



More Precision

ELTROTEC // Industrial Endoscopes





- Ø 0.5mm to 2.5mm
- Lengths: 500mm to 15,000mm
- Inspection of the smallest components
- Resolution of up to 30,000 image points
- 70° Field of view

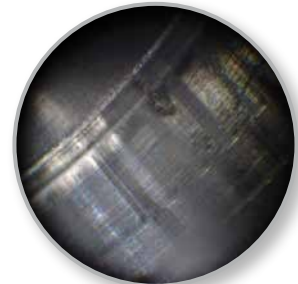
Description:

Eltrotec Flex MTFS are miniature flexible fibre-optical endoscopes which serve as valuable tools and inspection devices in many areas of quality assurance. Despite their extremely small outer diameter the flexible micro-endoscopes are high quality instruments with a resolution of up to 30,000 image points suitable for the inspection of miniature components and channels in the fields of microelectronics, precision mechanics and research.

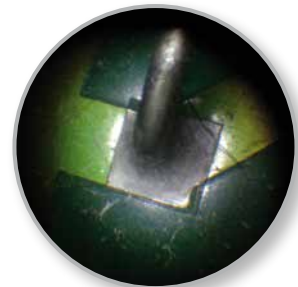
Features:

- Inspection in the smallest components and channels
- Silica fibre bundle
- Low friction vinyl protective tube
- 90° mirror head with a \varnothing from 1.0mm
- Liquid-tight
- Heat resistant up to 60 °C
- Focusable eyepiece

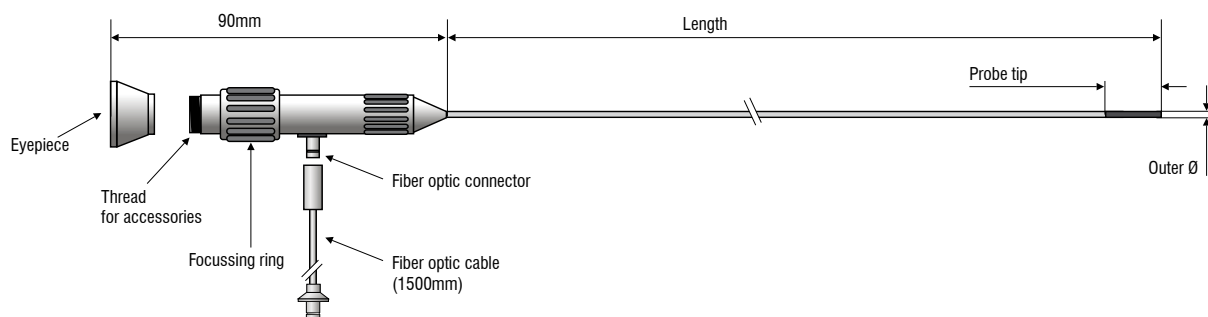
Application examples:



Chatter marks



Inspecting soldered joints



Model MTFS	050	075	100	150	200	250
Outer-Ø	0.5mm	0.75mm	1.0mm	1.5mm	2.0mm	2.5mm
Length	0,5 / 1,0 / 1,5 / 2,0m				2/3/4/5m	2/5/10/15m
Resolution	4000 image points	6000 image points	10.000 image points	30.000 image points		
Direction of view	direct view 0°					
Field of view approx.	70°			60°	70°	
Focal range	3 bis 50mm			10mm bis ∞		
Dioptré compensation	adjustable focussing					
Min. bend radius	10mm	15mm	30mm	50mm	60mm	80mm
Rigid part max.	5mm	5mm	6mm	7mm	10mm	12mm
Illumination	separate or permanently connected fibre optic cable with a length of 1,500mm for external light source					
Camera and TV connection	eyepiece equipped for the attachment of a corresponding adapter					
Heat resistance	up to 60°C					

Outer-Ø mm	Length mm	Direction of view	Article no.
0,5	500	0°	20560930
0,5	1000	0°	20561733
0,5	1500	0°	20561734
0,5	2000	0°	20561880
0,75	500	0°	20561004
0,75	1000	0°	20560321
0,75	1500	0°	20561732
0,75	2000	0°	20560939
1,0	500	0°	20560854
1,0	1000	0°	20560322
1,0	1500	0°	20561731
1,0	2000	0°	20560895
1,5	500	0°	20561000
1,5	1000	0°	20561589
1,5	1500	0°	20561584
1,5	2000	0°	20560896
2,0	500	0°	20561985
2,0	1000	0°	20561986
2,0	1500	0°	20561987
2,0	2000	0°	20561988
2,0	3000	0°	20561989
2,0	4000	0°	20561990
2,0	5000	0°	20561827
2,5	500	0°	20560336
2,5	1000	0°	20561983
2,5	1500	0°	20561984
2,5	2000	0°	20561689
2,5	5000	0°	20561826
2,5	10.000	0°	20561981
2,5	15.000	0°	20561982

Endoscope with external ø of up to 2.0mm with permanently connected fibre optic cable

Accessories:	Article no.
Fibre optic cable for MTFS (1,500mm, Ø 2mm fibre cross section)	20560670
Mirror head, d=1.4mm, viewing direction 90°	20560897
Mirror head, d=1.9mm, viewing direction 90°	20560898
Mirror head, d=2.4mm, viewing direction 90°	20561413

Accessories:

Fibre optic cables, TV cameras, video processors and light sources

High performance sensors made by Micro-Epsilon



Sensors and systems for displacement and position



Sensors and measurement devices for non-contact temperature measurement



2D/3D profile sensors (laser scanner)



Optical micrometers, fibre optic sensors and fibre optics



Colour recognition sensors, LED analyzers and colour online spectrometer



Measurement and inspection systems



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