



MILLING PRODUCT CATALOG

AHB

TOOLING & MACHINERY

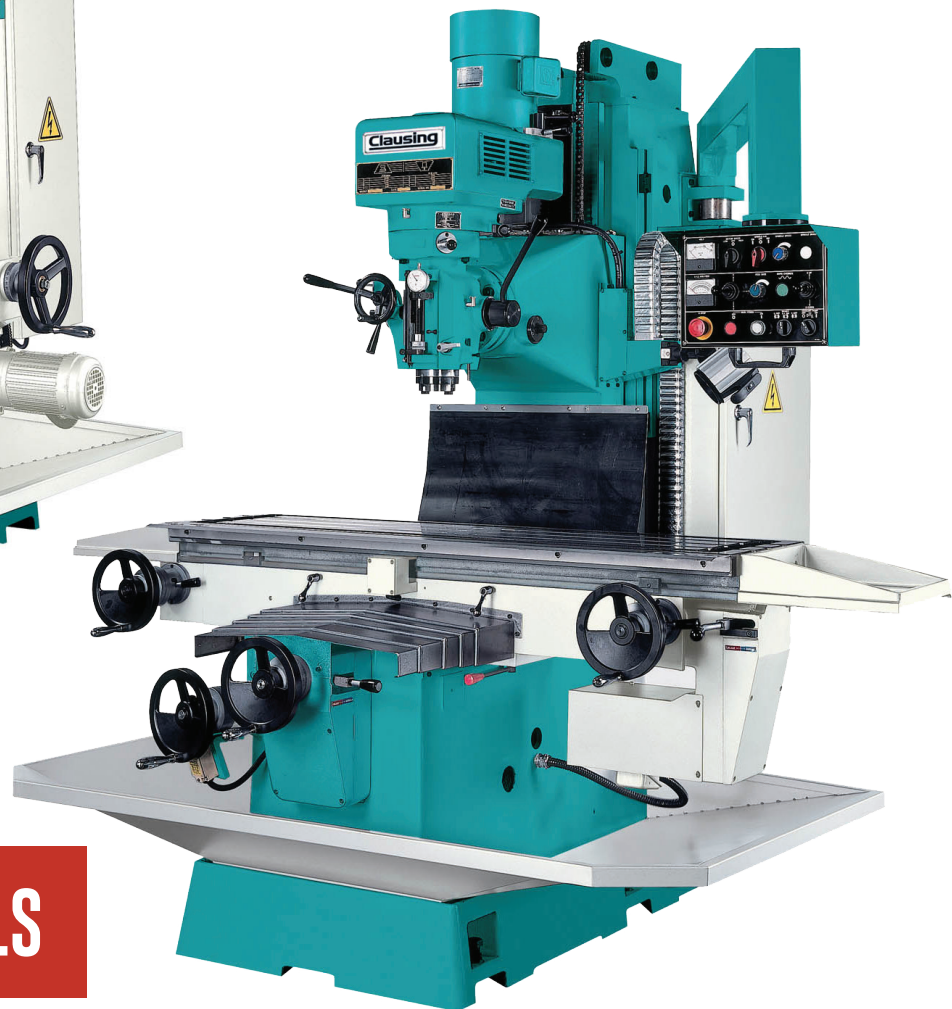
COMPLETE METALWORKING SOLUTIONS

(800) 991-4225

www.ahbinc.com

ISO Certified

customerservice@ahbinc.com



STANDARD BED MILLS

AFFORDABLE. DURABLE. VERSATILE.

