



EM-series Inspection Microscopes

Die reconditioning

www.estevesgroup.com



Highlights

- Superb die evaluation
- Rotating die stage
- High quality optics
- Holds various casing sizes

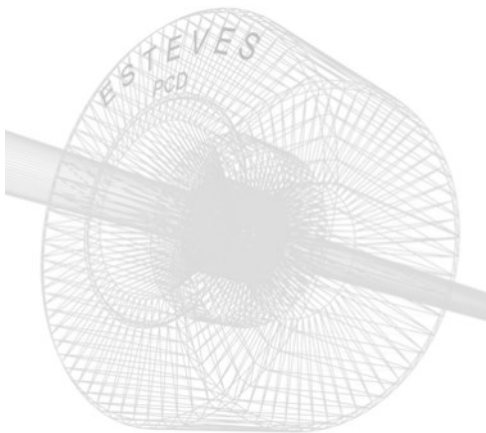
Binocular microscopes for full-die profile inspection meet the demands of today's die shop operators and die inspection personnel.

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 EM-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.



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Die reconditioning

Key Features

- Inclinable and movable die stage
- High quality optics
- Holds various casing sizes
- Adjustable lighting

Benefits

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

Esteves Group EM-series Die Inspection Microscopes

Product name	EM-302
Recommended for die size range ¹⁾	0.20 - 14.0 mm [.0078 - .552"]
Casing diameter	Max. 53 mm
360° die rotation holder	✓
Adjustable die inclination	✓
Movable die stage	✓
Camera adapter (USB camera optional)	✗
Stereo/depth view (binocular)	✓
Magnification range ²⁾	6.7x to 90x
Available eyepieces	10x
Illumination	Frosted lamp 20W
Manual illumination intensity control	✗
Lighting position	Freely movable
Input power	220V 50/60Hz
Dimensions [w x d x h] (Approx.) inch [mm]	320 x 285 x 350/470 mm [12.6 x 11.2 x 13.8/18.5"]
Weight (Approx.)	7 kg [15 lbs.]

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

