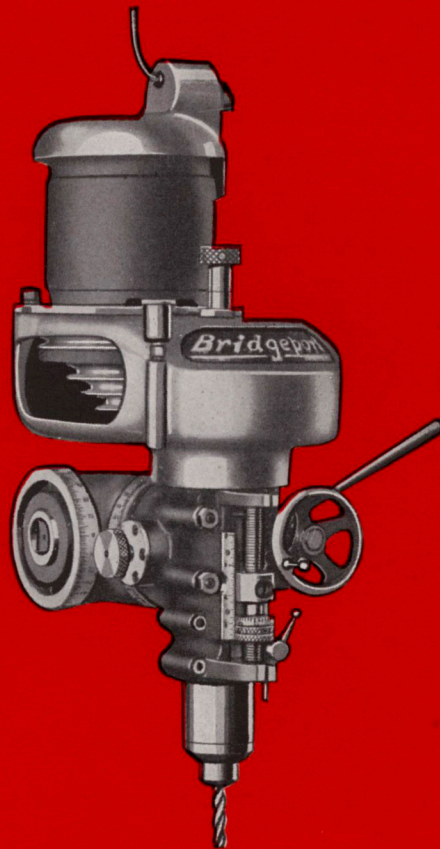
TELEPHONE CORTLANDT 7-1538

HAND PROFILING
ATTACHMENT
FOR THE
"MASTER" HIGH SPEED
MILLING ATTACHMENT

5 1/8" MINIMUM
 9" MAXIMUM

BRIDGEPORT MACHINES, INC.
 BRIDGEPORT, CONN. U.S.A.

Bridgeport



HIGH SPEED

MILLING ATTACHMENTS

A COMPLETE LINE

MANUFACTURED BY
**THE BRIDGEPORT
MACHINES, INC.**
52 REMER STREET
BRIDGEPORT • CONNECTICUT

SOLD BY
The Wallace Machine Tool Co.
50 CHURCH STREET
NEW YORK, N. Y.
TELEPHONE CORTLANDT 7-1538

SOLD BY
The Wallace Machine Tool Co.
50 CHURCH STREET
NEW YORK, N. Y.
TELEPHONE CORTLANDT 7-1538

SOLD BY
The Wallace Machine Tool Co.
50 CHURCH STREET
NEW YORK, N. Y.
TELEPHONE CORTLANDT 7-1538

SOLD BY
The Wallace Machine Tool Co.
50 CHURCH STREET
NEW YORK, N. Y.
TELEPHONE CORTLANDT 7-1538

DEVELOPMENT

IN 1929 The Bridgeport Pattern & Model Works pioneered the type of Equipment outlined in this catalog.

As a result of our effort to provide industry with a universal tool of this kind we can refer you to practically all the leading concerns in this country and abroad who today are users of these Machines.

In 1938 when the BRIDGEPORT TURRET MILLING MACHINE was introduced further expansion was necessary and our Firm was changed to THE BRIDGEPORT MACHINES, INC.

BASIC FEATURES

ALL OUR MODELS HAVE THESE FEATURES IN COMMON

SPINDLE chrome nickel alloy heat treated and ground.

SPINDLE HOUSING high grade semi-steel casting.

SPINDLE BEARINGS precision preloaded ball bearings properly spaced for maximum radial and thrust capacity.

LUBRICATION one oil cup (wick feed) provides fresh oil to all spindle bearings.

ALUMINUM V BELT PULLEYS accurately machined and balanced.

BALL BEARING MOTORS suitable for operation at any angle.

ALUMINUM CANOPY protects motor from dirt. Contains reversible switch for Right and Left hand operation.

MOTOR SUPPORT AND BELT HOUSING one piece aluminum motor support and belt housing swivels completely around spindle making it possible to use Attachment at any angle.

MOTORS REMOVE instantly for mounting in difficult locations or change of belt.

ANGULAR SETTINGS mounting face of adapters accurately graduated.

PULLEYS PROPORTIONED to give good traction and long belt life.

PIVOTALLY MOUNTED MOTORS for simple adjustment of belt tension.

A SELF CONTAINED UNIT designed for easy mounting on other machines when not in use on miller.

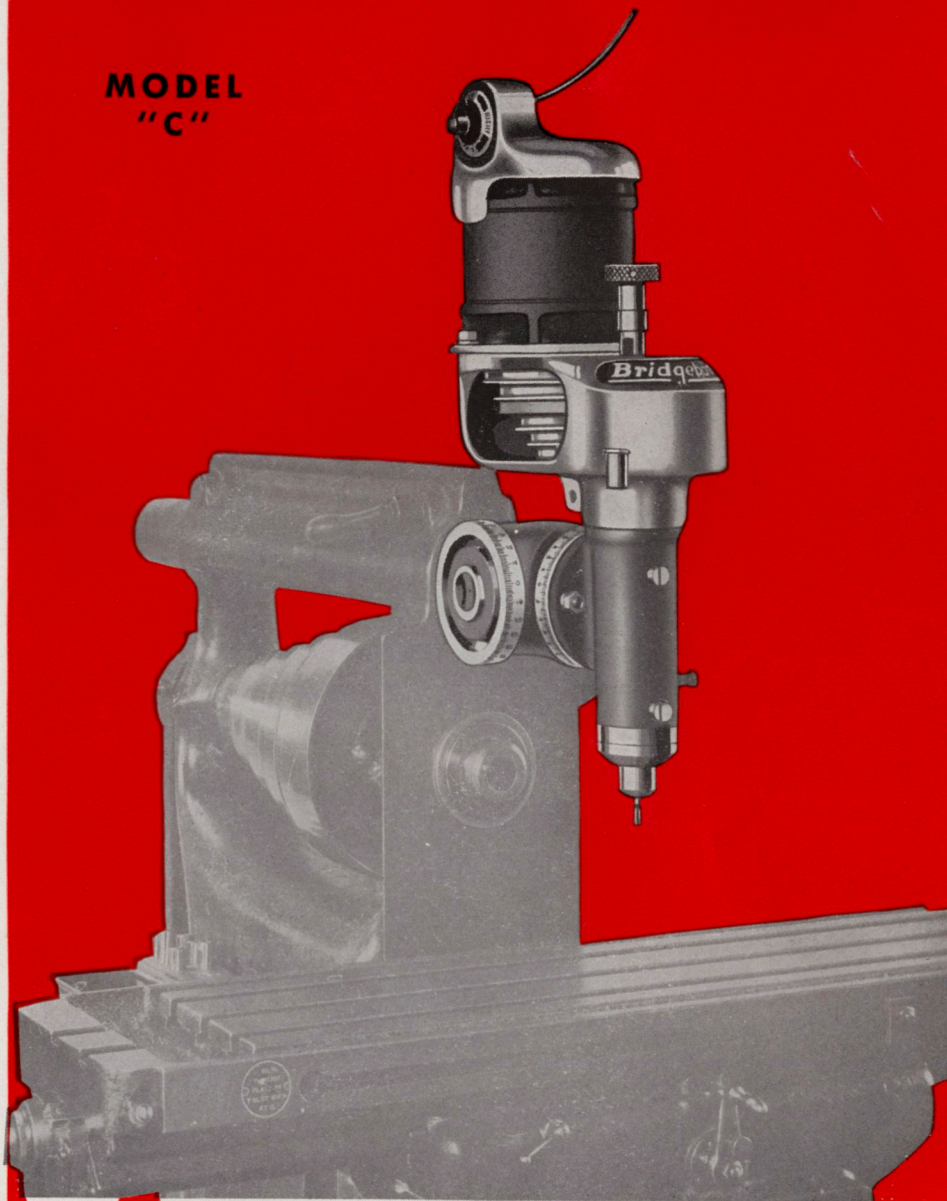
SPECIAL PULLEYS providing speeds to suit special conditions are available at slight extra cost.

DESIGN of units and adapter makes it possible to mount Attachment on front and both sides of overarm. This feature is important.

HIGH
Bridgeport
SPEED

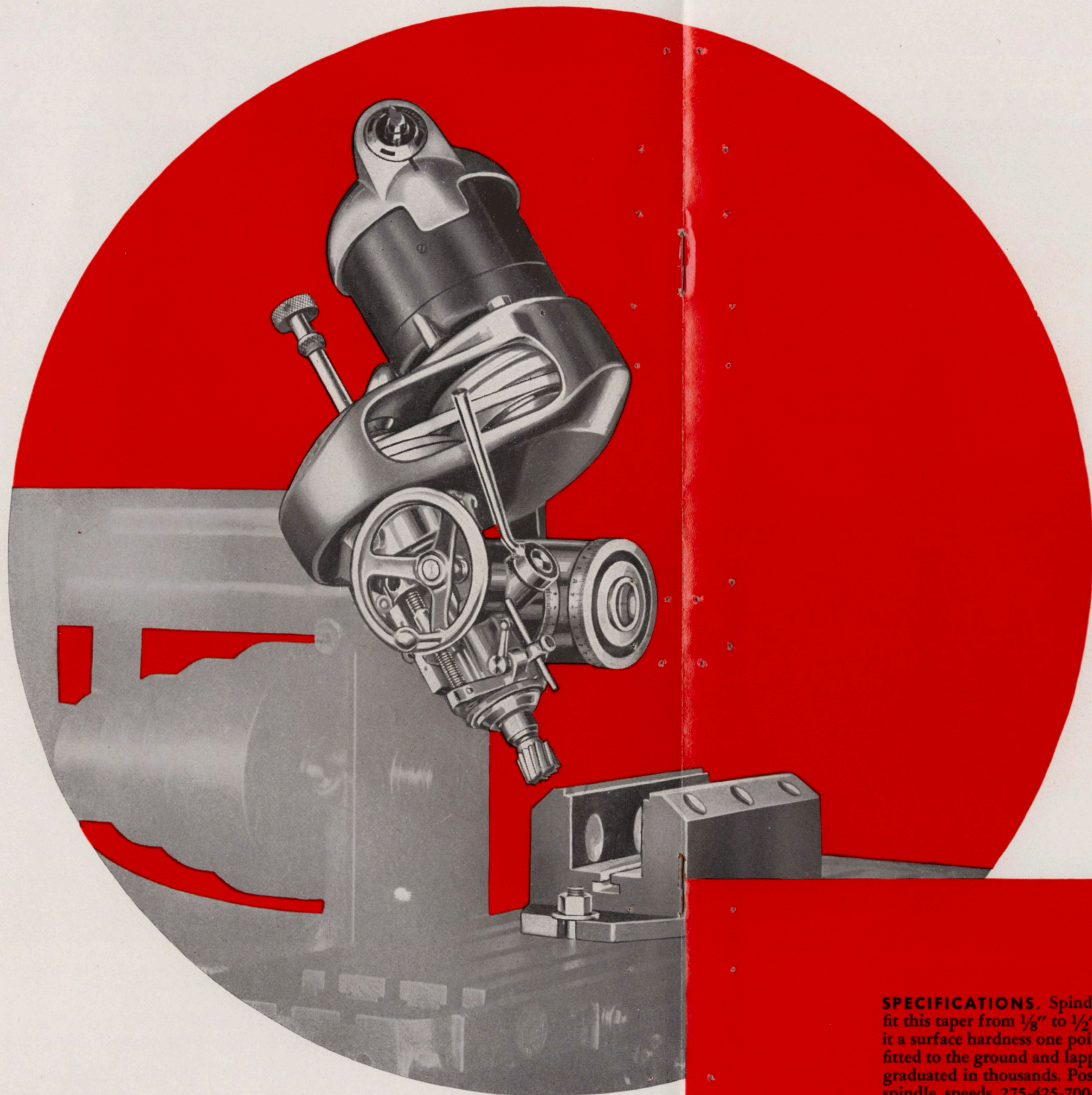
1/4 H. P. MILLING ATTACHMENT

**MODEL
"C"**



THE 1/4 H.P. ATTACHMENT IS A POPULAR MACHINE. IT IS UNEXCELLED FOR ALL TYPES OF MILLING UP TO 1/2" DIAMETER IN TOOL STEEL

SPECIFICATIONS. Spindle heat treated and ground, machined to take draw in collets with a 1/2" maximum capacity. It is mounted in four precision preloaded bearings with bearings on pulley end floating in housing to compensate for expansion or contraction of spindle. Speeds of 465-675-1000-1500-2140-4250 R.P.M. are provided by six step V grooved aluminum pulleys. B-3 Collets 3" long are furnished allowing the use of double end mills.



HIGH
Bridgeport
SPEED

**"MASTER" MILLING DRILLING
AND BORING ATTACHMENT
MODEL
"M"**

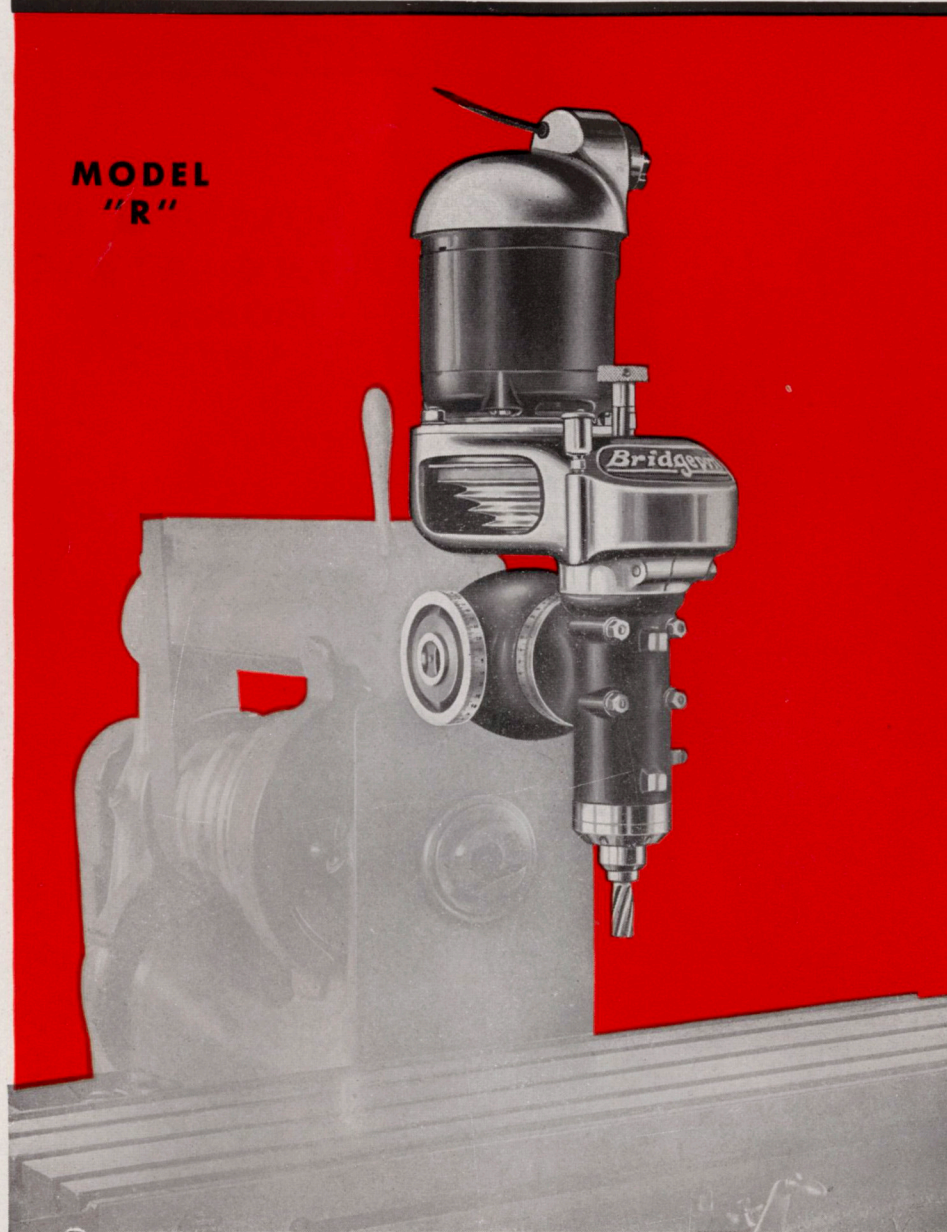
INVESTIGATE THE APPLICATIONS OF THIS TOOL THOROUGHLY

We believe it to be the most versatile instrument that can be bought. It can be used for milling, drilling, and boring at all angles without changing the setup of the work. It is a precision tool that can be depended upon to take care of the most accurate type of work.

SPECIFICATIONS. Spindle heat treated and ground, with No. 2 Morse Taper. Collets to fit this taper from $\frac{1}{8}$ " to $\frac{1}{2}$ " diameter. Quill is treated with a special chromium process giving it a surface hardness one point below the hardness of a diamond. Housing is lapped and closely fitted to the ground and lapped quill. Travel of quill $3\frac{1}{2}$ ". Dependable micrometer depth stop, graduated in thousands. Positive quill lock. Rack and worm feed for drilling and boring. Six spindle speeds 275-425-700-1050-2100 and 4250 R.P.M. The spindle has six splines and is driven by pulley mounted on separate ball bearings. Weight of spindle and quill balanced to provide sensitivity necessary for fine end milling. Heavy duty $\frac{1}{2}$ HP Motor provides ample power to meet most severe milling conditions within capacity of machine. Spindle provided with automatic collet ejection. Four bolt mounting assures rigidity and equal distribution of working strains. Duplicate work and contour milling can be performed by attaching tracer arm to quill. Spindle can also be furnished with No. 7 B. & S. taper or B-3 Collets if preferred.

