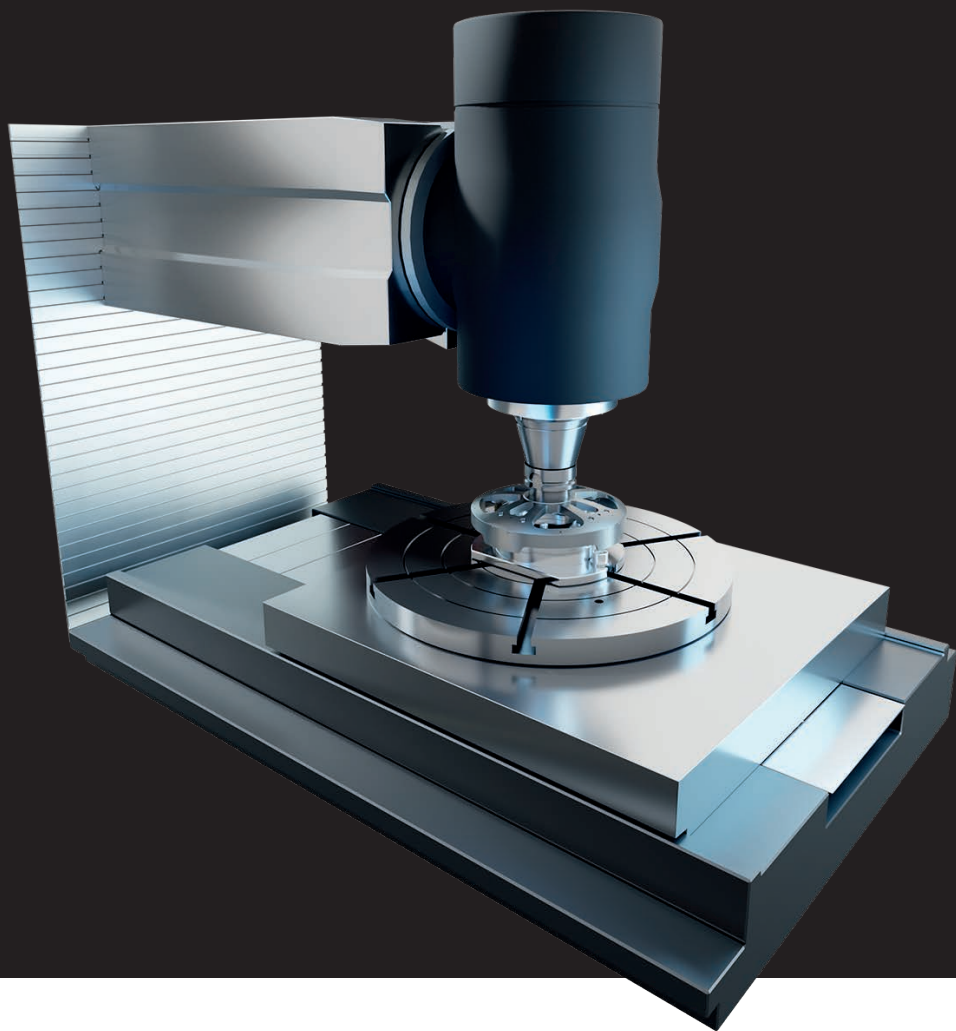


HEIDENHAIN



Machine Calibration

Fast, simple, accurate

www.heidenhain.com

Machine calibration with comparator encoders from HEIDENHAIN—for optimal machining results

