

HST102-A Trinocular Inverted Metallurgical Microscope



HST Group Co.,LTD.

Development Base of Advanced Testing Machine Of China

Introduction

The HST102-A Inverted metallographic microscopes are used to identify and analyze the combined structures of various metals and alloy materials. They are widely used in factories or laboratories for identification of casting quality, inspection of raw materials or metallographic structure analysis after material processing, and surface spraying, etc. Conduct research on some surface phenomena; it is an effective means for metallographic analysis of steel, non-ferrous metal materials, castings, coatings, petrographic analysis of geology, and microscopic research on compounds, ceramics, etc. in the industrial field.

Focusing mechanism It adopts a bottom-hand position coarse and fine adjustment coaxial focusing mechanism, which can be adjusted on both left and right sides. The fine adjustment accuracy is high, and manual adjustment is simple and convenient. Users can easily obtain clear and comfortable images. The coarse adjustment stroke is 38mm, and the fine adjustment accuracy is 0.002mm.	
Mechanical mobile platform It adopts a large size platform of 180×155mm and is set in the right hand position, which is in line with the operating habits of ordinary people. During user operation, it is convenient to switch between the focusing mechanism and platform movement, providing users with a more efficient working environment.	
Lighting system The epi-illumination Kolar lighting system has a variable aperture diaphragm and a central adjustable field diaphragm, using an adaptive wide voltage 100V-240V, 5W high brightness, LED lighting or 6V30 halogen lamp.	

Main Specifications

Standard configuration		Model
Item	Specification	HST102-A
Optical system	Finite chromatic aberration optical system	Included
Observation tube	45° tilt, trinocular observation tube, interpupillary distance adjustment range: 54-75mm, split ratio: 80:20	Included
Eyepiece	High eye point and large field of view plan eyepiece PL10X/18mm	Included
Objective lens (long distance plan achromatic objective lens)	LMPL5X/0.13WD15.5mm	Included
	LMPL10X/0.25WD8.7mm	Included
	LMPL20X/0.40WD8.8mm	Included
	LMPL50X/0.60WD5.1mm	Included
Converter	Internally positioned four-hole converter	Included
Focusing mechanism	Low hand position coarse and fine adjustment coaxial focusing mechanism, coarse motion stroke per revolution 38 mm; fine adjustment accuracy 0.002mm	Included
Stage	Three-layer mechanical mobile platform, area 180mmX155mm, controlled by the lower hand of the	Included

	right hand, Stroke: 75mm×40mm	
Work surface	Metal stage plate (center hole Φ12mm)	Included
Lighting system	Epi-illuminated Kolar lighting system, with variable aperture diaphragm and center-adjustable field diaphragm, adaptive wide voltage 100V-240V, single 5W warm LED light (color temperature 2850K-3250K), continuously adjustable light intensity	Included
Optional configuration		
Item	Specification	
Eyepiece	High eye point, large field of view plan eyepiece PL10X/18mm, can be equipped with a micrometer	O
	High eye point, wide field of view eyepiece WF15X/13mm, can be equipped with a micrometer	O
	High eye point and wide field of view eyepiece WF20X/10mm	O
Objective lens	LMPL100X/0.80 WD2.00mm	O
Converter	Internally positioned five-hole converter	O
Lighting system	Epi-illumination Kolar lighting system, with variable aperture diaphragm and center-adjustable field diaphragm, adaptive wide voltage 100V-240V, 6V30W halogen lamp, continuously adjustable light intensity	O
Polarizing accessories	Polarizer insert plate, fixed analyzer insert plate, 360° rotating analyzer insert plate	O
Metallographic analysis system	FMIA2023 genuine metallographic analysis software, micrometer.	O
Camera device	5 million, 6.3 million, 12 million and other pixel Sony chip camera devices.	O
Adapter mirror interface	0.5X adapter mirror interface	
Computer	HP Business Jet	O



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