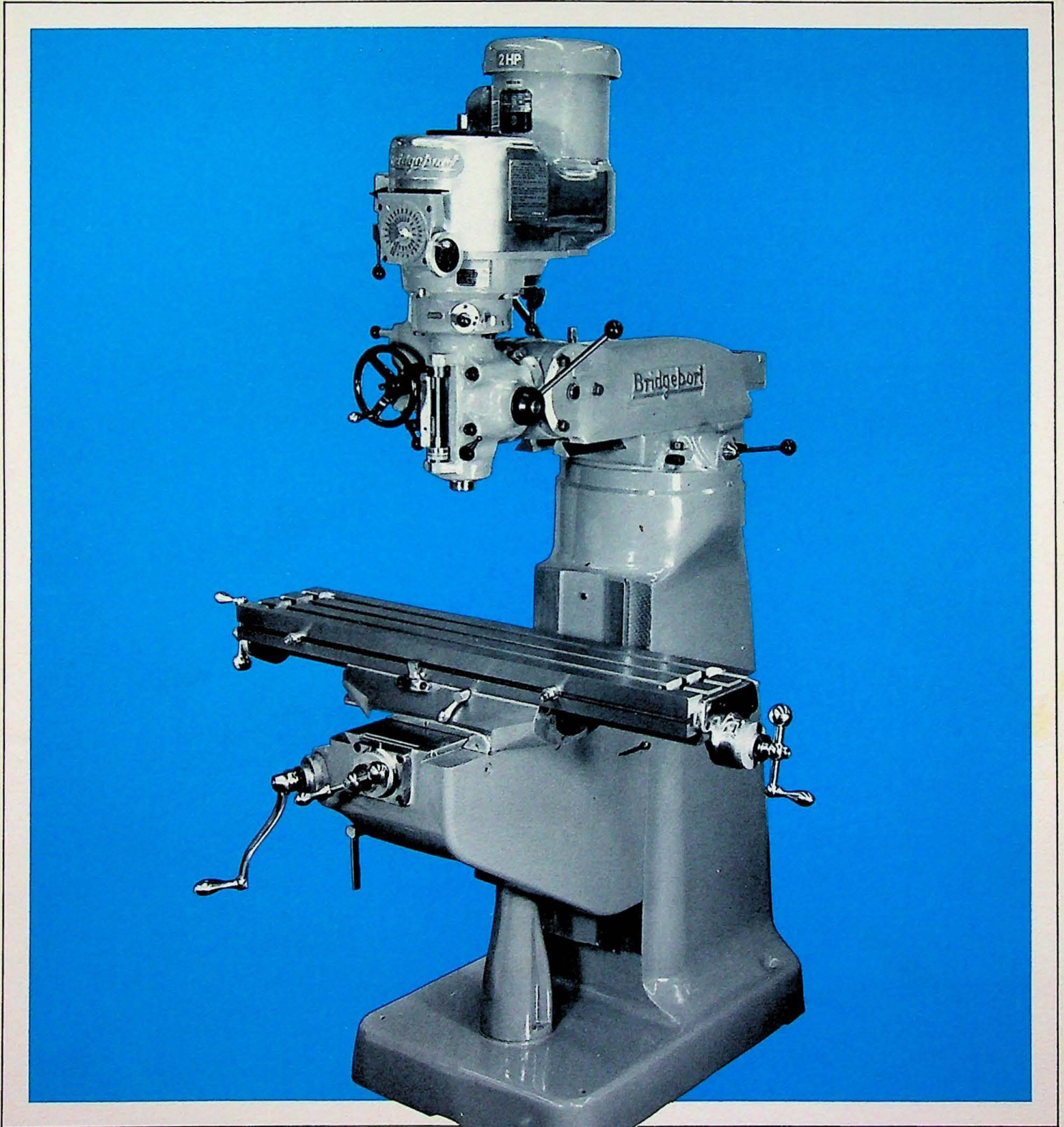


Better buy ***Bridgeport***<sup>®</sup>

Series I Standard Vertical Milling Machine



# Bridgeport Series I

## Vertical Turret Milling Machine — Series I

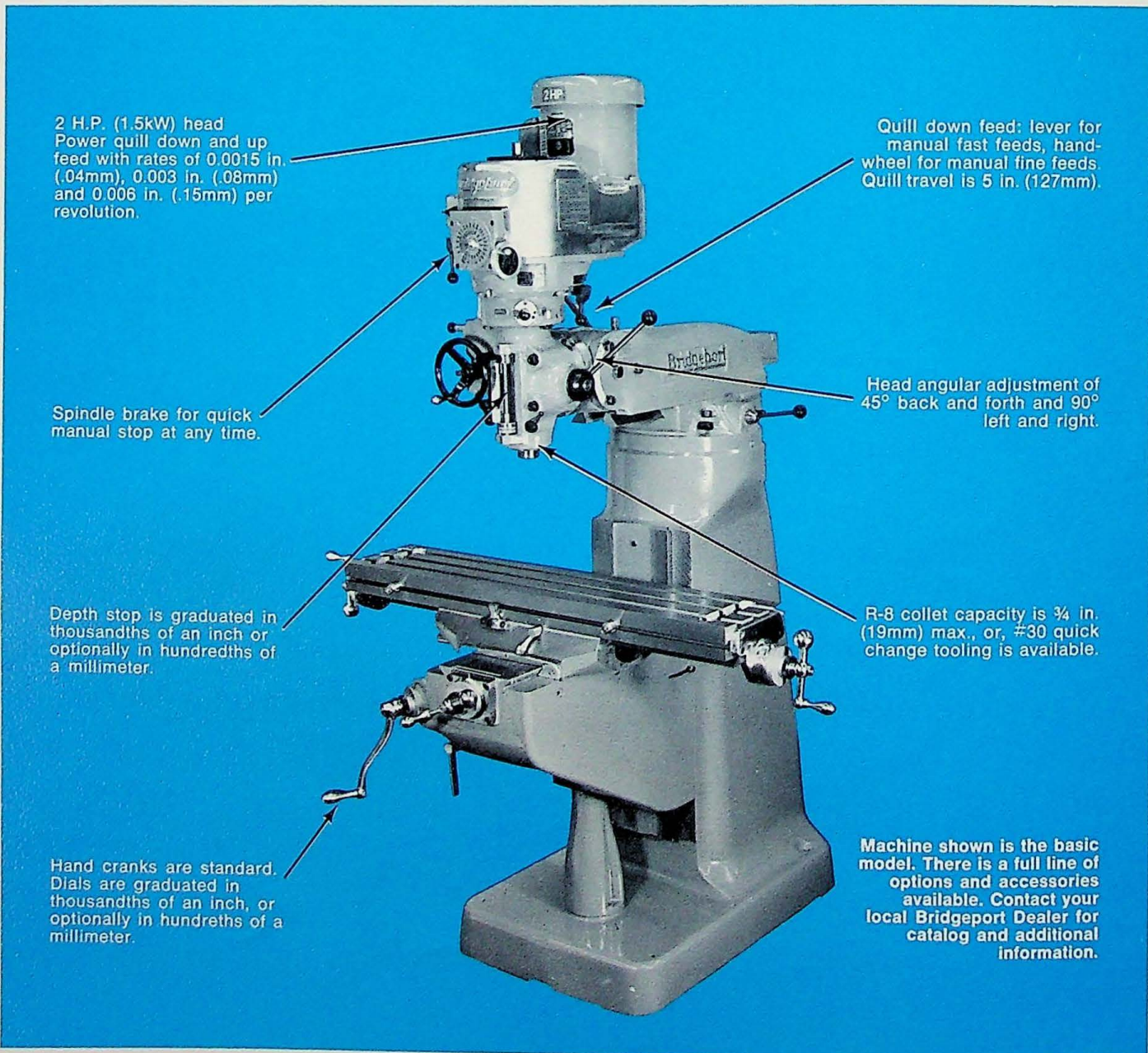
For more than 38 years the Bridgeport Series I has been the basic machine tool — a standard — in industrial machine shops throughout the United States and the world. It has been equally adept at being a toolroom and industry production workhorse, as well as a basic instrument for teaching the starting machinist.

The Series I is of exceptionally sturdy construction for long life and accurate machining. It can take hard knocks, errors in operation, and still maintain its accuracy and production ability. Maintenance is at a minimum.

### Features

- Precision dovetail ways throughout for long life and maximum machine accuracy. Chrome plating on areas of greatest wear available as an option.

- Column and base are integral, cast with carefully engineered ribs and webs which ensure rigidity. The Bridgeport miller will outperform many machines which actually weigh more, because of careful attention to design and manufacturing techniques.
- Patented flow-through air cooling on 2J head stabilizes head operating temperatures at about 20°F (11°C) above ambient.
- Infinitely variable speeds on 2J head: just turn handwheel, read speed on dial to get the speed that's best for cutter life and production machining efficiency. 60-500 and 500-4200 rpm ranges.
- Spindle features Class 7 bearings.