Affordable, extra heavy-duty, large capacity, durable bed mills and super bed mills with real cutting power

4BVS40 / 6BVS40



Features

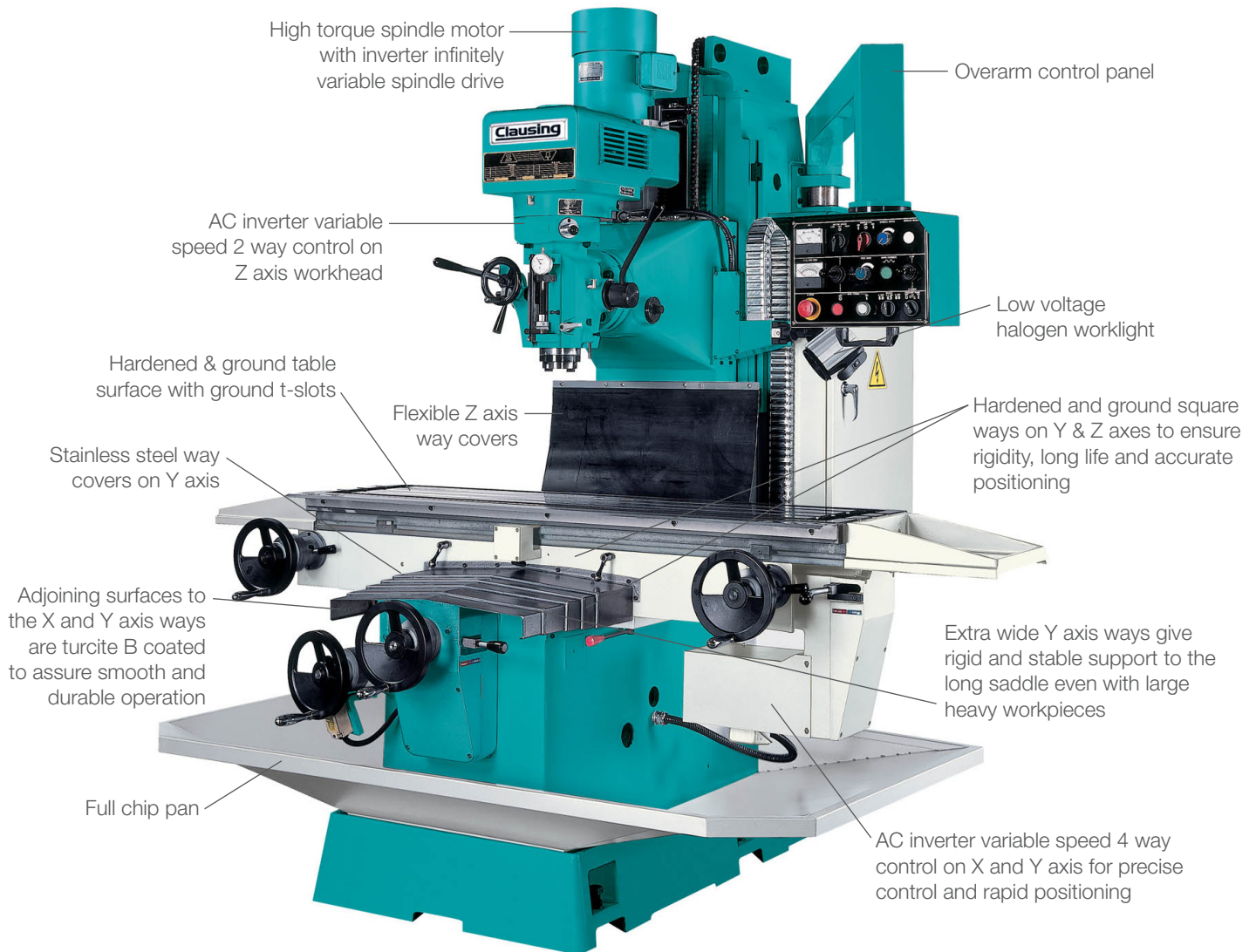
- Powerful 5 Hp spindle drive motor
- Mechanical variable speed drive with 2 speed ranges
- Hardened and ground spindle with NT40 taper
- Hardened and chromed quill with 5" travel
- CP4 ABEC7 angular contact spindle bearings
- C7 double nut X/Y/Z axes 1.26" diameter ballscrew
- Hardened and ground table surface
- Ground T-slots to provide accurate reference edge
- Hardened and ground, square X/Y ways
- Turcite B coating on saddle X/Y axes ways
- Meehanite castings for superior rigidity and wear resistance
- Stainless steel front Y axis way cover
- Rubber Z axis and rear Y/Z axes way covers
- Automatic lubrication with alarm with alarm
- Standard voltage 230/3/60 volt, all other voltages require a transformer

