

BMC-T Series

CNC Boring & Milling Machines



Manufacturing high quality machine tools since 1958

FEMCO's First Boring Mill

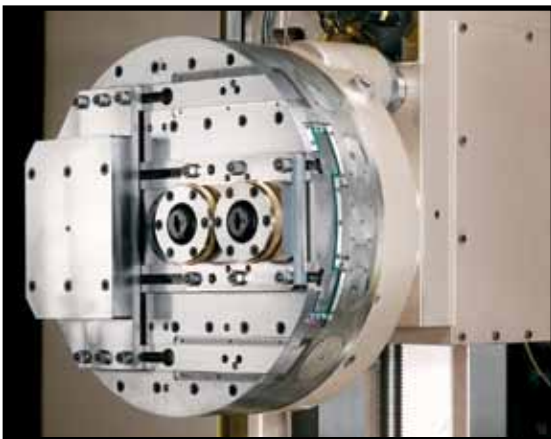
FEMCO has been manufacturing quality machine tools for over five decades. We pride ourselves in quality and our research & development department is constantly looking for ways to improve our products. In 1978, FEMCO became one of the first Taiwanese machine tool builders to manufacture boring mills. Today FEMCO boring mills are considered the world leader in quality and value.

1978 FEMCO Model WBT-85 Boring Mill



BMC T-type Machine Features

- Traveling column design, work table installed on base of X axis for higher rigidity and larger loading capacity.
- Linear scales on X, Y, Z axis, forming a closed feedback system for tighter accuracies.
- 5 axis (X, Y, Z, W, B) control and simultaneous 4 axis machining.
- Universal CNC indexing table (B axis function).



Programmable U-Axis Facing and Turning Head (FT Series only)



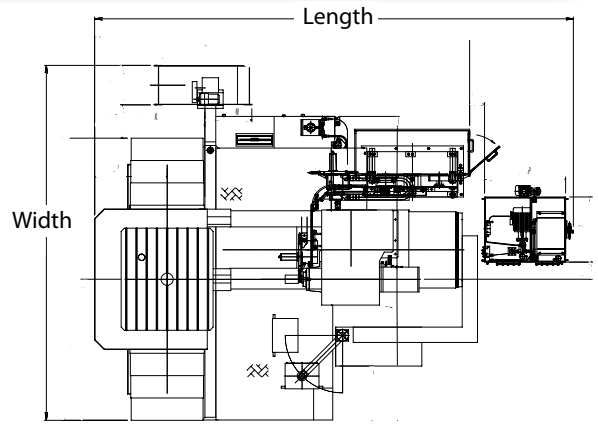
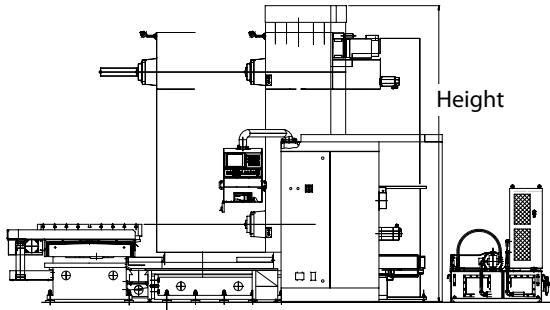
Automatic Tool Changer

The optional ATC holds 60 or 90 tools with a twin tool arm that keeps the next tool at ready position. The easy access open-face design ensures fast loading and unloading. CAT-50 Tool holders allow for a wide range of tooling options.

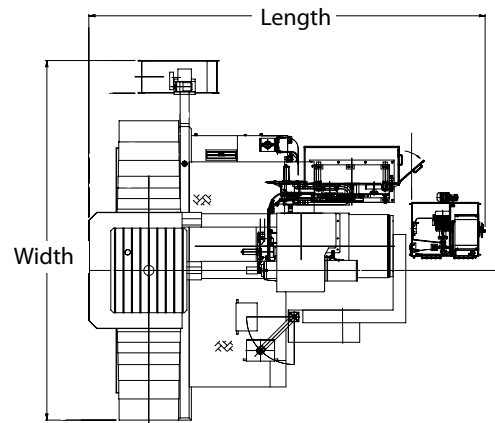
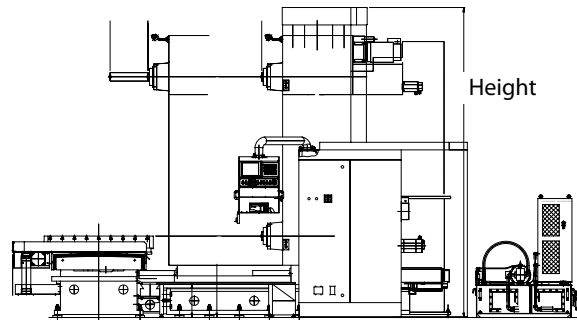
Machine Layouts

