

Deep Hole Drilling Machine

This deep hole drilling machine utilizes a rack and pinion drive system. It can be equipped with Siemens or Fanuc CNC control and features half cover protection, with drilling capacity up to 100mm and boring up to 200mm to a depth of 12m.



Overview

High-Precision Deep Hole Drilling Solution

This industrial deep hole drilling machine is engineered for precision boring and drilling operations, featuring a robust construction capable of handling workpieces up to 12 meters in depth. Equipped with a Siemens 828D CNC system, it offers versatile control for both drilling and boring tasks with high accuracy, reaching up to IT6-7 precision for roller pressing applications. Its advanced coolant system and high-torque motor configurations ensure stable performance, making it an ideal choice for manufacturing aerospace components, hydraulic cylinders, and industrial molds.

Technical Specifications

Working Capacity

12 m Max Boring Depth	80 mm Max Drill Diameter	250 mm Max Boring Diameter	400 mm Center Height
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Motor Power Ratings

- Main Motor: 37kW
- Drill Motor: 22kW
- Feed Motor: 4.4kW
- Carriage Rapid Motor: 4.5kW
- Cooling Motor: 22kW (5.5kW x 4 groups)

Machining Precision

Process	IT Grade	Surface Roughness
Drilling	IT9-11	Ra12.5-6.3
Rough Boring	IT9-10	Ra6.3
Precise Boring	IT8-9	Ra3.2
Roller Pressing	IT6-7	Ra0.4-0.8

Coolant Parameters

Pressure: 2.5-4 MPa, Volume: 80/180/280/380 L/min

Machine Features

Key Systems

- Siemens 828D CNC Control System
- Double flat guideway (600mm width, HRC48-52)
- Germany MAYR torque limiter for feed protection
- Automatic lubrication for headstock and drill box
- 1400mm 4-jaw chuck