

INNOVATIONS IN METROLOGY

WENZEL LH GANTRY SERIES

Our solutions for your measuring tasks



WENZEL LH GANTRY SERIES

PRECISE RESULTS WHEN MEASURING LARGE COMPONENTS

The LH Gantry is a CNC coordinate measuring machine with air bearings in all axes. It offers all the advantages and application possibilities of the LH Series and has also been specially designed for the inspection of large-volume and heavy workpieces. The raised guides in the Y-axis also ensure maximum stability and rigidity, even with dynamic movements. Overall, the machine body forms an inherently stable, homogeneous unit with optional integrated active vibration damping, which does

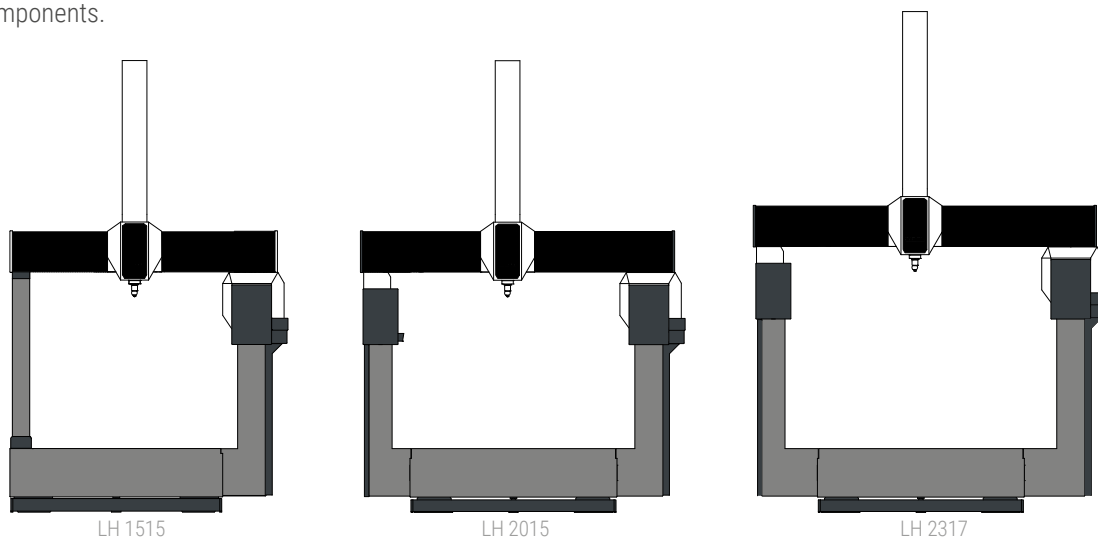
not require a separate foundation. Thermal environmental influences affecting the workpiece and the CMM can be corrected by means of automatic temperature compensation (optional). The optional use of a rotary table means that even large rotationally symmetrical components can be measured flexibly and accurately. LH Gantry series measuring machines are available in Standard, Premium and Premium Select accuracy classes.

FEATURES

- **Long-term stability** and high mechanical precision due to granite machine structure
- **Homogeneous machine structure** and integrated vibration damping (optional), no need for a separate foundation
- **Highest stiffness** and stability due to high drive, bearing and guide components in the Y-axis
- **High dynamics** due to double drive (LH 2015 / LH 2317) in the Y-axis and backlash-free friction drives
- **High wear resistance** and freedom from residual stress due to robust granite design
- **Maintenance-friendly** thanks to maximum spare parts availability and easily accessible replacement components

FIELDS OF APPLICATION

Stable, reliable and fully dynamic, LH Gantry machines are universally and flexibly applicable for a wide range of applications. Typical areas of application are, for example, the measurement of large engines, large gears or heavy machine components.





MEASURING ACCURACY

Type	Measuring ranges X x Y x Z (mm)	Volumetric length measuring uncertainty $E_{L, MPE}$ (μm) Premium Select
LH 1515	1500 x 2000/3000/4000 x 1500	2,5 + L / 450
LH 2015	2000 x 3000/4000/5000 x 1500	2,8 + L / 450
LH 2317	2300 x 4000/5000/6000 x 1750	3,1 + L / 450

Value $E_{L, MPE}$ only valid for SP80/SP25M/REVO touch probes.

Other Y-lengths on request. Subject to changes in design and scope of delivery as well as further technical development.