HIGH
Bridgeport
SPEED

1/2 H. P. MILLING ATTACHMENT

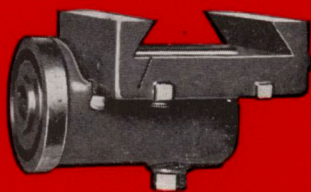


THE 1/2 H.P. ATTACHMENT HAS THE SAME FEATURES AS THE 1/4 H.P. MACHINE EXCEPT THAT IT IS BUILT PROPORTIONATELY HEAVIER

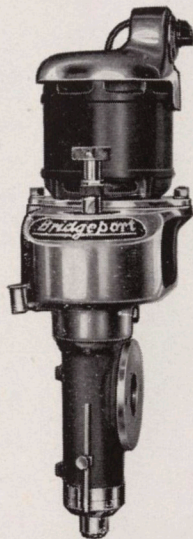
SPECIFICATIONS. Spindle heat treated and ground, machined to take collets up to 3/4" diameter. Collets are furnished sizes 1/8" to 3/4" for straight shank end mills and adapters for No. 7 B. & S. or No. 2 Morse Tapers for taper shank cutters. Spindle speeds are 275-425-700-1050-2100-4250. Large spindle and bearings give ample capacity for heavy cuts.

ADAPTERS

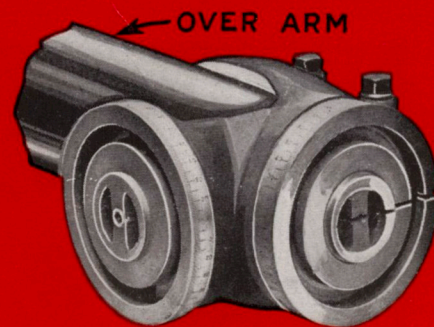
WE can supply adapters for mounting Bridgeport Attachments on any type of machine. Illustrated below are the types most commonly used.



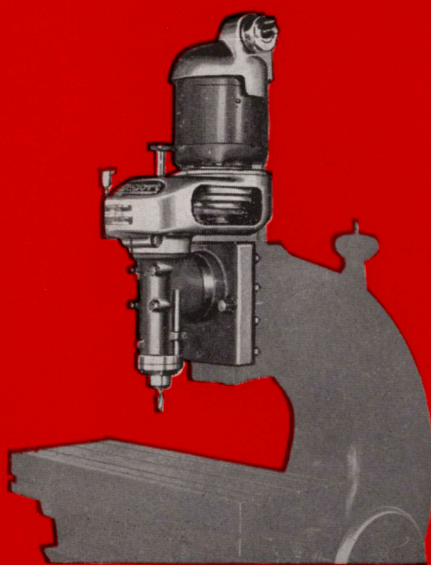
V Type Overarm Adapter



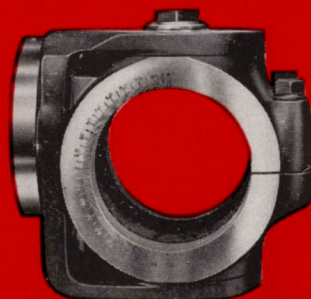
This picture illustrates the 1/4 H.P. Unit without the Adapter. One of the advantages of our design is the ability to mount our Attachments on small milling machines and on special production machines where the room is limited.



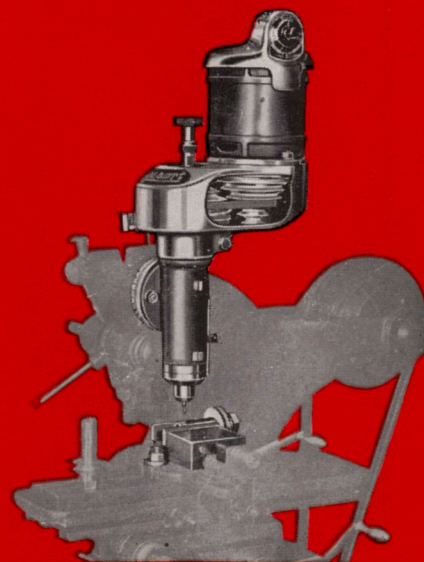
Above illustration shows crosscut section of STANDARD DUAL ADAPTER mounted on round overarm



Becker Vertical Miller Installation



Universal Adapter for round overarms
Furnished at extra cost



Hand Miller Installation

COLLETS • ADAPTER SLEEVES



No. 2 MORSE or No. 7 B. & S.
COLLET for Master Attachment



B-3 COLLET
for 1/4 H.P. Attachment



R-8 COLLET
for 1/2 H.P. Model R Attachment



R-8 ADAPTER for No. 2 Morse
or No. 7 B. & S. Taper

HIGH
Bridgeport
SPEED

SOLD BY
The Wallace Machine Tool Co.
50 CHURCH STREET
NEW YORK, N. Y.
TELEPHONE CORTLANDT 7-1538

MILLING ATTACHMENTS

SPEEDS RECOMMENDED FOR HIGH SPEED END MILLS

Dia. of End Mill	Annealed Tool Steel Peripheral Speed 70 Ft. P. M.	Soft Steel Peripheral Speed 80 Ft. P. M.	Cast Iron Peripheral Speed 90 Ft. P. M.
	R. P. M.	R. P. M.	R. P. M.
1/16"	4276	4888	5498
3/32	2855	3259	3688
1/8	2140	2440	2750
3/16	1420	1625	1830
1/4	1070	1222	1375
5/16	856	978	1100
3/8	713	815	917
7/16	611	698	786
1/2	535	611	688
9/16	475	543	611
5/8	428	489	550
11/16	389	444	500
3/4	357	407	458
13/16	332	379	427
7/8	306	349	393
15/16	285	326	366
1	267	306	344

CAN YOUR PRESENT
EQUIPMENT MEET THESE
RECOMMENDED SPEEDS?

Bridgeport Attachments have no limited field. They serve the one man tool shop or the largest automotive, electrical and machine tool industries with equal satisfaction.

Bridgeport Special spindles are used for diamond boring and profiling type-writer parts, automobile engine blocks, refrigerator parts and dozens of other applications.

A Bridgeport Attachment in your shop will prove a most useful all purpose tool, invaluable on tricky time eating jobs.

Bridgeport attachments will fit the NEW TURRET MILLING MACHINE which can be bought with or without the Milling Unit.

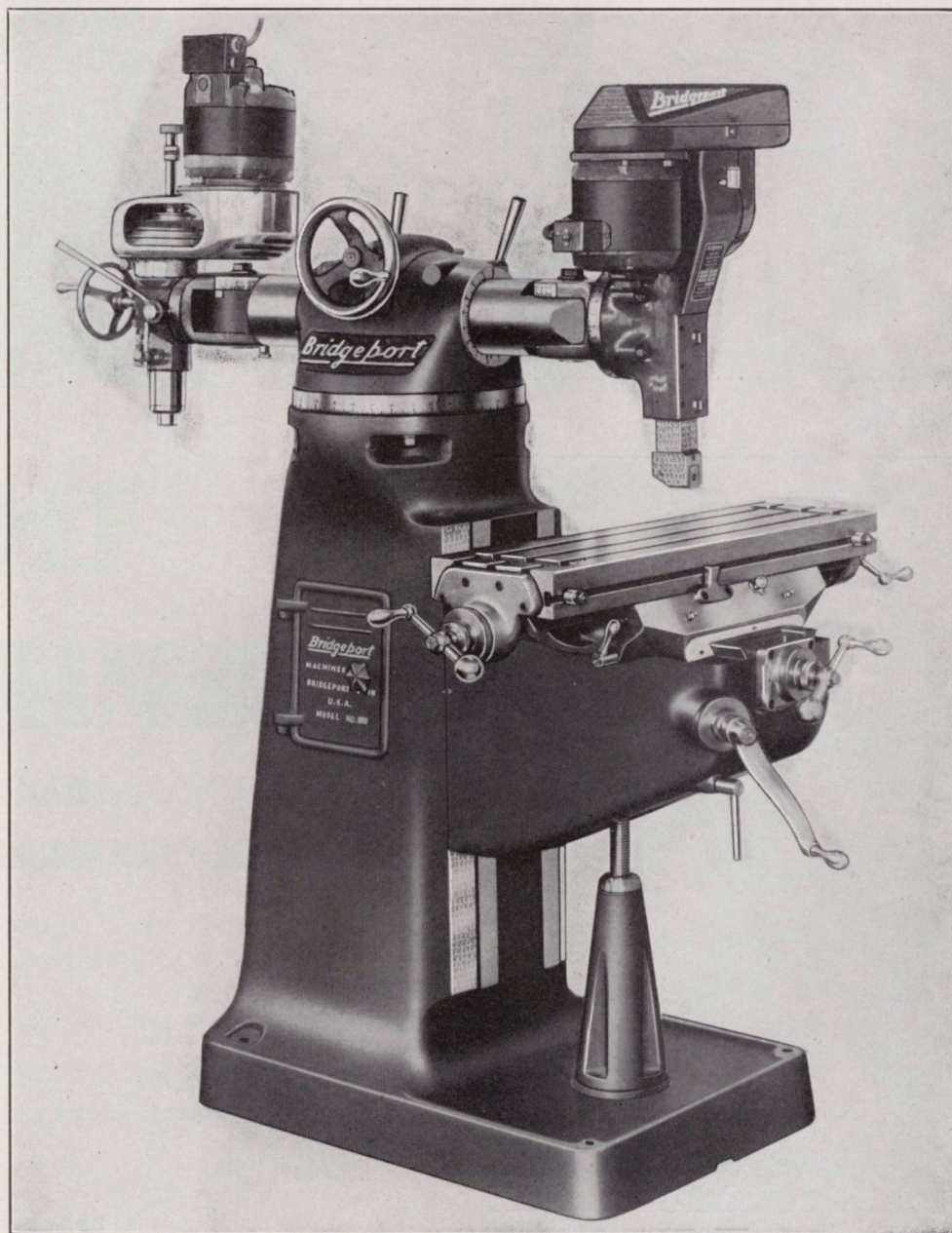
THE BRIDGEPORT MACHINES, INC.

SOLD BY

SOLD BY
The Wallace Machine Tool Co.
50 CHURCH STREET
NEW YORK, N. Y.
TELEPHONE CORTLANDT 7-1538

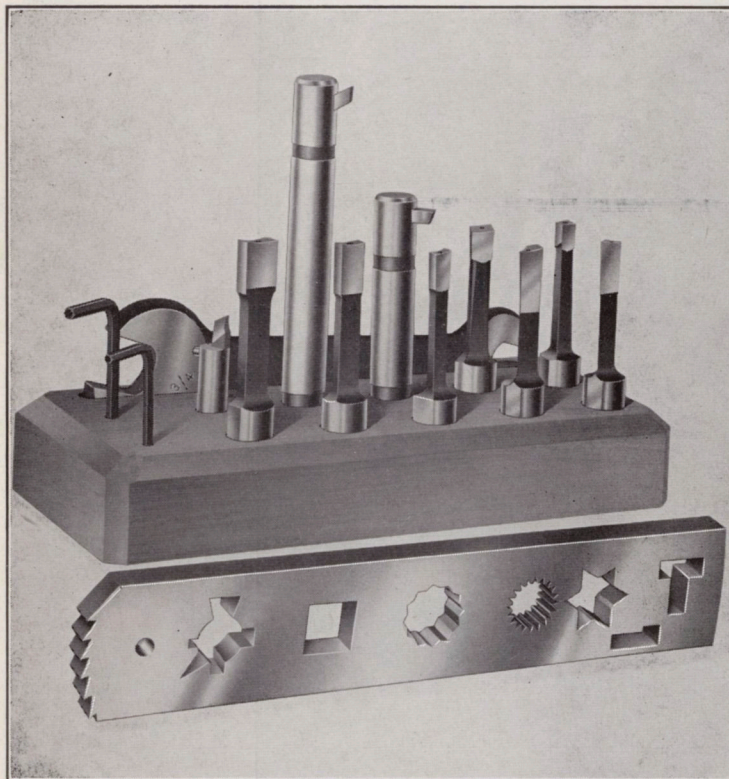
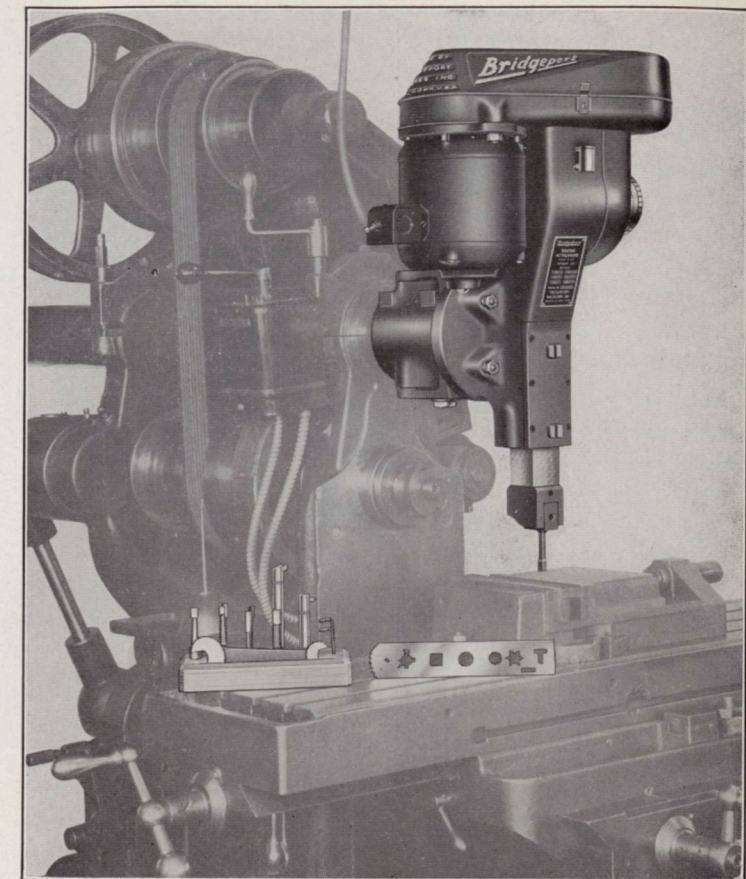
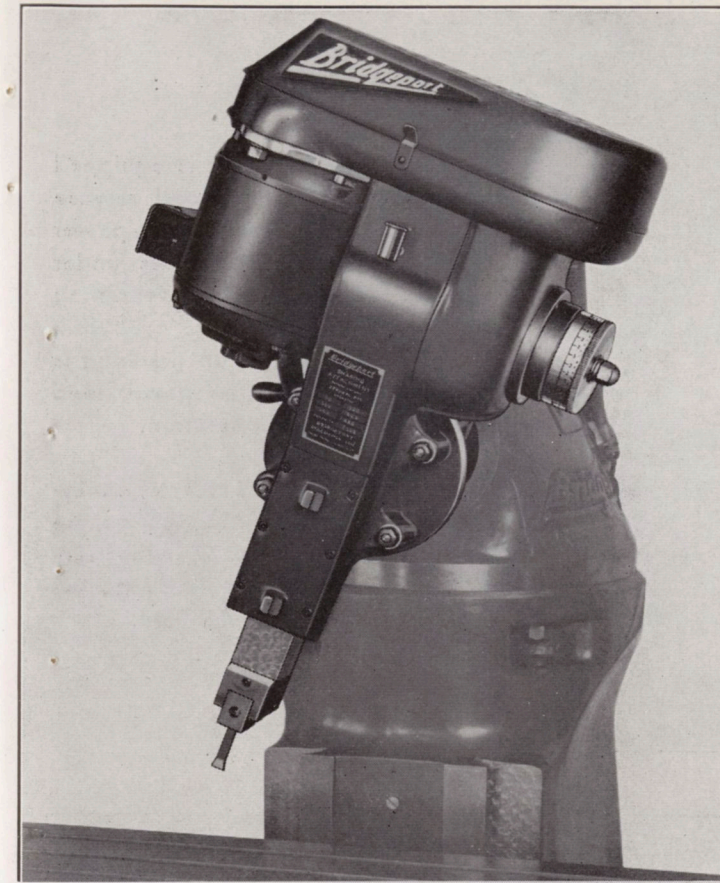
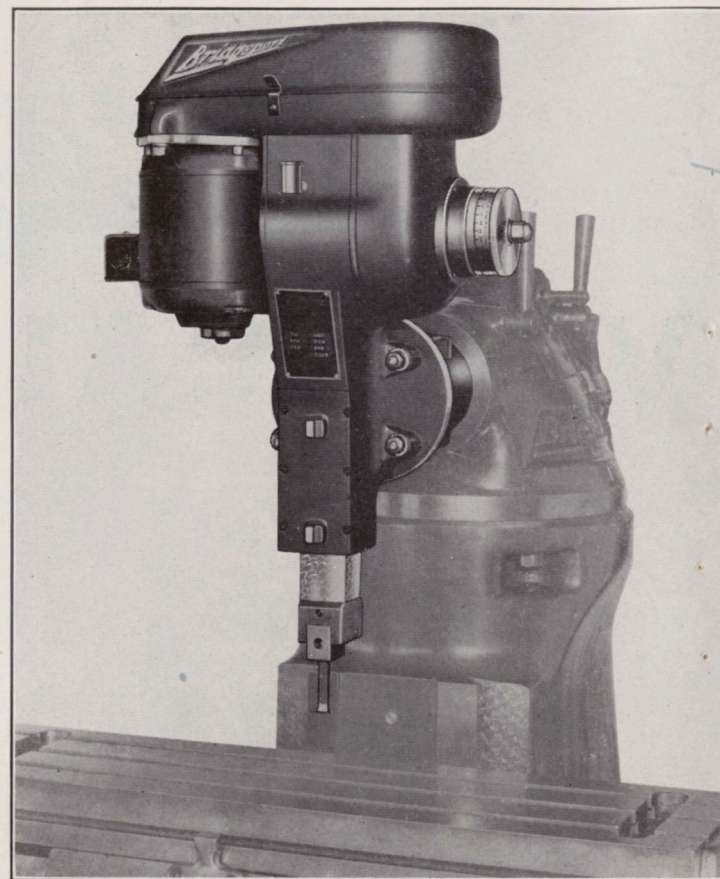
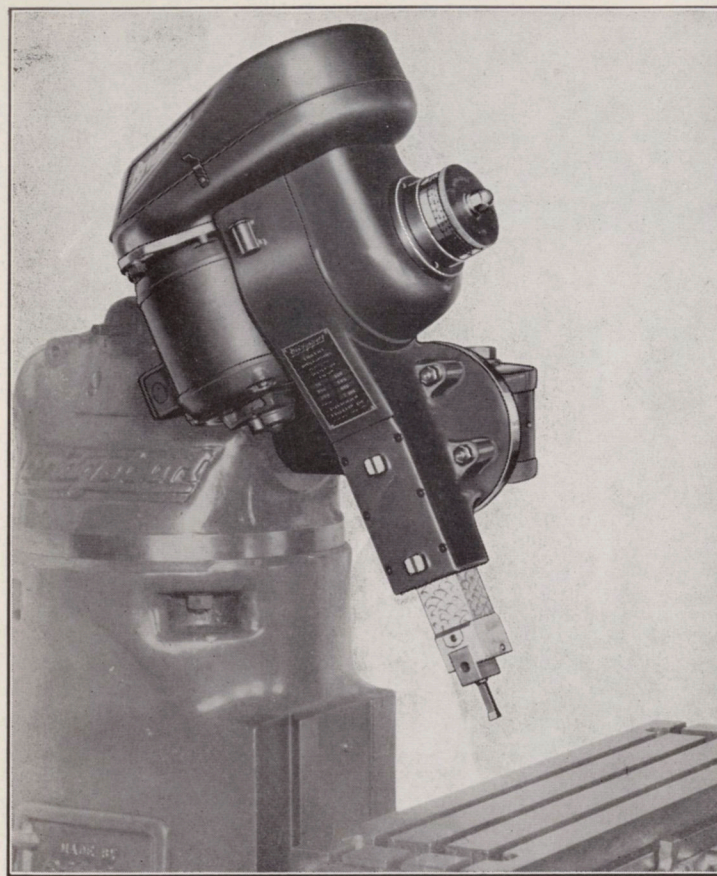
Bridgeport