2 H.P. (1.5kW) head  
Power quill down and up  
feed with rates of 0.0015 in.  
(.04mm), 0.003 in. (.08mm)  
and 0.006 in. (.15mm) per  
revolution.

Spindle brake for quick  
manual stop at any time.

Depth stop is graduated in  
thousandths of an inch or  
optionally in hundredths of  
a millimeter.

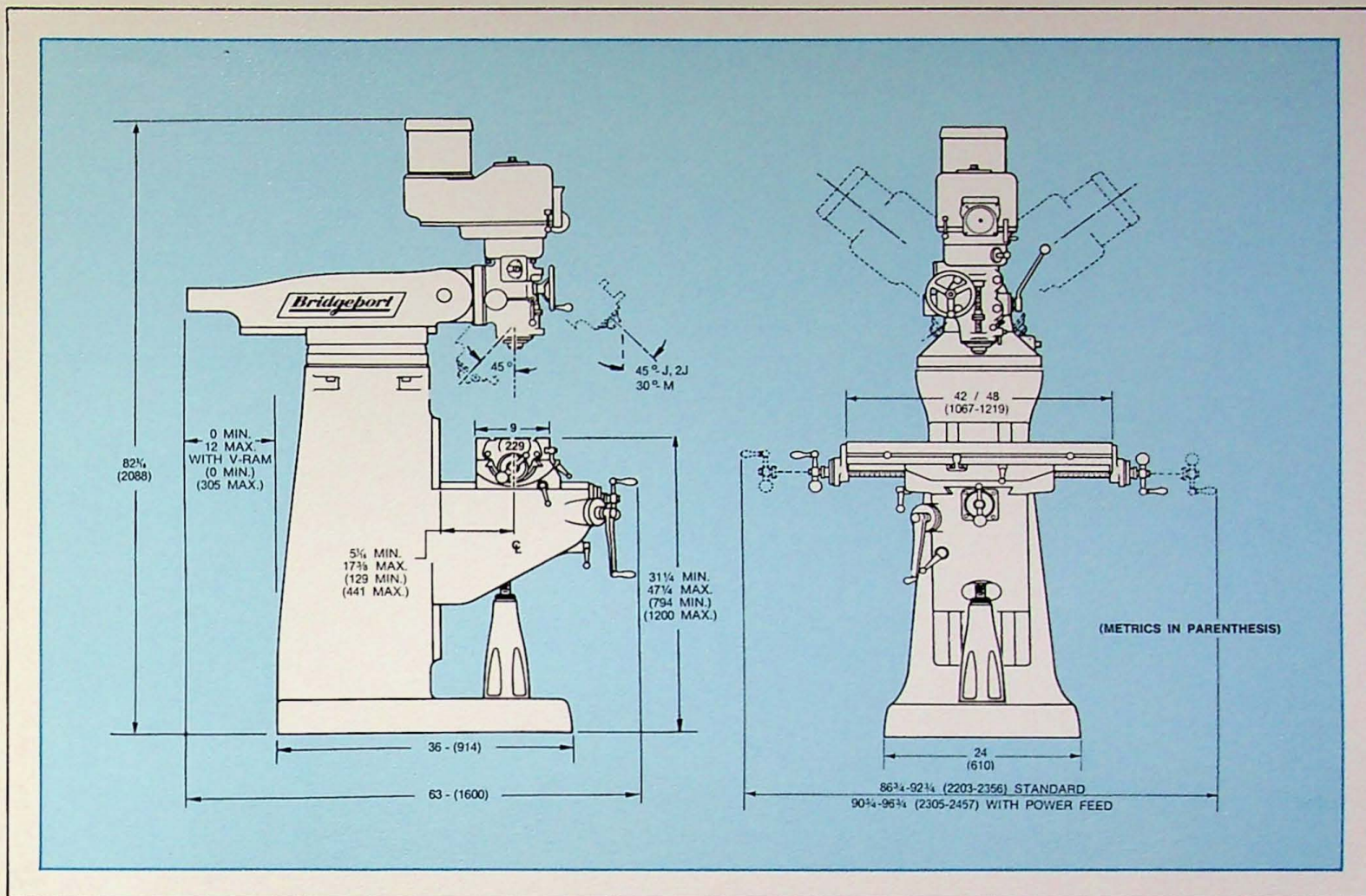
Hand cranks are standard.  
Dials are graduated in  
thousandths of an inch, or  
optionally in hundredths of a  
millimeter.

Quill down feed: lever for  
manual fast feeds, hand-  
wheel for manual fine feeds.  
Quill travel is 5 in. (127mm).

Head angular adjustment of  
45° back and forth and 90°  
left and right.

