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DZM-series Inspection Microscopes

Die reconditioning



Highlights

- Superb die evaluation
- Rotating die stage
- High quality optics
- Holds various casing sizes
- Variable zoom
- Top and bottom lighting

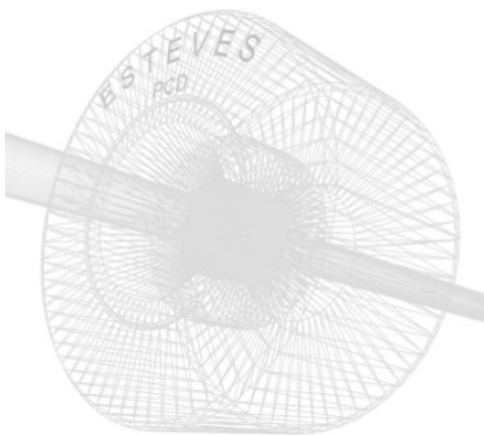
Binocular microscopes for full-die profile inspection meet the demands of today's die shop operators and die inspection personnel.

Microscopes are widely used and considered as an essential tool to inspect drawing dies. High-quality optics enable the trained operator or die inspector to evaluate drawing die geometries and observe surface features in drawing dies.

Esteves Group microscopes are used for evaluating drawing die wear and to determine if a die can be repolished or if recutting will be required. The microscope can also be used to visually evaluate the quality of the wire that is being manufactured.

Esteves Group DZM-series binocular microscopes allow for superb drawing die evaluation with low eye fatigue for the operator. They are an essential tool within every die shop.

Virtually any type of die shop tooling is available from Esteves Group as well as in-house training for your recutting, repolishing, and resizing needs.



We Specialize in...

- Wire Drawing Dies
- Bunching, Stranding & Compacting Dies
- Split Dies
- Tubing Dies
- Shaped Dies
- Extrusion Tooling
- Die Reconditioning Tools
- Engineering Services
- Customer Support



View through an inspection microscope. Clearly visible is the drawing ring in the reduction cone. The drawing die needs to be recut.



DZM-series Inspection Microscopes

Die reconditioning

Key Features

- Size range: .0010 - 2.05"
- Holds various casing sizes
- Inclined and movable die stage
- Adjustable top and bottom lighting
- High quality optics

Benefits

- Superb die evaluation
- Whole drawing die geometry can be seen

Esteves Group DZM-series Die Inspection Microscopes	Product name	DZM-5	DZM-5T	DZM-13	DZM-13T
	Recommended for die size range ¹⁾		.0020 - 1.0" [0.050 - 25.4 mm]		.0010 - 2.05" [0.025 - 52 mm]
Casing diameter		holds 1" and 1 1/8" and 1 1/2" and 25 and 28 and 38 mm (optional 2" and 3")			
360° die rotation holder			✓		
Adjustable die inclination			✓		
Movable die stage			✓		
Camera adaptor (USB camera optional)		x	✓	x	✓
Stereo/depth view (binocular)			✓		
Magnification range ²⁾		3.5x to 90x		5x to 140x	
Available objectives		Build-in zoom up to 4.5x		Build-in zoom up to 7.0x	
Available eyepieces		5x, 10x, 15x, 20x			
Illumination		Halogen 10W			
Manual illumination intensity control			✓		
Lighting position		Movable top and movable bottom lighting			
Input power		110 V (220V optional)			
Dimensions [w x d x h] (Approx.) inch [mm]		Halogen: 6.3 x 9.4 x 11 [160 x 240 x 280]			
Weight (Approx.)		14.1 lbs. [6.4 kg]	15.4 lbs. [7.0 kg]	14.1 lbs. [6.4 kg]	15.4 lbs. [7.0 kg]

¹⁾ For any additional requirements and inquiries, please contact a sales representative at Esteves Group

²⁾ Magnification range depends on objective and eyepiece combination

More drawing die types, cabling tooling, and extrusion tools are available. Please contact **Esteves Group** for a quotation for your wire and cable tooling.

Drawing, and cabling tooling below:
PCD dies, SSCD dies, ND dies, bunching and stranding dies, split dies, extrusion tools

