

HST601M Research Grade Metallographic Microscope



HST Group Co.,LTD.

Development Base of Advanced Testing Machine Of China

Application

All operations of HST601M are designed according to ergonomics to minimize operator fatigue. Its modular component design allows for free combination of system functions. Covering a variety of observation functions such as bright field, dark field, oblique illumination, polarization, DIC differential interference, etc., the functions can be selected according to the actual application.

Wide field of view hinged trinocular observation tube

With the positive hinge trinocular observation tube, the imaged orientation is the same as the actual direction of the object, and the moving direction of the object is the same as the moving direction of the image plane, making it easy to observe and operate.

Large stroke mobile platform design

Using a 4-inch platform design, it can be used for wafer or FPD inspection of corresponding sizes, and can also be used for array inspection of small-size samples.

High-precision nosepiece

The converter adopts precision bearing design, which makes the rotation feel light and comfortable, and has high repeatability positioning accuracy. The concentricity of the objective lens after conversion is also well controlled.

Safe and stable rack structure design

Industrial inspection-grade microscope body, low center of gravity, high rigidity, and high stability metal frame ensure the system's earthquake resistance and imaging stability.

Its front low-hand position coarse and fine adjustment coaxial focusing mechanism has a built-in 100-240V wide voltage transformer, which can adapt to the power grid voltage in different regions. The base is designed with an air circulation cooling system, which will prevent the rack from overheating after long-term use.

Technology Parameter:

Standard configuration		Model
Item	Specification	HST601M
Optical system	Infinity chromatic aberration correction optical system	Included
Observation tube	30° tilt, inverted image, infinity hinged three-way observation tube, interpupillary distance adjustment: 50-76mm, three-speed split ratio 0:100; 20:80; 100:0	Included
Eyepiece	High eye point and large field of view plan eyepiece PL10X/22mm	Included
Objective lens	Infinity long distance bright and dark field objective lens: LMPL5X/0.15BD DIC WD9.0	Included
	Infinity long distance bright and dark field objective lens: LMPL10X/0.30BD DIC WD9.0	Included
	Infinity long distance bright and dark field objective lens: LMPL20X/0.45BD DIC WD3.4	Included
	Infinity long distance light and dark semi-apochromatic objective lens: LMPLFL50X/0.55 BD WD7.5	Included
Converter	Internally positioned five-hole brightfield converter with DIC slot	Included
Focusing rack	Transparent and reflective frame, front low hand position coarse and micro coaxial focusing mechanism. The coarse adjustment stroke is 33mm, and the fine adjustment accuracy is 0.001mm. It has an adjustable elastic device to prevent sliding and a random upper limit device. It has a built-in 100-240V wide voltage system, 12V100W halogen lamp, transmitted light lighting system, and the upper and lower lights are independently controllable.	Included
Stage	4" double-layer mechanical mobile platform, platform area 230X215mm, stroke 105x 105mm, with glass platform, right-hand X and Y moving handwheel, equipped with platform interface	Included

Lighting system	Bright and dark field reflection illuminator, with variable aperture diaphragm, field diaphragm, center adjustable; with bright and dark field lighting switching device; with color filter slot and polarizing device slot	Included
Polarizing accessories	Polarizer insert plate, fixed analyzer insert plate, 360° rotating analyzer insert plate.	Included
Optional configuration		
Item	Specification	
Metallographic analysis software	Metallographic analysis system, 12-megapixel Sony chip camera device USB3.0, 0.5X adapter mirror interface, high-precision micrometer.	O
Observation tube	30° tilt, erect image, infinity hinged three-way observation tube, interpupillary distance adjustment: 50-76mm, split ratio 100:0 or 0:100	O
	5-35° tilt angle adjustable, erect image, infinity hinged three-way observation tube, interpupillary distance adjustment: 50-76mm, unilateral diopter adjustment: ± 5 diopters, two-speed split ratio 100:0 or 0:100 (supported 22/23/16mm field of view)	O
Eyepiece	High eye point, wide field plan eyepiece PL10X/23mm, adjustable diopter	O
	High eye point, wide field plan eyepiece PL15X/16mm, adjustable diopter	O
Objective lens	Infinity long distance light and dark semi-apochromatic objective lens: LMPLFL100X/0.80 BD WD2.1	O
Differential interference	DIC Differential Interference Component	O
Camera device	20-megapixel Sony chip camera device USB3.0, 1X adapter interface	O
Computer	HP Business Jet	O