VERTICAL SHAPING



ATTACHMENT

THE WALLACE MACHINE TOOL CO.,
50 CHURCH STREET
NEW YORK 7, N. Y.



SHAPING TOOL SET

Consists of seven shaped tools and three standard tool bit holders. Sample piece illustrates various shapes cut with these standard tools.

Price for complete set mounted in block, wrenches not included — \$42.00

THE *Bridgeport* SHAPING ATTACHMENT

FOR BRIDGEPORT TURRET MILLERS AND OTHER TYPES OF VERTICAL AND HORIZONTAL MILLING MACHINES

The Bridgeport Vertical Shaper Attachment can be placed in a plane strictly at right angle to the table, or at any vertical angle or compound angle to the table as illustrated in the above pictures.

Any desired stroke from 0" to 4" in $\frac{1}{8}$ " steps is available by merely turning the dial.

Speed range with $\frac{1}{3}$ HP 60 cycle, 1725 RPM motor: 70-100-145-205-295 and 420 strokes per minute.

Price with adapter for mounting on Bridgeport Turret Miller, round overarm horizontal type machine, or rectangular overarm — \$350.

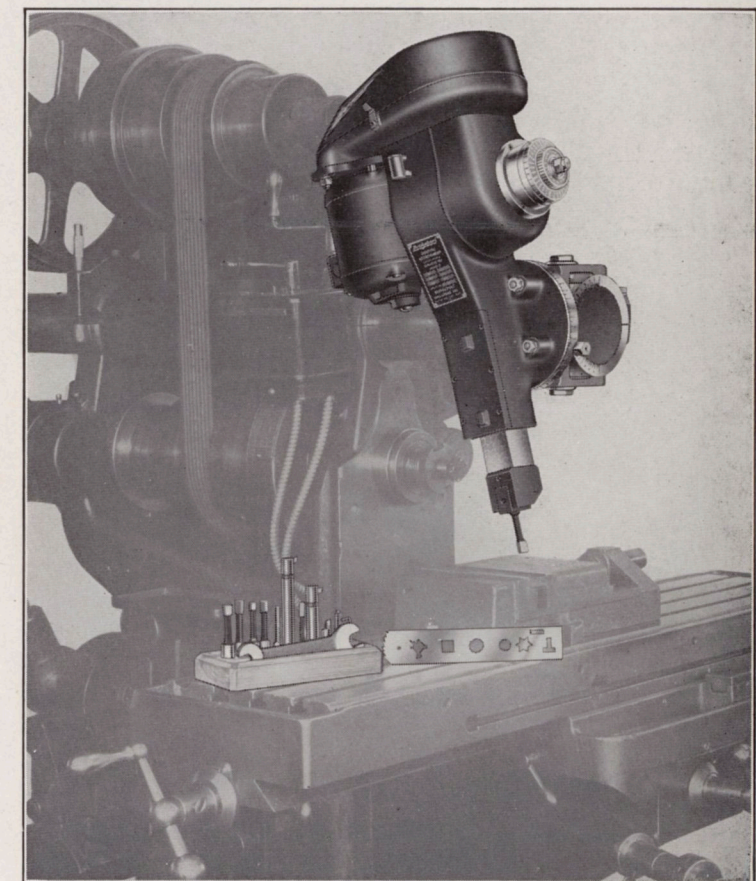
Made by

BRIDGEPORT MACHINES, INC.

52 REMER STREET

BRIDGEPORT 6, CONN., U.S.A.

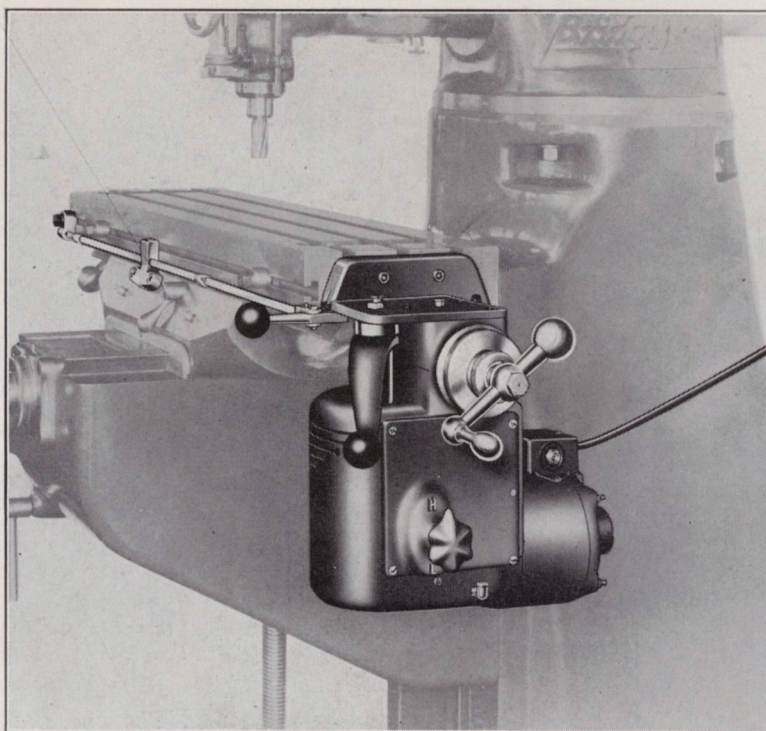
Sold by



Specify overarm dimension when ordering Shaping Attachment for round or rectangular overarm milling machines.

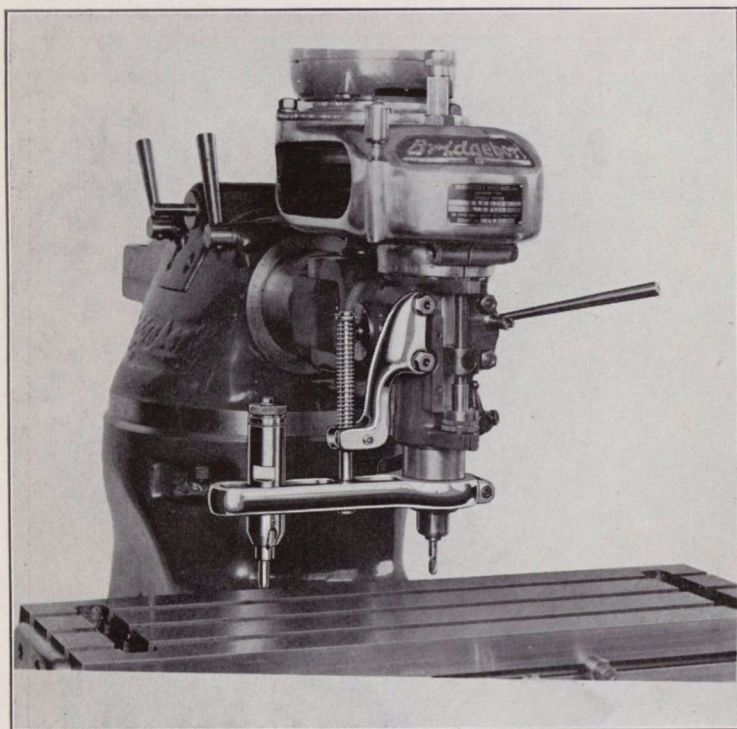
POWER FEED

The Bridgeport Motorized Power Feed Box can be installed on any Bridgeport Vertical Turret Miller. It gives a selection of 12 table speeds in longitudinal travel from 9/16" to 9" per minute in geometric progression.



The Feed Box is equipped with an overload release which disengages power feed when tool is under undue stress, eliminating damage to the feed box or tool. When the load is released, the power feed resumes operation.

Price — \$250 when installed on Milling Machine at factory. \$275 when furnished for Milling Machine already in the field.

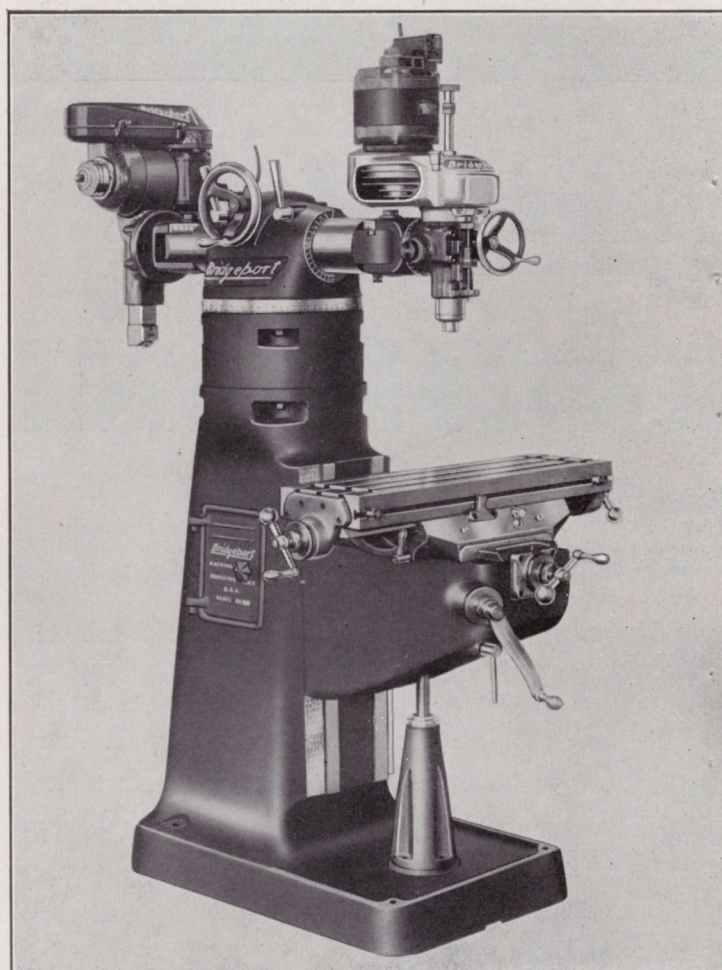


PROFILING ATTACHMENT

For duplication of irregular shaped dies, molds, and similar work.

Price — \$35

THE WALLACE MACHINE TOOL CO.,
50 CHURCH STREET
NEW YORK 7, N. Y.



RAISING BLOCK

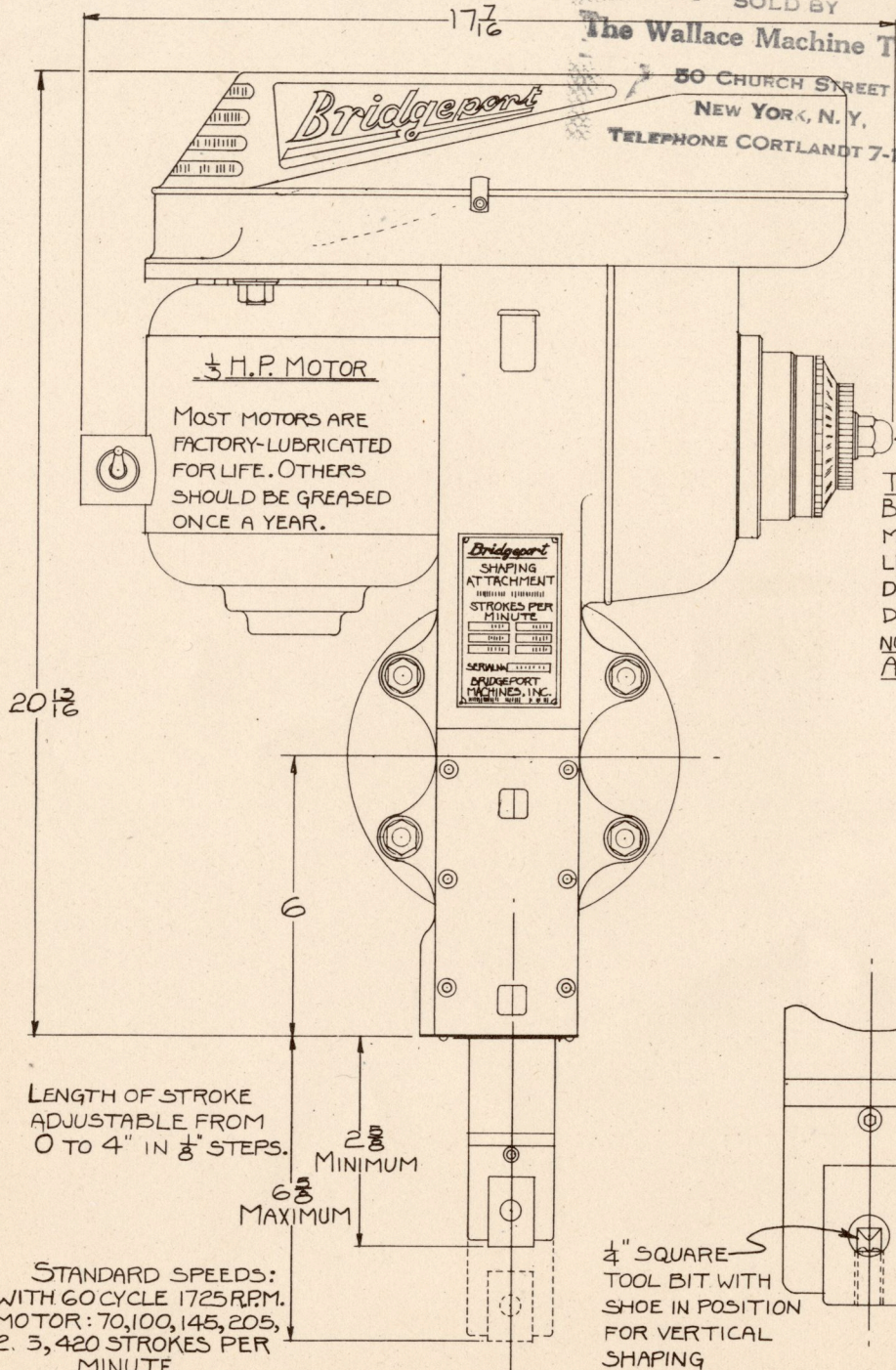
These raising blocks will increase the working height of the Turret Milling Machine for unusual jobs. Available in 4" and 7" sizes.

Price, 4" raising block — \$40
Price, 7" raising block — \$50

SOLD BY
The Wallace Machine Tool Co.
50 CHURCH STREET
NEW YORK, N. Y.
TELEPHONE CORTLANDT 7-1538

BRIDGEPORT MACHINES, INC.
BRIDGEPORT, CONN. U.S.A.

