

The **Bridgeport Series 1** is the **original** milling, drilling, and boring machine that revolutionized an industry. With more than 400,000 machines built and sold worldwide, Bridgeport Machine Tools continues to be the industry leader for milling machines.

PATENTED 2J HEAD

The unique and patented 2J headstock is engineered with a super-efficient air-flow system to keep the headstock, bearings, belts, and pulleys cool and running at optimal temperatures. This maintains accuracy and extends the life of the bearings, belts, and all headstock components for minimal maintenance and downtime.

HAND-SCRAPED WAYS

Through a precise hand-scraping process, each surface of our knee mills is meticulously fitted and aligned, guaranteeing accuracy and longevity. This craftsmanship enhances wear resistance and allows for smooth, friction-free movement, ensuring performance and durability.





BUILT THE BRIDGEPORT WAY

The long-term reliability of the Series I Knee Mill is the result of rigorous engineering, quality components, and the craftsmanship that goes into the fit and finish of every machine. All Bridgeport Series I knee mill are fully inspected and tested to ensure superior operation and performance.



SPECIFICATIONS



	SERIES 1	SERIES 1 CNC
X-Axis Table Travel		
Without Power Feed	36" (914mm)	N/A
With Power Feed	33" (838mm)	33" (838mm)
Y-Axis Travel		
Without Power Feed	12" (306mm)	
With Power Feed	12" (306mm)	
Quill Travel Knee Travel	5" (127mm) 4.03" (102mm) 16" (406mm)	
Ram Travel	12" (306mm)	
Throat Distance		
Min.	6.75" (171mm)	
Max.	18.25" (463mm)	
Table to Spindle Nose		
Min.	2.5" (64mm)	
Max.	18.25" (463mm)	
TABLE		
Overall Size	9" x 49" (299 x 1245mm)	
Working Surface Number of T-Slots		
T-Slot Centers	3 2.5" (64mm)	
T-Slot Size	0.0625" (16mm)	
Height Above Floor Max.	47.25" (1200mm)	
Weight of Workpiece Max.	750 lbs. (340kgs)	
SPINDLE CONSTRUCTION		
Spindle Diameter	1.875" (48mm)	
Quill Diameter	3.375" (86mm)
SPINDLE MOTOR HP		
30 Min. Duty Rated	3 Hp	
Continuous	2 Нр	
SPINDLE TAPER		0
Standard Optional	R-8 NMTB30	
SPINDLE SPEED RANGE		
Low Range	60 - 500 RPM	
High Range	500 - 4200 RPM	
QUILL FEED RANGE (3)	and 2 Axis CNC	3 Axis CNC
Range #1	0.0015"/rev	Program Range
Range #2	0.003"/rev	0 - 100 IPM
Range #3	0.006"/rev	-
MACHINING CAPABILITIES		
Power Quill Feed Drilling (mild steel)	3/8" (9.5mm)	
Milling (mild steel)	2 Cl/min.	
Boring Range (mild steel)	6" Dia. (152mm)	
	N1/A	0.100.0014
Feedrate Range Min. Increment	N/A	0 - 100 IPM
SPACE AND WEIGHT	N/A	0.0001"
Floor Area	84" x 120" (2140 x 3048mm)	
Height	87" (2210mm)	
Net Weight	1930 lbs. (875kgs)	
Shipping Weight	2075 lbs. (941kgs)	
MACHINING CAPACITIES		208/230/460
Input Power	208/230/460 3 phase 50/60 cycle	3 phase 50/60 cycle 110/1/60 for control
Power Capacity	4 KVA	4 KVA/15 Amp CTRL

Standard Features

- One-Shot Lubrication System
- Chrome-Plated Ways and Gibs
- Color—Machine Tool Gray

Optional Features

- 2 or 3-Axis Digital Readout
- Pneumatic Power Drawbar
- Worklight
- Electrics—NFPA/NEMA-12 Standards, NTRL listed

CNC ENHANCMENT OPTION

ACU-RITE® MILLPWR^{G2}



2 or 3 Axis CNC Control

Bridgeport CNC Knee Mills:

Our CNC knee mills feature the ACU-RITE® MillPWR^{G2} control with shop floor programming that allows the operator to generate part programs quickly and efficiently through the use of easy-to-understand conversational style prompts. The ACU-RITE® control package comes with an all-digital control and drives, offering exceptional value and reliability.

The ACU-RITE® MillPWR^{G2} is one of the most user-friendly controls in the industry today and incorporates many standard features to increase your productivity...

- \cdot 2 or 3 axes control/4 axes readout optional
- Conversational menu-prompted
 programming
- Position-Trac™: Quickly find workpiece and zero after power loss
 3-D tactile-feel with color keypad
 ACU-RITE® precision glass scales for better accuracy, repeatability, high-resolution, closed loop feedback and proven reliability
 Jog control: One axis or two axes
- simultaneously
- Remote stop/go switch with handheld switch

- Engrave: Alphanumeric
- references into part
- Tool offset compensation
- Tool library
- · Hard key milling functions: Select

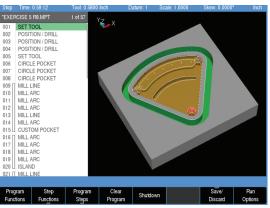
routine functions (lines, arcs,

- rectangles, circles, etc.)
- Bolthole calculations:
 - Full and partial circles
 - Linear row/column
 - Rectangle frame
 - Rectangle array
- Mirror/Repeat/Rotate
- Custom pocket
- · Skew: Save time aligning parts

- DXF file input
- Travel limits: Within software
- Teach position
- Edit capabilities
- Reference tables
- Bend
- Explode
- Feed rate override
- Math functions:
 - Standard
 - Trigometery
 - Geometry
 - RPM

Hardware Features of the ACU-RITE® MillPWR^{G2}

- Precision ground and hardened ball screws
- Powerful Servo motors assemblies
- \cdot Closed loop feedback using ACU-RITE® precision glass scales with (1 μ m/0.00004 resolution)
- \cdot 10" flat panel, color, LCD display
- \cdot Large interal part program storage capacity
- \cdot RS-232 port for downloading from an offline source
- Remote Stop/Go switch
- USB and Ethernet
- Maximum table feed rate of 100 IPM





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