Inverted Metallurgical Microscope - Binocular Metallographic Microscope - 10X-100X LWD, WF10X/18

Model **MSMSC-M4XCSWISS** | Brand **Master Science**









The Master Science Inverted Metallurgical Microscope is a compact metallographic stand with a finite distance optical system and long working distance plan objectives from 10X to 100X. The optical coating gives a transmittance of at least 95%, and the 10X eyepiece carries a cross-hair scale for measurement.

KEY HIGHLIGHTS

- Flat samples sit face-down
- Bright, clear image
- Measure as you view
- Polarized light built in
- Room to grow

Request a Quotation
Contact us for pricing, configuration options and delivery details.

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Overview

A polarizer and analyzer plus green, blue and yellow filters are part of the illumination system of the Master Science Inverted Metallurgical Microscope. Higher-power objectives, a quintuple nosepiece, a photo/video attachment and grain size analysis software can be added as options.

For LED illumination and semi-apochromatic objectives, see the Master Science LED inverted metallurgical microscope.

Key Benefits

Flat samples sit face-down
: the Master Science Inverted Metallurgical Microscope views the specimen from below the stage.

Bright, clear image
: optical coating with at least 95% transmittance.

Measure as you view
: eyepiece with cross-hair scale.

Polarized light built in
: polarizer and analyzer supplied.

Room to grow
: optional objectives, camera attachment and grain size software.

Technical Specifications

GENERAL

General	Specifications of the Master Science Inverted Metallurgical Microscope are given below.
Brand	Master Science
Model Number	MSMSC-M4XCSWISS
SKU	MSMSC-M4XCSWISS
Observation Tube	Tilting binocular, interpupillary distance 55-75 mm
Viewing Head	Siedentopf head, inclined at 30°
Eyepiece	WF10X/18 mm, with cross-hair scale
Objectives (standard)	PL L10X/0.25, LWD 8.9 mm; PL L20X/0.40, LWD 3.75 mm; PL L40X/0.60, LWD 2.69 mm; SPL 100X/0.90, LWD 0.44 mm
Objectives (optional)	PL L50X/0.70, LWD 2.02 mm; PL L60X/0.75, LWD 1.34 mm; PL L80X/0.80, LWD 0.96 mm; PL L100X/0.85, LWD 0.4 mm
Nosepiece	Backward quadruple; backward quintuple (optional)
Stage	Double-layer mechanical stage, 180 x 150 mm; moving range 15 x 15 mm
Focusing	Coaxial coarse and fine adjustment, fine division 2 µm
Illumination System	6V/20W halogen light, adjustable brightness; polarizer and analyzer; green, blue and yellow filters
Power Supply	100-240 V AC, 50/60 Hz

OPTICAL PERFORMANCE

Optics	Finite distance optical system
Optical Coating	Transmittance ≥95%

COMMON PROBLEMS THIS MICROSCOPE SOLVES

Common Problems This Microscope Solves	Routine metallography brings a few recurring obstacles.
No scale in the field of view	: the cross-hair eyepiece provides one.
Structures look alike in plain light	: the polarizer and analyzer add contrast.
Results cannot be recorded	: an optional photo/video attachment is available.

DIMENSIONS & WEIGHT

Grain size judged by eye	: optional software performs the analysis.

Applications

The Master Science Inverted Metallurgical Microscope is used for: Metallographic structure examination Grain size analysis with the optional software Materials quality control Teaching and research laboratories

Optics

- Finite distance optical system
- Long working distance plan objectives
- Optical coating with transmittance of 95% or more
- WF10X/18 mm eyepiece with cross-hair scale

Stand and Illumination

- Tilting binocular Siedentopf head inclined at 30°
- Double-layer mechanical stage
- Coaxial coarse and fine focusing with 2 µm fine division
- 6V/20W halogen lamp with adjustable brightness
- Polarizer, analyzer and green, blue and yellow filters

Optional Accessories

- PL L50X, 60X, 80X and 100X objectives
- Backward quintuple nosepiece
- Grain size analysis software
- Photo/video attachment
- Micrometer scale 0.01 mm
- Fluorescent attachment