THE Bridgeport SHAPING ATTACHMENT

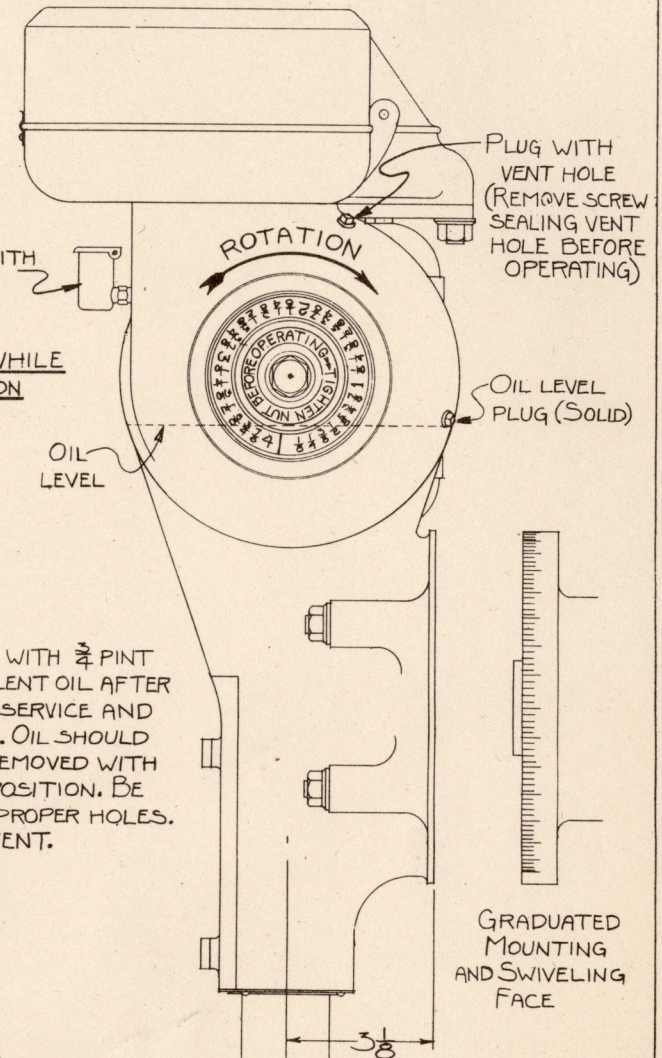


FLUSH THIS OIL CUP WITH
LIGHT MACHINE OIL DAILY.

THIS NUT MUST BE TIGHT WHILE
ATTACHMENT IS IN OPERATION

TO ADJUST LENGTH OF STROKE:
BACK UP CAP NUT 1/8 INCH. DIAL WILL
MOVE OUT FOLLOWING NUT. SET
LENGTH OF STROKE ON GRADUATED
DIAL OPPOSITE "0" LINE. PUSH IN
DIAL AND TIGHTEN NUT. BE SURE
NUT IS TIGHT BEFORE OPERATING
ATTACHMENT.

DRAIN AND REFILL GEAR CASE WITH 3/4 PINT
OF SOCONY 600W OR EQUIVALENT OIL AFTER
FIRST 2 MONTHS OF NORMAL SERVICE AND
TWICE YEARLY THEREAFTER. OIL SHOULD
FLOW WHEN LOWER PLUG IS REMOVED WITH
ATTACHMENT IN VERTICAL POSITION. BE
SURE TO REPLACE PLUGS IN PROPER HOLES.
TOP PLUG IS DRILLED FOR VENT.



1/4" SQUARE
TOOL BIT WITH
SHOE IN POSITION
FOR VERTICAL
SHAPING

TOOL BIT
CLAMP SCREW

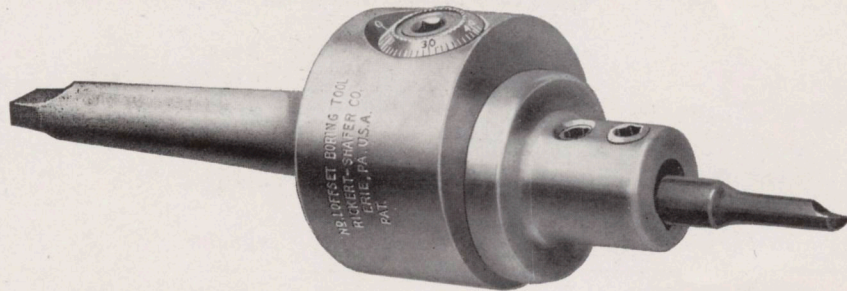
LOOSEN THESE
SCREWS TO
SWIVEL CLAPPER-
BOX.

CLAPPER SPRING
TENSION ADJUSTMENT

SLOTING TOOL
CLAMP SCREW

SLOTING TOOL IN POSITION

ADJUSTABLE BORING HEADS



The R-S BORING HEAD

is a *Universal* tool

being particularly adaptable to Milling Machines,
Turret Lathes or Drill Presses, in fact it can be
used with very satisfactory results on any drilling,
turning or boring machine tool.

Convenient · Accurate · Adaptable

Rigid · Economical



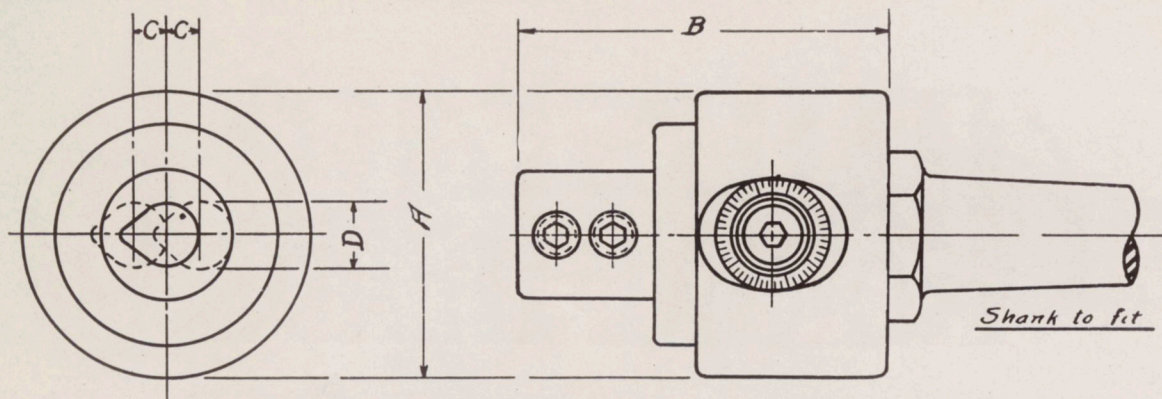
RICKERT-SHAFER COMPANY

ERIE, PENNSYLVANIA, U. S. A.

Bulletin No. 8

PRINTED
IN
U. S. A.

THE WALLACE MACHINE TOOL CO.,
60 CHURCH STREET
NEW YORK 7, N. Y.



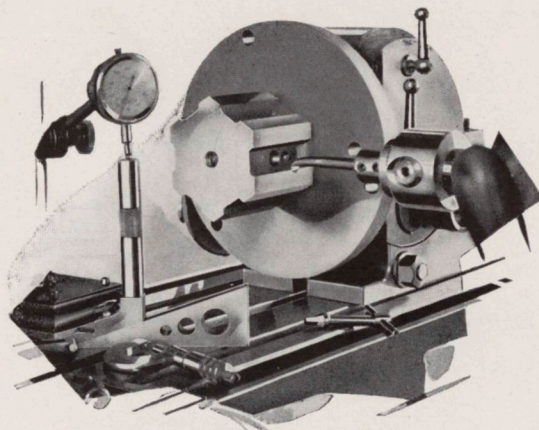
The Range of this Tool will be found to be greater than on any other Boring Head of the same diameter and length

SIZE	No. 1	No. 2	No. 3
Diameter "A"	2 1/4"	4"	5 1/2"
Length "B"	2 7/8"	4 7/8"	5 5/8"
Adjustment each side of center "C"	1/4"	1/2"	3/4"
Size of hole in tool holder "D"	1/2"	3/4"	1"
Price, with any size straight shank or taper shank as listed below	\$38.50	\$49.50	\$66.00

	MORSE TAPER	B & S TAPER
No. 1 Boring Head	No. 2 No. 3	No. 7
No. 2 Boring Head	No. 3 No. 4	No. 9 No. 10
No. 3 Boring Head	No. 4 No. 5	No. 10 No. 11

Prices are net, f. o. b. Erie.

Extra charge for adapters or special shanks.



IN USE ON MILLING MACHINE

Other products of this company are
 AUTOMATIC, SINGLE PURPOSE THREADING MACHINES;
 SELF-OPENING DIE HEADS; COLLAPSIBLE TAPS; TAPPING MACHINES

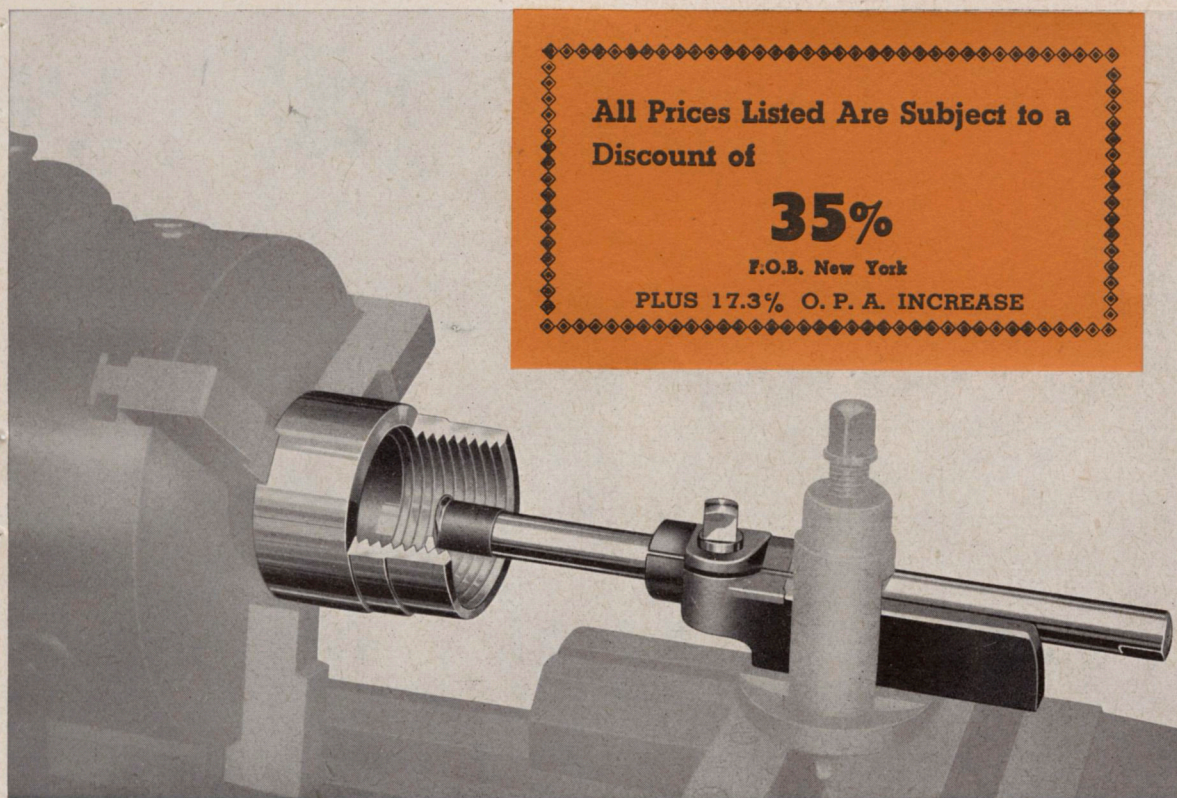
The Rickert-Shafer Company

Erie, Pennsylvania, U. S. A.



COMET

INTERNAL THREADING, BORING and FACING TOOLS



All Prices Listed Are Subject to a
Discount of

35%

F.O.B. New York

PLUS 17.3% O. P. A. INCREASE

For

Boring

•

Facing

•

Grooving

•

Internal

Threading

•

15 Different Sizes

Why are COMET Precision Tools preferred?

They are made of a super-high-speed-steel and specially heat treated.

The worm-like spiral of the boring heads provides a long, useful cutting surface.

Their use insures perfect fitting threads and saves much grinding.

The cutters require grinding on the top edge only, to sharpen, and therefore always remain true to form and of correct angle.

They are correctly designed for precision work.

All Tools available tipped with Cemented Carbide.

The Wallace Machine Tool Company

50 CHURCH STREET

COrtlandt 7-1538

NEW YORK 7, N. Y.

Sizes 0-1 to 0-6 Made of One Piece

For Holes from $\frac{1}{8}$ " to $\frac{7}{8}$ "



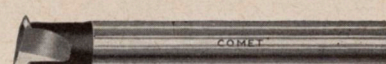
Boring Tool

For all kinds of boring work, universally useful



Facing Tool

For recessing and facing the bottom of blind holes



Threading Tool

A large range of threads per inch is cut with a single tool (see tables below)



Tool Holder for Sizes 0-1 to 0-6

Sizes 1-A to 5 With Detachable Heads

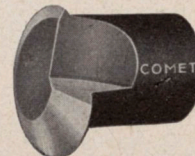
For Holes from $\frac{7}{8}$ " upw.



Boring Tool



Facing Tool



Threading Tool



Boring Bar with Detachable Head

No.	DIMENSIONS						PRICE EACH			
	Diam. Bar Inches	Length Overall Inches	Min. Boring Diam. Inches	Cut Threads per Inch	Max. Boring Depth Std. Tools Inches	Max. Boring Depth $4\frac{1}{2}$ " Tools Inches	Boring Tool	Facing Tool	Thread. Tool	Bar for Detachable Heads
0-0	$\frac{3}{8}$	2	$\frac{3}{32}$		$\frac{7}{8}$		\$3.40		\$	\$
0-1	$\frac{3}{8}$	2	$\frac{1}{8}$		$\frac{7}{8}$		3.40	\$4.00		
0-2	$\frac{3}{8}$	2- $\frac{3}{16}$	$\frac{3}{16}$	20-60	1- $\frac{3}{16}$	1- $\frac{5}{8}$	3.40	4.00	4.80	
0-3	$\frac{3}{8}$	2- $\frac{3}{16}$	$\frac{15}{64}$	20-60	1- $\frac{3}{16}$	1- $\frac{3}{4}$	3.40	4.00	4.80	
0-4	$\frac{3}{8}$	2- $\frac{9}{16}$	$\frac{5}{16}$	16-50	1- $\frac{3}{8}$	2	3.60	4.50	5.20	
0-5	$\frac{3}{8}$	2- $\frac{3}{4}$	$\frac{1}{2}$	12-40	1- $\frac{13}{16}$	2- $\frac{1}{2}$	3.90	5.20	6.30	
0-6	$\frac{3}{8}$	3- $\frac{3}{8}$	$\frac{5}{8}$	6-30	2- $\frac{3}{8}$	3	5.50	6.00	8.50	
1-A	$\frac{1}{2}$	8- $\frac{3}{4}$	$\frac{55}{64}$	7-20	5		5.50	6.40	8.50	2.50
2	$\frac{5}{8}$	10- $\frac{1}{2}$	$\frac{15}{16}$	6-16	6		6.70	7.70	9.00	2.80
2-A	$\frac{3}{4}$	11	1- $\frac{1}{32}$	6-14	7- $\frac{1}{2}$		8.50	9.20	9.90	3.20
2-B	$\frac{3}{4}$	12	1- $\frac{3}{16}$	5-12	8- $\frac{1}{2}$		10.60	12.70	13.60	3.20
3	$\frac{7}{8}$	13	1- $\frac{11}{32}$	4-10	9- $\frac{1}{4}$		12.80	15.80	17.30	3.60
3-A	$\frac{7}{8}$	13- $\frac{3}{4}$	1- $\frac{21}{32}$	3-9	10		14.90	18.50	21.50	3.70
3-B	1	14- $\frac{3}{4}$	1- $\frac{7}{8}$	2-8	10- $\frac{3}{4}$		17.80	21.00	25.00	4.70
4	1- $\frac{1}{4}$	16- $\frac{3}{4}$	2- $\frac{9}{32}$	2-8	12- $\frac{3}{4}$		20.00	25.50	29.00	5.50
5	1- $\frac{5}{16}$	19- $\frac{3}{4}$	2- $\frac{11}{16}$		15		22.80			7.00

Tool Holder No. B-10 for Sizes 0-1 to 0-6\$4.40 each

Dimensions of Tool Holder No. B-10: $\frac{5}{8}$ " x $\frac{5}{8}$ " x 5"

Bars of all larger sizes are made to fit any standard holder.

NOTE: When ordering Sizes 1-A to 5 please always indicate if cutters are desired with or without bars.

Prices subject to change without notice.

IMPORTANT: Tools No. 0-2 to 0-6 can be furnished $4\frac{1}{2}$ " long overall for cutting extra deep holes at an additional cost of \$1.50 each.

Threading Tools are available for U. S. Standard Threads (60°) and Whitworth Standard Threads (55°).

COMET INTERNAL THREADING and BORING TOOLS Tipped with

Cemented Carbide: Due to an increasing demand we are now ready to furnish all our tools tipped with Cemented Carbide at very reasonable prices. We recommend these tools for production jobs and where a fine and accurate finish is required. Prices on application.

USE READY-MADE TOOLS FOR GREATER EFFICIENCY!

New by Melin!