Fast

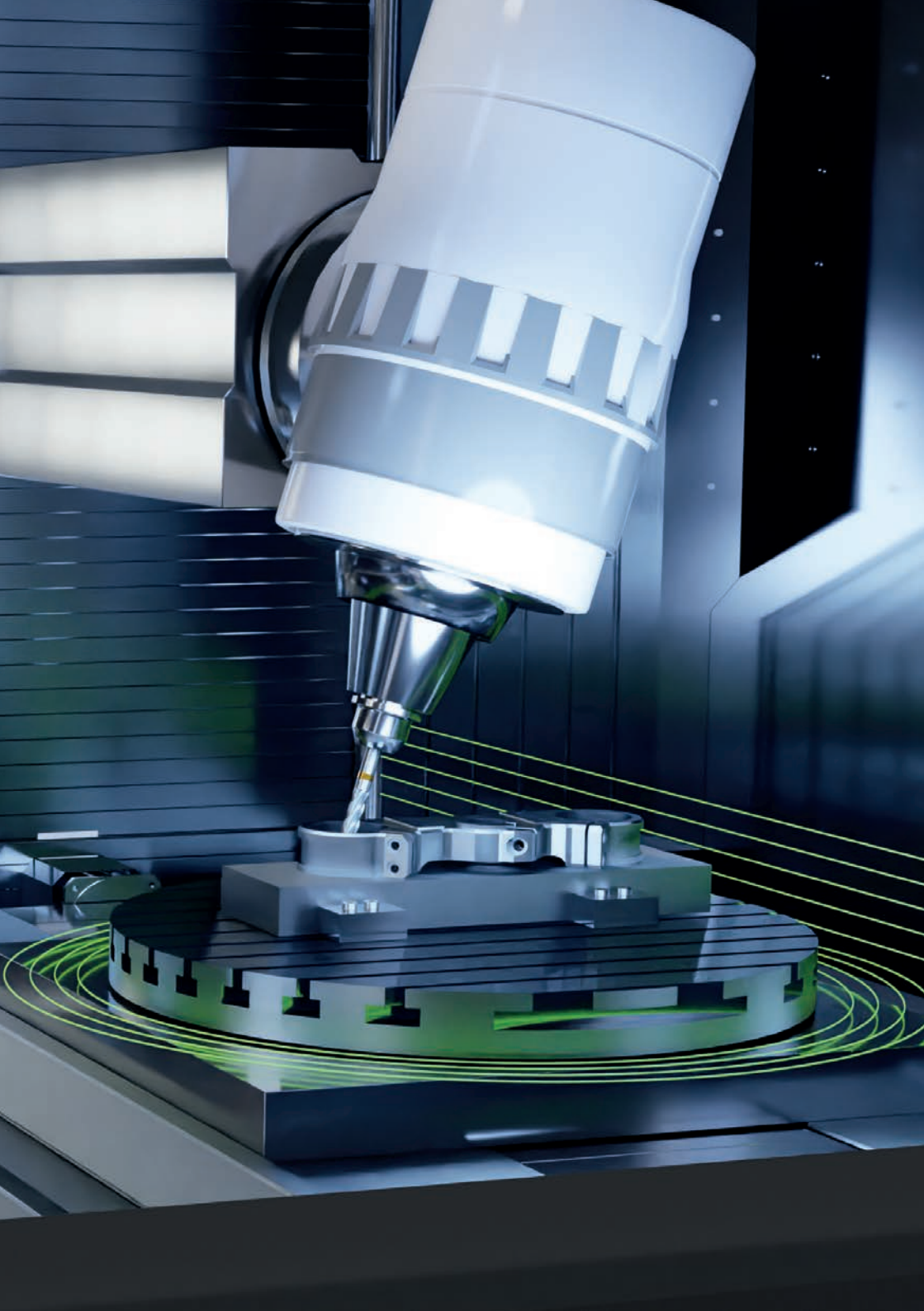
- Wide mounting tolerances
- Ready at all times
- Compact and easy to handle

Simple and robust

- Developed specifically for machine tools
- Wear-free
- Intuitive software

Highly accurate

- Superb system accuracy
- Stable accuracy nearly unaffected by ambient conditions
- Non-contact measurement



Comparator encoder for rotary tables



RVM 4180

Specifications:

- System accuracy: $\pm 0.5''$
- Measuring range: 360°
- Measuring step: $\geq 0.03''$
- Traversing speed: ≤ 100 rpm

Areas of application:

- Inspecting the static positioning accuracy as per ISO 230-2,-3, VDI/DGQ 3441 and JIS B 6190-2
- Analysis of dynamic behavior, with up to 40 kHz data recording, along with data export for user's own analysis



Space-optimized comparator encoder
for swivel axes





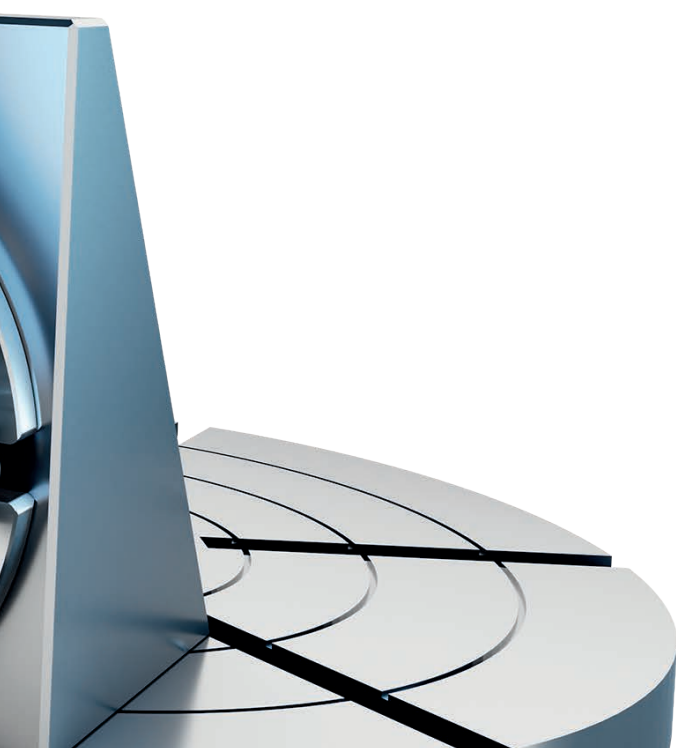
RVM 4280

Specifications:

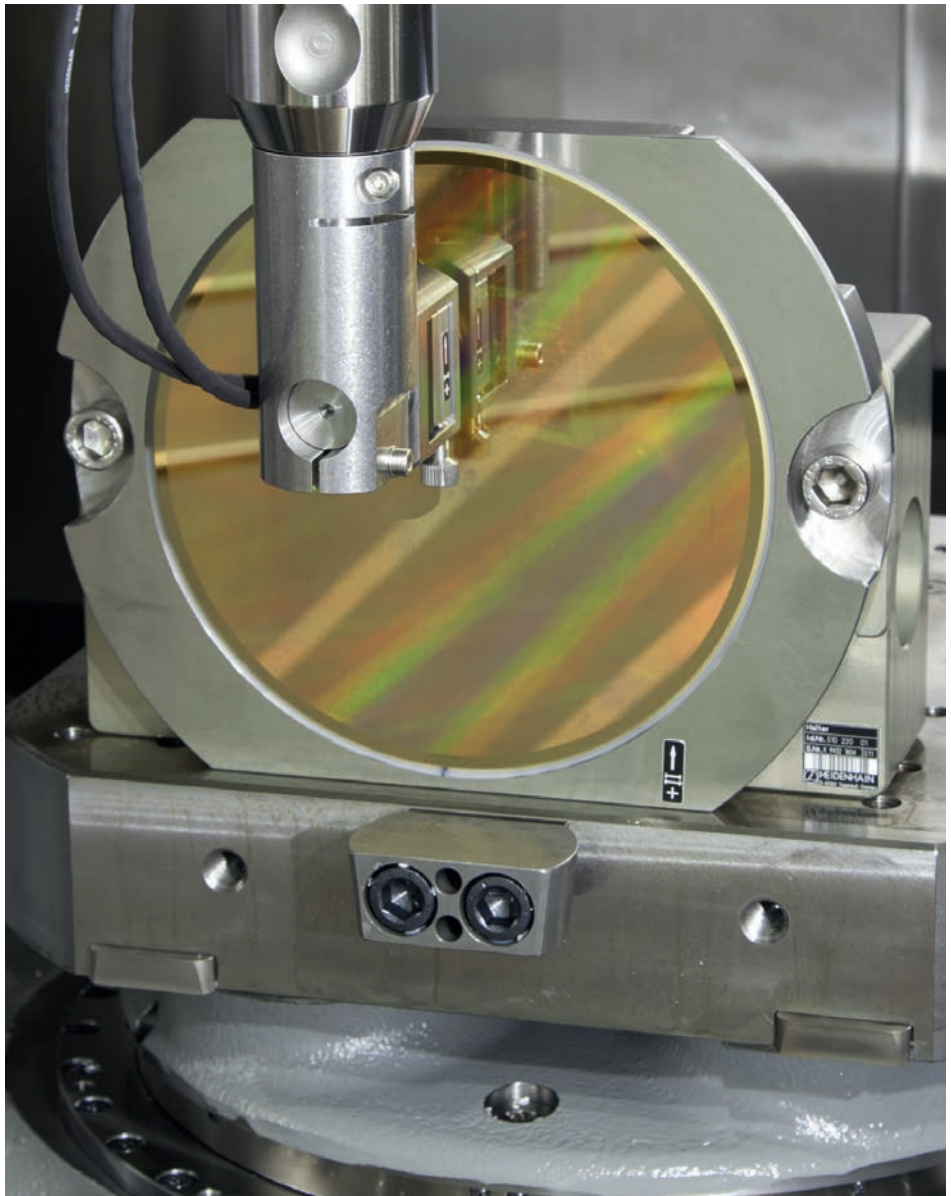
- System accuracy: $\pm 1.0''$
- Measuring range: 360°
- Measuring step: $\geq 0.03''$
- Traversing speed: ≤ 100 rpm