- Long arm halogen work light
- Coolant system with pump
- Tools, toolbox and parts

Optional Equipment

- CE/EMC equipment package
- Coolant and oil skimmer
- Air power draw bar
- Heavy-duty back guard
- Table guard
- Table guard with interlock door
- Z axis concertina way covers
- Quill guard with cut-out switch and CSA on/off only

SUP4BVS40 / SUP6BVS40 / SUP8BVS40



Features

- Powerful 5 Hp spindle motor SUP4BVS & SUP6BVS and 7.5 Hp spindle motor SUP8BVS
- Inverter variable speed drive with 2 speed ranges
- Hardened and ground spindle with NT40 taper
- Hardened and chromed quill with 5" travel
- CP4 ABEC7 angular contact spindle bearings
- C7 double nut X/Y/Z axes 1.26" diameter precision ballscrew
- Hardened and ground table surface
- Ground T-slots to provide accurate reference edge
- Hardened and ground, square X/Y ways
- Turcite B coating on saddle X/Y axes ways
- Meehanite castings for superior rigidity and wear resistance
- Telescopic Z axis ballscrew cover
- Z axis accordion way covers
- Rubber rear Y/Z axes way covers
- Stainless steel front Y axis way cover

- Coolant system with pump
- Long arm halogen work light
- Standard voltage 230/3/60 volt, all other voltages require a transformer
- Automatic lubrication system with alarm
- Tools, toolbox and parts

Optional Equipment

- CE/EMC equipment package
- Coolant and oil skimmer
- Air power draw bar
- Heavy-duty back guard
- Table guard
- Table guard with interlock door
- Quill guard with cut-out switch and CSA on/off only

SUP10BV650



SUP16BV650



Features

- Powerful 10 HP Spindle Drive Motor
- Gearbox drive with 6 speeds and forced lubrication
- Hardened and ground spindle with NT50 taper
- High-rigidity spindle complete with cylindrical roller bearing designed for accurate cutting
- C7 double nut X/Y/Z axes with 1.5" precision ball screws
- 1:2 ratio timing belt boxes on X/Y/Z increases drive torque
- X/Y/Z movement by joy stick or MPG
- X/Y/Z axes driven by servo motor with pendant control box showing individual buttons for each function, allows for easy operator interface
- Hardened and ground table surface
- Ground t-slots provides an accurate reference edge
- hardened and ground square Y/Z ways, dovetail on X
- Turcite B coating on X/Y/Z axes ways

- Meehanite castings for superior rigidity and wear resistance
- Steel X/Y/Z axes way covers
- Coolant system with pump
- Halogen work light
- Tools, toolbox included
- Standard voltage is 230/3/60 volt all other voltages require a transformer

Optional Equipment

- Table guard with door
- Table guard with sliding interlocking door
- NMTB50 power drawbar
- CE/EMC Electrics with CE approved contactors

