

CNC Ring Rolling Machine

This CNC ring rolling machine is an advanced equipment mainly used for rolling rings. It can roll carbon steel, stainless steel, titanium alloy, copper alloy, aluminum alloy and high temperature alloy material ring parts.



Overview

Advanced CNC Ring Rolling Technology

The D53K series is an advanced CNC ring rolling machine designed for high-precision forming of metal rings, including bearing rings, gear rings, pipe flanges, and wheel hubs. Utilizing a robust industrial control system with Siemens S7-300 series PLC, it ensures stable, intelligent, and efficient operation. This versatile equipment supports a wide range of materials, from carbon and stainless steel to titanium and high-temperature alloys, making it ideal for demanding industrial manufacturing applications.

Capabilities

Primary Applications

- Bearing rings
- Gear rings
- Pipe flanges
- Wheel hubs
- Rotary supports
- Aircraft engine shells

Compatible Materials

Carbon Steel, Stainless Steel, Titanium Alloy, Copper Alloy, Aluminum Alloy, High Temperature Alloy

Technical Specifications

Model Specifications

Model Series	Outer Diameter (mm)	Height (mm)	Radial Force (kN)
D53-800	350-800	60-300	1250
D53-1600	350-1600	60-400	1250
D53-2000	500-2000	80-500	2000
D53-3000	500-3000	80-500	2000
D53-3500	500-3500	80-600	2500
D53-4000	500-4000	80-700	3150
D53-5000	500-5000	80-750	3150
D53-7000	500-7000	80-800	4000

Control System

Control Architecture

Siemens S7-300 PLC • Industrial PC • Windows Interface • Quick Bus Communication