

HST101-AW Binocular Inverted Metallurgical Microscope



HST Group Co.,LTD.

Development Base of Advanced Testing Machine Of China

Introduction

This device is a kind of inverted type optical microscope. Due to the surface of specimen to be observed coinciding with the table surface, it has no limit to the height of specimen. It features convenient operation, compact structure and elegant appearance. The equipment base has large supporting area and the arm bend is strong which makes the gravity of equipment lower, thus it can be placed stably and reliably. There is a 45 ° tilt angle between the eyepiece and supporting surface, and this make it comfortable to observe.

This device is used to identify and analyze the organizational structure of all kinds of metals and alloy materials. It can be widely used in factories and laboratories to verify the quality of casting, to inspect the raw material and analyze the metallographic organization of material after treatment, and to do some research work for surface spraying etc. This equipment can be equipped with photographic device to proceed photomicrography.

Observation system The supporting area of the instrument base is large, and the curved arm is firm, so that the center of gravity of the instrument is low and stable and reliable. Because the eyepiece and the supporting surface are inclined at 45°, the observation is comfortable.	
Mechanical stage Mechanically moving stage with built-in rotatable circular stage plate. There are two types of trays, with inner hole $\phi 10\text{mm}$ and $\phi 20\text{mm}$.	
Lighting system Adopt Kohler lighting system, with variable light bar, 6V20W halogen lamp lighting, adjustable brightness. AC 220V (50Hz).	

2. Main Specifications

Standard configuration		Model
Item	Specification	HST101-A
Optical system	Infinity Optical System	●
observation tube	Binocular tube, 45° inclined.	●
Eyepiece	Flat field eyepiece WF10X($\phi 18\text{mm}$)	●
	Flat field eyepiece WF12.5X($\phi 15\text{mm}$)	●
Objective lens	Achromatic Objective 10X/0.25/WD7.31mm	●
	Semi-plan achromatic objective 40X/0.65/WD0.66mm	●
	Achromatic objective 100X/1.25/WD0.37mm (oil)	●
Converter	Four-hole converter	●
Focusing mechanism	Adjustment range: 25mm, scale grid value: 0.002mm	●
Stage	Double-layer mechanical mobile type (size: 180mmX200mm, moving range: 50mmX70mm)	●
Lighting system	6V 20W halogen lamp, brightness adjustable	●

Color filter	Yellow filter, Green filter, Blue filter	●
Metallographic Analysis System	FMIA2023 genuine metallographic analysis software, micrometer	●
Camera	5 million Sony chip camera device, 0.5X adapter lens interface.	●
Optional configuration		
Item	Specification	
Eyepiece	Flat field eyepiece WF10X(Φ18mm) with cross differentiation ruler	O
Computer	HP	O



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