

 Mahr

Digital 2D height gauge Digimar, Type: 1000



Order data

Order number	445370 1000
GTIN	
Item class	43B

Description

Version:

Measuring system:

- Outstanding measuring accuracy and reliability due to optical incremental measuring system with double reading head.
- Dynamic probe system for high repeatability.
- Air bearings system for easy movement without jerking.
- Precise measuring head guidance on stainless steel slides.
- Easy measuring procedures due to motorised measurement slides.
- Button settings retained at power off.
- Integrated rechargeable battery for cordless measurements.
- Temperature compensation using internal temperature sensor.

Control and display unit:

- Large and clear function buttons.
- Easily readable LCD graphics display with background illumination.
- User guidance via self-explanatory icons in several languages.
- Facility for setting additional zero points on the component.
- Saving of measured data on integrated USB memory.
- Additional measuring device can be connected to the Opto RS232C interface.
- Future-proof as it can be updated.
- Automatic stand-by circuit (no loss of measured values).

Additional 2D measurement functions:

- **Compensation circle.**
- **Distance and angle of 2 elements.**
- **Angle between 3 elements.**
- **Angle within a cone.**
- **Coordinate transformations.**

Statistical evaluation:

- **Statistical analysis of individual features.**
- **Histograms.**
- **Process control cards.**
- **Pareto charts.**
- **Creation of production and inspection plans.**
- **Direct print-out on a USB printer.**

Supplied with:

Control and display unit. Carrier No. 445410 size T6, contact point No. 445420 size K6/51, setting block, power supply unit No. 445432, NiMH battery No. 445430 and instruction manual.

Test certificate: Manufacturer's test certificate

Calibration: E2

Measuring range: 1200 mm

maximum application range: 0 - 1170 mm

Graduations can be switched over: 0.01 / 0.005 / 0.001 / 0.0005 / 0.0001 mm

Error limit (L = meas. length in mm): $1.8 + L / 600 \mu\text{m}$

Repeatability plane: 0.5 μm

Repeatability hole: 1 μm

Technical description

Width footprint	250 mm
Weight	35 kg
Measuring range	1200 mm
Rectangularity error (frontal)	10 μm
maximum application range	0 - 1170 mm
Length of base	240 mm
Overall height	1392 mm
Error limit (L = meas. length in mm)	$1.8 + L / 600 \mu\text{m}$
Graduations can be switched over	0.01 / 0.005 / 0.001 / 0.0005 / 0.0001 mm
Repeatability plane	0.5 μm

Repeatability hole	1 µm
Gauging force	1.0 ±0.2 N
Article no of the battery / rechargeable battery fitted	445430
Calibration	E2
Number of rechargeable batteries contained	1
Type of rechargeable battery	Nickel metal hydride
Nominal voltage	4.8 V
Power supply	Rechargeable battery-powered
Power supply	Mains operated
Standard	Manufacturer's standard
Reversible reading	mm / inch
Interface	USB interface
Interface	RS232 interface
Measurement technology	digital
Test certificate	Manufacturer's test certificate
Type of product	Height gauge

Services

Labellinglaser-etched Type	018940
DAkkS calibrationDigital height gauge maximum measuring range 1000 mm	024010 1000
CalibrationDigital height gauge maximum measuring range 1000 mm	024000 1000

Accessories

Carrier for measuring probe Type T1	445410 T1
Carrier for measuring probe Type T6/100	445410 T6/100
Carrier for measuring probe Type T6	445410 T6
Universal contact point set Number of individual parts 10	445406 10
Mains adapter	445432

Carrier for measuring probe Type T8	445410 T8
Ball contact point Type K6/51	445420 K6/51
Connecting cable Type D2	498940 D2
Connecting cable Type USB2	498940 USB2
Battery pack 4.8 V	445430
Connecting cable Type R2	498940 R2