

Large Capacity CNC Bed Mills



Clausing **BED MILLS**

3-Axis Super CNC Bed Mills
with Anilam 3000 Control

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Machine Standard 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 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 cover
- Stainless steel front Y axis way cover
- Rubber rear Y/Z axes way covers
- Heavy-duty overhead square control arm
- X/Y axes handwheels
- Coolant system with pump
- Automatic lubrication with alarm
- Heavy-duty chip tray, rear splash guard and table guarding
- Transformer
- Air power drawbar
- Long arm halogen work light
- Tools, toolbox and parts

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Optional Equipment:

- X/Y/Z linear scale
- 4th axis 5000 package
- Anilam remote start/stop unit
- Laser calibration to program encoder motors

- Anilam remote MPG unit

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Specifications:

Model	SUP4BVSCNC40	SUP6BVSCNC40	SUP8BVSCNC40
Table Size	10" x 54"	15" x 60"	16.75" x 62"
Table Load Capacity	1,500 lbs.	1,800 lbs.	2,000 lbs.
Number of T-Slots	3	3	4
T-Slot Width	.63"	.709"	.709"
T-Slot Center Distance	2.48"	3.15"	3.15"
Table Ways (X Axis)	Dovetail	Dovetail	Dovetail
Bed Ways (Y Axis)	Square	Square	Square
Column Ways (Z Axis)	Square	Square	Square
TRAVELS			
Longitudinal (X Axis)	30.51"	41.3"	47.24"
Cross (Y Axis)	17.52"	19.6"	22.83"
Vertical (Z Axis)	19.69"	23.62"	23.62"
Quill Diameter	4.13"	4.13"	4.33"
Quill Travel	5"	5"	6"
Head Tilt (left or right)	90°	90°	90°
Rapid Traverse Rate X & Y	100 (in/min)	100 (in/min)	100 (in/min)
Rapid Traverse Rate Z	75 (in/min)	75 (in/min)	75 (in/min)
Programmable Feedrate X & Y	0-100 (in/min)	0-100 (in/min)	0-100 (in/min)
Programmable Feedrate Z	0-75 (in/min)	0-75 (in/min)	0-75 (in/min)
Feedrate Override (5% increments)	5%-150%	5%-150%	5%-150%
SPINDLE			
Motor	5 Hp	5 Hp	7.5 Hp
Spindle Speeds (Infinitely Variable)	65-5160 rpm	65-5160 rpm	65-5160 rpm
No. of Speed Ranges	2	2	2
Low Gear Range	65-590 rpm	65-590 rpm	65-590 rpm
High Gear Range	575-5160 rpm	575-5160 rpm	575-5160 rpm
Spindle Taper	NT 40	NT 40	NT 40
Quill feed in/revolution	.0016/.003/.006	.0016/.003/.006	.0016/.003/.006
Quill Travel/Dia.	5"/4.13"	5"/4.13"	6"/4.33"
CONSTRUCTION			
Height	89.76"	99"	98.43"
Width	71.46"	92.91"	98.03"
Depth	66.14"	76.77"	80.71"
Working Width	100"	131"	140"
Working Depth	74"	90"	100"
Width Across Column Ways	11.73"	11.73"	11.73"
Length of Saddle on Bed	25.98"	47.24"	53.15"
Width Across Bed Ways	16.53"	20.47"	22.83"
Center of Spindle to Column ways	17.32"	20.47"	23.62"
Floor to Table Surface	36.2"	37"	34.3"
Table to Column Ways (min/max.)	3.15"/20.87"	2.05"/21.73"	.79"/23.62"
Ball Screw Dia.	1.26"/.2"	1.26"/.2"	1.26"/.2"
Ball Screw Class	C7	C7	C7
Spindle Nose to Table	3.15"-22.83"	3.93"-27.55"	3.93"-27.55"
Gross Weight (approximately)	4,400 lbs	6,600 lbs	7,260 lbs

Machine Control, Design and Specification are subject to change without notice

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Control:

ANILAM

3000 COMMANDO CNC Control



The Series 3000 COMMANDO are user-friendly controls designed by ANILAM specifically for the milling industry. It utilizes Conversational Programming, there are no G-codes or other machine codes to learn. You don't have to have prior programming experience, you are prompted for data input by use of the F keys. The intuitive interaction makes it easy to set-up part programs.

The many ANILAM 3000 features include on-screen editing and help graphics and DXF and G-code conversion, which converts DXF and G-code to Conversational Programming.

Control Hardware

- 12.1" active matrix TFT flat panel display
- IBM compatible
- Communication ports
- Parallel printer port
- Network option
- 3-1/2" 1.44 MB Floppy Drive for transporting programs
- 8.1 GB Hard Drive for part program storage

Programming Tools

- **Built-in Calculator:** Perform standard, trig, right angle and geometry calculations. All answers are stored and can be transferred directly into part programs via recall key.
- **Draw graphics mode:** Can be used to verify the part before machining it. At this point the part program can easily be edited if needed.
- **Canned cycles:** Are used to make the programming of routine machining jobs fast and easy.

Basic & Advanced Canned Cycles		
<i>Pocketing</i>	<i>Drill/Tap</i>	<i>Paths</i>
Frame milling	Basic drilling	Ellipse
Area clearance	Bore bi-directional	Circular profile
Circular pocket milling	Counter boring	Spiral
Hole milling	Peck drilling	Facing
Rectangular pocket milling	Bore uni-directional	Rectangular profile
Elbow milling	Chip breaking	
Plunge circular pocket milling	Flat bottom boring	
Mold rotation	Bolt hole circle	
Plunge rectangular pocket milling	Tapping	
Draft pocket milling	Hole pattern drilling	

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