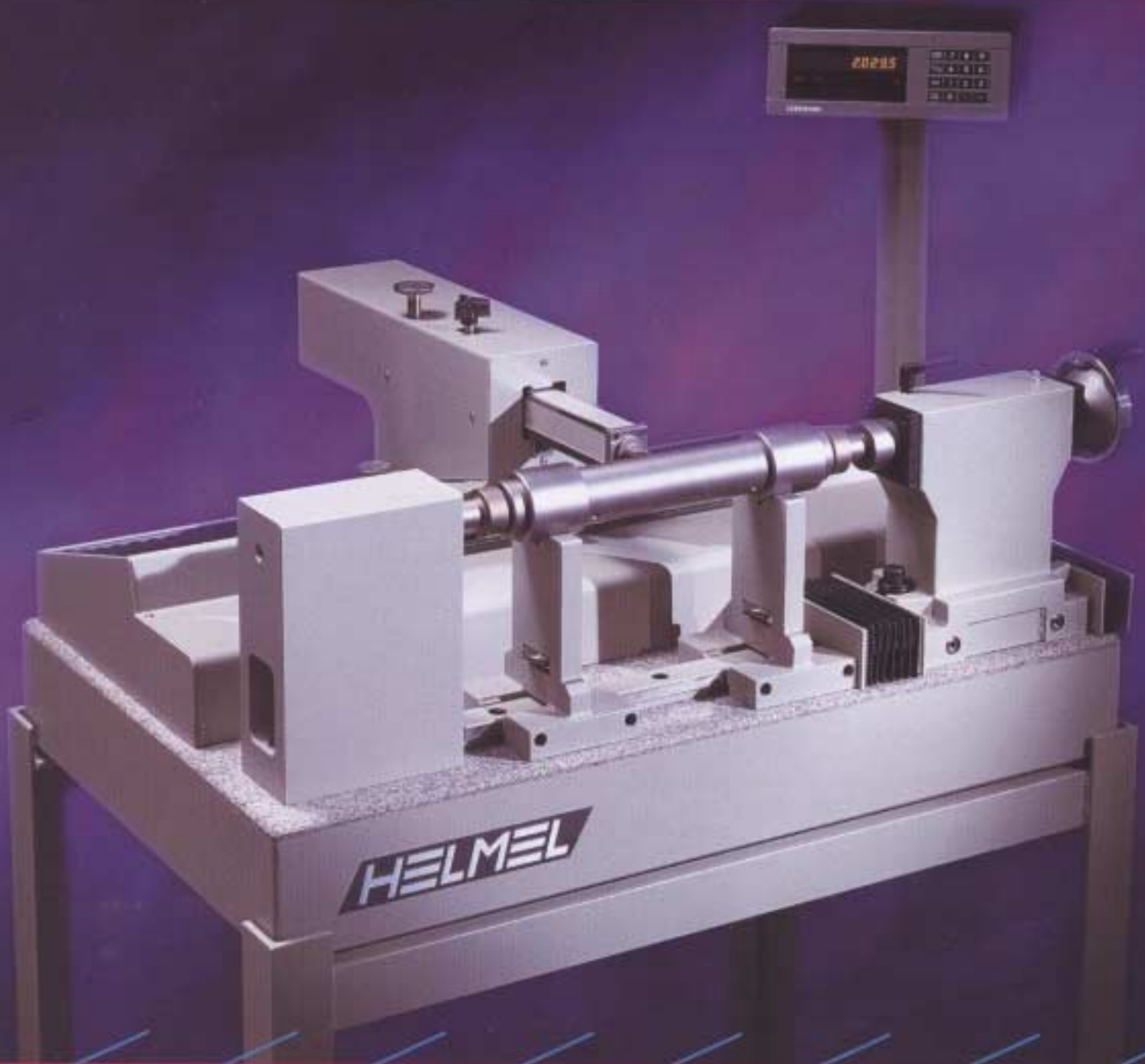


Manual shaft measuring machines from Helmel...

Efficient Shop Floor Shaft Measurement



▶ RUGGED & RELIABLE

▶ SIMPLE TO OPERATE

▶ IMPROVES QUALITY

▶ SINGLE OR DUAL AXIS

▶ HORIZONTAL OR VERTICAL

▶ AFFORDABLE

▶ AMERICAN MADE

HELMEL
Builders of CMMs Since 1973

For over 20 years, Helmel SMMs have delivered accurate, reliable shaft measurement... and in the worst places!



**New Vertical SMMs now available...
small footprints for cell use!**

Enjoy features that make the difference:

- ▶ Rigid mechanical bearing design, with hardened and ground steel ways, provides intrinsic accuracy and dependability.
- ▶ All ways, bearings and scales enclosed and protected against dirt and grime.
- ▶ Non-contact steel scales with .00004" resolution for reliable accuracy.
- ▶ Mechanically clamping locks and precision positioning via fine pitch thread adjustment.
- ▶ Full granite base on a steel stand for long term dimensional stability.
- ▶ Low profile for easy loading.

Options and Accessories

- ▶ Hand operated centers. Tail Stock Slides along hardened T-Rail
- ▶ Air operated centers (300 lbs at 100 psi)
- ▶ Fixed support V-Blocks for loading
- ▶ Adjustable Support V-Blocks for varying diameters
- ▶ Precision live and dead centers
- ▶ Rotating Edgfinder Probe to check length
- ▶ Snap Ring Groove Edgfinder Probe
- ▶ Taper Probe to check locations of cross holes
- ▶ Draw Bar to keep probe fixed
- ▶ Shop Protection Package: Additional bellows over T-Rail, wipers on cross axis with rear cover
- ▶ Ball Centers for parts that are checked from a ball in its center

Developed for automotive and truck crank and cam checks on the factory floor, Helmel's SMMs have proven that they can take it, decade after decade. Checks such as lengths, steps, grooves, diameters, run-out and hole locations can be made quickly with hard probes. Now used widely for large and small engine shaft components, as well as turbine, transmission, pump, copier, and general shaft measuring applications, consider how a manual Helmel Shaft Measuring machine can improve your quality and efficiency, and reduce your reject rate. Your customers will definitely approve. Present users include Xerox, Kodak, GM, Chrysler, John Deere and Cummins.

**SPECIFICATIONS:
Manual Shaft Measuring Machines**

Manual Operation, Single or Dual Axes
using hard mechanical Probes

X-Axis lengths: 12", 20", 30", 40", 50" and
60" between centers. Longer lengths
available.

Y-Axis stroke: 6" (12" swing)

Resolution: .000040" (1 micron)

Repeatability: .00018" (4.5 micron)

Linear Accuracy: .00018" +
.000006"/inch, 68°F or 20°C
(4.5+ L/170 microns), accuracy intrinsic

Readout: Heidenhain Single or Dual Axis
with Functions for Datum selection,
MIN/MAX indication, diameter reading, etc.

Option: RS232 Output for printer

Power Requirement: 110V AC

Installation: By customer

**Contact Helmel for the full range of
options, accessories and training.**

1-800-BEST-CMM
(1-800-237-8266)

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HELMEL ENGINEERING PRODUCTS, INC. • 6520 Lockport Road, Niagara Falls NY 14305
Phone 716-297-8644 • FAX 716-297-9405 • internet:www.helmel.com • email: sales@helmel.com

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