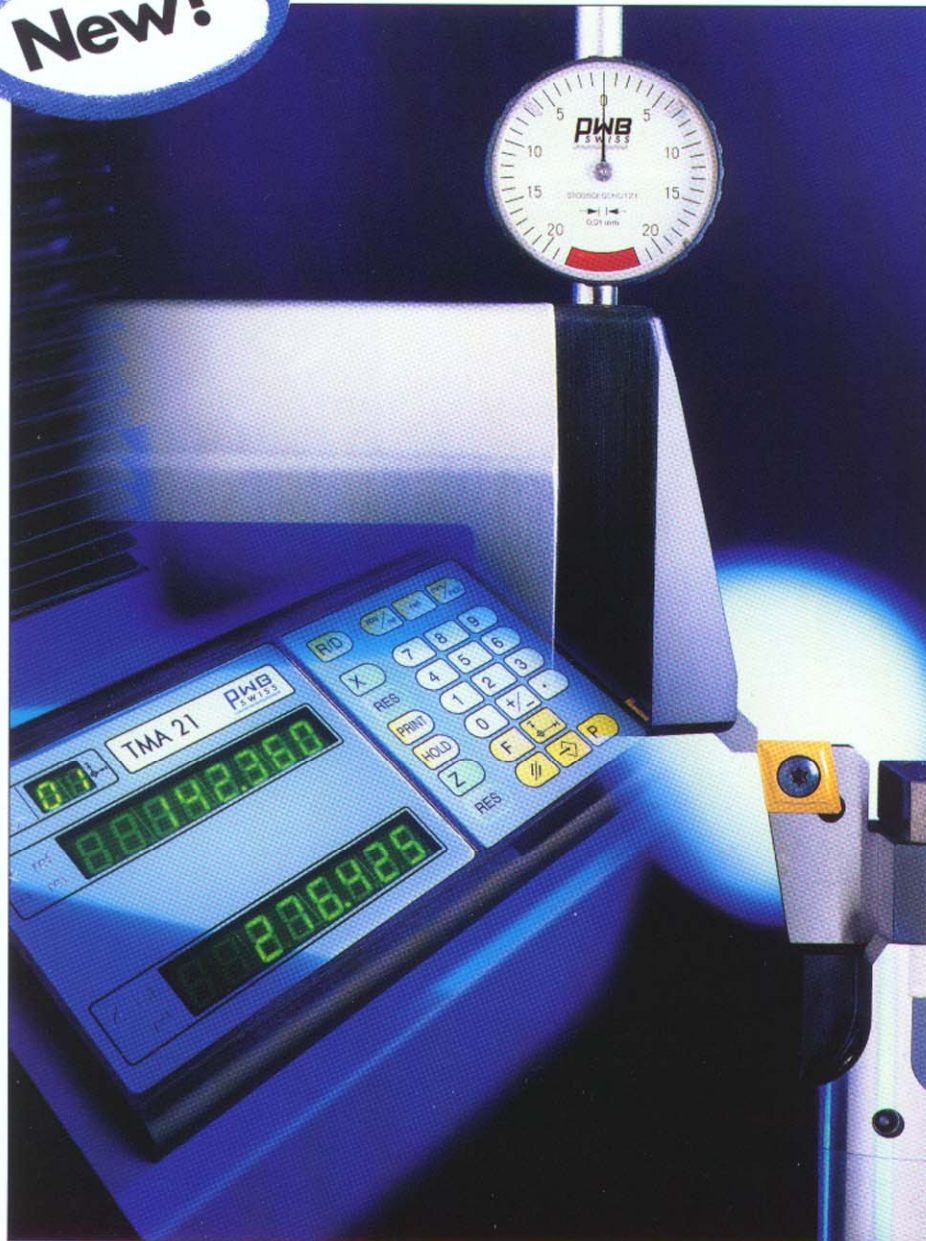


New!

