



"Your monitoring specialist"
certified ISO 9001 + ISO 14001



Crimping Line

Quality tests with measuring optics

Visual inspection and measurement of microsections



To evaluate the crimp quality you have to generate a cross section of the conductor crimp. With a measuring microscope and a suitable analysis software the microsections can be measured, rated and documented as per relevant norms or specified customer requirements.

In addition to our innovative and user friendly **analysis software X-Scan** we offer you a **variety of optical units** in order to find the best possible solution tailored to your needs.

All our optic stations are installed on a MDF board laminated with stainless steel and include the innovative and comfortable **analysis software X-Scan**. Of course X-Scan fulfills all relevant DIN standards and manufacturers' specifications.



Quality Management
Environmental Management
ISO 9001
ISO 14001
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Crimping Line

ML 3204 with 4x zoom – Good quality at a reasonable price



- High quality zoom optic VZM 0.75 – 3x
- Lowest enlargement factor 0.75x: object size vertical 5 mm, horizontal 6 mm
- Highest enlargement factor 3x: object size vertical 1.1 mm, horizontal 1.5 mm
- Mechanical click locking
- Microscope mount with 2 knobs for adjustment of the focus (coarse drive)
- LED ring light LR-45/90 with Fresnel lens AA 100 mm to illuminate the field of view
- Digital colour camera USB 2.0 with 1/3" CMOS sensor

ML 3212 with 12x zoom – Premium model for professional demands



- First class zoom optic with 12:1 image enlargement
- Lowest enlargement factor 0.58x: object size vertical 7.3 mm, horizontal 9.7mm
- Highest enlargement factor 7x: object size vertical 0.59 mm, horizontal 0.8 mm
- Object size 130-11x on a 17" monitor
- Comfortable click locking function
- Microscope mount with coaxial fine and coarse drive for focus adjustment
- LED ring light LR-45/90 with Fresnel lens AA100 mm to illuminate the field of view
- High performance digital colour camera USB 3.0 with 1/2" CMOS sensor
- Optional: ancillary lens 0.25x or 0.5x for large samples

OP 4001 with 6x zoom – for large wire diameters



- High quality zoom optic for large measuring objects
- Lowest enlargement factor (Index 18): vertical 52 mm, horizontal 70 mm
- Highest enlargement factor (Index 108): vertical 11 mm, horizontal 16 mm
- Microscope mount with 2 knobs for adjustment of the focus (coarse drive)
- LED ring light white LR-60/110 to illuminate the field of view
- High performance digital colour camera USB 3.0 with 1/2" CMOS sensor

OP 4002 – dual optic with 4x zoom & 6x zoom



combines the performance features of ML 3204 and OP4001

OP 4003 – dual optic with 12x zoom & 6x zoom



combines the performance features of ML 3212 and OP4001