



MICROSCOPY

Microscopy, analysis of features or microstructures, and other analytical testing is usually performed on specimens once they have been sectioned, mounted, and prepared with suitable grinding and polishing steps to reveal the features of interest. In general, the type of information that is of interest will dictate the type of microscope that will be most suitable for the application.

Microscopes offered by Buehler generally fall into the categories of stereo microscopes, upright microscopes, or inverted microscopes. Inverted microscopes are commonly referred to as metallurgical microscopes. Microscopes may offer episcopic (reflected light) observation, diascopic (transmitted light) observation, or both possibilities. Illumination may be delivered in bright field mode (BF) or dark field mode (DF), and several techniques such as differential interference contrast (DIC) and polarized light microscopy make use of the nature of light to reveal specific pieces of information when studying materials.

STEREO MICROSCOPES

Nikon SMZ800 Zoom Stereo Microscope



- Ideal for inspection use with a wide range of stands and illumination possibilities
- 6.3:1 zoom ratio
- 5x - 378x magnification
- Coaxial illumination available for metallographic specimens
- Available with 0.5x objective for welding applications.
- Variety of stands, digital imaging and other accessories are available

Nikon microscopes are available in the Americas and United Kingdom ONLY. Contact your local Buehler® Representative for products available in other regions.



Part Number	Configuration	Region*
0708-50010SA [†]	Nikon SMZ800 on plain stand, 10x eyepieces, 1x objective (does not include an illuminator)	1, 4
0708-50005SA [†]	Nikon SMZ800 on plain stand, 10x eyepieces, 0.5x objective (does not include an illuminator)	1, 4

*Refer to regional maps in footer for product availability
[†] Add "SA" to part numbers for ordering in South America

Accessories

- | | | | |
|--------------------------|--|--------------------------------------|---|
| 0708-3440SA [†] | P-IBSS2 single port beam splitter (accepts 0710-2125 or 0706-0150) | 0706-0176SA [†] | C-mount ISO adapter 1x (requires 0706-0150) |
| 0710-2125SA [†] | C-mount adapter 0.55x, direct mount | 0709-7073SA [†] | C-mount ISO adapter 0.7x (requires 0706-0150) |
| 0706-0150SA [†] | LV-TV ISO adapter tube | Also see FibrFlex Illuminator below. | |

[†] Add "SA" to part numbers for ordering in South America

FibrFlex Fiber Optic Illuminator



- Versatile illumination system with multiple applications
- Includes 150W tungsten halogen illuminator

Part Number	Configuration	Region*
0723-0000	FibrFlex System with 150W Illuminator and Double Light Pipe	1
0723-0110	FibrFlex Illuminator, 150W	1
0723-0112	FibrFlex Single Light Tube	1
0723-0114	FibrFlex Double Light Tube	1
0723-0100	Fiber Optic Ring Light	1
0723-0150	Ring Light Adapter	1

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