

Technical Specifications

Model: **Kanta-100F Auto Abrasive Cutter**

Space	1.5m x 1m x 2m (W, D, H) or more
Electric	3 phases, 220V Electricity circuit breaker
Coolant	N/A
Remark	<ul style="list-style-type: none"> - Space of movement - Air facility for hydraulic/air vice (Offer by user)

Kanta-100F, Auto Abrasive Cutter

Kanta-100F is an exclusive cutting device for metallography using 10"/12" abrasive wheel for various materials such as metal, plastic, ceramic, composite material, etc. Kanta-100F has user convenience using LCD Touch screen and can be used as digital and manual type. Kanta-100F can also be changed as digital type for set-point saving and motor spin speed depending on the materials. The vice can be moved in full detail using a joystick for an accurate specimen setting, and the precision control motor cuts a specimen automatically.

Features

- **Optimum point of cutting to mount a specimen quickly & accurately using automatic vice**
- **User convenience control using 5.6" TFT LCD Touch screen**
- **Memory setting & saving (Cut-off speed, Oil, Lamp On/Off, Acceleration & Retardation time, Cut-off load, etc.)**
- **Maximized transparent glass on the upper and front side to observe the blade part**
- **Automatic cutting using high precision servo motor**
- **Emergency stop for user safety**
- **Digital type control for motor spin speed**
- **ALC (Automatic Load Control)**
- **Stage moving for user convenience using joystick**

1. Frame Specification

- Electric: 220 V, 60Hz, 3 phases, 15A
- Motor: SIEMENS waterproof motor 2.2kW
- Emergency stop button
- Wheel spin: Max. 3,500RPM (Digital type control)
- Wheel size: 10, 12"
- Standalone type
- Automatic door lock
- Large transparent & tempered polycarbonate cover
- Sliding type front door
- ALC (Automatic Load Control)
- Color LED lamp to observe process
- One touch vice
- Slanted base frame lean for good drainage
- Cutting size: Plank - 150mmW x 100mmL, Rod - 80mm (10" standard)



2. Specimen Lock-up Table

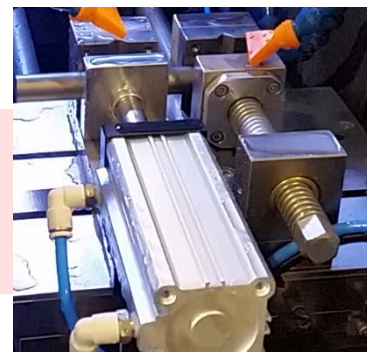
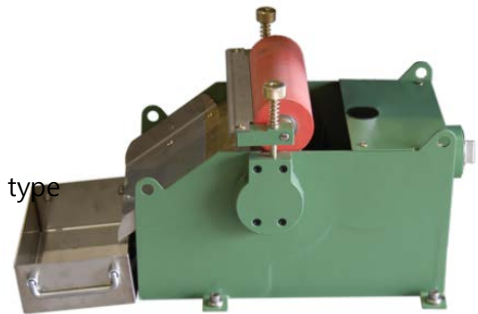
- 4-ways movement and lock-up vice
- T-slot bed
- 4-way rotation vice head
- Stage Y-axis automatic control
- Y-axis speed range: 0.005 ~ 5mm/sec(0.005 mm/step)
- Y-axis stroke: 250mm



3. Digital Controller

- Control panel: 5.6" TFT LCD Touch screen(640x480)
- Data base: 5 storage space
- X, Y-axis moving position setting (Option: X-axis)
- Joystick position movement
- Joystick high & low speed setting
- Joystick high & low control button
- Touch button: START, STOP, Coolant On/Off,

- Sleep mode (Power down, Logo display)
- Automatic breaker: Cut off completion, Cover open
- Automatic set-point saving
- Start/Stop, Coolant, LED lamp On/Off
- Specimen setup and setup value saving
- Cut off condition setting and saving according to specimen type
- Manual spin & cutting speed setting
- Trouble and error display
- Automatic sequential cutting on a cycle by cycle cutting control (X-axis automatic selection)
- Feeding rate control
- Automatic load adjustment
- Spin speed: 4 Digit digital
- Cut off position: Digital display (Minimum unit: 0.001mm)
- Emergency stop



4. Service and Remark

- 1 year warranty
- Operation manual (1copy)
- Installation and education at the shipping place (3 hours)
- Coolant oil and tool(Spanner, Fixture stick, Wrench, Tool box)

Option Part

1. Cooling device and Foreign substance separator

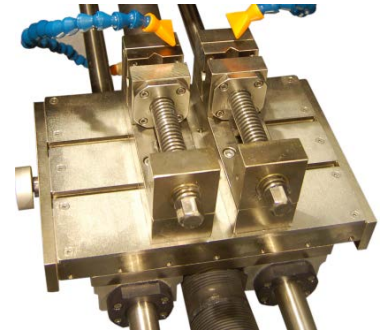
- High pressure coolant pump (Discharge: 40 Liter/min)
- Forced circulation
- Sludge removal filter
- Steel scrap removal using permanent magnet
- Internal outlet line

2. Air grip vice (User arrangement: Air supply system)

- 2 air cylinder each
- 2 air solenoid valve each
- Air switch installation
- Maximum force: 80kg

3. Hydraulic vice (User arrangement: Air supply system)

- 2 air cylinder each
- 2 air solenoid valve each
- Air-Hydraulic booster installation
- Lock / Unlocking switches installation
- Maximum force: 500kg



4. Automatic cleaning

- Automatic cleaning using water splash
- Cleaning capacity: 40 Liter/min
- Cleaning range: Horizontal – 360degree, Rostro caudal – 240degree



5. Stage X-axis automatic control

- X- axis moving range: 50mm
- X-axis speed range: 0.005 ~ 500mm/min
- Motor: 100W Servo motor
- Control accuracy: 0.01mm
- Continuous cut-off range: Maximum 50mm, Unlimited amount

6. Stage X-axis manual control

- X-axis moving distance: 50mm
- X-axis speed range: 0.005 ~ 500mm/min
- Manual handle control
- Control display accuracy: 1mm gradation seal

7. 3-color light bar to check out operation

- Green light: Standby
- Red light: Operating
- Orange light: Occurrence of malfunction