**HIGH - SPEED —
LONG - LIFE —
END MILLS FOR DEEP
MILLING, MOLDS, DIES,
JIGS, FIXTURES, ETC.**

**IMMEDIATE DELIVERY
FROM STOCK**

**THREE FLUTE
LONG NECK
END MILLS
for
DEEP MILLING
and
SLOTING**

HOLLOW GROUND FLUTES

**Improves: CUTTING EDGE
CHIP FLOW
PRODUCTION
LIFE OF TOOL
FINISH**

**Reduces: OVERHEATING
BREAKAGE
TOOL COSTS**

THREE FLUTE

"EN" SERIES

STRAIGHT END PRICES

Cat. No.	Dia. of Mill	Dia. of Shank	Max. Depth of Cut	Length of Cutting Edge	Overall Length	List Price Straight Balls
EN-1203	3/32"	3/8"	9/16"	1/4"	2 3/8"	\$2.25
EN-1204	1/8"	3/8"	3/4"	5/16"	2 9/16"	2.25
EN-1205	5/32"	3/8"	15/16"	13/32"	2 3/4"	2.25
EN-1206	3/16"	3/8"	1 1/8"	1/2"	2 7/8"	2.25
EN-1207	7/32"	3/8"	1 5/16"	9/16"	3 1/16"	2.25
EN-1208	1/4"	3/8"	1 1/2"	5/8"	3 3/16"	2.25
EN-1210	5/16"	3/8"	1 3/4"	3/4"	3 3/8"	2.40
EN-1212	3/8"	3/8"	1 7/8"	3/4"	3 7/16"	2.40
EN-1614	7/16"	1/2"	2"	7/8"	3 7/8"	3.00
EN-1616	1/2"	1/2"	2 1/4"	1"	4 1/16"	3.00

QUALITY



Regular

Long Neck

THREE FLUTE

"EN" SERIES

BALL END PRICES

Cat. No.	Dia. of Mill	Dia. of Shank	Max. Depth of Cut	Length of Cutting Edge	Overall Length	List Price Ball Ends
EN-1203B	3/32"	3/8"	9/16"	1/4"	2 3/8"	\$2.85
EN-1204B	1/8"	3/8"	3/4"	5/16"	2 9/16"	2.85
EN-1205B	5/32"	3/8"	15/16"	13/32"	2 3/4"	2.85
EN-1206B	3/16"	3/8"	1 1/8"	1/2"	2 7/8"	2.85
EN-1207B	7/32"	3/8"	1 5/16"	9/16"	3 1/16"	2.85
EN-1208B	1/4"	3/8"	1 1/2"	5/8"	3 3/16"	2.85
EN-1210B	5/16"	3/8"	1 3/4"	3/4"	3 3/8"	3.15
EN-1212B	3/8"	3/8"	1 7/8"	3/4"	3 7/16"	3.15
EN-1614B	7/16"	1/2"	2"	7/8"	3 7/8"	4.15
EN-1616B	1/2"	1/2"	2 1/4"	1"	4 1/16"	4.15

PRECISION

**DEEP CAVITY MILLING IS EASY WHEN YOUR TOOL IS A
MELIN "LONG NECK" END MILL**

Designed for greater accessibility to hard-to-reach cavities, Melin "Long Neck" End Mills are made for long life at high speeds. Created to fill a definite milling need, these tools are available in the standard bottom cutting and ball or radius ends. Each "Long Neck" Mill is ground only slightly undersize between the flutes and the shank for clearance, thus maintaining maximum strength.

THE WALLACE MACHINE TOOL CO.,
50 CHURCH STREET
NEW YORK 7, N. Y.



Straight End Sets **\$24⁷⁵**
Complete With Holder

for Deep Milling

MOLDS

DIES

JIGGS

FIXTURES

SLOTS, ETC.

MELIN TOOL CO., INC.

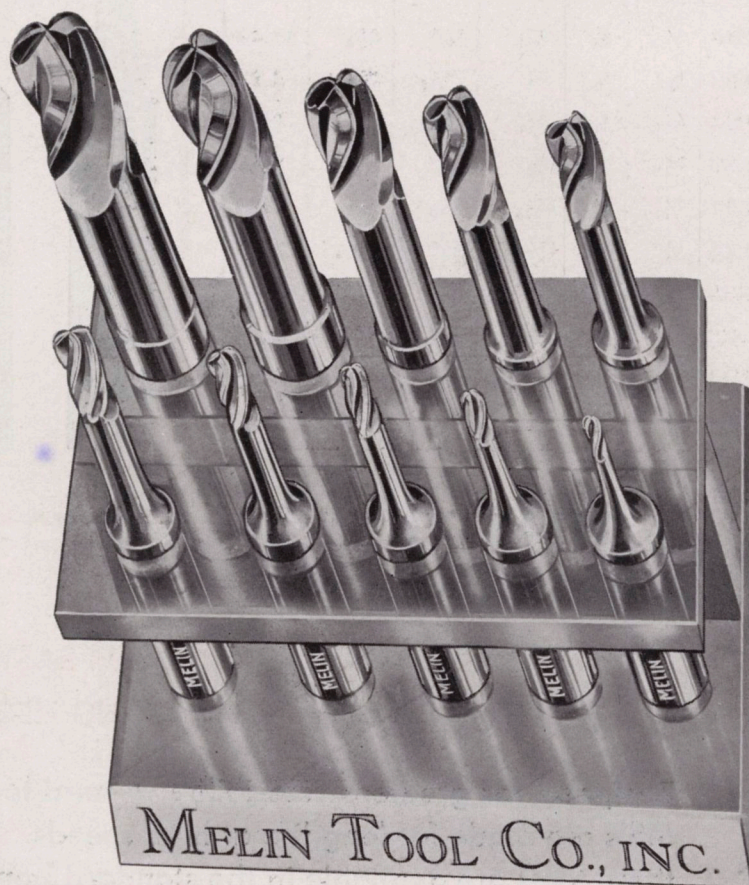
1331 Phillips St., S. W.
GRAND RAPIDS 7, MICH.

LONG NECK SERIES SETS

The Melin "Long Neck" end mills are now available in complete sets ranging in sizes from 3/32" to 3/8" with a 3/8" shank and 7/16" and 1/2" with 1/2" shank in neat plastic holders. Tools are visible for selection of size required and easily accessible when needed.

MELIN 3-FLUTE BOTTOM CUTTING DESIGNS

Permits plunging into solid metals like a drill before starting side cutting action. Provides perfect balance—eliminating flutter and chatter at high speeds. Permits roughing and finishing in one operation. Cutters stay sharp longer increasing production and lowering tool costs.



Ball End Sets **\$32²⁵**
Complete With Holder

HOG and

FINISH

with same tool!



MELIN *Long Life High Speed* 3-FLUTE END MILLS

THE MOST IMPORTANT END MILL DEVELOPMENT IN 20 YEARS

SOLE U.S. AGENTS
The Wallace Machine Tool Co.

80 Church Street

New York 10, N.Y.

TELEPHONE QUARTZ 3-1218

COMBINES THE *Fast Stock Removing Qualities* OF THE TWO-FLUTE WITH THE *Smooth Finishing Qualities* OF THE FOUR-FLUTE

AFTER YEARS of research, Melin Mills introduced the new tool that industry had long been waiting for . . . the Melin 3-FLUTE End Mill. This significant new tool signals the beginning of a new era in end milling . . . it combines in a single tool all the advantages of two and four flute mills, with none of the disadvantages of either!

The superior performance and durability of MELIN End Mills is the result of perfected high precision methods of manufacture . . . incorporating the use of the MELIN "Lead - Master" and other exclusive patented equipment.

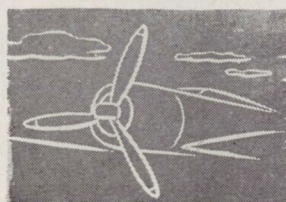
The back of each MELIN End Mill flute is cleared by the double back-off method to provide maximum strength with a keen cutting edge.

Faces of MELIN End Mill flutes are ground and polished to remove all decarburized metal thus assuring fast, clean cutting and minimum heat generation.

We guarantee the materials used in MELIN Long-Life High-Speed End Mills to be of the finest quality. We guarantee the heat treating and workmanship to be the best in the industry. We pledge ourselves never to sacrifice quality for any other consideration.

Left Hand Spiral R. H. Cut
Right Hand Spiral R. H. Cut

Sizes from 3/32" to 2"



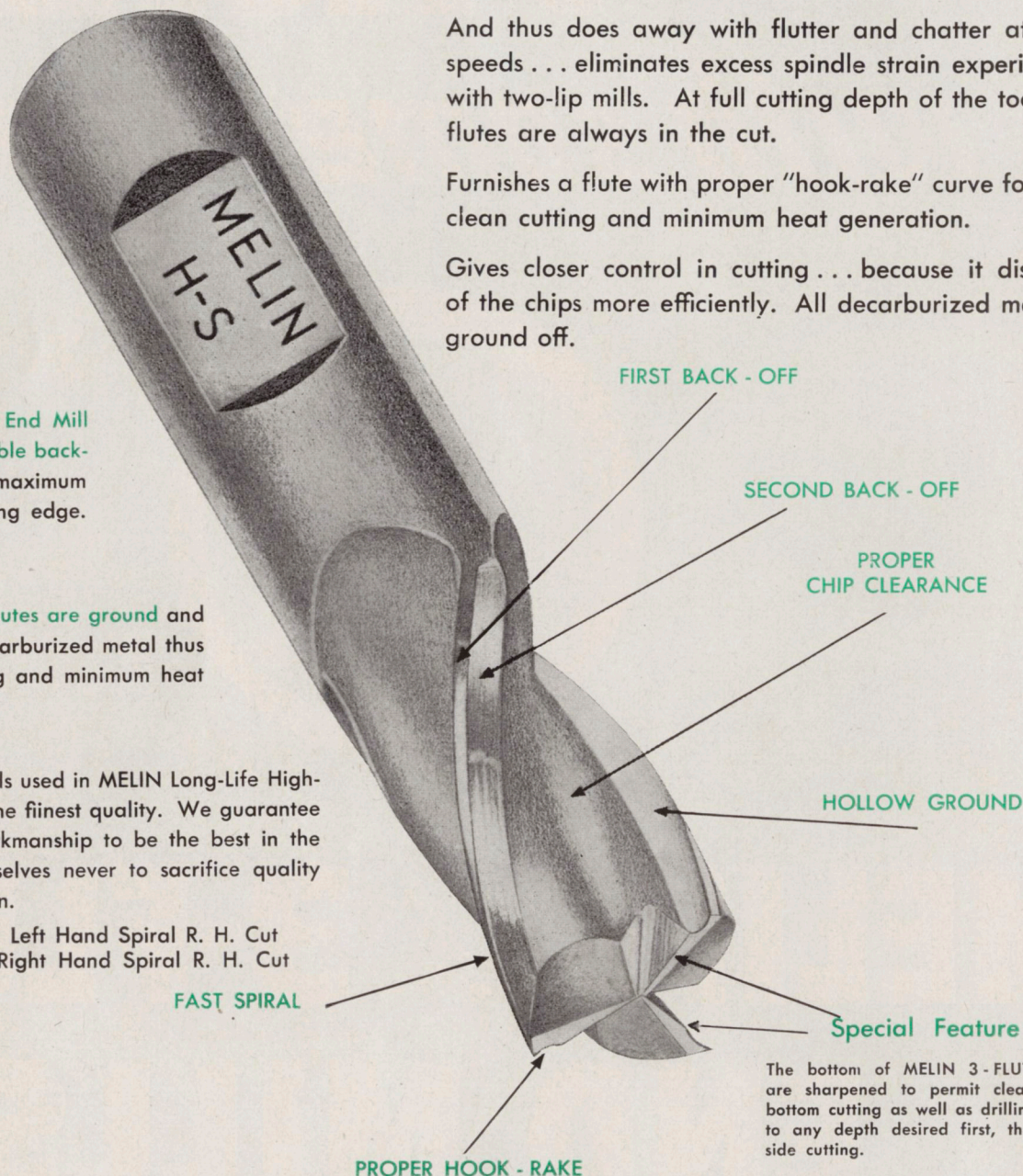
Provides Perfect Balance

PERFECT BALANCE—Everyone knows that the 3-blade principle achieves perfect balance in airplane propeller design. This same $360^\circ/3$ formula guarantees perfect balance in the new Melin 3-FLUTE End Mill!

And thus does away with flutter and chatter at high speeds . . . eliminates excess spindle strain experienced with two-lip mills. At full cutting depth of the tool two flutes are always in the cut.

Furnishes a flute with proper "hook-rake" curve for fast, clean cutting and minimum heat generation.

Gives closer control in cutting . . . because it disposes of the chips more efficiently. All decarburized metal is ground off.



Special Feature
The bottom of MELIN 3-FLUTE Mills are sharpened to permit clean, even bottom cutting as well as drilling down to any depth desired first, then start side cutting.

SINGLE END

Permits roughing and keyway milling to be done within closer limits . . . and with a smoother finish.

ANY DESIRED RADIUS ON ENDS

Guarantees extra sturdiness because of three-flute construction.

DOUBLE END

MELIN *Long Life High-Speed* **3-FLUTE END MILLS**

HERE IT IS! THE 3-FLUTE GAUGE

Now Melin 3-Flute End Mills can be quickly — easily and accurately measured with the Melin Quick Check Gauge.

Made of gauge steel and checked with precision micrometers for accuracy. Can be used for checking 2 and 4 flute end mills.

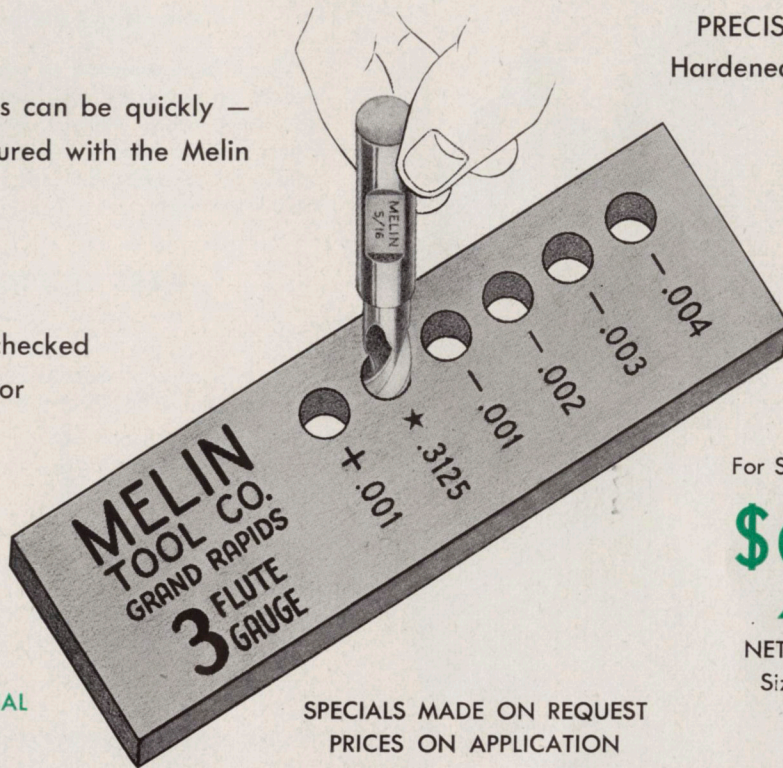
IN ORDERING SPECIFY ORIGINAL
SIZE OF END MILL

FAST

ECONOMICAL

ACCURATE

PRECISION REAMED Hardened for Long Life



\$200

NET — EACH SIZE
For Sizes 1/16 up to 1/2"

\$260

NET — EACH SIZE
Sizes 5/8 to 1"

SPECIALS MADE ON REQUEST
PRICES ON APPLICATION



TOOL ROOM or SMALL SHOP SET

Many tool rooms and small shops are in need of end mills for various jobs. The Melin 3-Flute End Mill is ideal for such requirements because it hogs and finishes — saves time — cuts cost — permits fast cutting with a smooth finish — PERMITS DRILLING DOWN TO ANY DEPTH DESIRED BEFORE STARTING SIDE CUTTING ACTION. It is fast, accurate, and durable.

The set as pictured has been developed for the tool room or small shop and consists of 14 single end 3-flute end mills ranging in sizes from 3/32" to 3/4". The sizes in the set are 3/32", 1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 3/8", 7/16", and 1/2" with 3/8" shank and 1/2", 9/16", 5/8", and 3/4" with 1/2" shank.

The hardwood holder permits keeping the tools neat and orderly. Tools are easily accessible when needed.

Complete set with
hardwood holder
4 $\frac{1}{4}$ " in diameter

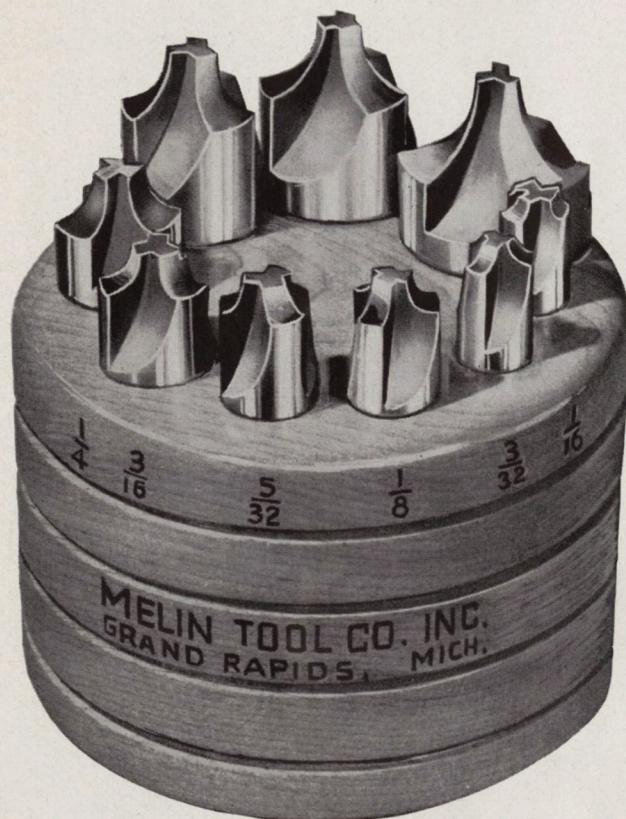
\$29⁵⁰ LIST

In the event of breakage or damage, individual replacements can be ordered.

