

Application

Endoscopy is a low cost and effective way of checking the visual condition of items not normally accessible. The SKF Endoscope TMES 1, is a simple tool that allows viewing of applications that are not otherwise accessible without disassembly. Typical applications include, gearboxes, bearings, compressors, crankcases and turbine blades.

Description

The TMES 1 can be used to view applications in restricted spaces, which could not normally be seen with the naked eye. The TMES 1 is designed to be suitable for industrial use. With a flexible fibre cord of 1 metre (3.3 ft), it is ideal for the visual inspection of small/tight or normally inaccessible locations.

The tip diameter of just 8 mm (0.32 in) allows access to many industrial applications and can be bent to radius of 40 mm (1.8 in). The fibre cord is waterproof.

The focus can be manually adjusted and a built-in light source, with variable intensity, helps ensure that the subject viewed can be clearly seen. The light source is powered by three 1.5 V (LR14-C) batteries, (not included). The field of view is 60°.

Accessories

An optional digital camera adapter is available as an accessory under designation TMES 1-C



Not for medical applications



TMES 1 with optional digital camera adapter. Camera not included.

Technical data

Designation	TMES 1
Description	Endoscope
Weight (case and contents)	1135 g (2.5 lbs)
Measurements (case size)	360x270x80 mm (14.1x10.6x3.1 in)
Fibre	
Fibre material	Acrylic
Number of pixels	3500
Fibre strand diameter	35 µm (0.0014 in)
Allowable ratio of fibre breakage	2% maximum
Cord	
Fibre material	SUS304 coated with PVC
Minimum bending radius	R 40 mm (1.6 in)
Diameter of cord	8mm
Light source	
Light type	3.5V 0.7A 2.55W
Power supply	3x C (LR 14) batteries
Optical data	
Focal direction	straight
Angle of view	60°
Focal length	10 mm (0.39 in) - ∞ (fixed focus)
Water resistance	Objective lens and fibre image tube is water resistant at an atmospheric pressure between 1 and 1.3 bar. Eye piece is not waterproof.
Working temperature range	-20 °C to 60 °C (-4 °F to 140 °F)



