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## Tool metallography MU500

Release date : 2020-11-13

The measuring platform made of granite and the marble gantry structure have four cushions between the marble and the base to achieve the anti-seismic effect. High precision manual grinding guide rail, maximum load-bearing workpiece weight: 50 Kg.

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## Tool metallographic microscope technical specification

### MU500



## 1.Summary of the equipment

### 1.1 Optical Part:

Professional differential interference optical head is used.  
Multilayer coating technology ensures clarity.

Light path and high power objective lens observation;  
It is equipped with LED surface light and bottom light.

1.2 Host part:

The measuring platform made of granite and the marble gantry structure have four cushions between the marble and the base to achieve the anti-seismic effect. High precision manual grinding guide rail, maximum load-bearing workpiece weight: 50 Kg.t

Measuring Range:

X-axis: 300 mm

Y-axis: 200 mm

Z-axis: 200 mm

X/Y measurement accuracy  $1.5\mu\text{m}+L/150$ , Z axis measurement accuracy  $1.0\mu\text{m}+L/150$

The whole machine runs without water and gas and requires 220V voltage.

## **2. Hardware description**

Instrument Main Body 仪

Marble base, column, work table

Transmission System

Precision Grinding of C3 ball screw

Sport Guide

Guide of silver

Optical calibrator

Special custom

Monitor

21.5 " liquid crystal display

Keyboard / mouse

Optoelectronic package

Instrument table

Customized

Dust cover

Customized

User 's Manual  
Sharpscope 3D special

3. Equipment configuration list:

| The specific configuration is as follows |  |   |            |  |
|--|--|---|------------|--|
| 1  | MU-500 Coarse and Precise Focus Unit                             | 1 | Set of     |  |
| 2  | 300x200mm Precise Stsge  | 1 | individual |  |
| 3  | U-Bracket Mount LV   | 1 | individual |  |
| 4  | LV-TI 3 Trinocular Eyepiece Tube                                 | 1 | Set of     |  |
| 5  | Quadruple Nosepiece,For 5 sets of Objectives                     | 1 | Set of     |  |
| 6  | Eyepiece CFI 10x   | 1 | pair       |  |
| 7  | 5W LED Point Ligte built-inTransformer for piscopic Illumination | 2 | individual |  |
| 8  | F-P Simple Polarizign Unit (For Episcopic Illumination)          | 1 | Set of     |  |
| 9  | DIC Prism  | 1 | Set of     |  |
| 10                                       | Power Supply (220V)  | 1 | individual |  |

|    |   |   |            |  |
|----|---|---|------------|--|
| 11 | .Photo Adapter                            | 1 | individual |  |
| 12 | Axle counter                              | 1 | individual |  |
| 13 | DS-Vil Color Camera Head                  | 1 | individual |  |
| 14 | Measuring software measures accuracy0.1um | 1 | Set of     |  |
| 15 | M Plan Apo HL 5X                          | 1 | individual |  |
| 16 | M Plan Apo HL 10X                         | 1 | individual |  |
| 17 | M Plan Apo HL 20X                         | 1 | individual |  |
| 18 | M Plan Apo HL 50X                         | 1 | individual |  |
| 19 | 21.5 "HD display                          | 1 | platform   |  |
| 20 | DS Camera I/F Cable 20-26                 | 1 | root       |  |
| 21 | USB A TO B CABLE                          | 1 | root       |  |
| 22 | POWER CORD                                | 3 | root       |  |

### ≡. Other spare parts

1. Dust-proof cover 1 piece
2. Software Instructions 1
3. User Manual 1

### 4. Environmental requirements

- (1) The working table for the instrument should be firm, reliable and not shake (provided by the supplier);
- (2) The location should be far away from all kinds of seismic sources (the location will not affect, the machine itself has shock pads, as long as it is not near the source with obvious earthquake
- (3) The ambient temperature is maintained at 20 ~25 C, and the relative humidity is less than 75%.
- (4) Placement environment should be superior to the International Class 8 Dustproof Room Standard. ;
- (5) 供 The power supply must have grounding protection with resistance less than 4 ;
- (6) The equipment needs to be connected to 220V+10%(AC) 50Hz equipment, which has no requirement for water and gas.。

## **5.Handling and Installation Measures**

- (1) We are responsible for transporting the equipment to the designated place of the customer and carrying out installation and debugging. Customers are responsible for providing necessary installation and handling requirements. For example: floor fork, electric forklift, assistant, etc. ;
- (2) Operations shall be carried out in strict accordance with the requirements of our technicians. In case of equipment damage caused by irregular operations (not included in the replacement parts), the company shall be responsible for maintenance, but shall not bear any responsibility ;
- (3) Our technicians will adjust the level of instruments, install and debug software, install various video cards and install encrypted dogs during the installation process ;
- (4) Our technicians will correct X-axis, Y-axis and Z-axis after installation, and then finish installation ;
- (5) After the installation of the equipment is completed, the platform shall not be moved at will without notice to us.。

## **6. Training Program and Service Guarantee**

### (1) Training content

Understand the hardware names and functions of the equipment ;

Notes for routine use ;

Software function and operation ;

Solutions to common problems.

### (2) After-sales service

① Free upgrade of the same version software within three years ;

② The equipment is guaranteed for 12 months, and the maintenance of spare parts without replacement is free for 12 months ;

③ Any questions about the equipment will be answered within 2 hours after receiving calls from customers and will arrive at the scene within 24 hours when the calls cannot be solved.

④ If there is a change in your company's users, we will conduct new operation training free of charge.

## **7. Duties of both Sellers and Buyers**

(1) We are responsible for the transportation, installation and commissioning of the equipment; the buyer is responsible for forklift trucks and other devices necessary for the equipment to be moved in ;

(2) We are responsible for the use of equipment and training of common problem solving; the buyer is responsible for arranging and restraining the use of personnel to listen carefully ;

(3) We are responsible for after-sales service and question answering, and the buyer is responsible for restraining users from illegal operations ;

(4) We are responsible for free software upgrade within three years (with version updates).

## 8. Confirmation of patent authority

If patent infringement occurs, Maker accepts full liability for any direct and indirect loss of customer. Additionally, in case of patent dispute, Maker guarantees continuous use (operation) of the system equipment provided by Maker.

## Recommended

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Automatic tool metallographic measuring instrument V400

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Automatic tool metallographic measuring instrument V800

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Automatic tool metallographic measuring instrument V1800

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Automatic tool metallographic measuring instrument V2000

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