Immediate delivery from stock.

CORNER ROUNDING TOOLS

HOLLOW GROUND - 3-FLUTE - LONG LIFE - HIGH SPEED



Melin Three-Flute Corner Rounding Tools

The 3-flute principle of the Melin 3-Flute End Mill, which has proven so successful, has been carried over to the Melin Corner Rounding Tools. Perfect Balance — Precision — Hollow Ground Flutes — Concentricity — Long Life — and Proper Rockwell Hardness are now offered in the new Melin Corner Rounders. Available from stock.

FAST CUTTING — ACCURATE

Cat. No.	Radius	Dia. of Largest Shank	Length of Shank (Up to Head)	Whole Length	List Price
R-2	$\frac{1}{16}$	$\frac{1}{2}$	$\frac{1}{2}$	$2\frac{3}{4}$	\$6.10
R-3	$\frac{3}{32}$	$\frac{1}{2}$	$\frac{1}{2}$	$2\frac{3}{4}$	6.40
R-4	$\frac{1}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	3	7.90
R-5	$\frac{5}{32}$	$\frac{1}{2}$	$\frac{5}{8}$	3	8.80
R-6	$\frac{3}{16}$	$\frac{3}{4}$	$\frac{3}{4}$	$3\frac{1}{8}$	10.10
R-8	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{7}{8}$	$3\frac{1}{4}$	11.00
R-10	$\frac{5}{16}$	$\frac{3}{4}$	1	$3\frac{3}{4}$	12.90
R-12	$\frac{3}{8}$	$\frac{3}{4}$	$1\frac{1}{8}$	$3\frac{3}{4}$	14.90
R-16	$\frac{1}{2}$	$\frac{3}{4}$	$1\frac{3}{8}$	$3\frac{3}{4}$	17.10

TOOLS MAY BE PURCHASED INDIVIDUALLY OR IN SETS

CONSTANT GROUND RELIEF FOR CLEARANCE

FREE ! HANDY CIRCULAR HARDWOOD HOLDER FREE WITH EACH PURCHASE OF COMPLETE SET OF TOOLS

The Melin Precision High Speed Long Life End Mills, which are available in 2, 3, or 4 flutes, have won great favor in the past years in the Tool and Die Shops, Mold Shops and Production Shops because of their adaptability to a wide range of milling problems; their performance with utmost accuracy, speed, and dependability; their fast cutting and smooth finishing qualities. The sturdy construction and precision grinding gives proper chip clearance, and the danger of clogging and resultant overheating is eliminated assuring longer life.

The selection of the finest steels plus correct, scientific heat treatment assures you of longer tool life and less cost.

THE 3 FLUTE IS STANDARD WITH MELIN AND CARRIED EXCLUSIVELY IN STOCK (FOR IMMEDIATE DELIVERY) in a great assortment of sizes ranging from $\frac{3}{32}$ " to 2" with single or double ends, and ball or radius ends. Also, a complete line of 2 and 4 flute mills are in stock. Specials are made upon request; prices on application.

Cut your milling costs with Melin. A trial order will convince you. New complete catalog and price list available on request.

MELIN TOOL COMPANY, INC.

1331 PHILLIPS ST., S. W.

(SINCE 1906)

GRAND RAPIDS, MICH.

FACTORY REPRESENTATIVES READY TO SERVE YOU

SOLD BY

The Wallace Machine Tool Co

50 CHURCH STREET

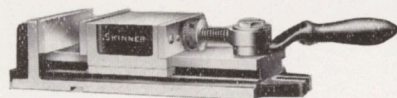
NEW YORK, N. Y.

TELEPHONE CORTLANDT 7-1538



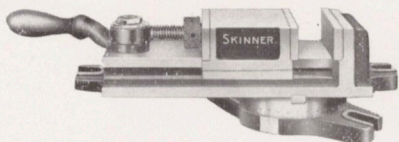
SKINNER MILLING MACHINE VISES

Dual Action—Lever Handle
Semi-Steel Body



SERIES DA
Plain Base

SERIES DS
Swivel Base



These quick-acting, sure-gripping Milling and Drilling Machine Vises get work into and out of your machines swiftly. The knurled collar and screw provides jaw adjustment; then a short pull on the handle, in either direction to center, grips the work with pressures up to two tons by means of the cam action. Release is fast and easy.

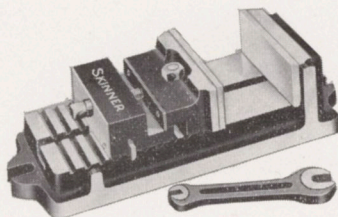
Sizes (Inches) and Prices

Series DA		Series DS		Width of Jaw	Length of Base	Depth of Jaw	Jaws Open
Order by No.	List Price	Order by No.	List Price				
4DA	\$50.00	4DS	\$ 70.00	4	12 $\frac{1}{2}$	1 $\frac{1}{2}$	2
5DA	56.00	5DS	76.00	5	14 $\frac{3}{4}$	1 $\frac{1}{2}$	3
6DA	82.00	6DS	107.00	6	16 $\frac{5}{8}$	1 $\frac{1}{2}$	4



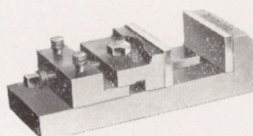
SKINNER DRILL PRESS VISES

Semi-Steel Body



Sizes 3 $\frac{1}{2}$ " to 7 $\frac{1}{2}$ "

SERIES DPV



Size 2 $\frac{1}{2}$ " only

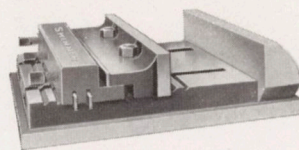
These sturdy quick-acting accurately machined vise are designed for all around work on Drill Presses. Clamp the work for all drilling in one plane. Drill, then turn this vise on edge for a second operation in a plane at right angles — without reclamping.

Sizes (Inches) and Prices

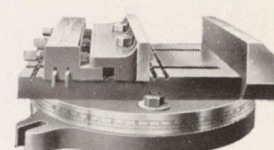
Order by Number	List Price	Width of Jaw	Length of Base	Depth of Jaw	Jaws Open	Space Required
2 $\frac{1}{2}$ DPV	\$19.00	2 $\frac{1}{2}$	6	1 $\frac{1}{32}$	2 $\frac{5}{8}$	6 x 2 $\frac{1}{2}$
3 $\frac{1}{2}$ DPV	24.00	3 $\frac{1}{2}$	10	1 $\frac{3}{8}$	3 $\frac{5}{8}$	10 x 4 $\frac{1}{4}$
4 $\frac{1}{2}$ DPV	28.00	4 $\frac{1}{2}$	13 $\frac{3}{4}$	2 $\frac{1}{16}$	5 $\frac{1}{4}$	14 x 5 $\frac{1}{4}$
5 $\frac{1}{2}$ DPV	33.00	5 $\frac{1}{2}$	15 $\frac{1}{4}$	2 $\frac{1}{16}$	6 $\frac{1}{2}$	15 $\frac{1}{4}$ x 6 $\frac{1}{8}$
7 $\frac{1}{2}$ DPV	57.00	7 $\frac{1}{2}$	20 $\frac{3}{4}$	2 $\frac{1}{2}$	8 $\frac{7}{8}$	20 x 9

SKINNER

PLANER OR SHAPER VISES



STYLE "S"
Square Base



STYLE "R"
Round Swivel Base

The Style "S" vise is much stronger than the ordinary planer or shaper vise. It is flanged on all sides for clamping to the machine table.

The Style "R" is the heaviest and strongest planer and shaper vise made. It will hold either straight or taper work so rigidly that very heavy cuts may be taken.

Sizes (Inches) and Prices

Size	Style "S"		Style "R"		Jaw Length	Jaw Depth	Jaw Will Open
	Order by No.	List Price	Order by No.	List Price			
6			6R	\$ 72.00	7	1 $\frac{3}{4}$	3 $\frac{1}{4}$
8	8S	\$ 67.00	8R	93.00	9	1 $\frac{7}{8}$	5
10	10S	77.00	10R	114.00	11	2 $\frac{3}{8}$	5 $\frac{3}{4}$
12	12S	96.00	12R	140.00	13	2 $\frac{3}{8}$	8
15	15S	131.00	15R	180.00	15 $\frac{1}{2}$	2 $\frac{1}{2}$	10 $\frac{1}{4}$
18	18S	165.00	18R	233.00	18 $\frac{1}{2}$	2 $\frac{3}{4}$	11 $\frac{1}{4}$
24	24S	240.00	24R	330.00	24 $\frac{1}{4}$	2 $\frac{3}{4}$	16
30	30S	405.00	30R	480.00	30 $\frac{1}{4}$	3	21 $\frac{1}{2}$

Style "V" square swivel base vises are made on order only. Prices and dimensions furnished on request. When ordering style "V" planer vises be sure to send sketch showing location of slots in machine table and distance center to center of slots to which vise is to be fitted.



SKINNER

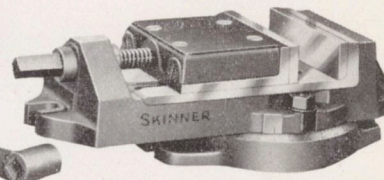
Crank Handle Type MILLING MACHINE VISES

Semi-Steel Body

SERIES F
Flanged Base



SERIES FS
Swivel Base



Generally used on Milling Machines, this vise is made with a rugged body and jaw. The metal is distributed to withstand heavy strains and the work holding surfaces are faced with removable hardened and ground steel plates. The thrust is taken by a collar integral with the large diameter adjusting screw.

Four bolt slots and keys are provided for attaching the vise to the machine, either parallel with or at right angles to the table. With swivel base, work can be milled at any angle in a horizontal plane.

Sizes (Inches) and Prices

Series F		Series FS		Width of Jaw	Length of Base	Depth of Jaw	Jaws Open
Order by No.	List Price	Order by No.	List Price				
5F	\$ 44.00	5FS	\$ 64.00	5 $\frac{5}{16}$	15 $\frac{11}{16}$	1 $\frac{7}{16}$	3
6F	68.00	6FS	88.00	6 $\frac{3}{16}$	17 $\frac{1}{8}$	1 $\frac{3}{4}$	3 $\frac{3}{4}$
7F	100.00	7FS	123.00	7 $\frac{1}{4}$	19 $\frac{1}{8}$	1 $\frac{3}{4}$	4 $\frac{1}{4}$
8F	140.00	8FS	164.00	8 $\frac{5}{16}$	22 $\frac{7}{8}$	1 $\frac{15}{16}$	6

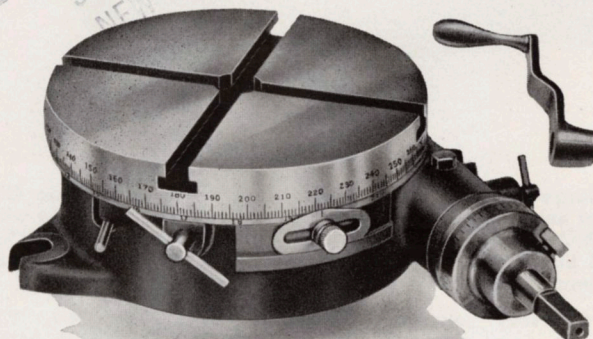
Distributed by

THE WALLACE MACHINE TOOL CO., 50 Church Street, New York 7, N. Y.

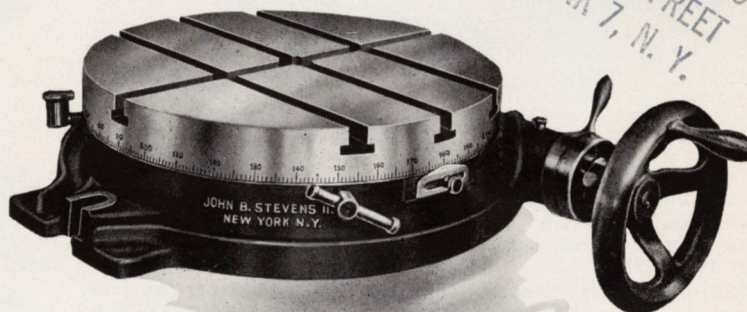
STEVENS ROTARY TABLES

TWO TYPES

STANDARD TYPE



7 1/2 AND 12 IN. SIZES
Hand Wheel on 12 in. size



18 AND 24 IN. SIZES

These Rotary Tables combine the accuracy required in tool making, and the strength required in production work.

The design permits a ready and quick checking of fit of worm in gear at any time, assuring a continual ABSENCE OF LOST MOTION.

Take-up for end thrust of worm is provided, and periphery of table is graduated for reading in degrees from an ADJUSTABLE ZERO LINE on base.

ADJUSTABLE COLLAR on worm shaft is graduated for readings in SINGLE MINUTES.

The TABLE has LARGE DIAMETER TAPER HUB CAST INTEGRAL, and both scraped to uniform fit on, and in TAPER HOLE IN BASE, with LARGE DIAMETER FLANGE RIGIDLY ATTACHED TO LOWER END OF HUB, AND FITTING UP AGAINST UNDERSIDE OF BASE.

Long life of original fit is thus assured. The use of quickly machined sleeves or separate pieces to eliminate double fit scraping and other direct labor costs is not employed.

The large oiler in side of base, when filled, assures an OIL BATH not only FOR THE WORM, but for the GEAR ALSO,

as well as LUBRICATING UNDERSIDE OF TABLE, THE HUB, and the FLANGE fits. This lubrication is RETAINED as there are no openings for same to escape.

For the very necessary STABILITY OF WORM AND ITS SHAFT, we carry the same in a LONG ECCENTRIC SLEEVE CAREFULLY fitted into DEEP BORED HOLE IN FRONT SECTION OF BASE, with efficient means for binding when swung for worm in mesh, and when out of mesh. With this construction we have NO OPENINGS IN TOP, BOTTOM or SIDES of these Rotary Tables, and therefore AT NO TIME CAN DUST, DIRT OR CHIPS ENTER.

Wrenches, Holding-down Bolts and Tongues in underside of base are provided.

In the 7 1/2 and 12 inch sizes, a substantial pin for DIRECT INDEXING is provided for engaging in stations in underside of table near outer edge of the latter for quickly obtaining divisions of 2, 4, 6, 8, 12 and 24, with worm and gear disengaged.

Materials, workmanship, finish and accuracy is comparable to that of any high grade machine tool.

DIMENSIONS

	7-1/2 in.	12 in.	18 in.	24 in.
Diameter of table	7-1/2 in.	12 in.	18 in.	24 in.
Height	3-5/16 in.	4-3/16 in.	5-3/8 in.	7-3/8 in.
Diameter hole through center	15/16 in.	1 in.	1-1/2 in.	2 in.
Width of tee slots	7/16 in.	11/16 in.	11/16 in.	13/16 in.
Length, fit on machine table	10 in.	16 in.	23-1/2 in.	30 in.
Distance center to hand wheel	7 in.	8-1/2 in.	12 in.	18 in.
Net weight	42 lbs.	150 lbs.	325 lbs.	825 lbs.
Boxed weight	50 lbs.	165 lbs.	380 lbs.	875 lbs.
Code-word	Annal	Anite	Anule	Anoor

DIAL TYPE ROTARY TABLES

REVERSE SIDE

Manufactured by

JOHN B. STEVENS INC.

480 CANAL STREET, NEW YORK 13, N. Y., U.S.A.

CABLE ADDRESS: STEVINCK NEW YORK

For Sale by

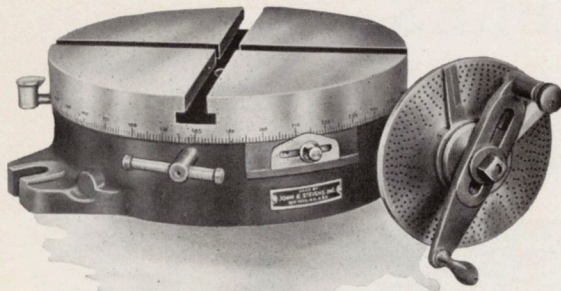
THE WALLACE MACHINE TOOL CO.

50 CHURCH STREET

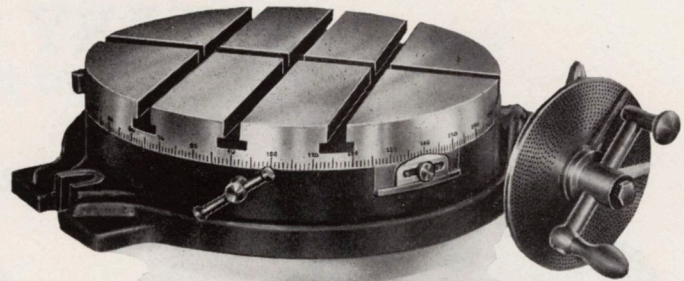
NEW YORK 7, N. Y.

