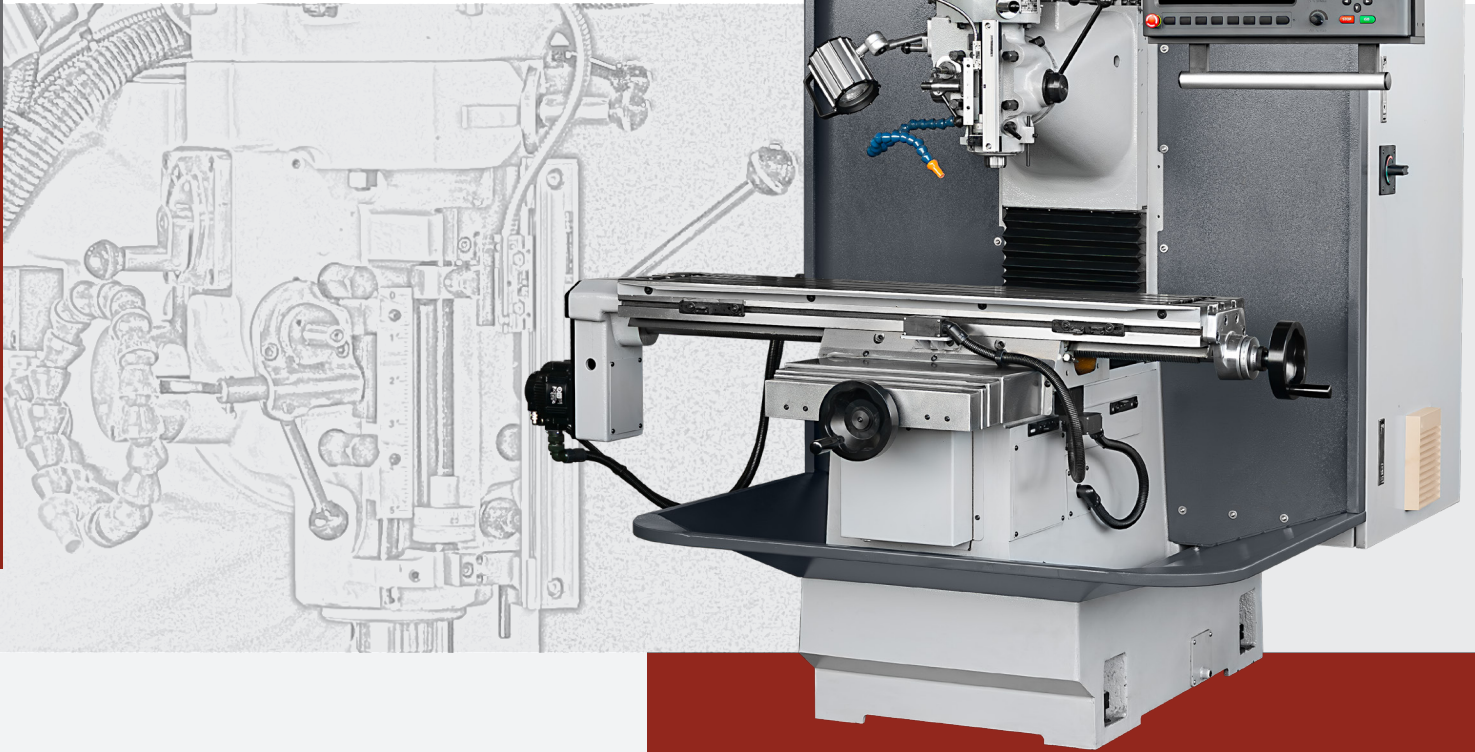




# CNC Bed Mill

## BM-3



## BM-3 CNC Bed Mill

*Compact / Powerful / Reliable*

The KENT USA BM-3 CNC bed type milling machine combines proven designs with the latest advance technology in engineering and over 40 years of manufacturing excellence. Reliability and performance makes these a favorite among demanding job shops and in-house tool rooms alike. With best in class features and superior built quality, the BM-3 bed mills are the new industry standard in high performance cnc bed-type milling machines. Upgrade your global competitiveness today.

[www.kentusa.com](http://www.kentusa.com)

### Why Kent USA BM-3?

- Rigid Spindle/Head housing with powerful 3 hp vector drive spindle motor
- 80 - 4500 rpm programmable spindle provides greater range of machining capability
- Metal telescopic way cover on front saddle ways for enhance durability
- X-axis and Y-axis metal hand wheels for manual operation and set ups
- Automatic lubrication system with metered check valves
- Programmable flood coolant with splash guards and chip pan
- Built-in coolant reservoir in machine base
- Certified Meehanite® machine casting for superior dampening and stability



## INCLUSIONS

- Acu-Rite® MillPwr-G2 (3-Axis CNC) conversational control with 12.1" color LCD
- Manual/DRO, conversational, and G-code operational modes
- Dual USB (front/back) ports, Ethernet port, and RS-232 port
- Programmable spindle speed control and spindle speed override knob
- Programmable flood coolant (M08), splash guards and chip pan
- Automatic lubrication system and work light
- Standard tools and manuals
- 2-year MillPwr-G2 system warranty

## OPTIONS & ACCESSORIES

- Quill scale feedback with linked Z-axis compensation
- Linear glass scale feedback option (X/Y/Z)
- Electronic edge finder (0.5" shank, 0.2" tip)
- Electronic edge finder (16mm shank, 6mm tip)
- Touch probe KT-130
- Off-Line Software (desktop programming option)
- Internal transformer to provide 120V for CNC control (120V for CNC so that separate 120V source not needed)
- Air power drawbar
- Option for 440V electrics instead of 220V 3PH power
- Multi-tap transformer 440~480V primary to 220V, 20KVA
- Machine start up installation and operator training
- Programmable rotary table indexer

## GENERAL SPECIFICATIONS

### MACHINE CAPACITY:

Table Size: 10" x 50"  
 Table Travel (X-axis): 34"  
 Saddle Travel (Y-axis): 16"  
 Column Travel (Z-axis): 24"  
 Spindle Nose to Table Top: 2" ~ 26"  
 Spindle Center to Column: 17.8"  
 Quill Travel: 5"  
 Quill Diameter: 3-3/8"  
 Table Load Capacity: 1480 lbs (distributed)  
 T-slots (number x width): 3 x 5/8"

### MILLING HEAD:

Spindle Motor: 3 hp  
 Spindle Taper: R8 / NMTB30  
 Speed Range: 80 - 4500 rpm  
 Quill Power Feed (per rev): 0.0017" / 0.0032" / 0.0054"  
 Drilling Capacity:  $\varnothing$  1"  
 Tapping Capacity:  $\varnothing$  0.25"

### RAPID TRAVERSE:

Rapid Traverse X/Y/Z: 200 inch/min  
 (MillPwr-G2)

### UTILITY:

Machine Power Required: 220V / 3PH / 30A  
 CNC Control/Servo Power Required: 120V / 1PH / 20A  
 Compressed Air Required: 80 psi  
 Coolant Reservoir: 10 gallon  
 Lubrication Tank Size: 0.5 gallon

### WEIGHT & DIMENSION:

Machine Weight: 3960 lbs  
 Packing Dimension: 77-13/16" x 51" x 80"