Model	Height	Length	Width	Model	Height	Length	Width
BMC-110T2	161.42"	295.27"	218.90"	BMC-110FT2	161.42"	295.27"	218.90"
BMC-110T3	161.42"	295.27"	267.91"	BMC-110FT3	161.42"	295.27"	267.91"
BMC-110T4	161.42"	295.27"	318.90"				

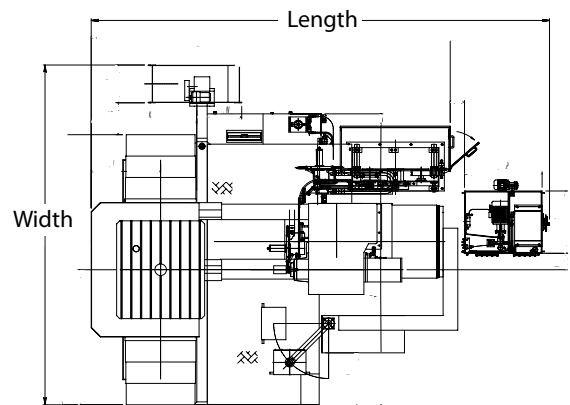
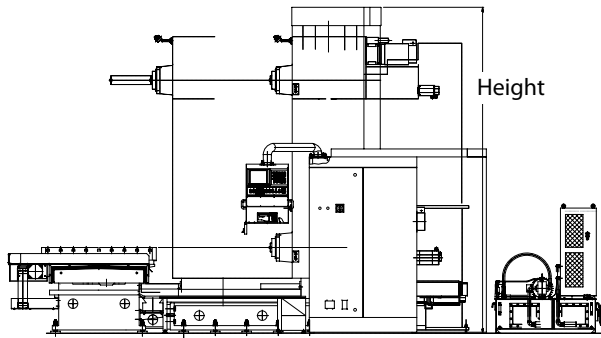
BMC-110T2



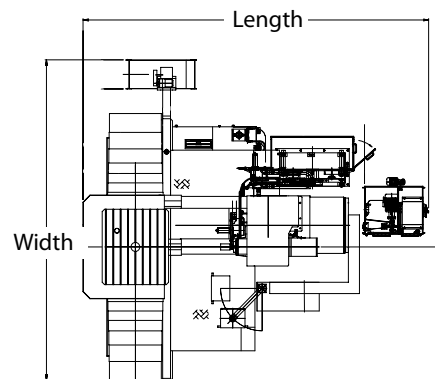
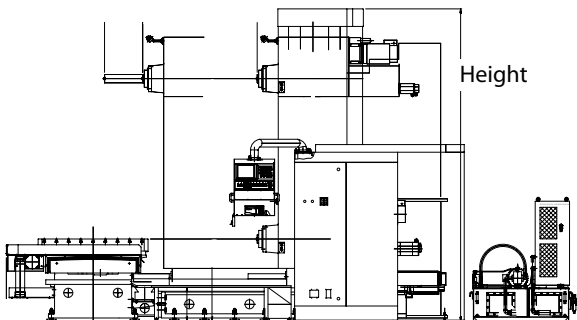
BMC-110T3, BMC-110T4



BMC-110FT2



BMC-110FT3





Specifications

BMC-110T2

BMC-110T3

Travel

Table Cross Travel (X)	78.74" (2000mm)	118.11" (3000mm)
Headstock Travel (Y)	82.67" (2100mm)	82.67" (2100mm)
Table Longitudinal (Z)	59.05" (1500mm)	59.05" (1500mm)

Table

Size	56.69" x 62.99"	56.69" x 62.99"
Load	17,600 lbs (8000kg)	17,600 lbs (8000kg)

Spindle

Stroke (W)	19.69"	19.69"
Diameter	4.33" (110mm)	4.33" (110mm)
Taper (w/power operated drawbar)	ISO No. 50	ISO No. 50
Toolshank	CT50	CT50
Pull Stud (MASI option)	MASII 60 deg	MASII 60 deg
Milling Spindle Diameter	8.86" (225mm)	8.86" (225mm)
Motor	30/35 hp (AC 22/26kW)	30/35 hp (AC 22/26kW)
Low Speed Range	Stepless 5-454 rpm	Stepless 5-454 rpm
High Speed Range	Stepless 455 to 2,500 rpm	Stepless 455 to 2,500 rpm

Automatic Tool Changer

Tool Storage Capacity	60, 90 tools	60, 90 tools
Maximum Tool Weight	55lbs (25kg)	55lbs (25kg)
Maximum Tool Diameter (Adjacent Pods Full)	4.9" (125mm)	4.9" (125mm)
Maximum Tool Diameter (Adjacent Pods Empty)	9.84" (250mm)	9.84" (250mm)
Maximum Tool Length	15.75" (400mm)	15.75" (400mm)
Tool to Tool Exchange Time	13 sec	13 sec
Tool Selection Method	automatic selection	automatic selection

