

# Deep Hole Drilling Machine

This deep hole drilling machine utilizes a rack and pinion drive system. It features CNC control and 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 Machine

This specialized deep hole drilling machine is engineered for exceptional accuracy and efficiency in demanding industrial applications. Equipped with a Siemens 828D CNC system and high-torque inverter motors, it offers versatile processing capabilities including drilling, boring, and roller pressing. Its robust design, featuring a 600mm wide guideway and integrated lubrication systems, ensures stable operation and superior surface finishes.

## Technical Specifications

### Drilling & Boring Capacity

<b>80 mm</b> Max Drill Diameter	<b>250 mm</b> Max Boring Diameter	<b>12 m</b> Max Boring Depth
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### Motor Specifications

Component	Power
Main Motor	37 kW
Drill Motor	22 kW
Feed Motor	4.4 kW
Carriage Rapid Motor	4.5 kW
Cooling Motor	5.5 kW x 4

### Operating Speeds

- Headstock Spindle Speed: 40-1200 r/min (3 shifts, infinite)
- Drill Box Speed: 0-1250 r/min (2 shifts, infinite)
- Feed Speed: 5-1000 mm/min (infinite)
- Carriage Rapid Speed: 2 m/min

## Precision Performance

### Precision Ratings

Process	Tolerance	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

## Cooling System

Cooling System

80 L/min, 180 L/min, 280 L/min, 380 L/min, 2.5 MPa, 4 MPa