YOUR SUCCESS.
OUR
MISSION.

WENZEL®

INDUSTRIAL MEASUREMENT TECHNOLOGY

HA Series

High Accuracy

WENZEL HA SERIES

Maximum accuracy & reproducibility

The HA series from WENZEL was developed based on the high-quality and market-proven semi-gantry machine architecture of the LH series. At the heart of this design platform is the solid granite machine body, which has been the foundation of numerous premium coordinate measuring machines for years. Granite stands for outstanding thermal stability, high inherent rigidity, and excellent vibration damping—crucial prerequisites for precise and reproducible measurement results in daily use.

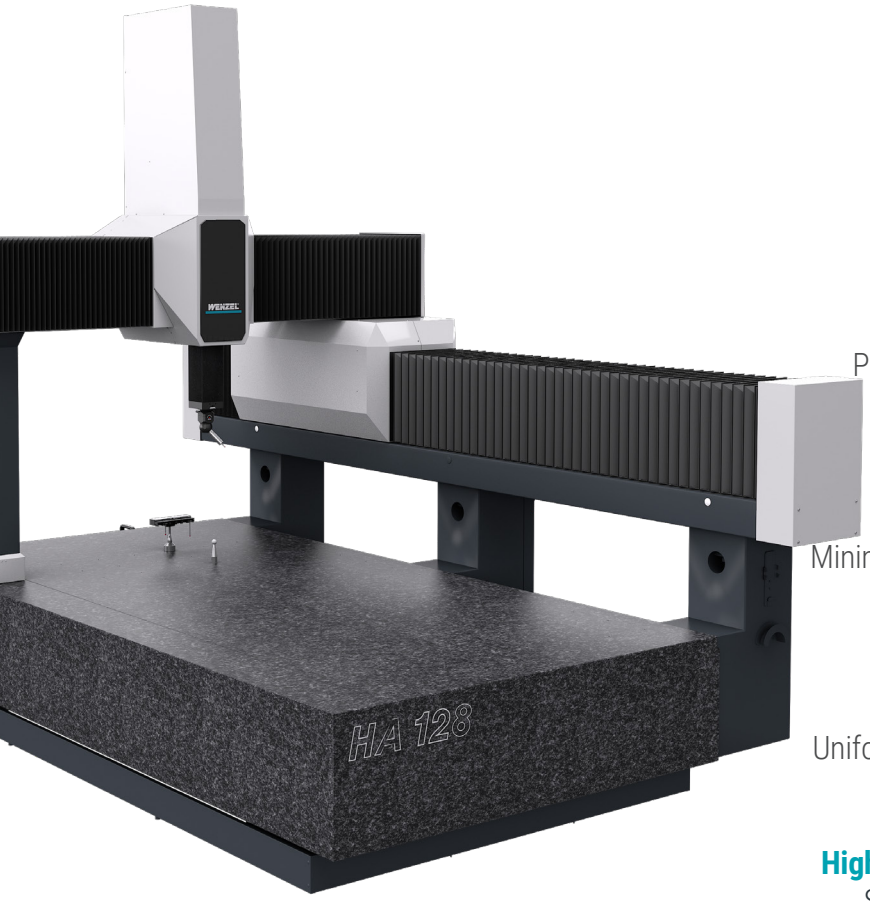
For the HA series, this proven architecture has been specifically further developed and consistently designed for maximum measuring accuracy. Central assemblies, guides, and supporting structures have been structurally optimized, enlarged in size, and redesigned in terms of rigidity, mass distribution, and thermal behavior. Complemented by selected manufacturing processes and extended correction and compensation functions, the result is a coordinate measuring machine that has been specially developed for high-accuracy applications.

The HA series is thus a stand-alone series for maximum accuracy, highest reproducibility, and long-term measurement uncertainty – wherever measurement results serve as a reference and the smallest deviations are crucial.

AREAS OF APPLICATION

The WENZEL HA series is designed for applications that require maximum precision—anywhere where measurement results serve as a reference, processes need to be validated, and even the smallest deviations must be reliably detectable.

- Research and development
- Quality assurance and calibration tasks
- Reference measuring rooms and measuring laboratories
- Analysis of high-precision components and test specimens
- Applications in demanding machine and engine construction
- Measuring tasks with the highest requirements for repeatability and measurement uncertainty



FEATURES

Highest mechanical precision
Portal construction on granite base with increased bearing spacing, solid guide cross-sections, and optimized rigidity

Maximum accuracy & reproducibility
Minimized basic errors and reduced length-dependent measurement deviations – especially for large measurement volumes

Thermally stable machine design
Uniform thermal behavior of all axes thanks to natural hard stone in the base, crossbeam, and quill

High-end sensor technology & software integration
Support for state-of-the-art switching, measuring, optical, and 5-axis measuring systems

Future-proof platform
Preparation for automation, flexible configuration, and long-term investment security

MEASURING RANGE & MEASURING ACCURACY

Type	Measuring range X x Y x Z (mm)	Volumetric length measuring uncertainty $E_{L, MPE}$ (µm) Premium
HA 88	800 x 1500/2000/2500/3000 x 800	up to 0,6 + L/ 500
HA 810	800 x 1500/2000/2500/3000 x 1000	up to 0,8 + L/ 500
HA 108	1000 x 1500/2000/2500/3000 x 800	up to 0,8 + L/ 500
HA 1010	1000 x 1500/2000/2500/3000 x 1000	up to 0,9 + L/ 500
HA 1012	1000 x 1500/2000/2500/3000 x 1200	up to 1,1 + L/ 500
HA 128	1200 x 2000/2500/3000/4000/5000/6000 x 1200	up to 0,9 + L/ 500
HA 1210	1200 x 2000/2500/3000/4000/5000/6000 x 1000	up to 1,1 + L/ 500
HA 1212	1200 x 2000/2500/3000/4000/5000/6000 x 1200	up to 1,3 + L/ 500
HA 1215	1200 x 2000/2500/3000/4000/5000/6000 x 1500	up to 1,7 + L/ 500
HA 1217	1200 x 2000/2500/3000/4000/5000/6000 x 1750	up to 2,1 + L/ 500
HA 158	1500 x 2000/2500/3000/4000/5000/6000 x 800	up to 1,2 + L/ 500
HA 1510	1500 x 2000/2500/3000/4000/5000/6000 x 1000	up to 1,4 + L/ 500
HA 1512	1500 x 2000/2500/3000/4000/5000/6000 x 1200	up to 1,6 + L/ 500
HA 1515	1500 x 2000/2500/3000/4000/5000/6000 x 1500	up to 2,2 + L/ 500
HA 1517	1500 x 2000/2500/3000/4000/5000/6000 x 1750	up to 2,5 + L/ 500

*Volumetric length measuring uncertainty $E_{L, MPE}$ is only valid in the respective accuracy class and with a defined probing system. For more information, please refer to the technical data sheets. Subject to changes in design and scope of delivery, as well as technical developments

INNOVATION MEETS TRADITION

Whether in the automotive industry, aerospace or mechanical engineering - precise measurement technology is the basis for stable processes and the highest product quality. At WENZEL, we offer customized solutions: from coordinate and gear measuring machines to industrial CT systems and high-performance software. Our systems ensure reliable measurement results worldwide - efficient, sustainable and “Made in Germany”.

YOUR CONTACT

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We are there for you worldwide. You can find our branches, sales and service partners at **www.wenzel-group.com**