

***Bridgeport***<sup>®</sup>



Smith Machinery

Attn:

09/03/2025

# **BPS1 Series**

w/Mechanical Variable Speed Sheave  
Pulley Drive

## **Vertical Milling Machine**

[Quotation 250822-60-DMC](#)

3963 Emerald Drive, Kalamazoo, MI 49001 Phone: 269-345-7155 Fax: 269-345-5945

**Clausing BPS1 Mill Specifications**

<b>Table &amp; Ways</b>	Table Size	9" x 49"
	Table Height Above Floor (max)	47.25"
	Table Load	750lbs.
	No. of T-slots	3
	T-slot Width	5/8"
	T-slot Center Distance	2.5"
	Table Ways	Dovetail
	Knee Ways	Dovetail
	Column Ways	Dovetail
<b>Travels</b>	X Longitudinal Table (w/o pwr feed)	36"
	X Longitudinal Table (w/pwr feed)	33"
	Y Cross	12"
	Knee	16"
	Ram	12"
	Throat Distance (min)	6.75"
	Throat Distance (max)	18.75"
	Table to Nose Gauge Line (min/max)	2.5" / 18.25"
<b>Motors &amp; Spindle</b>	Spindle Motor (duty cycle/continuous)	3 Hp / 2Hp
	Amp. Draw 208v.	7
	Amp. Draw 230v.	7
	Amp. Draw 460v.	5
	Speed Range High Range	500-4200 RPM
	Speed Range Low Range	60-500 RPM
	Main Spindle Taper	R8
	Spindle Travel	5"
	Quill Feed (in/rev.)	.0015/.003/.006
Quill Diameter	3.375"	
<b>Capacities</b>	Power Quill Feed	3/8"
	Milling Capacity (mild steel)	2 CI/in
	Boring Range (mild steel)	6" dia
	Spindle Diameter	1.875"
	Feed Rate Range (X,Y)	0.50-35 ipm
	Minimum Increment	0.001"
<b>Construction &amp; Weight</b>	Floor Area	7 x 10 ft
	Height	87"
	Net Weight	1930 lbs
	Shipping Weight	2075 lbs
	Input Power	208/230/460 Volt
		3 Phase, 50/60 hz 4KVA

**Standard Equipment**

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- Mechanical Variable Speed Drive System
- Patented 2J Head gives unique air cooling for spindle bearings
- Hardened & Scraped, X, Y & Z Ways
- Scraped gibs for alignment
- T-slots are ground to provide reference edge for positioning your workplace
- Hardened & Scraped Table Surface
- Hardened & Ground Spindle
- Chrome-Plated Ways and Gibs
- Chromed & Ground Quill
- Chromed X, Y, & Z Leadscrews
- Double Nut Leadscrew for backlash compensation
- ABEC 7/CP4 Spindle Bearings
- One-piece way wipers
- 7/16"-20 Imperial Drawbar R8
- 3 / 2 Hp AC Motor (3Hp 30 minute duty/ 2Hp continuous)
- Articulating Head for Compound Angles
- Worm gear angular positioning of head in two directions
- Lever-operated manual rapid quill movement
- Handwheel for fine quill feed
- Adjustable automatic feed disengagement for quill feed in both directions
- Micrometer depth stop
- Reversing switch for clockwise or counter clockwise operation
- R8 Spindle taper
- Spindle Brake (Hand operated)
- One-shot lubrication
- Leveling bolts and pads (in tool box)
- Tool Kit, Test and Accuracy Chart
- Operations Manual/Parts List
- Series 1 Standard 208/230 or 460 3 Phase (other voltages require a transformer)

**Investment**

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**Clousing BPS1 w/Mechanical Sheave Pulley Drive**

BPS1R08	VS Mill, 9" x 49" Table, R8 Spindle, 3 Hp	\$ 21,800.00
BPS1R08C	VS Mill, 9" x 49" Table, R8 Spindle, 3 Hp Coolant System in Base and On/Off Switch	22,455.00
BPS1QC30	VS Mill, 9" x 49" Table, NMTB 30 Quick Change SPDL, 3 Hp	\$ 22,350.00
BPS1QC30C	VS Mill, 9" x 49" Table, NMTB 30 Quick Change SPDL, 3 Hp, Coolant System in Base and On/Off Switch	23,000.00

**Bridgeport Specific Accessories**

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BPS031	Right Angle Attachment R8 (only no support or arbor) <b>(NOT FOR QUICK CHANGE SPINDLE)</b>	\$ 2,250.00
BPS8408	Air Power Draw Bar R8 (US MFG)	1,195.00
	<b>Drawbar Installation</b>	<b>\$ 200.00 NET</b>
BPS100	Spindle chip guard	785.00
BPS001	Coolant Chip Pan	585.00
BPS040	4" Column Riser Block Series 1	650.00
BPS041	6" Column Riser Block Series 1	700.00
BPS042	8" Column Riser Block Series 1	755.00
BPS050	Front Accordion & Rear Flat Cover Y-Axis	240.00
BPSX350	X-Axis Servo Feed (USA MFG)	1,880.00
	<b>Power Feed Installation</b>	<b>\$ 175.00 NET</b>
BPSY350	Y Axis Servo Feed (USA MFG)	2,000.00
	<b>Power Feed Installation</b>	<b>\$ 175.00 NET</b>
BPSK350	Knee Servo Feed (USA MFG)	1,985.00
	<b>Power Feed Installation</b>	<b>\$ 175.00 NET</b>
BPS200	Accu-Lube System	2,365.00
BPS2VRSP	Series 1 2 Year Spare Parts 1.5Hp	450.00

