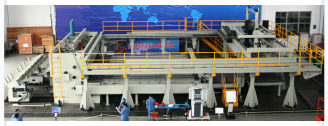
CNC Metal Shearing Center

This CNC metal shearing center is designed for automated metal sheet processing with high precision. It features a robust frame, advanced control system, and integrated material handling for efficient and accurate cutting.

ADDITIONAL IMAGES



Overview

High-Efficiency CNC Metal Shearing Center

The RD-QC11K-16×12000 is a large-scale CNC shearing center designed for full-automation and high-precision metal sheet processing. This integrated system manages the entire workflow from loading and plate inlet to shearing, stacking, and discharging with only a single operator required. It features advanced stress deformation compensation and flexible manufacturing capabilities, making it more precise than standard shearing machines for high-volume industrial environments.

Key Performance Metrics

Performance Metrics

16 mm	12000 mm	55 kW
Max Shearing Thickness	Max Shearing Length	Motor Power

Technical Specifications

Shear Angle	1.5-2.5°
Strokes	4 n/min
Back Gauge Range	20 ~ 800 mm
Overall Dimensions (L*W*H)	16880 * 13600 * 7150 mm

System Components

Integrated Systems

- Main shear machine
- Auxiliary sheet preparation trolley
- Electromagnetic chuck loading machine
- Front feeding system
- Plate end turnover mechanism
- Sheet supporting device
- Stacking and discharging trolley
- Hydraulic and electrical systems

Automation & Control

Automation Functions	Electromagnetic Loading, Automatic Feeding, Parallel Feeding, Beveling Feeding, Plate Turnover, Auto Sorting, Auto Stacking

Component Configuration

Main Component Configuration

Component	Origin/Type
CNC System	Siemens
Servo Motor & Frequency Converter	YASKAWA, Japan
Oil Pump	NACHI, Japan
Ball Screw	Hiwin, Taiwan
Electric Components	Schneider
Hydraulic Valves	Huade, Beijing

Operational Features

Precision Positioning

The front feeding system utilizes hydraulic clampers driven by servo motors and ball screws on linear guide rails. Three independent clamper units (X1, X2, X3) accommodate sheet lengths from 2000mm to 12000mm. It includes floating clampers to prevent plate camber deviation and side stopping columns for longitudinal positioning.

Power Requirements

Power Supply

380 Volts • 3 Phases • 50Hz