Characteristics:

- Space-optimized variant for calibrating swivel axes and other hard-to-reach rotary axes
- Software-supported mounting design



Comparator encoder for linear axes



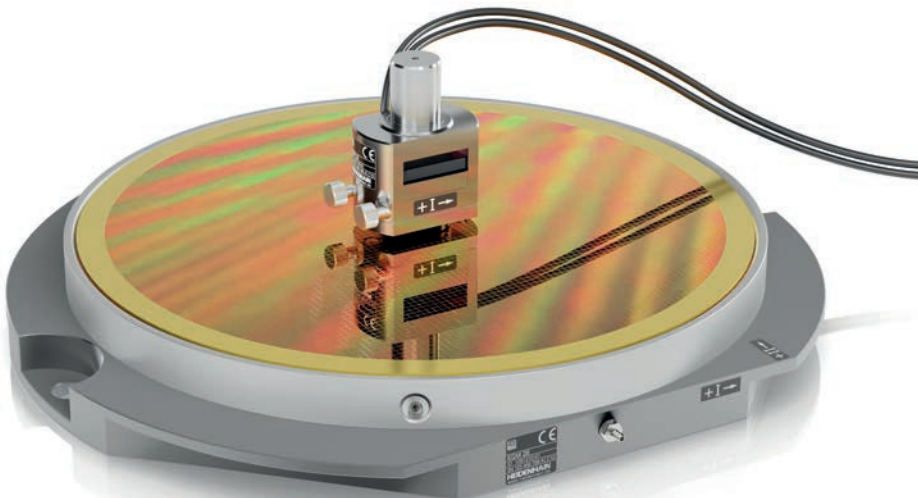
KGM 281 and KGM 282

Specifications:

