

FM-CNC8000 Flange Milling Machine

YouTube



Three-axis linkage Ultra-high precision

Some large hydropower project, the nuclear power project, oil engineering and offshore engineering projects always require large structure welding assembly on site, because the welding deformation will directly affect the fit precision of key parts. This FM-CNC8000 is customized by CFHI for the large flange plane milling at the scene. The equipment using three axis CNC system control, hydraulic drive main shaft, can complete the plane milling, seal groove processing, counterboring, etc

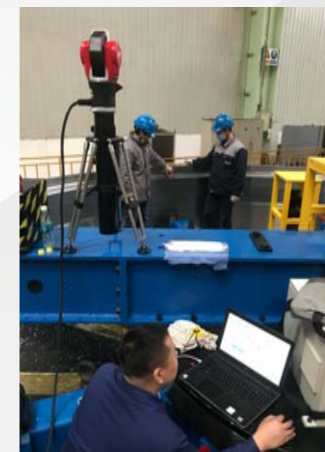
Features

- Adopt modular design, support legs and tool arm detachable, convenient storage and transportation, can be quickly assembled on site
- High precision preloading bearing, high rotation precision, ensure smooth processing process
- The chassis and support legs are equipped with radial and axial fine-tuning functions for accurate correction
- Can be installed horizontally, vertically and upside-down.
- Has mechanical and electrical safety locking function and is suitable for a variety of working conditions
- With the function of plane milling, counterboring, convex processing and seal groove machining
- Three-axis CNC feed system, can realize programming linkage, can accurately control the feed, precision 0.005mm
- The milling spindle is hydraulically driven and can work continuously for days
- Hydraulic station remote control and CNC panel control, more flexible and reliable

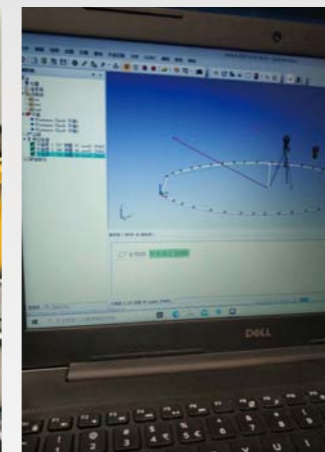
Specifications

Model	FM-CNC8000
Fixed Type	ID Mounted
Clamping Range	Dia. 3800-7800mm
Working Range	Dia. 4000-8000mm
X-axis Rotation Speed	RPM 0-1, Stepless
X-axis Rotation Power	3.0Kw Servo Motor
X-axis Feed	Automatically & Manually, CNC System
Y-axis Travel Stroke	550mm
Y-axis Feed	Automatically & Manually, CNC System, Can be fixed
Z-axis Travel Stroke	Single position: 220mm
Z-axis Rotation Power	1.0Kw
Z-axis Feed	Automatically & Manually, CNC System, Can be fixed
Hydraulic Station Power	11.0Kw
Cutter Dia.	200mm
Milling Depth	1mm
Repeated Positioning Accuracy	Y-axis $\leq 0.01\text{mm}$
	Z-axis $\leq 0.01\text{mm}$
Machining Linear Speed	500mm/Min
Roughness	Ra1.2
Flatness	Dia. 4000mm, 0.05mm
	Dia. 6000mm, 0.08mm

