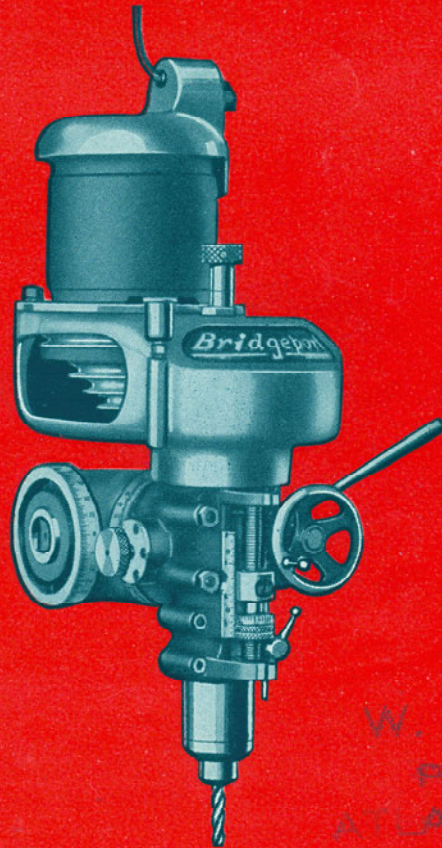


Bridgeport



W. P. CHILDS
P. O. BOX 780
ATLANTA, GEORGIA

HIGH SPEED

MILLING ATTACHMENTS

A COMPLETE LINE

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

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.

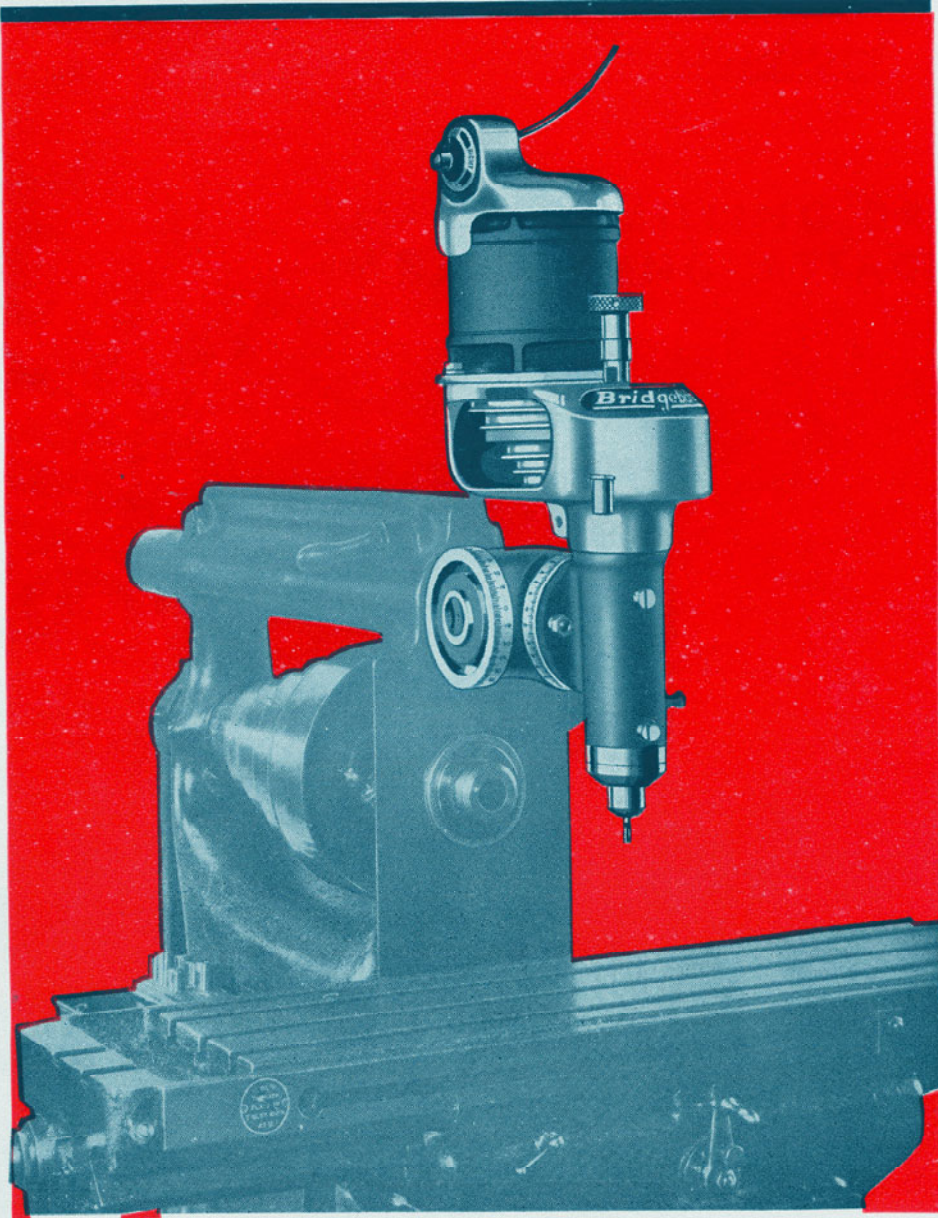
BASIC FEATURES

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.