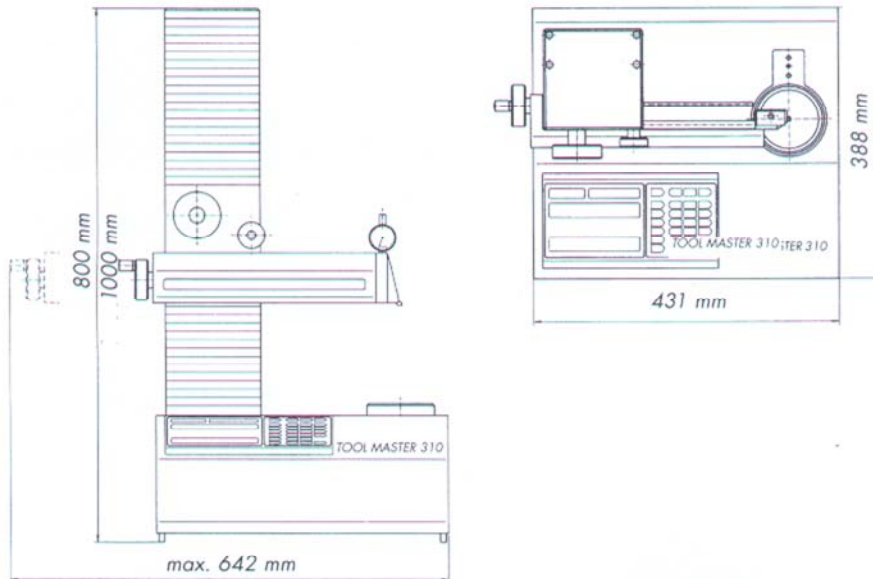


TOOL MASTER 310

**Tool setting and measuring device
A cost effective solution with a
good return on investment.**

TOOL MASTER 310

Dimensions



Order number	Tool holder	X-axis Ø	Z-axis	H	Weight kg
RPWB-211340	ISO 40	310	42-360	820	55
RPWB-211350	ISO 50	310	42-360	820	55
RPWB-211341	ISO 40	310	82-500	960	60
RPWB-211351	ISO 50	310	82-500	960	60

All dimensions in mm

Power

Power: 110VAC, 60 Hz

Standard equipment

- Tool measuring and setting device complete as described
- Measurement electronic TMA 21
- Tool holder with needle bearing sleeve ISO 40 or 50
- Dial gauge
- Dust cover
- Test record/warranty certificate
- Instruction manual
- Non-returnable transport box

Options

- Extended measuring diameter to 500 mm
- Software for Data transfer to Windows/Excel®

We reserve the right to make technical improvements

The SIGMA Group, Inc.
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Norcross, GA 30010
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770.449.4989 fax
www.the-sigma-group.com
sales@the-sigma-group.com

**Leadership
in precision**

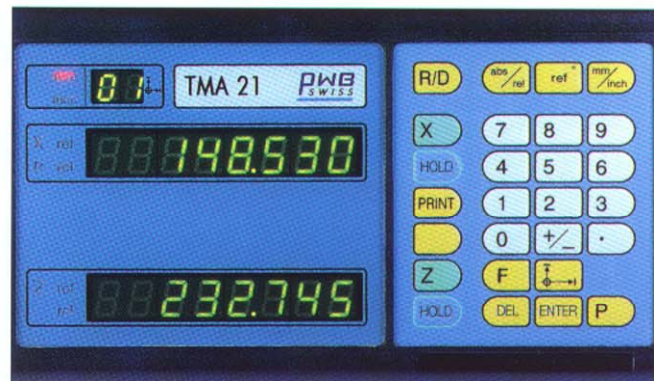


TOOL MASTER 310

Bellows cover the guideways, the fine adjustment spindle and the measuring system.

Measuring reliability is enhanced by the electronic axis parallelism compensation.

The TOOL MASTER 310 can be integrated into your DNC system through the RS 232 interface.



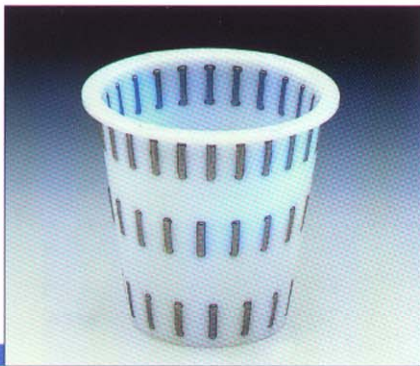
Measuring Electronics TMA 21

- Easy to operate without training
- Soft key pad with acoustic touch confirmation
- Green LED display, digit height 15 mm
- Measurement resolution 0.005 mm
- Memory for 99 adapter reference points
- mm/inch switchable
- Radius/diameter switchable
- Absolute and incremental measuring
- (-) prefix selectable (for turning tools)
- Hold function independent for each axis
- Axis parallelism compensation for X- and Z-axes
- Linear axis error compensation
- 8 digit tool number can be input
- Tool list memory, up to 50 tools
- Port for printer:
Labels / tool list / adapter list
- Serial interface RS 232-C/V24 ASCII code
(DNC compatible)
- Opto-electronic glass scales resolutions 0.005 mm
accuracy ± 0.005 mm/m

THE NEW GENERATION OF TOOL
PRESETTERS

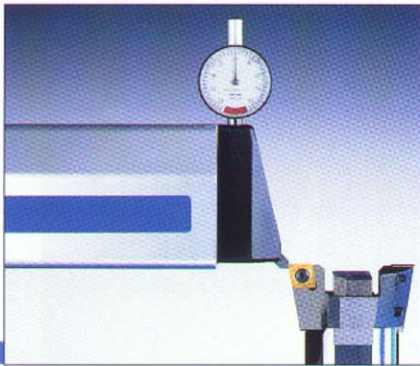
Tool holder

Needle bearing taper sleeve (patented)
ISO 40 or ISO 50
with 0.002 mm runout accuracy.
Easy maintenance.



