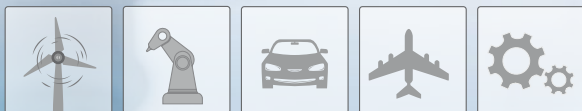




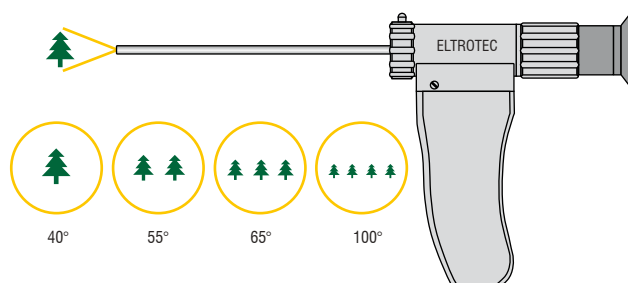
More Precision

Eltrotec // Industrial Endoscopes



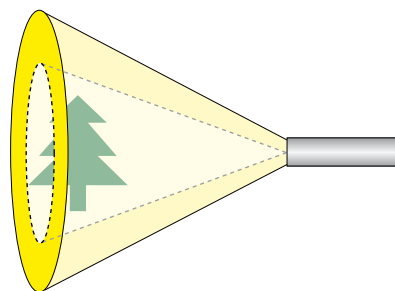
5 Aperture Angle

- Depending on the endoscope, different aperture angles are available
- Wide angles are achieved with both straight and deflected viewing directions



6 Illumination

- In order to generate bright images, the relationship between the glass fiber component and the diameter of the lens has been optimized which ensures the best possible illumination
- A universal connector for ACMI, Wolf, Storz or Lemo is included as standard
- Due to specially coated glass fibers, the light is transported without loss.

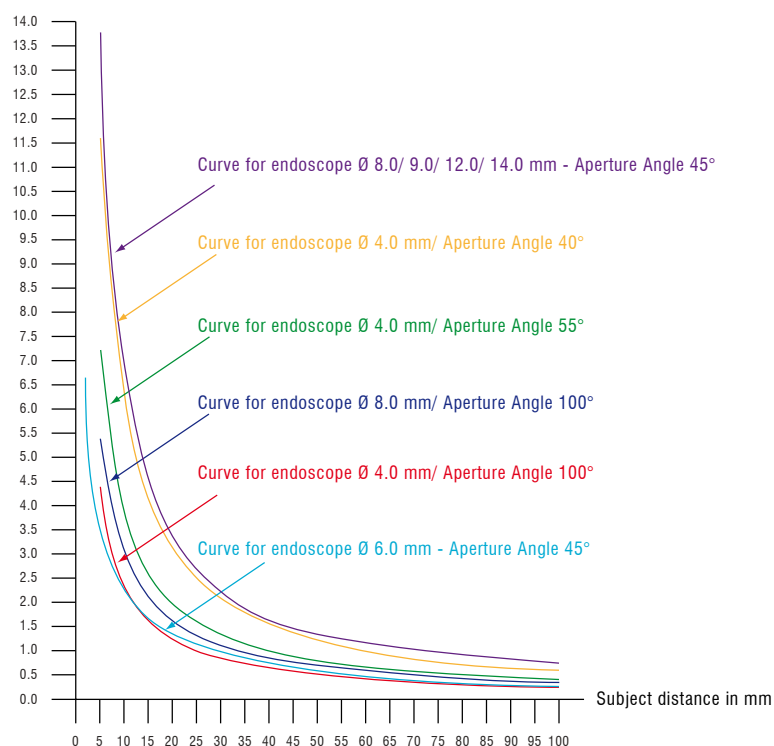


For warm light sources the following applies:

- Illumination is provided by an incandescent light source (halogen) at the lens head. The output of the incandescent light source depends on the diameter, the greater the diameter the greater the light source output (as standard 100 watts at a Ø of 25mm)
- Through the use of incandescent light sources it is possible to illuminate larger cavities than with glass fiber illumination
- Adjustment of brightness on the eyepiece tube, i.e. directly on the device without interrupting the inspection
- Small cavities or poor air circulation involve the risk of excessive heat development as a result of the light source output. In some cases damage to the endoscope can occur due to excessive illumination periods, or to the object due to low heat resistance.

7 Magnification

Due to the large depth of field of Eltrotec borescopes, the magnification factor can only be calculated when the distance to the object is known. The curves below illustrate the relationship between magnification factor and distance. The magnification is inversely proportional to the distance. This means that the magnification is twice as great at half the distance and vice versa.



Sensors and Systems from Micro-Epsilon



Sensors and systems for displacement, distance and position



Sensors and measurement devices for non-contact temperature measurement



Measuring and inspection systems for metal strips, plastics and rubber



Optical micrometers and fiber optics, measuring and test amplifiers



Color recognition sensors, LED analyzers and inline color spectrometers



Industrial endoscopes, light sources