R-8 collet capacity is ¾ in.  
(19mm) max., or, #30 quick  
change tooling is available.

Machine shown is the basic  
model. There is a full line of  
options and accessories  
available. Contact your  
local Bridgeport Dealer for  
catalog and additional  
information.



## SPECIFICATIONS

All dimensions in inches (metrics in parentheses)

### Range

Table travel (X-axis)	30 in. (762mm) or
With 48" Table,	36 in. (914mm)
Saddle travel (Y-axis)	12 in. (305mm)
Quill travel	5 in. (127mm)
Knee travel (Z-axis)	16 in. (406mm)
Ram travel	12 in. (305mm)
Throat distance (min.)	6 3/4 in. (171mm)
(max.)	18 3/4 in. (476mm)
Table to spindle nose	
gage line (min.) R8 Taper	2 1/2 in. (64mm)
Max. weight of workpiece	750 lbs. (341kg)

### Table

Overall sizes	9 x 42 in. (229 x 1067mm)
	9 x 48 in. (229 x 1219mm)
T-Slots	3 on 2 1/2 in. (64mm) centers
T-Slot size	5/8 in. (16mm)
Height above floor (max.)	47 1/4 in. (1200mm)

### Spindle (in 2J Head)

Power rating	2 hp (1.5kW)
Taper*	R-8 taper
Speed range	
low — infinitely variable	60-500 rpm
high — infinitely variable	500-4200 rpm

## SPECIFICATIONS

All dimensions in inches (metrics in parentheses)

Controlled downfeed range —	.0015 in. (0.038mm),
manual adjust	.003 in. (0.076mm),
	.006 in. (0.152mm)/rev.
Drilling capacity	
mild steel (manual)	3/4 in. (19mm)
mild steel (power)	5/8 in. (10mm)
Milling capacity — mild steel	2 cu. in./min. (32cc/min.)
Boring range — mild steel	To 6 in. (152mm) dia.
Spindle diameter	1 7/8 in. (48mm)
Quill diameter	3 3/8 in. (86mm)

### Milling

Feedrate**	(X-axis) 3/4-35 ipm (19-889mm/min.) standard
	.3-15 ipm (8-381mm/min.) high torque power feed.

### Space and weight

Floor area	7 x 10 ft. (2.1 x 3.1m)
Height	82 1/2 in. (2088mm)
Net weight	1950 lbs. (885mm)
Shipping weight	2180 lbs. (989kg)

### Power

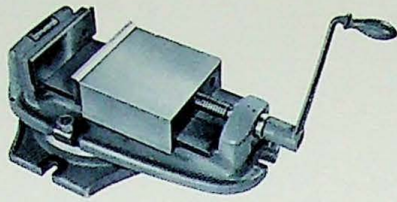
Electrical supply —	
60 Hz, 3 phase	208/230/460/575V

### Color

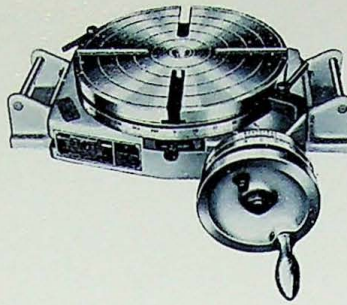
Standard — Bridgeport Gray

\*No. 30 Bridgeport Quick Change Spindle is optional. \*\*Power optional. (Power feed reduces longitudinal travel by 3.5")

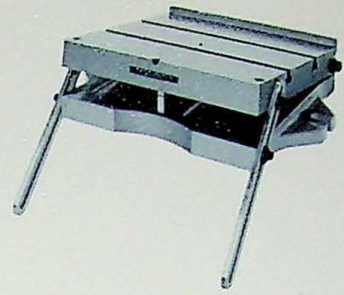
NOTE: Machine also available with 1 H.P. J Head with 8 speed changes. Specifications subject to change without prior notice.



Two 6" (152mm) swivel and plain vises for routine workholding, and a 5" (127mm) multi-purpose vise are offered. The swivel vise can be rotated a full 360°, and is graduated in minutes.



12" (305mm) and 15" (381mm) models, both only 4 1/4" (108mm) high for maximum daylight, are available. These tables permit precise rotation of the workpiece to within 30 seconds of arc.



Combination sine tables — which allow setting up compound angles — and plain sine tables are available in 5 and 10" sizes (127 and 254mm). These tables are flat and square within .001".

# A WORLD STANDARD

## THE *Bridgeport*<sup>®</sup> SERIES I MILL

Distributed by:

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***Bridgeport*<sup>®</sup> TEXTRON**

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