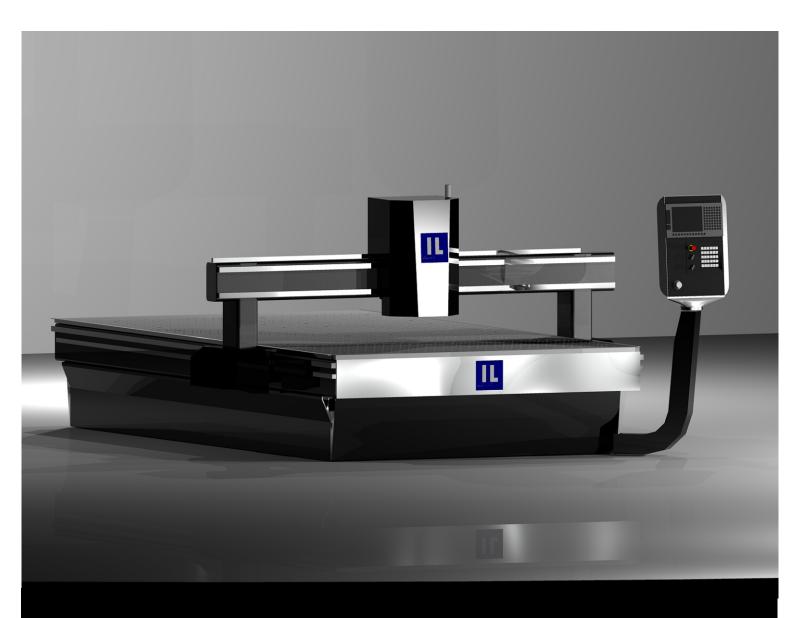


FX 2010 FX 2512 FX 3020 FX 4520

FX 6020

Portal Milling Machines FX Series



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FX Series Structure

High performance and productivity

The laminated profiles welded in argon gas offer benchmark for highest rigidity

Improved structure concept for X axis offer large clearance of work table.

Rigid Y-axis concept in whole range of travel

FEM-optimized design & construction

Precision in every component and detail

Thick 30 mm aluminum table

Vacuum system - Leybold rotary vane vacuum pum

Computerized vacuum field switching

Accuracy of positioning in all axes of 20 µm without linear scales.

Wittenstein transmission - 4 um class of precision with hardened surface

Speed up to 1.5 m/s, acceleration of 5.000 mm/s²

Improved ergonomics for easy handling and loading of heavy work-pieces

Huge table with 3100 x 2100 mm for cutting of large parts

Highlights

Maximum stiffness with welded laminated profiles

Precision and stability

Powerful drive system from Fanuc

FX Series Order List



T770	A 1	\mathbf{a}
FX2	() [()

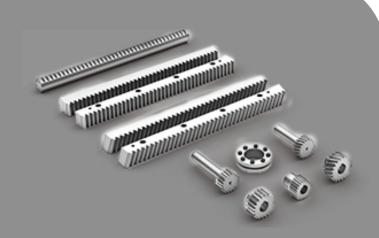
1 112010	
Max. X travels	2,050 mm
Max. Y travels	1,050 mm
FX 2512	
Max. X travels	2,550 mm
Max. Y travels	1,250 mm
FX 3020	
Max. X travels	3,100 mm
Max. Y travels	2,050 mm
FX 4520	
Max. X travels	4,600 mm
Max. Y travels	2,050 mm
FX 6020	
Max. X travels	6,100 mm
Max. Y travels	2,050 mm

FX Series Function

Transmission

Precision in all shapes and sizes

Perfect for high-performance drive units







FANUC



Servomotors

Fanuc alpha - made in Japan

High-precision encoder, 28 bits/revolution; $67 \ million \ ppr$

Max. rotational speed: 5000rpm

Low cogging torque

Quality



assured by hi-class brands

Linear

Precise, Reliable, Future-proof

20 um precision class

Quality offered by





Vacuum system

Powerful rotary vane vacuum pumps

Computerized control of the vacuum fields

cerlikon leybold vacuum





FX 3020

Technical Info - FX 3020

Work Area

Max. X travels	2100 mm
Max. Y travels	3000 mm
Max. Z travels	300 mm

Machine dimensions

Machine weight	6000 kg
Machine length	5000 mm
Machine width	2800 mm

Spindle

Standard HSD Es951 e-core	max. 25 KW
Tools magazine - standard 8 toolholders	
Automatic tool change, min. 24.000 rpm	

Rapid traverse

Max. X axis	90 m/min
Max. Y axis	90 m/min
Max. Z axis	90 m/min





Fanuc controller

Designed to be extremely user-friendly, FANUC's new iHMI makes operating CNC machines easy and efficient. The new panel is flat, features ergonomically positioned keys, completely redesigned hardware and a brand new user interface.

Conversational automatic programming function with process menu

Manual Guide and interactive programming

File display and note function for accessing operating instructions, drawings and texts

User – friendly operator guidance screen with clear machine status display

- * increase transfer speed up to 120 m/min
- * increase accuracy with nano metric technologies

Quality

made in Japan