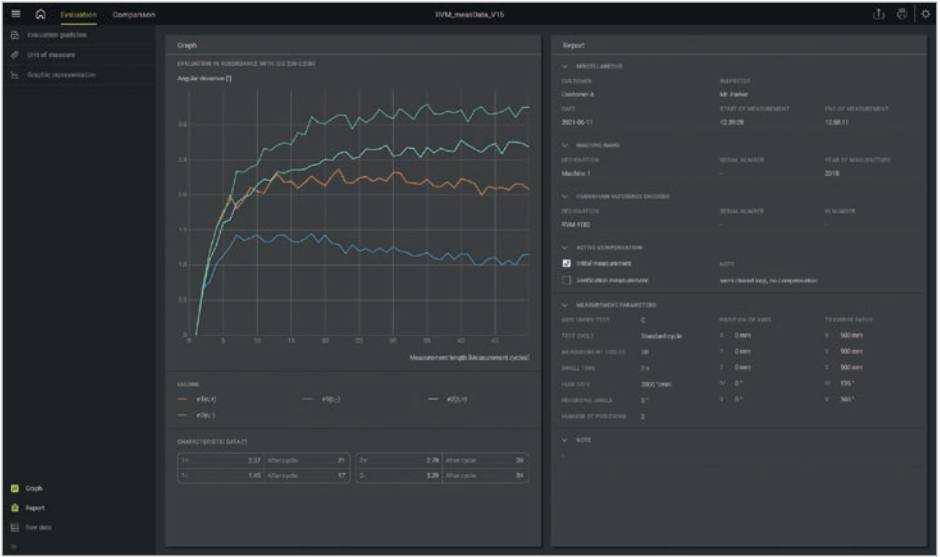
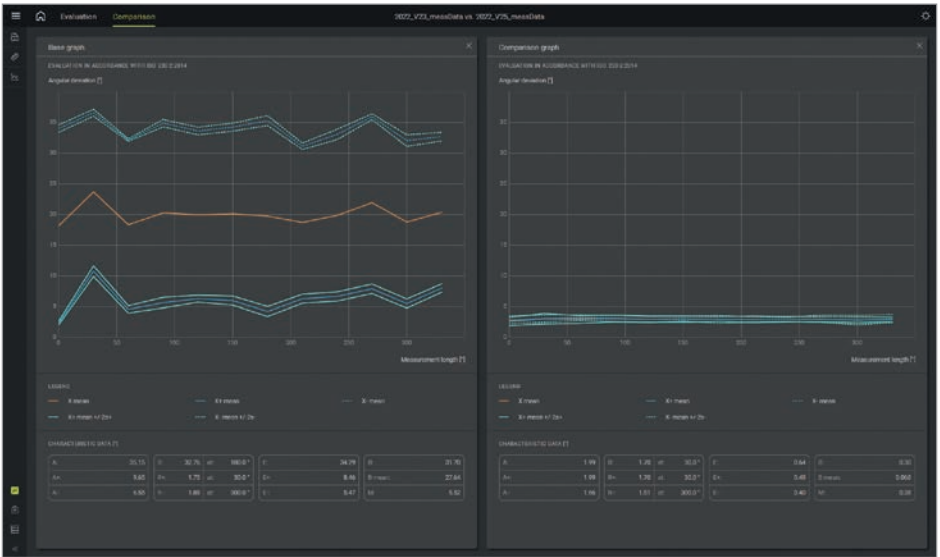
- Accuracy grade: $\pm 1.0 \mu\text{m}$
- Measuring range: $\varnothing 140 \text{ mm}$, $\varnothing 230 \text{ mm}$
- Measuring step: $\geq 0.001 \mu\text{m}$
- Travel speed: $\leq 72 \text{ m/min}$

Areas of application:

- Circularity testing as per ISO 230-4
- Free-form testing (2D contours)
- Acceptance testing as per ISO 10791-6 K2/K3
- Inspecting the static positioning accuracy as per ISO 230-2,-3 and VDI/DGQ 3441 (with ACCOM 4.0, version 1.4.0 or later)



PC software for machine calibration



ACCOM 4.0

Characteristics:

- PC software for use with measurement hardware, forming a system solution
- Intuitive operation
- Separate measurement and evaluation functions
- Ability to export calibration charts and NC compensation tables

Areas of application:

- Acceptance testing with the RVM 4x80
- Acceptance testing with the KGM 28x
- Continuously improved functionality



Further information



www.heidenhain.com/RVM4000



www.heidenhain.com/KGM200



www.heidenhain.com/ACCOM

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