آزما صنعت گراد

نماینده انحصاری کمپانی Mahr آلمان

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Precimar. Gage Block Tester 130B-24, 16

Now even better: Models 130B-24 and 130B-16.
Gage block comparators

Description

The **130B-24** gage block comparator from **Mahr Federal** is the preferred choice of many major calibration laboratories. It is specifically designed for comparative gage block measurements. The **130B-24** model measures the industry's key dimensional standards with the ultimate in resolution and reproducibility.

Features

- A unique "floating measuring frame" ensures precise point-to-point measurement
- Single-sensor design minimizes electronic noise
- Finely balanced system optimizes control of measuring forces
- Resolution of 0.1 µin (0.001 µm)
- Reproducibility of 0.2 µin (0.005 µm) ($6\sigma < 1$ µin/0.025 µm)
- Measuring capacity of 0.010 in to 4 in (0.25 mm to 100 mm)
- Integrated measuring software and user interface
- Built-in positioner for reproducible measuring positions

Gage block positioner
An accurate positioner is built into the platen of the **130B-24**. The reference gage block and the testpiece gage block are loaded into the openings in the template. The device swivels between the contact points and positions the gage blocks – first the reference gage block and then the testpiece gage block in its reference position and in the corners of the gage block. Three easily exchangeable templates are included, one for square and two for rectangular (30 mm and 35 mm/1.18 in and 1.38 in) gage blocks.

Other templates are available as optional extras. The positioner is suitable for gage blocks from 0.20 in (0.5 mm) to 4 in (100 mm) long. It can be fitted for right- or left-handed users or removed completely if necessary. An acrylic breath shield is included to protect the measuring area against body heat. Please see our special brochure for further information on the **software**.

Technical Data 130B-24 / 130B-16

Size (without computer)	Approx. 15 in x 15 in x 23 in (385 mm x 385 mm x 590 mm)
Weight (without computer)	Approx. 225 lbs (100 kg)
Max. gage block length	0.010 in to 4 in (0.25 mm to 100 mm)
Measuring force (upper contact) (lower contact)	 3 oz (0.8 N) 1 oz (0.3 N)
Contact tip material	Tungsten carbide (diamond - optional)
Contact tip radius	0.125 in (3.175 mm)
Sensor range	± 0.015 in (± 0.38 mm)
Measuring range	± 500 µin (±10.0 µm)
Reproducibility	6 σ < 1 µin (25 nm) measured on a 1 in gage block without removing the gage block
Linearity	Deviation <1 µin over the central ± 50 µin and <1 µin in any 50 µin within the ± 500 µin measuring range < 20 nm over the central ± 1.0 µm and < 20 nm in any ± 1.0 µm over a measuring range of ±10.0 µm

Precimar 130B-16

Model 130B-16 for longer gage blocks

The same highly linear, stable electronics as the 130B-24

Designed for gage blocks of up to 600 mm (24 in) but can also measure shorter blocks.

Approx. size (without computer)
385 mm x 385 mm x 1,016 mm
(15 in x 15 in x 40 in)
Approx. weight (without CPU)
140 kg (309 lbs)
Measuring length
2.5 mm to 600 mm (0.10 in to 23.6 in)
Measuring force
(upper probe) 4 oz., 1.1 N
(lower probe) 2 oz., 0.6 N

All other data as for the **130B-24**.

Request catalog or see WebCode 10259.

Precimar 826 PC Gage Block Measuring Unit

Description

The **826 PC** gage block measuring unit is fast, reliable and extremely precise. In comparative measurement, it achieves a reproducibility of 0.01 µm.

An open and extremely rigid L-shaped stand forms the basis for the two opposing high-precision probes, and the perfectly level measuring table.

Work is made easy thanks to straightforward one-handed operation for manipulating reference and test gage blocks on the measuring table. The open design allows visual contact during testing.

The user is able to view the measuring process at all times which helps to ensure a unique level of process reliability.

Two professional measuring and evaluation programs (software) meet all the needs of internal gageblock tests, calibration laboratories and gageblock manufacturers.

The **826** enables quick and straightforward high-precision testing of European and US gage blocks up to 170 mm (6.69 in) long in accordance with ISO 3650.

Features

- Rigid cast-iron stand ensures a stable temperature and insensitivity to heat
- Easily adjustable vertical slide with upper probe
- Very ergonomic and convenient one-handed operation for positioning the gage block under the probe
- Fine adjustment via rigidly connected parallelogram springs
- Electropneumatic lifting of the probes
- Extremely smooth manipulator operation thanks to high-precision ball bushings
- Measurement not influenced by manual force applied
- Gage blocks easy to move on the measuring table thanks to round, hardened high-precision support pins
- No zero point setting required, since the set value is offset by the stored actual allowance of the respective reference gage block
- Very effective protection from heat due to an acrylic glass screen along the sides of the unit
- Flattening correction
- Correction of differing coefficients of thermal expansion
- Calculation of mean values

Accessories

- **QMSOFT® / QM-Block** for calibration and management of gage blocks and gage block sets
- The evaluation software operable under Microsoft Windows® 7
- Very effective protection from heat due to an acrylic glass screen along the sides of the unit
- Lifting device 826 Va HS for the fast and quiet pneumatic lifting of the inductive probes via footswitch.
- Temperature compensation
- Wooden tongs, pneumatic gage block lifter, optical flat, surface thermometer

Technical Data

826 gage block measuring unit Order No. 4448003

Application range	0.5 mm to 170 mm (0.02 in to 6.69 in)
Usable table surface	60 mm x 55 mm (2.36 in x 2.17 in)
Reproducibility	± 0.01 µm (0.4 µin)
Stylus ball radius, upper probe	1.5 mm (0.06 in)
Stylus radius, lower probe	1.5 mm (0.06 in)
Direct measuring range	0.2 mm (0.0008 in)
Weight	37 kg (81.6 lbs)

For testing gage blocks over 170 mm long (central length lm) we recommend the **ULM**, **828 CiM** or **PLM** universal measuring machines.

Request catalog or see WebCode 2335

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