

Technical Specifications

Model: **Daimo-100S Precision Diamond Cutter**

Space	Table 0.6m x 0.6m x 0.6m (W, D, H) or more
Electric	Single phase, 220V, (User arrangement : 2m socket or less)
Coolant	N/A
Remark	Space of movement

Daimo-100S Precision Diamond Cutter

Daimo-100S is a diamond precision cutter for all material. A thermal damage does not proceed from a specimen surface, and the core feature has improved fine cutting. MS-100S can be used as touch screen to input a cut-off condition. The separated coolant supply method can keep the working space clean.

Features

- **Graphical design and usability using 5.6" Touch LCD**
- **Manual push switches for frequently used functions**
- **Power On/Off, Sleep mode (Power down, Logo display)**
- **Precision position control (Unit: 1 μ m)**
- **Motor auto calibration – RPM optimization**
- **Wheel spin direction set-up**
- **Automatic coolant supply using separated cooling pump**
- **Cut-off position automatic ZERO set-up from outset experiment**
- **Automatic experiment stops after a specimen cut-off completion**
- **BUZZER by applying On/Off**
- **Cover open detecting sensor**
- **Cumulative usage time display**



- **Set-point save and load (Maximum 5 storage space)**

1. Specification

- Size: 400mmW x 540mmD x 400mmH
- Electric: 220V, Single phase, 60Hz, 2A
- Wheel size (Arbor): 4, 5, 6, 7 inch (12.7mm, 1/2")
- Wheel speed: 100~1,000rpm (Unit step: 10rpm)
- Acrylic cover
- Cut-off completion detecting sensor
- Cover open detecting sensor
- Probable cut-off specimen size: 30φ (5" wheel usage), Maximum installation - 200mm or less
- Cut-off thickness control by unit step 0.001mm, Maximum 25mm
- Specimen grip: V notch basic grip
- Oil tank: 5liter
 - Rust-preventing cooling oil
 - Pump
 - Filter
- Control button: Touch screen type control panel
 - 32bit RISC ARM920T-266MHz
 - 5.6", TFT 4:3[640*480]
 - 65MB (OS-32MB/APP: 32MB)
 - Cut-off speed input using touch pad
 - Spin speed acceleration and retardation button
 - Buzzer after cut-off completion
 - Cut-off thickness display
- Gravity cut-off using weight

2. Service and Remark

- 1-year warranty
- Operation manual (1copy)
- Installation and education at the shipping place
- Tool for wheel change (Spanner, Pin)
- Wrench to mount specimen
- Tool box for storage
- Cut-off oil: 0.5liter/btl
- User order selection: Diamond wheel

Option Part

1. Plank cut-off jig (PCB, Metal)

- Specimen mounting device
- Specimen cut-off size control
- Aluminum plate & Anodizing



2. Low-capacity weight (200g)

- Material: S45C, Chromium plating
- Weight: 200g

3. High-capacity weight (800g)

- material: S45C, Chromium plating
- Weight: 800g

