CNC Gear Hobbing Machine

This machine utilizes the generating method principle and an electronic gearbox within its CNC system. It is mainly used for machining high-precision spur gears, helical gears, turbines, drum gears, and splines, offering strong steel construction and stable precision for high-speed cutting.

ADDITIONAL IMAGES

Machine Overview

High-Precision CNC Gear Hobbing Solution

This CNC gear hobbing machine is engineered for high-rigidity and superior stability, featuring a double-wall cast iron base that ensures consistent accuracy. Equipped with advanced servo and direct-drive motor systems, it eliminates transmission errors while providing robust tool support for demanding machining tasks. Designed for both efficiency and durability, it includes automated tool channeling and rapid fallback protection to maximize productivity and safeguard equipment during operation.

Technical Performance

Machining Accuracy

6 GB/T 10095.1	1.6 Ra μm
Accuracy Grade	Surface Roughness

Hard Tooth Surface Machining	Yes

Design & Construction

Structural Highlights

- High-rigidity cast iron base with double-wall structure
- Direct-drive DD motor for work shaft (C axis)
- Servo motor direct-connected tool holder (B axis)
- Balanced cylinder and motor-starting tool feed drive

Operational Features

Automation & Safety	Automatic Tool Channeling, Fast Fallback Protection, Quantitative Oil Cooling, User-Friendly HMI