YOUR ADVANTAGES AT A GLANCE

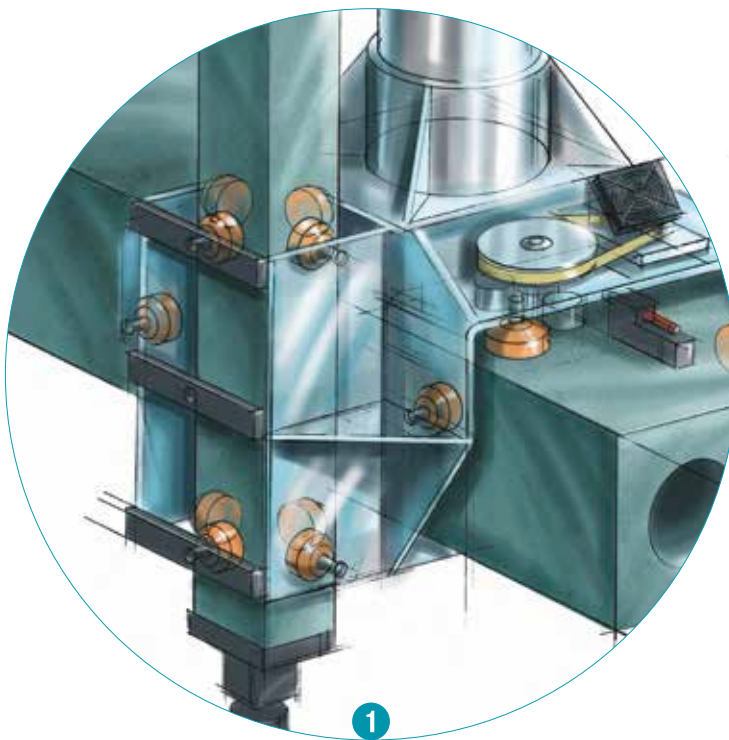
- Air bearing guide elements in all axes**
 High mechanical precision | Granite base | Handcrafted
- Low operating costs**
 Low air consumption | Reliable and inexpensive spare parts
- High flexibility**
 Customer-specific measurement volume |
 Data compatibility with other WENZEL systems |
 Automation solutions
- Versatile sensor options**
 Switchable sensor systems | 3- or 5-axis scanning |
 Optical sensors
- Ergonomic design**
 Simple operation | Simple maintenance |
 No foundation necessary

THE LH GANTRY-FEATURES

GUIDANCE FROM ABOVE FOR STABLE DYNAMICS

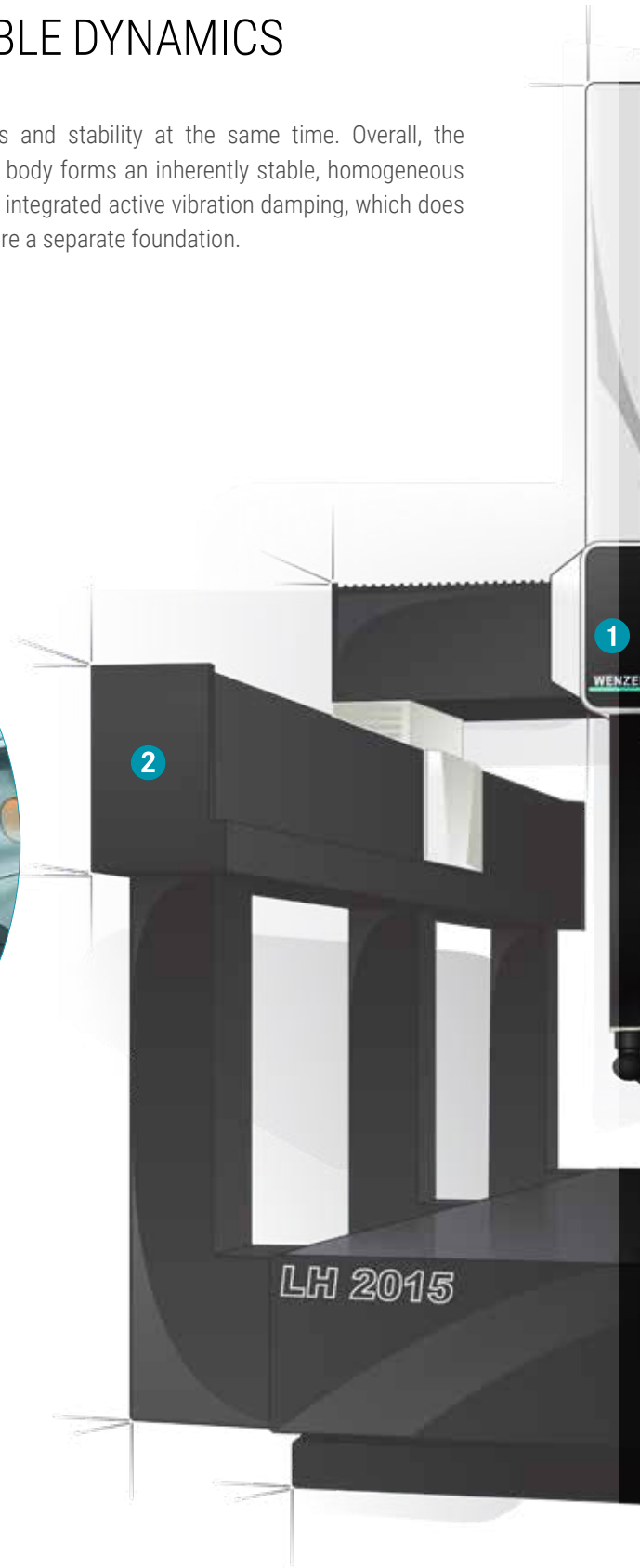
Air bearing guide elements in all axes of the LH Gantry ensure wear-free operation and optimum guidance characteristics. The same thermal behaviour of all axes is guaranteed by a base plate, traverse and quill made of dark natural hard stone. The stiff construction in combination with a double drive of the Y-axes guarantees highest

