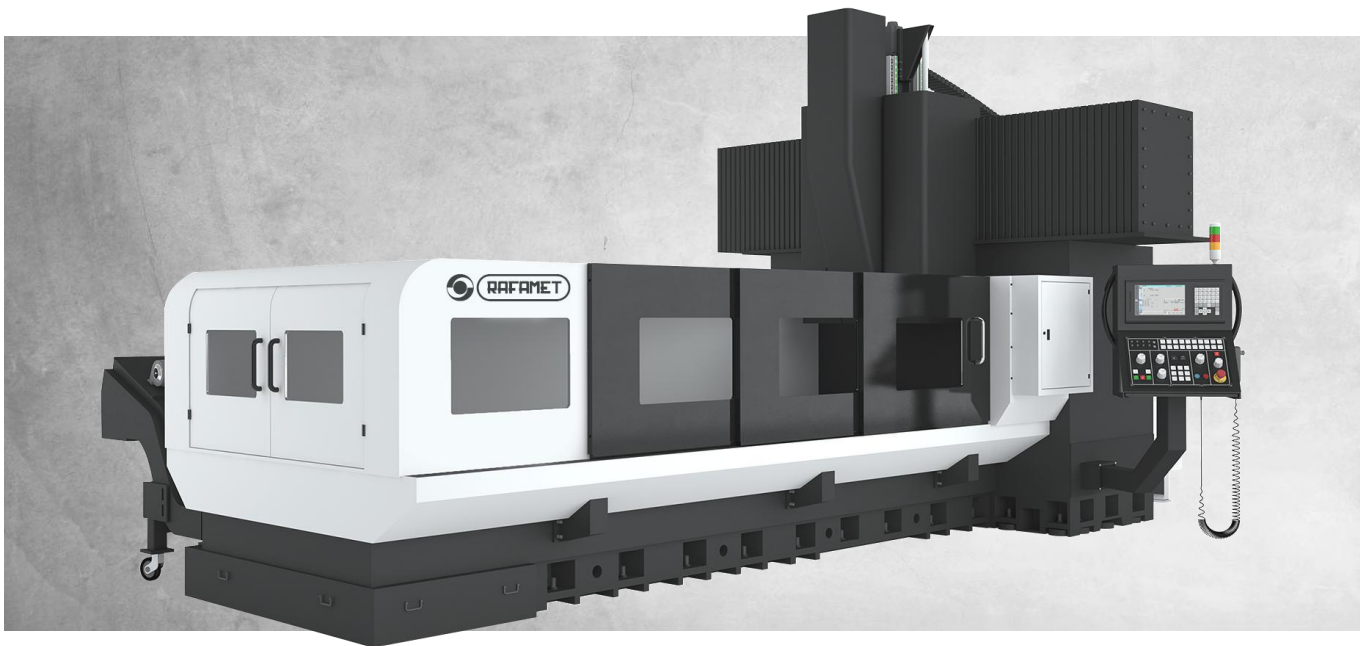


code: F-2

FBC Series

The FBC Series Milling Machines are the CNC Planer Mills designed for machining of the complex workpieces. They are capable of performing various operations like milling, drilling, reaming, boring and threading. The application of the CNC system provides automatic and productive machining controlled by technological program. The ram spindle and tool head are provided with SK-50 taper which enables automatic tool clamping and unclamping, as well as cooperating with tool magazine (optional).

Milling Machines



- Rigid and compact machine design - cast iron construction
- All movable assembly units travel along precise rolling guideways
- Fixed frame of machine tool with fixed cross-rail
- Movable table
- Four Z-axis guideways

STANDARD EQUIPMENT

- Heidenhain control system TNC 620
- Threading without compensation holder
- Handwheel
- Spindle with gear 20-4000 rpm
- Spindle blow-off system
- Tool air and liquid cooling system
- Data transmission USB + Fast Ethernet
- Manual guns for rinsing the working surface (water and air)
- Compressed air system
- Integrated chip conveyor - screw and belt

OPTIONAL EQUIPMENT

- Heidenhain TNC 640 / Siemens 828D / Fanuc 0iMF
- Direct-drive spindle
- Spindle cooling up to 50 bar
- Extension of Z-axis travel to 1400 mm
- Increased clearance under the beam up to 700 mm
- Tool magazine from 24 to 120 positions
- Heidenhain measuring scales
- Vertical or horizontal tool magazine
- Head magazine
- Possibility to mounting different heads
- Tool measuring probe
- Workpiece measuring probe

TECHNICAL SPECIFICATIONS		FBC 200 CNC	FBC 250 CNC	FBC 300 CNC	FBC 350 CNC	FBC 400 CNC
Table						
Width of table for workpiece clamping	mm	1700	2200	2700	3200	3700
Length of table for workpiece clamping	mm	2000 ^a 3000 ^b 4000 ^c	4000 ^d 6000 ^e	3000 ^f 4000 ^g 5000 ^h	6000	5000 ^j 6000 ^k
Table travel	mm	2200 ^a 3200 ^b 4200 ^c	4200 ^d 6200 ^e	3200 ^f 4200 ^g 5200 ^h	6200	5200 ^j 6200 ^k
Maximum weight of workpiece	×10 kN	5 ^a 8 ^b 12 ^c	15 ^d 25 ^e	12,5 ^f 17 ^g 20 ^h	30,5	25 ⁱ 30 ^k
Frame						
Clearance between columns	mm	2000	2500	3000	3500	4000
Distance between spindle face and table	mm	165-925 / 165-1165* / 270-1030* / 270-1270* / 270-1470* / 270-1670*				
Milling railhead						
Ram stroke	mm	760/ 1000* / 1200* / 1400*				
Rotation speed of spindle	rpm	20-4000 / 30-6000* / 80-8000* / 100-10000* / 12000-24000*				
Power of spindle	kW	18,5 (22)*				
Main drive		belt and ZF gearbox				
Clamping taper		SK 50				
Drive of axis						
Axis X / Y / Z		AC - digital drive				
Roller guides in the X/Y/Z axis	mm	65 / 65 /45				
Continuously variable feed rates of table (X), railhead (Y) and ram (Z axis)	mm/ min.	8/8/12 (10/10/12)* (12/12/15)* (15/15/15)*				
Machine tool overall dimensions and weight						
Length	mm	6210 ^a 8270 ^b 10270 ^c	10270 ^d 14270 ^e	8270 ^f 10270 ^g 12270 ^h	14270	12270 ⁱ 14270 ^k
Width	mm	5565	6065	6565	7065	7565
Height	mm	4250/4830* / 5510* /6110*				
Weight	kg	25500 ^a 31500 ^b 36500 ^c	42500 ^d 71500 ^e	36000 ^f 42500 ^g 61000 ^h	80500	67500 ⁱ 80500 ^k
Tool magazine (optional)						
Type		disc / chain*				
Number of tools	pcs.	24 / 32* /40* / 60*				
Max. tool diameter (adjacent free space)	mm	125 (210)				
Max. tool weight	mm	18 / 20				
Max. tool length	mm	350				
* – For optional execution of machine tool						

Some of the above data can be altered to meet the Customer requirements.
Above data are subject to change due to product development, without prior notice.