**Special Electrics**

BPS-NFPA79-SM	NFPA Special Electrics Knee Mill	\$ 9,575.00
BPS8408-NFPA	Air Power Drawbar R8 (w/110V Solenoid for air) (requires BPS-NFPA79-SM)	1,330.00
BPS200-NFPA	Accu-Lube System w/NFPA (requires BPS-NFPA79-SM)	2,540.00
BPSWOL-NFPA	Worklight with Twist Lock Plug (requires BPS-NFPA79-SM)	580.00

**DRO Kits**

AR13-35-200M	2 Axis 9"x 49" TBL Acu-Rite 200 DRO	\$ 2,930.00
AR13-35-300M	2 Axis 9"x49" TBL Acu-Rite 300 DRO	3,300.00
AR4-13-35-200M	3 Axis w/Spindle 9"x 49" TBL Acu-Rite 200 DRO	3,630.00
AR4-13-35-300M	3 Axis w/Spindle 9"x 49" TBL Acu-Rite 300 DRO	4,000.00
AR13-35-16200M	3 Axis w/Knee 9"x 49" TBL Acu-Rite 200 DRO	3,890.00
AR13-35-16300M	3 Axis w/Knee 9"x 49" TBL Acu-Rite 300 DRO	4,260.00
AR4-13-38-16300M	4 Axis w/Knee 9"x 49" TBL Acu-Rite 300 DRO	5,050.00
NW12-36NMS800	2 Axis 9"x 49" Newall NMS800 DRO	\$ 2,930.00
NW4-12-36NMS800	3 Axis w/Spindle 9"x 49" Newall NMS800 DRO	3,630.00
NW16-12-36NMS800	3 Axis w/Knee 9"x 49" Newall NMS800 DRO	3,890.00

**NOTE: Acu-Rite edge finder requires 300 DRO kits**

<b>DRO 2 Axis Installation</b>	<b>\$ 350.00 NET</b>
<b>DRO 3 Axis Installation</b>	<b>\$ 500.00 NET</b>
<b>DRO 4 Axis Installation</b>	<b>\$ 650.00 NET</b>

## General Accessories

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2VS020-1	R8 Milling Chuck Kit w/11 ER Collets	\$ 565.00
Z384-SET-1	R8 Metric Set 2mm by 1mm, 19 Collets	425.00
Z384-SET-5	R8 Inch Collet Set 1/8 to 7/8 by 32nds, 25 Collets	1,475.00
Z384-SET-6	R8 Inch Collet Set 1/8 to 7/8 by 1/16ths, 13 Collets	315.00
Z384-SET-7	R8 Inch Collet Set 1/8 to 3/4 by 1/8ths, 6 Collets	230.00
FV-9031G	R8 to J2 Arbor for FV-9030G	170.00
FV-9033G	R8 to J6 Arbor for FV-9032G	170.00
FV-9041G	12pc. R8 Collet Rack	60.00
FV-9050G	1/2" R8 Shell Mill Holder	100.00
FV-9051G	3/4" R8 Shell Mill Holder	150.00
FV-9052G	1" R8 Shell Mill Holder	100.00
FV-9080G	R8 End Mill Adapter Set 3/16-1 1/4 (8 pcs.)	320.00
2VS002A	Central 110v Wiring Point w/6 Plugs & 8' Power Cord	265.00
2VS010	52 Piece Clamping Kit	195.00
FV-9010G	Kurt 6" Vise Only	1,025.00
FV-9011G	Kurt 6" Swivel Base for FV-9010G	730.00
FV-9012G	Vise Step Key Kit 11/16 x 5/8 (set of 2)	95.00
FV-9030G	1/2" Keyless Drill Chuck	230.00
FV-9032G	1/8" to 5/8" Keyless Drill Chuck	240.00
FV-9070L	LED Work Light w/3Pin 110V Plug	190.00
CS-9062	Coolant Mist System 1 Gal	1,425.00

## Warranty

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Clausing warrants the machine and control for a period of one year from the date of installation. This warranty does not cover normal wear items such as filters and belts or damage that results from the misuse or abuse of this equipment.

## Terms

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**Validity:** Quotation valid 30 Days

**FOB:** Kalamazoo, Michigan or Point of Shipment

**Delivery:** Varies depending on model and options configuration selected.

Due to continual improvements, prices and specifications subject to change without notice.

**Price Escalation:** Any increase in the cost of supplying products caused by any government law, regulation, or tariff will be added to the final price of the product. Purchasers may cancel an order due to the price escalation and receive a refund of deposits paid, less costs incurred for production progress, up to the date written notice of cancellation is received by Clausing Industrial.

**\* Due to the current U.S. imposed tariff of 10%-20%, and sharing of costs by Clausing and supply chain partners, the current prices listed above will be increased by 6.5% -15.5% depending on country of origin for all non-stock machines and accessories.**