Polarizing Microscope - Binocular Transmitted Light Microscope with Rotating Stage - 4X-100X, 6V/20W

Model **MSMSC-P20MSWISS** | Brand **Master Science**





The Master Science Polarizing Microscope is a transmitted-light instrument for studying birefringent specimens. A polarizer that turns through 360° sits below the stage and a sliding analyzer above the objectives, while the φ120 mm circular stage rotates to bring the specimen into different orientations.

KEY HIGHLIGHTS

- Made for polarized light
- Specimen orientation at will
- Broad, sharp field
- Precise focus
- Slide protection

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

support@themsci.com
www.themsci.com

Scan to view online

Overview

Wide-field eyepieces and achromatic objectives from 4X to 100X give the Master Science Polarizing Microscope a broad, sharp field of view. Light comes from a 6V/20W halogen lamp with adjustable brightness.

For reflected-light study of opaque materials, see the Master Science trinocular metallurgical microscope.

Key Benefits

Made for polarized light
: the Master Science Polarizing Microscope has a rotating polarizer and sliding analyzer.

Specimen orientation at will
: φ120 mm rotating stage.

Broad, sharp field
: wide-field eyepieces with achromatic objectives.

Precise focus
: 2 µm fine graduation with tension control.

Slide protection
: limit locking device on the focus.

Technical Specifications

GENERAL	
General	Specifications of the Master Science Polarizing Microscope are given below.
Brand	Master Science
Model Number	MSMSC-P20MSWISS
SKU	MSMSC-P20MSWISS
Eyepiece	Wide-field WF10X (φ18 mm)
Objectives	Achromatic 4X/0.10; 10X/0.25; 40X/0.65 (spring); 100X/1.25 (spring, oil)
Viewing Head	Binocular, inclined at 30°; trinocular (optional)
Analyzer	Sliding
Focusing System	Coaxial coarse and fine focusing with tension adjustment and limit locking device; fine focusing graduation 2 µm
Nosepiece	Inward-facing quadruple nosepiece, ball-bearing positioning
Stage	Rotating stage, φ120 mm
Condenser	Abbe condenser, N.A. 1.25, rack and pinion vertical adjustment
Filters	Blue filter; frosted glass
Polarizer	360° rotatable
Collector	For halogen lamp illumination
Illumination	6V/20W halogen lamp, adjustable brightness

COMMON PROBLEMS THIS MICROSCOPE SOLVES	
Common Problems This Microscope Solves	Polarized light work asks for things an ordinary microscope lacks.
Specimen must be turned to see extinction	: the circular stage rotates under the objective.
Analyzer needed only part of the time	: it slides in and out of the light path.
Focus slips during long observation	: tension adjustment keeps it steady.
Objective crashes into the slide	: spring-loaded 40X and 100X objectives and a limit lock guard against it.

Applications

The Master Science Polarizing Microscope is suitable for polarized light observation in: Geology and mineralogy thin sections Crystals, fibres and polymers Chemical and pharmaceutical crystal studies Teaching laboratories

Optics

- Wide-field eyepieces and achromatic objectives for a broad and sharp field of view
- Sliding analyzer and 360° rotatable polarizer
- Abbe condenser N.A. 1.25 with rack and pinion height adjustment

Mechanics and Illumination

- Coaxial coarse and fine focusing with tension adjustment and limit locking device
- Fine focusing graduation of 2 µm
- Inward-facing quadruple nosepiece with ball-bearing positioning
- 6V/20W halogen transmitted illumination with adjustable brightness

Optional Accessories

- Trinocular head