JOHN B. STEVENS INC.

ROTARY TABLES — DIAL INDEXING TYPE



7 1/2 AND 12 IN. SIZES



18 AND 24 IN. SIZES

These Rotary Tables combine the accuracy required in tool making, and the strength required in production work.

The design permits a ready and quick checking of fit of worm in gear at any time, assuring a continual ABSENCE OF LOST MOTION.

Take-up for end thrust of worm is provided, and periphery of table is graduated for reading in degrees from an ADJUSTABLE ZERO LINE on base.

The TABLE has LARGE DIAMETER TAPER HUB CAST INTEGRAL, and both scraped to uniform fit on, and in TAPER HOLE IN BASE, with LARGE DIAMETER FLANGE RIGIDLY ATTACHED TO LOWER END OF HUB, AND FITTING UP AGAINST UNDERSIDE OF BASE.

Long life of original fit is thus assured. The use of quickly machined sleeves or separate pieces to eliminate double fit scraping and other direct labor costs is not employed.

The large oiler in side of base, when filled, assures an OIL BATH not only FOR THE WORM, but for the GEAR ALSO, as well as LUBRICATING UNDERSIDE OF TABLE, THE HUB, and the FLANGE fits. This lubrication is RETAINED as there are no openings for same to escape.

For the very necessary STABILITY OF WORM AND ITS SHAFT, we carry the same in a LONG ECCENTRIC SLEEVE CAREFULLY fitted into DEEP BORED HOLE IN FRONT SECTION OF BASE, with efficient means for binding when swung for worm in mesh, and when out of mesh. With this construction we have NO OPENINGS IN TOP, BOTTOM or SIDES of these Rotary Tables, and therefore AT NO TIME CAN DUST, DIRT OR CHIPS ENTER.

Materials, workmanship, finish and accuracy is comparable to that of any high grade machine tool.

DIVISIONS OBTAINABLE

7 1/2 inch Size, All numbers to 58, those divisible by 2 to 116, by 3 to 132, by 4 to 240, and by 5 to 60
12 inch Size, All numbers to 100, those divisible by 2 to 200, by 3 to 381, by 4 to 348, and by 5 to 320
18 inch Size, All numbers to 150, those divisible by 2 to 300, by 3 to 381, by 4 to 380, and by 5 to 380
24 inch Size, All numbers to 150, those divisible by 2 to 300, by 3 to 381, by 4 to 380, and by 5 to 380

DIMENSIONS

Diameter of table	7-1/2 in.	12 in.	18 in.	24 in.
Height	3-5/16 in.	4-3/16 in.	5-3/8 in.	7-1/16 in.
Diameter hole through center	15/16 in.	1 in.	1-1/2 in.	2 in.
Width of tee slots	7/16 in.	11/16 in.	13/16 in.	13/16 in.
Length, fit on machine table	10 in.	16 in.	23-3/8 in.	30 in.
Distance center to dial	4-3/4 in.	7-1/2 in.	10-7/8 in.	15-5/8 in.
Net weight	45 lbs.	160 lbs.	350 lbs.	825 lbs.
Boxed weight	53 lbs.	175 lbs.	380 lbs.	875 lbs.
Code-word	Anrae	Anroy	Anoot	Anart

ADJ. ANGLE TILTING TABLE

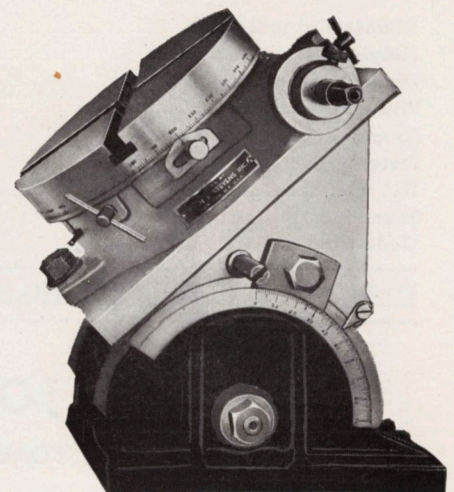
Our Adjustable Angle Tilting Tables have been designed to meet the call for a tilting fixture for use in connection with either of the two types of our 7 1/2" and 12" Rotary Tables, as well as for mounting vises, or other holding fixtures for adjustable angle machining.

The top or swiveling section of the fixture can be swung by means of circular rack and pinion, and readily bound at any point between vertical and horizontal position. A keyway run lengthwise of top surface.

Care has been taken in the design to keep the height at a minimum — a substantial fixture in every particular, and combining the accuracy required for fine toolroom work, also the stability for production work.

DIMENSIONS

Size of top section	No. 1	No. 2
Height in horizontal position	6 1/2 x 10 in.	11 x 16 in.
Height to top of 7 1/2 in. Rotary Table when mounted	6-1/2 in.	9-1/4 in.
Height to top of 12 in. Rotary Table when mounted	9-13/16 in.	13-7/16 in.
Net weight	57 lbs.	190 lbs.
Net weight with 7 1/2 in. Rotary Table	94 lbs.	350 lbs.
Net weight with 12 in. Rotary Table		
Code-word	Arrat	Arrot



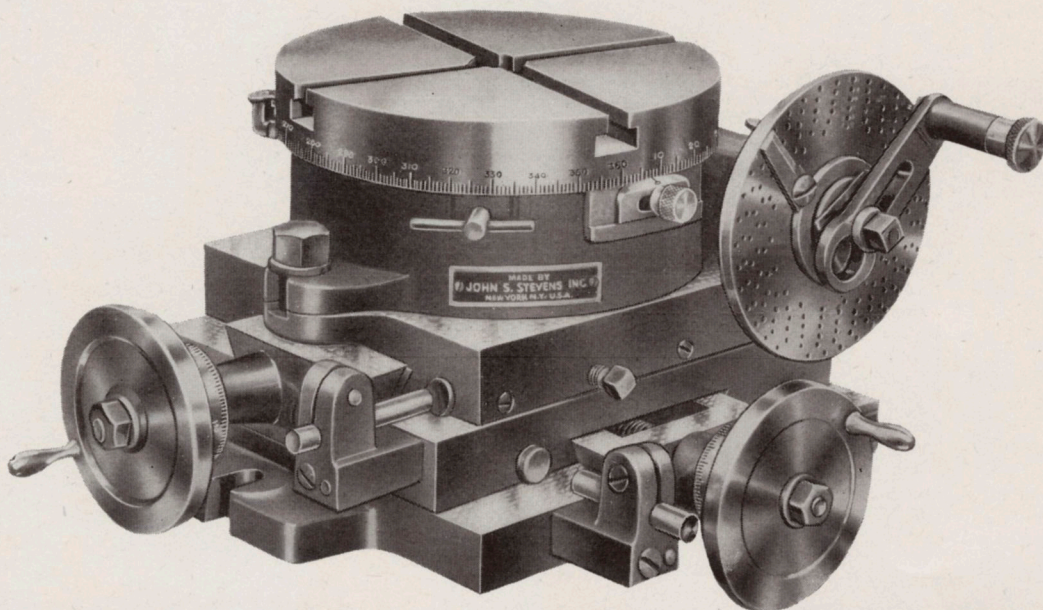
STANDARD TYPE ROTARY TABLES

REVERSE SIDE

THE WALLACE MACHINE TOOL CO.,
50 CHURCH STREET
NEW YORK 7, N. Y.

STEVENS

No. 1 COMPOUND TABLE



To meet the call for a fixture to provide LONGITUDINAL and TRANSVERSE MOVEMENTS in connection with the circular movement of our small or 7 $\frac{1}{2}$ inch ROTARY TABLE, we have designed and now offer our No. 1 COMPOUND TABLE as illustrated above.

While illustration shows a rotary table mounted, the compound table is AVAILABLE AS A SEPARATE ITEM for its many uses without the circular table.

A $\frac{5}{8}$ inch tongueway is placed in surface of top slide, and it is possible for user to drill and tap holes in top slide surface for strapping down work pieces.

Both longitudinal and transverse screws are provided with ADJUSTABLE MICROMETER COLLARS, and both slides are provided with BUTTONS for using size blocks.

DIMENSIONS

(without Rotary Table)

Height	3 $\frac{3}{8}$ in.
Longitudinal movement	3 $\frac{3}{4}$ in.
Transverse movement	3 $\frac{3}{4}$ in.
Area top slide	7 x 7 in.
Width of base, left to right	12 $\frac{7}{8}$ in.
Depth of Base, front to back	9 $\frac{1}{4}$ in.
Net weight	57 lbs.
Boxed weight	75 lbs.
Code word	Abner

*We also make a larger or No. 2 Compound Table described in separate circular
Details of Rotary Tables in separate circular.*

Manufactured by

JOHN B. STEVENS INC.

SINCE 1925

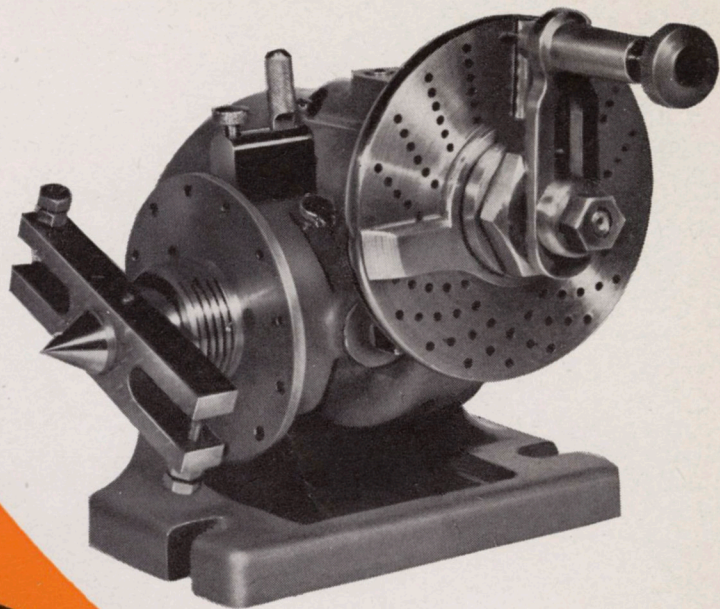
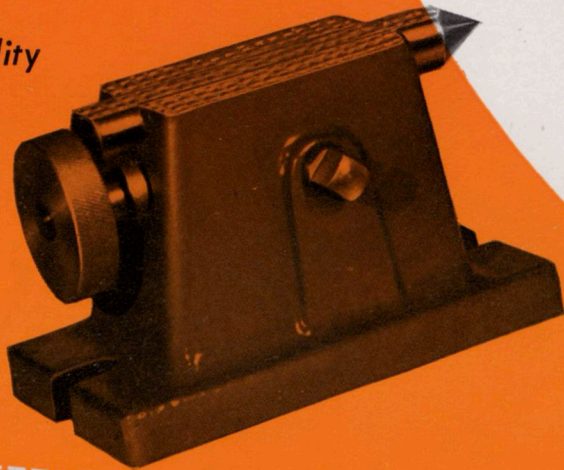
480 CANAL STREET, NEW YORK 13, N. Y., U.S.A. :: CABLE ADDRESS: STEVINCK NEW YORK

THE WALLACE MACHINE TOOL CO.,
50 CHURCH STREET
NEW YORK 7, N. Y.

THE ELLIS

DOUBLE SWIVEL DIVIDING HEAD

THE "4-IN-1" TOOL
offering
Unrivalled Versatility

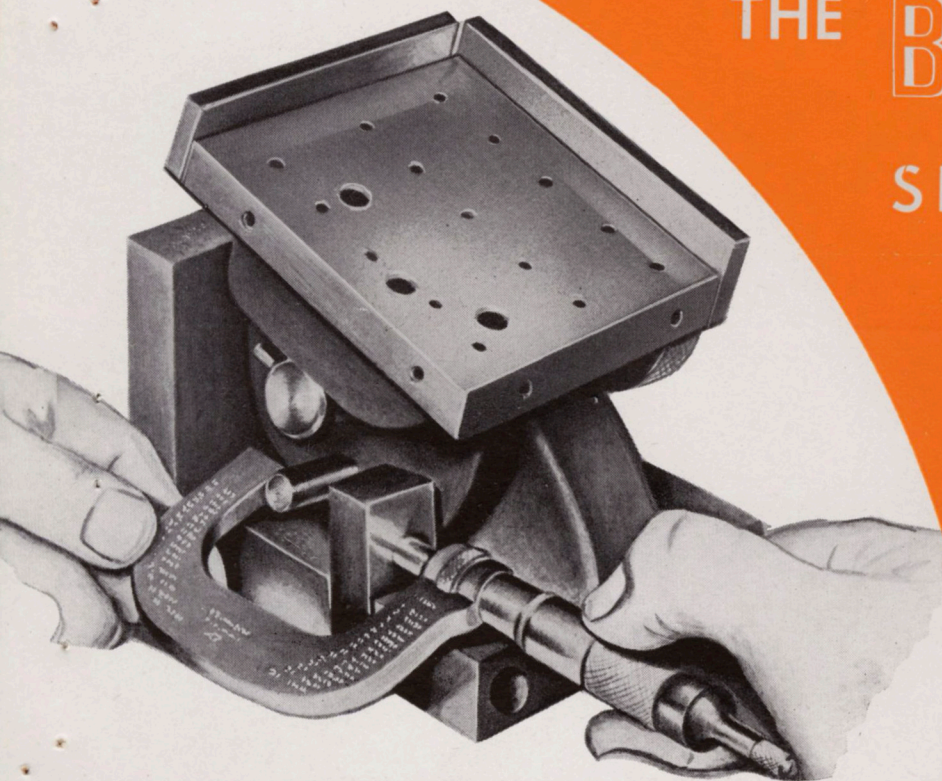


THE BEMISINE SINE ANGLE PLATE

ANGLES

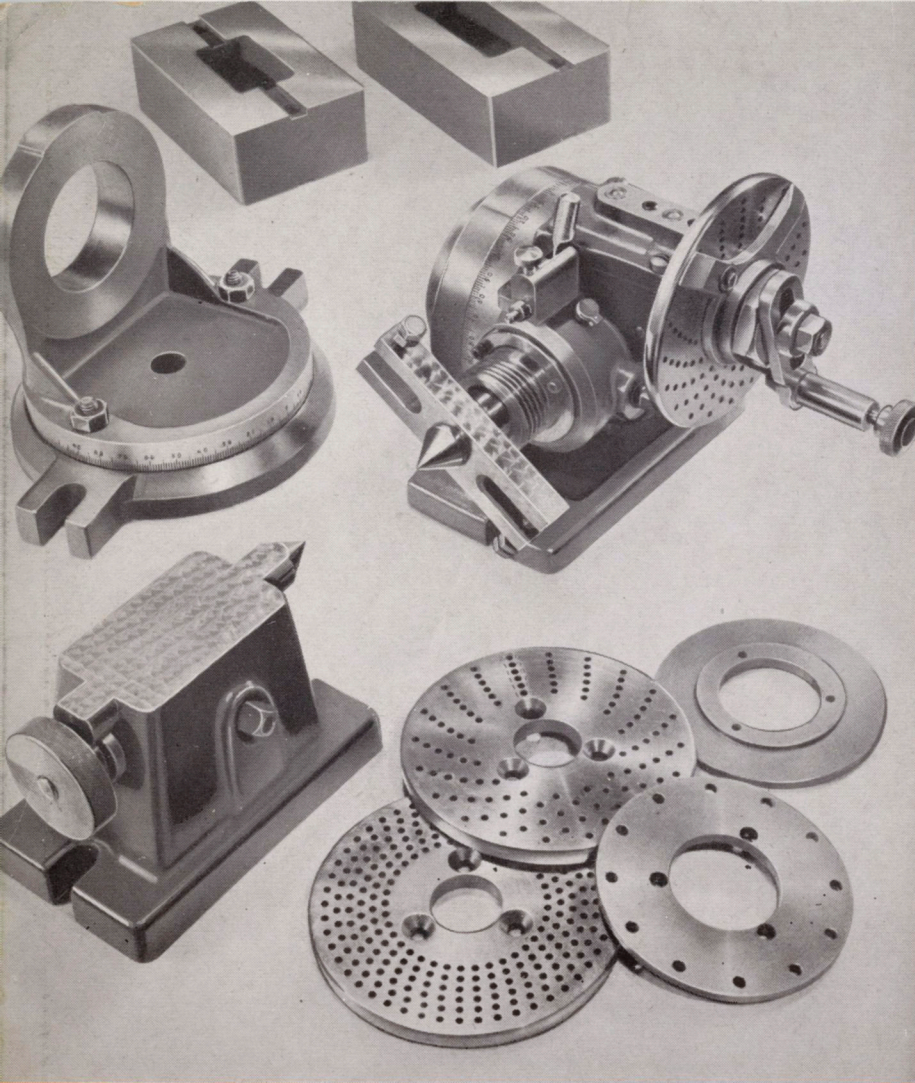
TO A MINUTE...

IN A MINUTE!



THE WALLACE MACHINE TOOL COMPANY
50 Church Street
New York 7, N. Y.
Telephone: COrtlandt 7-1538

For the Toolroom



ELLIS Double Swivel Dividing Head with Standard Equipment

The ELLIS Dividing Head is supplied complete with all equipment pictured above. Also available: Draw-in Collet Attachment and Three-jaw Universal Chuck. Write for complete details.