Positioning Servo Motor

X-Axis	8.0hp (AC6.0kw)	8.0hp (AC6.0kw)
Y-Axis	9.4hp (AC7.0kw)	9.4hp (AC7.0kw)
Z-Axis	8.0hp (AC6.0kw)	8.0hp (AC6.0kw)
W-Axis	5.4hp (AC4.0kw)	5.4hp (AC4.0kw)
B-Axis	5.1hp (AC3.8kw)	5.1hp (AC3.8kw)

Control

Positioning Accuracy X, Y, Z and W-Axis	0.001"/11.81"	0.001"/11.81"
Repeatability X, Y, Z and W-Axis	± 0.0004" (± 0.01mm)	± 0.0004" (± 0.01mm)
Control Axis	5	5
Simultaneous Control Axis	4	4

Rapid Traverse Rate

X, Y, Z Axis	394 ipm (12m/min)	394 ipm (12m/min)
W-Axis	157 ipm (4m/min)	157 ipm (4m/min)

Machine Weight/Dimensions

Height	161.42"	161.42"
L x W	295.27 x 218.90	295.27 x 267.91
Weight	52,911lbs. (24,000 kg)	52,911lbs. (24,000 kg)

Facing Head

Diameter	
Slide Stroke U	
Maximum Face Cutting Diameter	
Rotation Speed	
Maximum Torque	
Slide Rapid Traverse	

Power Requirements



BMC-110T4



BMC-110FT2



BMC-110FT3

157.50" (4000mm) 82.67" (2100mm) 59.05" (1500mm)	78.74" (2000mm) 82.67" (2100mm) 59.05" (1500mm)	118.11" (3000mm) 82.67" (2100mm) 59.05" (1500mm)
56.69" x 62.99" 17,600 lbs (8000kg)	56.69" x 62.99" 17,600 lbs (8000kg)	56.69 X 62.99" 17,600 lbs (8000kg)
19.69" 4.33" (110mm) ISO No. 50 CT-50 MASII 60 deg 8.86" (225mm) 30/35 hp (AC 22/26kW) 5 to 454 rpm 455 to 2500 rpm	19.69" 4.33" (110mm) ISO No. 50 CT-50 MASII 60 deg 8.86" (225mm) 30/35 hp (AC 22/26kW) 5 to 454 rpm 455 to 2500 rpm	19.69" 4.33" (110mm) ISO No. 50 CT- 50 MASII 60 deg 8.86" (225mm) 30/35 hp (AC 22/26kW) 5 to 454 rpm 455 to 2500 rpm
60, 90 tools 55 lbs (25kg) 4.72" (120mm) 9.84" (250mm) 15.75" (400mm) 13 sec automatic selection	60, 90 tools 55 lbs (25kg) 4.72" (120mm) 9.84" (250mm) 15.75" (400mm) 13 sec automatic selection	60, 90 tools 55 lbs (25kg) 4.72" (120mm) 9.84" (250mm) 15.75" (400mm) 13 sec automatic selection
8.0hp (AC6.0kw) 9.4hp (AC7.0kw) 8.0hp (AC6.0kw) 5.4hp (AC4.0kw) 5.1hp (AC3.8kw)	8.0hp (AC6.0kW) 9.4hp (AC7.0kW) 8.0hp (AC6.0kW) 5.4hp (AC4.0kW) 5.1hp (AC3.8kW)	8.0hp (AC6.0kw) 9.4hp (AC7.0kw) 8.0hp (AC6.0kw) 5.4hp (AC4.0kw) 5.1hp (AC3.8kw)
0.001"/11.81" ± 0.0004"(± 0.01mm) 5 4	0.001"/11.81" ± 0.0004"(± 0.01mm) 6 4	0.001"/11.81" ± 0.0004"(± 0.01mm) 6 4
394 ipm (12m/min) 157 ipm (4m/min)	394 ipm (12m/min) 157 ipm (4m/min)	394 ipm (12m/min) 157 ipm (4m/min)
161.42" 295.27 x 318.90 52,911 lbs. (24,000 kg)	161.41" 295.27 x 218.90 52,911 lbs. (24,000 kg)	161.41" 295.27 x 267.91 58,423 lbs. (26,500 kg)
220v. 3Ph. 60 cycle 100amp. 440v. Transformer on request	28.35" (720mm) 9.05" (230mm) 41.34" (1050mm) 5~250 rpm 3387 FT. lbs. 59"min (15m/min) 220v. 3Ph. 60 cycle 100amp. 440v. Transformer on request	28.35" (720mm) 9.05" (230mm) 41.34" (1050mm) 5~250 rpm 3387 FT. lbs. 59"min (15m/min) 220v. 3Ph. 100amp. 440v. Transformer on request



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Service & Parts

Our large Service and Parts staff provide outstanding support to its distributors and customers.

FEMCO Service Engineers come equipped to get your machine up and running as soon as possible. FEMCO USA has a large well stocked parts department.

Applications

Our highly qualified Applications experts offer the following services:

- Personnel Instruction
- Training Services
- Applications Consulting
- Turnkey and Part Processing Services
- Class schedule available on our web site.



Visit our web site to locate a dealer near you. www.femcousa.com