

Video measuring microscope MM1 with TP20 probe system, Type: 300CMZ/TP



Order data

| Order number | 492560 300CMZ/TP |
|--------------|------------------|
| GTIN | 4062406160296 |
| Item class | 41P |

Description

Version:

CNC-controlled video measuring microscope with quicker image processing, high-resolution colour camera, and a multi-touch panel based on a PC, easy to operate, suitable for the workshop environment.

Incident light: 56 white LEDs in 2 concentric rings. 1 ring and 4 segments can each be separately switched and dimmed.

Transillumination: Long-life LEDs, telecentric, can be switched and dimmed. **Solid granite base** with surface-hardened indexing table and high-precision guides.

- · Easy installation and use of measurement programmes.
- · Practical automation of measuring processes, for example pallet measurements.
- · Modern user-friendly measurement software for intuitive operation.

Optical measurement system with additional Renishaw TP20 type tactile measurement system for measuring regular geometries that cannot be measured optically.

- · Quick and simple tactile measurement.
- · Creation of automated measurement procedures (optical and tactile)

With motorised zoom lens, magnification from $0.3 \times$ to 3.5 and coaxial light for uniform illumination of components.

Supplied with:

All-in-One PC, wireless mouse and keyboard, dust cover, power supply unit, test certificate, and multi-lingual user manual.

Optional extras:

Lens No. 491912, software option No. 491913, cutting edge cleaner No. 354788.

Note

Length measurement variation $E_{\text{UXY, MPE}}$ according to DIN EN ISO 10360-7, measured with magnification factor = 0.5.

Length measurement variation $E_{OZ,MPE}$ according to DIN EN ISO 10360-2, measured with a straight edge finder ($\emptyset = 2.5$ mm, length 20 mm).

Permissible ambient conditions: 20 °C \pm 1 K, temperature gradient Δ_{th} = 0.5 K/h, Δ_{td} = 4.0 K/d, measured with a calibrated standard.

We reserve the right to make technical changes and to change the touch panel version.

Technical description

| Camera | 6.4 megapixels, autofocus |
|---|---|
| Length measurement variation E _{UXY, MPE} optically (2D) | $2.9 + L / 100$ (L in mm) at 20 °C ±1 K μ m |
| Lens (times) | 0.3 – 3.5 |
| Field of view | 24×16 – 2×1 mm |
| Working distance | 80 mm |
| maximum component height | 200 mm |
| Height | 950 mm |
| Length measurement variation $E_{1, Z \text{ axis}}$ tactile (1D) | 4.0 + L/75 (L in mm) μm |
| Measuring range Z | 200 mm |
| Length | 730 mm |
| maximum component weight | 20 kg |
| Measuring range X | 300 mm |
| Width | 900 mm |
| Magnification at the screen (times) | 10 - 162 |
| Measuring range Y | 200 mm |
| Weight | 115 kg |
| Nominal voltage | 240 V |
| Power supply | Mains operated |

Type of product CNC video measuring microscope

Accessories

| Accessories for video measuring microscopes Type FEDER | 491917 FEDER |
|--|-----------------|
| Base cabinet for measuring microscopes width×depth 1800X900 mm | 491914 1800X900 |
| Software option for MM1 Type PROFIL | 491913 PROFIL |
| Dust cover Type 300 | 491919 300 |
| Software option for MM1 Type DXF | 491913 DXF |
| Lens for measuring microscopes MM1/MM2 Type 3 | 491912 3 |
| Spare glass plate for video measuring microscope MM1 Type 300 | 491948 300 |