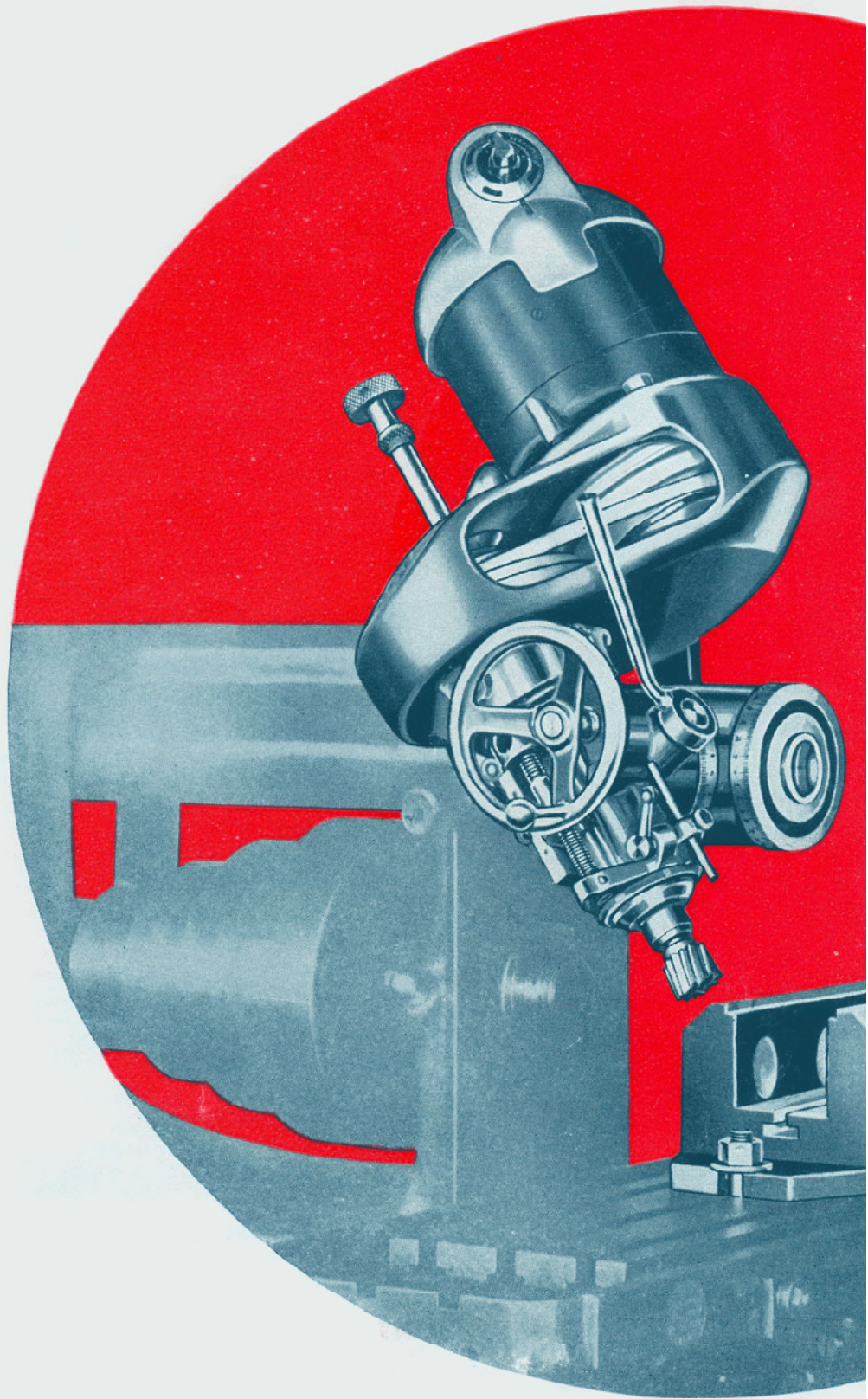
HIGH
Bridgeport
SPEED

1/4 H. P. MILLING ATTACHMENT



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. Collets 3" long are furnished allowing the use of double end mills.



