

More Precision

Eltrotec // Industrial Endoscopes



ELTROTEC ME



- Ø 0.9 mm to 2.0 mm
- Lengths: 20 mm to 450 mm
- High quality quartz fibers
- Focusable from 1 mm to ∞
- Easily pliable high break resistance provides robustness
- External focus ring for diopter adjustment

The miniature Eltrotec ME endoscope is ideally suited for the inspection of miniature components and channels in the field of microelectronics and precision engineering.

High-quality quartz fibers are used for image transmission, so the ME can be bent easily without damage. This ensures a long service life especially for smallest diameters in long lengths. The image quality is comparable to that of all conventional lens systems. The protruding knurls present another advantage. One is used to adjust the focus and the other to adjust the focus. A special adaptation to your component is possible.

Objects are illuminated by an external light source from the accessory range. The endoscopes can optionally be connected to a camera system.

Operating conditions:

- Temperature in air: Endoscope probe: -20 °C to +60 °C Complete endoscope: -20 °C to +50 °C
 Pressure resistance in air: up to 5 bar
- Resistance to liquids:

The endoscope probe may be immersed in the following liquids for a short time: water, saline solution (5 %), kerosene, gasoline, diesel, 70 % alcohol

 Humidity: up to 95 % at 40° (non-condensing)

Application examples:



Deposits in pipe



Gear wheel



Deposits in pipe

Туре МЕ						
Outer-Ø mm	Direction of view	Aperture angle	Resolution	Length mm	Article no.	
				20	20531943	
		50°	ResolutionLength mm206010,000110,00011401802010001100100200100020010002001000200100020010002001000200100020010002001000200100010002001000200100020010002001000 <td< td=""><td>60</td><td>20531944</td></td<>	60	20531944	
0.9 - 1.3	0°			100	20531945	
				140	20531946	
				20531947		
				20	20531948	
			Resolution Length mm 20 60 10,000 100 110,000 100 110,000 100 110,000 100 110,000 100 1000 100 1000 100 1000 100 1000 100 1000 100 1000 100 1000 100	60	20531949	
				100	20531950	
				140	20531951	
				180	20531952	
1.4 - 2.0	0°	70°		220	20531953	
				260	20531954	
			300	20531955		
				350	20531956	
				400	20531957	
				450	20531958	
	0°	60°	30,000	20	20530958	
				60	20531959	
				100	20531960	
				140	20531961	
				180	20530308	
1.4 - 2.0				220	20531962	
					20531963	
				300	20531964	
				350	20531965	
					20531966	
					20531967	
					20531968	
	90°	70°	10,000		20531969	
					20531970	
					20531971	
					20530372	
1.5 - 2.0					20531973	
					20531974	
					20531975	
					20531976	
					20531977	
				450	20531978	

All endoscopes available with outer-Ø in increments of 0.1mm

Accessories					
Article		Article no.			
Fiber optics	Length: 1500 mm, in PVC tube with FOT connection	20541980			
90° mirror tube, up to ø 1.3 mm	rotatable, outer- $ø = endoscope + 0.2 mm$	20541979			
90° mirror tube, from ø 1.4 mm	rotatable, outer- $ø = endoscope + 0.3 mm$	20540309			

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Sensors and Systems from Micro-Epsilon



Sensors and systems for displacement, distance and position



Optical micrometers and fiber optics, measuring and test amplifiers



Sensors and measurement devices for non-contact temperature measurement



Color recognition sensors, LED analyzers and inline color spectrometers



Measuring and inspection systems for metal strips, plastics and rubber



Industrial endoscopes, light sources



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