

# FBA Series

## MILLING MACHINES



### BASIC TECHNICAL SPECIFICATIONS

Power of main drive:	70 kW
CNC axes:	Up to five (5)

 **PURPOSE**

The FBA Series Milling Machine are the CNC Planer Mills designed for machining of the complex workpieces.

The FBA Series Milling Machines are capable of the following:-

- 3D milling.
- Drilling.
- Reaming.
- Boring.
- Threading, envelope threading (helical motion) in all machining planes, i.e. XY, YZ, XZ

The application of the CNC system provides automatic and productive machining controlled by technological program. The ram spindle and tool head are provided with ISO-50 taper which enables automatic tool clamping and unclamping, as well as cooperating with tool magazine (optional).

 **MAIN FEATURES**

- Fixed frame of machine tool with movable or fixed cross-rail.
- Movable table.
- Vertical milling head consisting of cast iron body and forged steel ram.
- All movable assembly units travel along precise rolling guideways


**TECHNICAL SPECIFICATIONS**

MODEL		FBA 200 CNC	FBA 350 CNC
<b>Table</b>			
Surface of table for workpiece clamping (width × length) <sup>(1)</sup>	mm	2,000 × 4,000	3,500 × 8,000
Table travel <sup>(1)</sup>	mm	5,000	8,500
Range of continuously variable feed rates of table (X axis)	mm/min	0.2 to 3,000	
Maximum rate of table rapid travel	mm/min	7,500	
Maximum load of table	× 10 kN	5	7
Maximum weight of workpiece	× 10 kN	10	50
<b>Frame</b>			
Clearance between columns (Y axis)	mm	2,500	4,500
Maximum distance between spindle face and table (Z axis) <sup>(1)</sup>	mm	1,050	3,500
<b>Milling railhead</b>			
Ram stroke <sup>(1)</sup>	mm	1,000	1,600
Ram cross-section	mm/min	350 × 350	425 × 425
Range of continuously variable feed rates of railhead (Y axis) and ram (Z axis)	mm	0.3 to 4,000	
<b>Machine tool overall dimensions and weight<sup>(1)</sup></b>			
Length	mm	10,150	18,150
Width	mm	6,120	9,120
Height	mm	6,270	8,770
Weight	× 10 kN	60	170
<b>Machine tool accuracies</b>			
X-axis positioning accuracy Mar (L = 1,000 mm)	mm	0.020	
Y- and Z-axes positioning accuracy Mar (L = 1,000 mm)	mm	0.012	
X-axis positioning repeatability RPmax. (L = 1,000 mm)	mm	0.012	
Y- and Z-axes positioning repeatability RPmax. (L = 1,000 mm)	mm	0.008	
<small>(1) For standard execution of machine tool. Other parameters to be agreed upon.</small>			

Some of the above data can be altered to meet the customer requirements.  
Above data is subject to changes due to product development, without prior notice.