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.



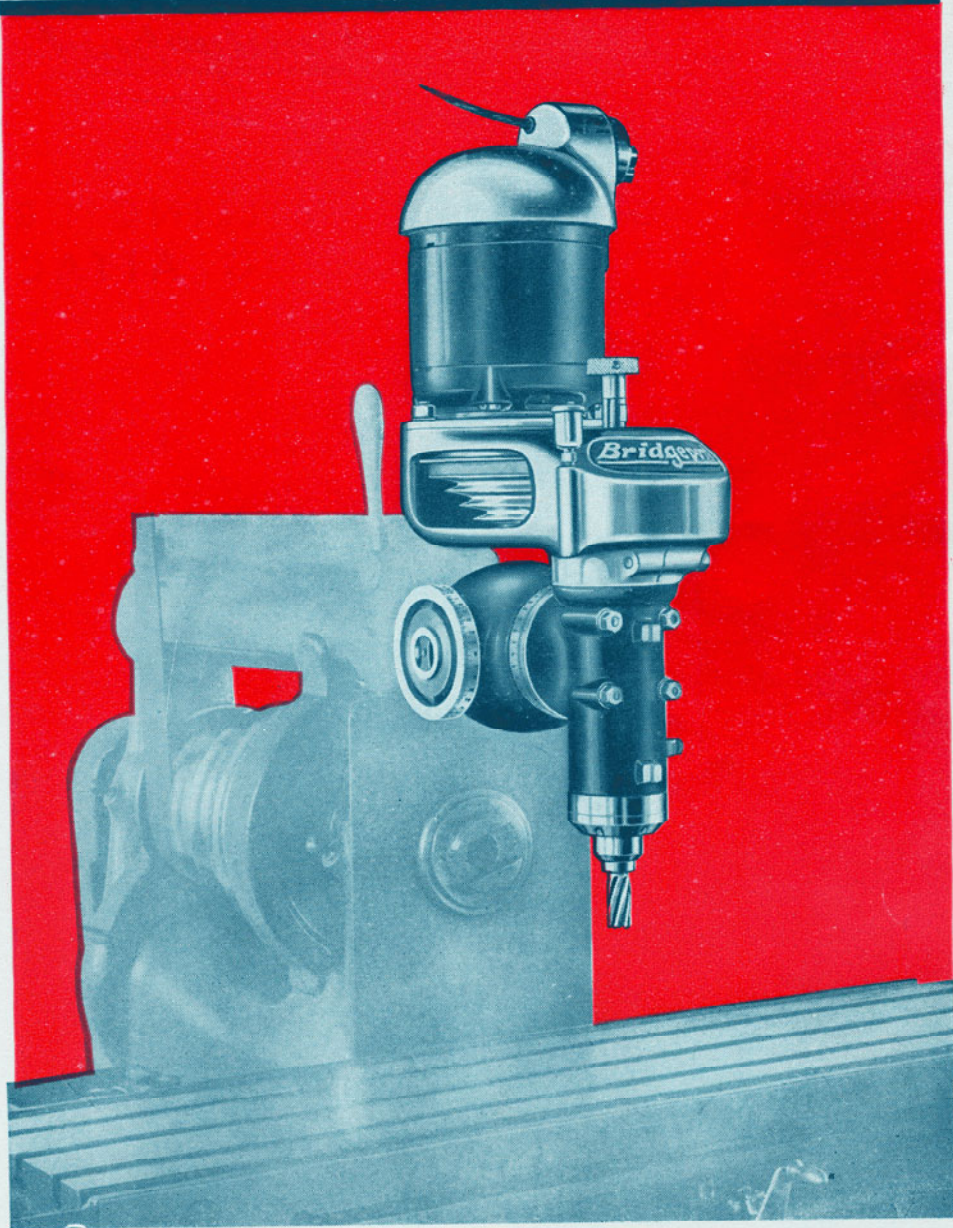
HIGH
Bridgeport
SPEED

“MASTER” MILLING DRILLING
AND BORING ATTACHMENT

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 thousandths. 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 $\frac{1}{5}$ 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
Bridgport
SPEED