SPECIFICATIONS

MODEL	4BVS40	SUP4BVS40	6BVS40	SUP6BVS40	SUP8BVS40	SUP10BVG50	SUP16BVG50
SPECIFICATIONS							
Table Size	10" x 54" (254x1371mm)	10" x 54" (254x1371mm)	15" x 60" (380x1524mm)	15" x 60" (380x1524mm)	16.75" x 62" (425x1575mm)	17.7" x 70.8"	19.69" x 86.61"
Table Load Capacity	1,500 lbs. (680kg)	1,500 lbs. (680kg)	1,800 lbs. (817kg)	1,800 lbs. (817kg)	2,000 lbs. (907kg)	2,600 lbs.	3,300 lbs.
Number of T-Slots	3	3	3	3	4	5	5
T-Slot Width	.63" (16mm)	.63" (16mm)	.709" (18mm)	.709" (18mm)	.709" (18mm)	.71"	.71"
T-Slot Center Distance	2.48" (63mm)	2.48" (63mm)	3.15" (80mm)	3.15" (80mm)	3.15" (80mm)	2.76"	3.35"
Table Ways (X Axis) Turcite B coated	Dovetail	Dovetail	Dovetail	Dovetail	Dovetail	Dovetail	Dovetail
Bed Ways (Y Axis) Turcite B coated	Square	Square	Square	Square	Square	Square	Square
Column Ways (Z Axis)	Square	Square	Square	Square	Square	Square	Square
TRAVELS							
Longitudinal (X Axis)	30.51" (775mm)	30.51" (775mm)	41.34" (1050mm)	41.34" (1050mm)	41.34" (1050mm)	51.18"	62.99"
Cross (Y Axis)	17.52" (445mm)	17.52" (445mm)	19.69" (500mm)	19.69" (500mm)	22.83" (580mm)	23.62"	27.56"
Vertical (Z Axis)	19.69" (500mm)	19.69" (500mm)	23.62" (600mm)	23.62" (600mm)	23.62" (600mm)	27.56"	27.56"
Quill Diameter	4.13" (105mm)	4.13" (105mm)	4.13" (105mm)	4.13" (105mm)	4.33" (105mm)	—	—
Quill Travel	5" (127mm)	5" (127mm)	5" (127mm)	5" (127mm)	6" (127mm)	—	—
Head Tilt (left or right)	90°	90°	90°	90°	90°	—	—
Feedrate X & Y Axes	.71–31 (in/min) (18–788mm/min)	.71–31 (in/min) (18–788mm/min)	1.1–43.3 (in/min) (28–1100mm/min)	1.1–43.3 (in/min) (28–1100mm/min)	1.1–43.3 (in/min) (28–1100mm/min)	0–29.53 (in/min)	0–29.53 (in/min)
Feedrate Z Axis	.71–31 (in/min) (18–788mm/min)	.71–31 (in/min) (18–788mm/min)	.71–31 (in/min) (18–788mm/min)	.71–31 (in/min) (18–788mm/min)	.71–31 (in/min) (18–788mm/min)	0–29.53 (in/min)	0–29.53 (in/min)
X & Y Axes AC Motor with Brake	1/2 Hp	1/2 Hp	1 Hp	1 Hp	1 Hp	1.3 Hp	1.3 Hp
Z Axis AC Motor with Brake	1/2 Hp	1/2 Hp	1/2 Hp	1/2 Hp	1/2 Hp	1.3 Hp	1.3 Hp
SPINDLE							
Motor	5 Hp (mechanical V.S.)	5 Hp (inverter V.S.)	5 Hp (mechanical V.S.)	5 Hp (inverter V.S.)	7.5 Hp (mechanical V.S.)	10 Hp	10 Hp
Spindle Speeds (Infinitely Variable)	70–4300 rpm	65–5160 rpm	70–4300 rpm	65–5160 rpm	70–4300 rpm	—	—
No. of Speed Ranges	2	2	2	2	2	6	6
Low Gear Range	70–500 rpm	65–590 rpm	70–500 rpm	65–590 rpm	70–500 rpm	125–560 rpm	125–560 rpm
High Gear Range	570–4300 rpm	575–5160 rpm	570–4300 rpm	575–5160 rpm	570–4300 rpm	370–1100 rpm	370–1100 rpm
Spindle Taper	NT 40	NT 40	NT 40	NT 40	NT 40	NT 50	NT 50
Quill feed in/revolution mm/revolution	.0016/.003/.006 (0.04/0.08/0.015)	.0016/.003/.006 (0.04/0.08/0.015)	.0016/.003/.006 (0.04/0.08/0.015)	.0016/.003/.006 (0.04/0.08/0.015)	.0016/.003/.006 (0.04/0.08/0.015)	—	—
CONSTRUCTION							
Height	78.74" (2000mm)	78.74" (2000mm)	85.43" (2170mm)	85.43" (2170mm)	84.65" (2150mm)	115.35"	115.35"
Working Width	71.46" (1815mm)	71.46" (1815mm)	92.91" (2360mm)	92.91" (2360mm)	98.03" (2490mm)	145.87"	162.87"
Working Depth	66.14" (1680mm)	66.14" (1680mm)	76.77" (1950mm)	76.77" (1950mm)	80.71" (2050mm)	108.27"	99.61"
Width Across Column Ways	11.73" (298mm)	11.73" (298mm)	11.73" (298mm)	11.73" (298mm)	11.73" (298mm)	—	—
Length of Saddle on Bed	25.98" (600mm)	25.98" (600mm)	47.24" (1200mm)	47.24" (1200mm)	53.15" (1350mm)	—	—
Width Across Bed Ways	16.53" (420mm)	16.53" (420mm)	20.47" (520mm)	20.47" (520mm)	22.83" (580mm)	—	—
Spindle Nose to Table	3.15"–22.83" (80–580mm)	3.15"–22.83" (80–580mm)	3.93"–27.55" (100–700mm)	3.93"–27.55" (100–700mm)	3.93"–27.55" (100–700mm)	3.93"–31.5"	2.76"–30.31"
Center of Spindle to Column ways	17.32" (440mm)	17.32" (440mm)	20.47" (520mm)	20.47" (520mm)	23.62" (600mm)	24.02"	27.56"
Floor to Table Surface	36.2" (920mm)	36.2" (920mm)	37" (940mm)	37" (940mm)	34.3" (871mm)	—	—
Table to Column Ways	3.15"–20.87" (80–530mm)	3.15"–20.87" (80–530mm)	2.05"–21.73" (52–552mm)	2.05"–21.73" (52–552mm)	.79"–23.62" (20–600mm)	—	—
Ball Screw Dia./Pitch	1.26"/.2" (32/5mm)	1.26"/.2" (32/5mm)	1.26"/.2" (32/5mm)	1.26"/.2" (32/5mm)	1.26"/.2" (32/5mm)	1.5"	1.5"
Ball Screw Class	C7	C7	C7	C7	C7	C7	C7
Gross Weight (approximately)	4,400 lbs (2000kg)	4,400 lbs (2000kg)	6,600 lbs (3000kg)	6,600 lbs (3000kg)	7,260 lbs (3300kg)	8,730 lbs	9,921 lbs
Shipping Weight						11,220 lbs	12,100 lbs
Shipping Dimensions (LxWxH)						105"x82"x101"	105"x92"x101"