THE ELLIS DOUBLE SWIVEL DIVIDING HEAD

A conventional 40:1 ratio crank indexing Head for all plain dividing applications — **PLUS THESE EXTRA FEATURES:**

AUXILIARY SWIVEL BASE — for setting compound angles.

QUICK INDEXING — Simple conversion for repetitive or production indexing.

6½" to 11" SWING — by means of Riser Blocks, furnished as standard equipment.

NO SPINDLE BACKLASH — through instantly adjustable worm and gear.

THE BEMISINE QUICK ANGLE COMPUTER

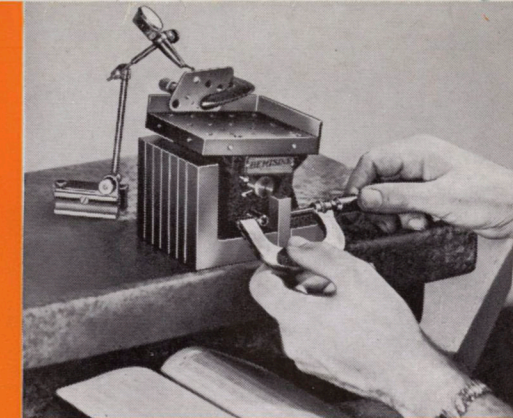
A new and amazingly simple device for setting or measuring angles from 0 to 90° — requiring only standard 2" Micrometers.

GUARANTEED ACCURACY — within ONE MINUTE (1') of arc.

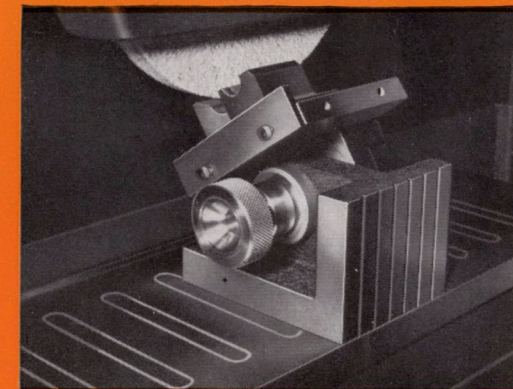
SPEEDY SET-UP — requires less than a minute's time.

EASY TO USE — no time lost in mathematical calculation.

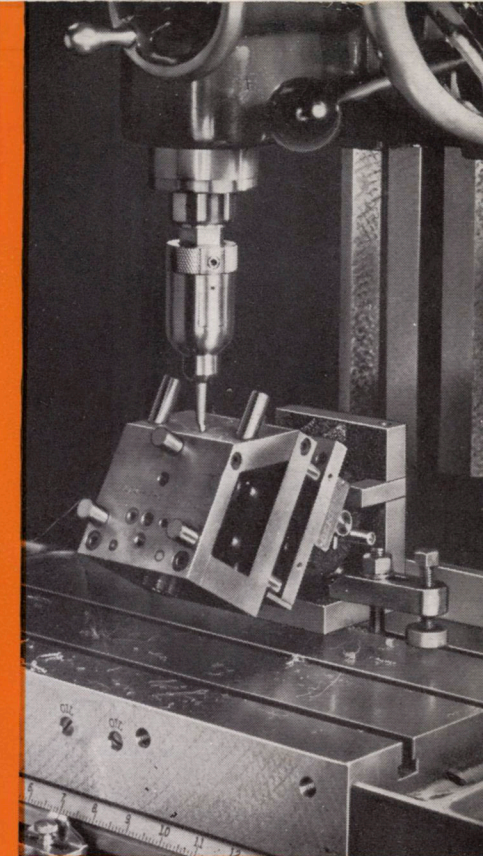
HOLDS THE WORK — for grinding, boring, milling, drilling.



Inspection in "Jig-Time"



Less than a Minute for Angular Set-Ups



On the Jig Borer

The BEMISINE — a great time-saver on small, fussy angular set-ups — converts Set-up Time to Production Time. It is a valuable accessory for the Surface Grinder and Jig Borer and a versatile addition to inspection equipment. Working on the sine principle of angular determination, direct sine readings are taken over two members, one of which moves as the table changes angular position. Then, reference to the standard table of sine equivalents quickly reveals the angle. Further details on request.

THE BEMISINE ANGLE WHEEL DRESSER

Generates high precision angles on Surface Grinder wheels.

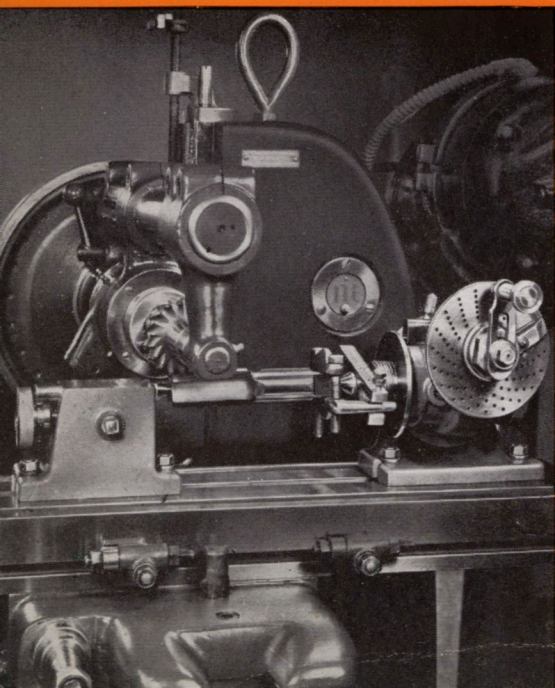
SIMPLE

QUICK

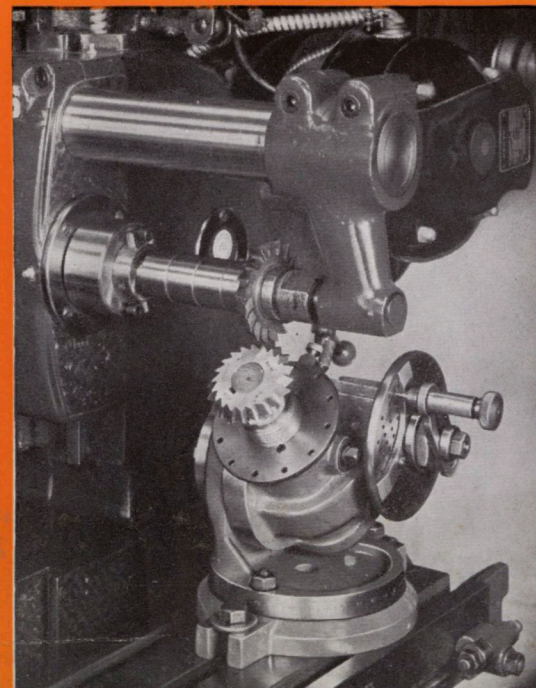
DEPENDABLE

INEXPENSIVE

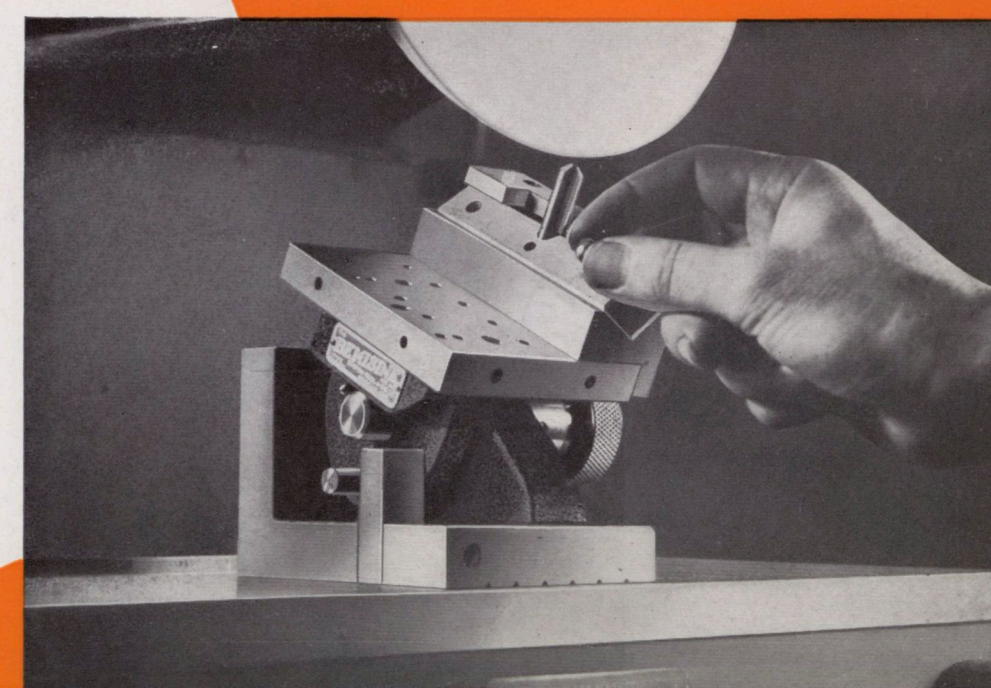
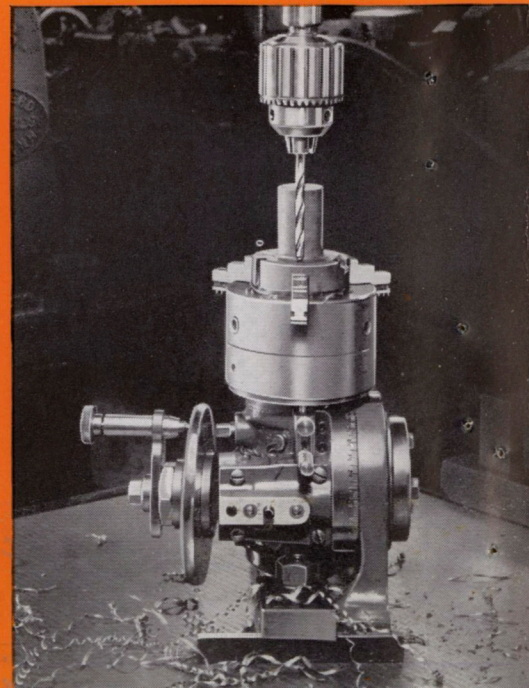
Conventional Set-Up



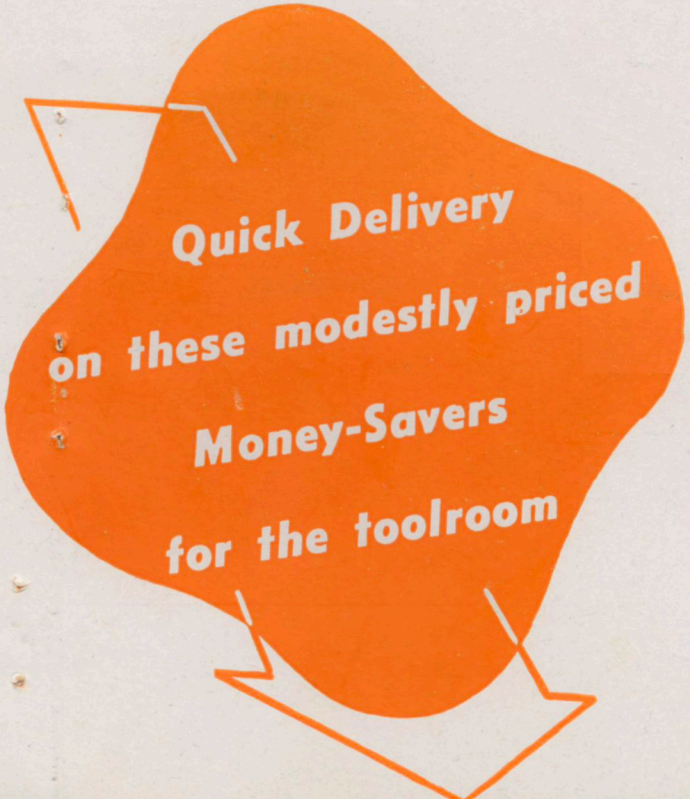
Double Swivel Set-Up



Rotary Table Set-Up

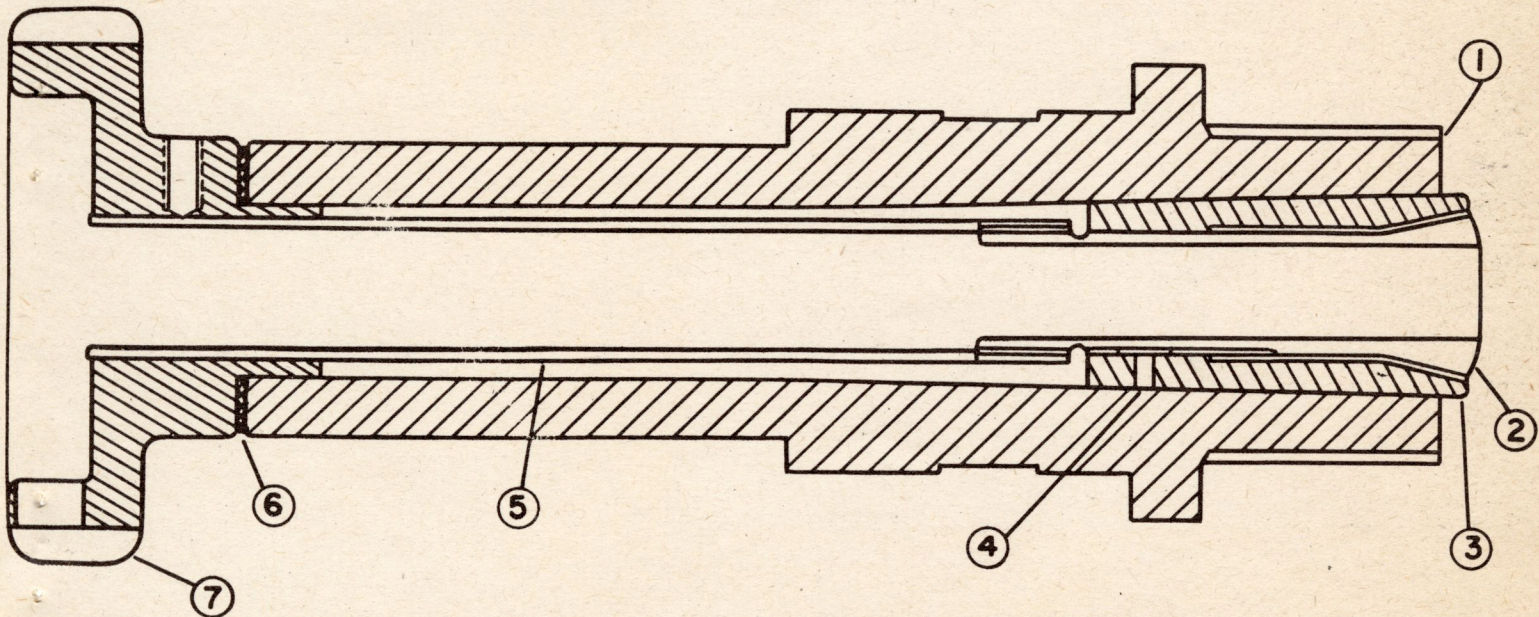


Sec. 562, P. L. & R.



Quick Delivery
on these modestly priced
Money-Savers
for the toolroom

HANDWHEEL COLLET ATTACHMENT FOR ELLIS DIVIDING HEAD

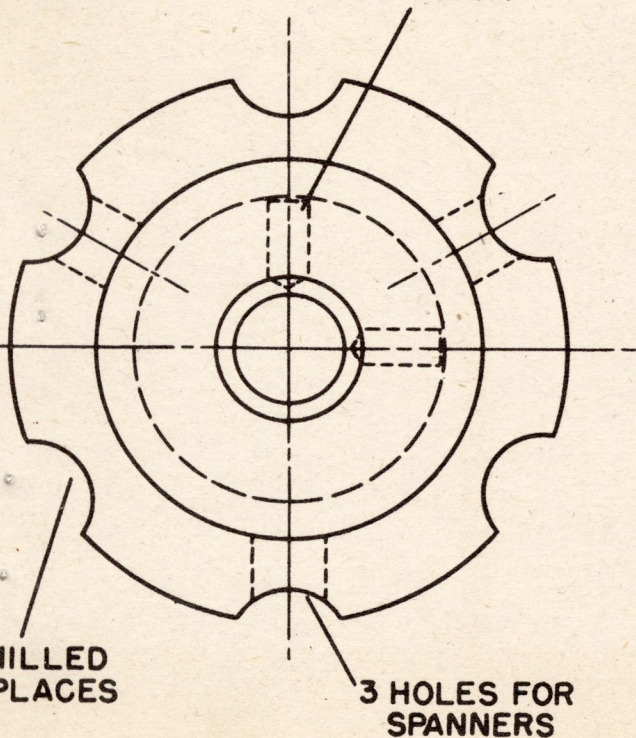


Draw-In Collet Attachment with one
set 3C collets from 1/8" thru 1/2"
by 16ths for ELLIS Dividing Head

PRICE: \$51.00

SET SCREWS
90° APART

NO	PART NAME
1	SPINDLE-ELLIS DIVIDING HEAD
2	COLLET (3C OR 1A)
3	ADAPTOR
4	KEY
5	DRAWTUBE
6	THRUST WASHER (FIBRE)
7	HANDWHEEL



The Wallace Machine Tool Co.
50 Church Street
New York 7, New York

Amberg File & Index Co.
BINDER COVERS
KANKAKEE, ILL.

10408