1/2 H. P. MILLING ATTACHMENT

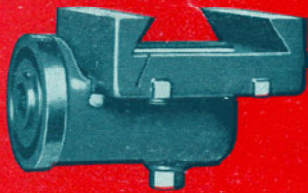


THE 1/2 H.P. ATTACHMENT HAS THE SAME FEATURES AS THE 1/4 H.P. MACHINE EXCEPT THAT IT IS BUILT PROPORTIONATELY HEAVIER

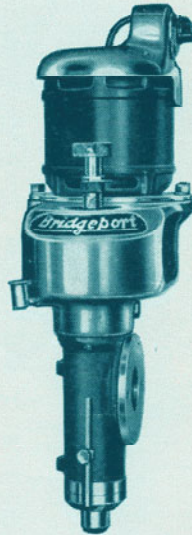
SPECIFICATIONS. Spindle heat treated and ground, machined to take collets up to 3/4" diameter. Collets are furnished sizes 1/8" to 3/4" for straight shank end mills and adapters for No. 7 B. & S. or No. 2 Morse Tapers for taper shank cutters. Spindle speeds are 275-425-700-1050-2100-4250. Large spindle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

A D A P T E R S

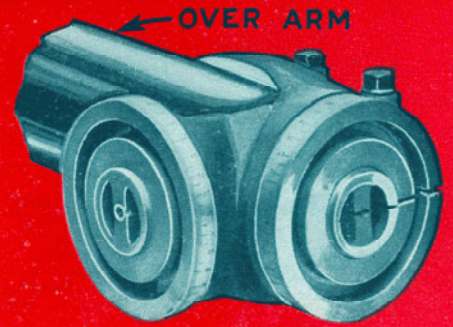
WE can supply adapters for mounting Bridgeport Attachments on any type of machine. Illustrated below are the types most commonly used.



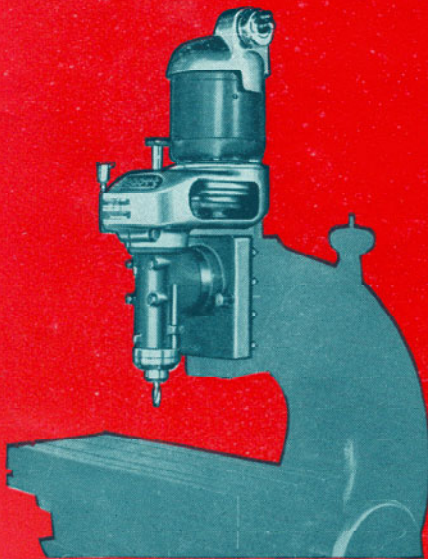
V Type Overarm Adapter



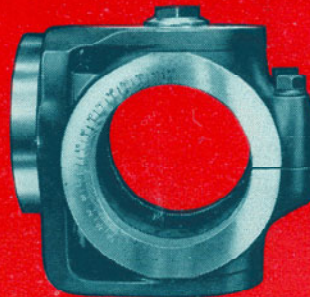
This picture illustrates the 1/4 H.P. Unit without the Adapter. One of the advantages of our design is the ability to mount our Attachments on small milling machines and on special production machines where the room is limited.



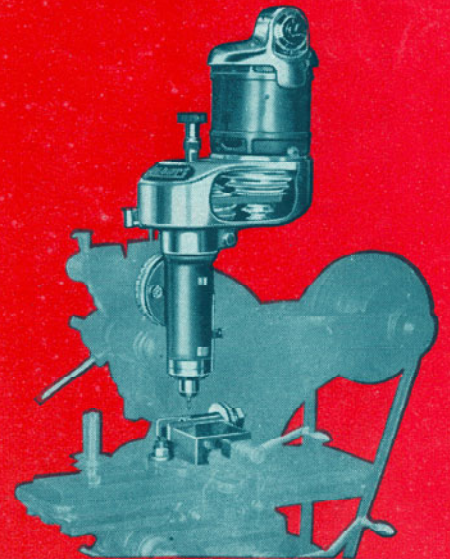
Above illustration shows crosscut section of STANDARD DUAL ADAPTER mounted on round overarm



Becker Vertical Miller Installation



Universal Adapter for round overarms
Furnished at extra cost



Hand Miller Installation

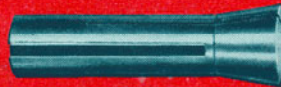
COLLETS • ADAPTER SLEEVES



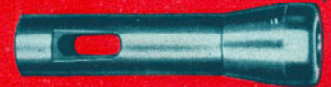
No. 2 MORSE or No. 7 B. & S.
COLLET for Master Attachment



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



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



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

HIGH *Bridgeport* *SPEED*

MILLING ATTACHMENTS

SPEEDS RECOMMENDED FOR HIGH SPEED END MILLS

Dia. of End Mill	Annealed Tool Steel Peripheral Speed 70	Soft Steel Peripheral Speed 80	Cast Iron Peripheral Speed 90
	Ft. P. M.	Ft. P. M.	Ft. 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 typewriter 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

W. P. CHILDS
P. O. BOX 700
ATLANTA, GEORGIA