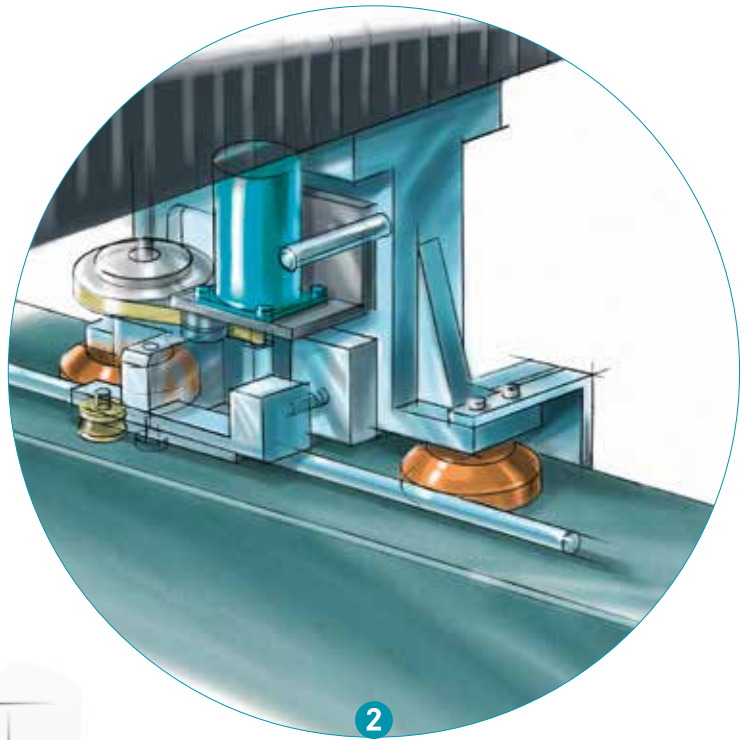
dynamics and stability at the same time. Overall, the machine body forms an inherently stable, homogeneous unit with integrated active vibration damping, which does not require a separate foundation.



Symmetry everywhere

- Optimized air bearing with "broad base"
- Perfection in detail
- Service friendliness
- Thermal stability





Double drive in the Y-axis for LH 2015

- High dynamic

INNOVATION MEETS TRADITION

The WENZEL Group is a market leader in innovative Metrology. WENZEL offers a comprehensive product portfolio in the fields of Coordinate Metrology, Computed Tomography and Optical High Speed Scanning. The technology of WENZEL is used in all industries, including the automotive sector, aeronautics, power generation and

medicine. WENZEL looks at today on an installed base of more than 10,000 machines worldwide. Subsidiaries and agencies in more than 50 countries support sales and provide after-sales service for our customers. The WENZEL Group today employs more than 600 people.



YOUR LOCAL CONTACT

Wenzel America Ltd

28700 Beck Road

Wixom MI 48451 USA

Phone: +1 (248) 295 4300

E-Mail: sales@wenzelamerica.com

www.wenzelamerica.com

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