Machining Results- By API Laser tracker



Measured at 30 locations



Flatness: 0.08mm



Cylindrical Roughness: Ra1.4



Plane Roughness: Ra1.1

Nuclear Project Site - South-East China

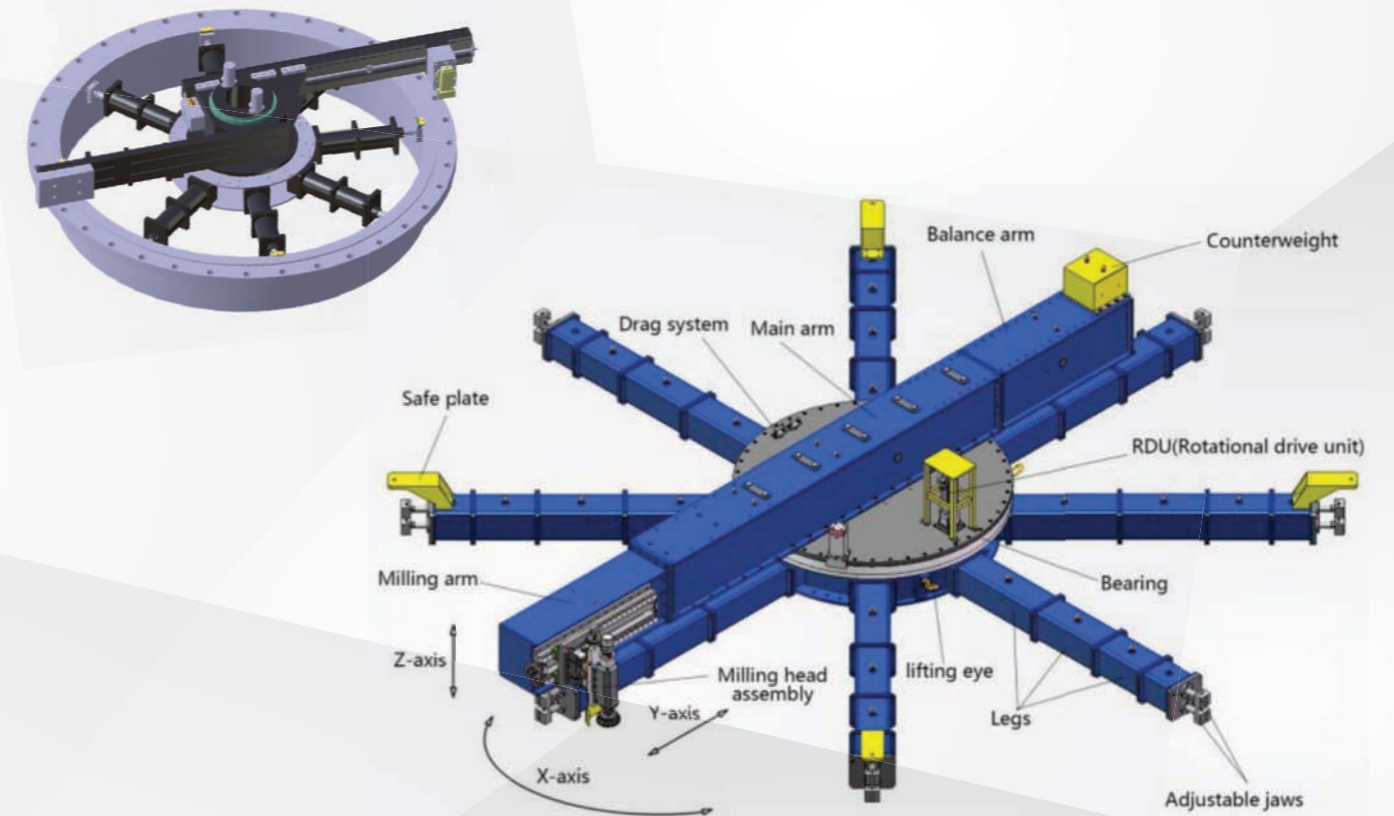


6M Circular milling machine for a Shipyard



Customize flange milling machine

Large size flange facing machines are not prepared for inventory as standard models. Nodha accepts size customization, such as 3-10 meters or larger flange circular milling machines.



Order Guide

Before you enquiry, please arrange the below information we need:

What's your application, is there any special conditions in the working area?

Please provide the drawing and pictures of the workpiece

What's the machining range expect?

What's the clamping range expect?

What's the flange material?

The driven type you want, hydraulic or electric servo motor

Surface finish requirements, roughness, flatness?

What's the expected delivery time?

Any other requirement?

Once we get the information above, Nodha will evaluate if can supply or not.