Your Single Source for Machine Tools

Clausing Precision Drills

- Clausing Belt-drive Drills
- Clausing Geared-head Drills
- Clausing Radial Drills

Clausing Precision Mills

- Clausing Bed Mills
- Clausing CNC Bed Mills
- Clausing Knee Mills
- Clausing EVS Knee Mills
- Clausing CNC Knee Mills
- Clausing Universal Mills

Clausing Precision Grinders

- Clausing Manual Grinders
- Clausing 2 Axes Hydraulic Grinders
- Clausing 3 Axes Hydraulic Grinders
- Clausing ASDIII Automatic Grinders
- Clausing OD/ID Grinders

Clausing Precision Cutting Machines

- Clausing/Kalamazoo Horizontal Bandsaws
- Clausing/Kalamazoo Vertical Bandsaws
- Clausing/Kalamazoo Tilt Frame Miter Bandsaws
- Clausing/Kalamazoo Cold Saws

Clausing Precision Lathes

- Clausing/Colchester Geared Head Lathes
- Clausing/Colchester Professional V.S. Lathes
- Clausing/Colchester MAGNUM V.S. Lathes
- Clausing C Series Lathes
- Clausing Large Swing Standard Lathes
- Clausing Large Swing CNC Lathes
- Clausing Precision Toolroom Lathes



Your Authorized Clausing Precision Machine Tools Distributor



**COMPLETE
METALWORKING
SOLUTIONS**

(800) 991-4225

www.ahbinc.com

ISO Certified

customerservice@ahbinc.com