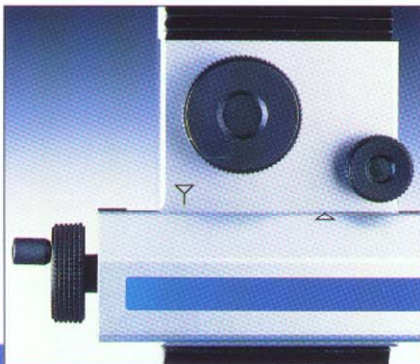
2D measuring probe

- One carbide probe for X- and Z-axis
- Measurement pressure approx. 1N, protects the cutting edge
- Shockproof dial indicator gauge with auto shift release



Single handed operation

Infinite fine adjustment in both axes, ideally positioned in front of the operator



Accessories

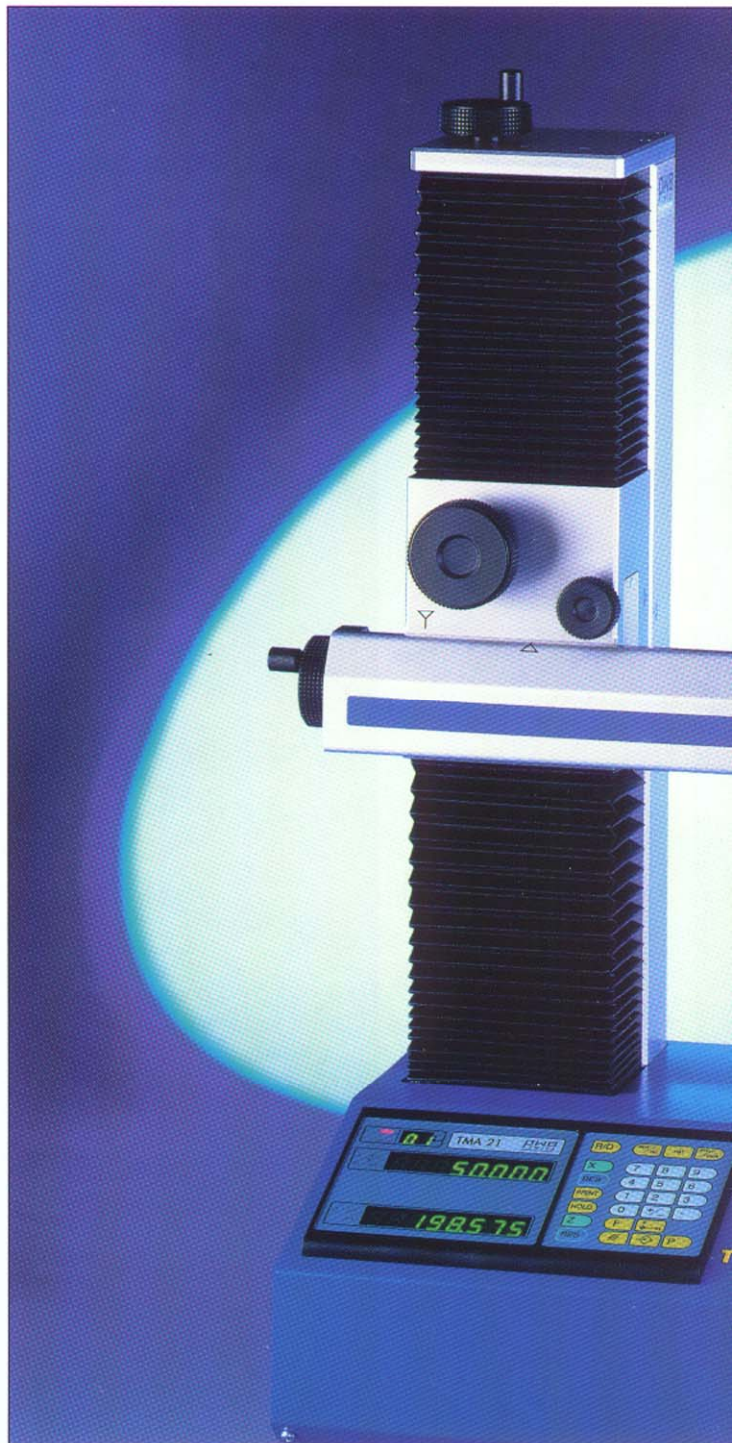
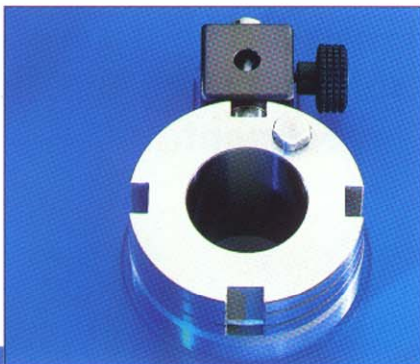
ISO 40 and 50 master mandrels, reduction adapters, VDI holders, special holder can be supplied on request

Master mandrels and reduction adaptors are made of hardened stainless steel



VDI-indexing

Indexing device for VDI tool holders, 4x90°



TOOL MA

The TOOL MASTER 310 is a high-quality piece of equipment with high measurement reliability and ease of operation. Due to the very logical set up of the measuring electronics TMA 21, especially developed for presetters by PWB, no special training is required for your operators.

Instead of low cost slideways, the pre-stressed linear guideways with recirculating linear ball bearing allows absolute precision and fatigue-proof operation. The counterbalance runs on guide bars in the measuring column.