

RH series

A shop-floor bridge CMM with mechanical bearings

The **bridge machine** is equipped with an efficient dual drive system, has linear guides in the X and Y-axis and is roller-mounted in the Z-axis, which guarantees backlash free operation due to pre-defined pre-loads.

The X and Y guides are covered with bellows to protect against contamination and minimize thermal effects. Available with optional vibration damping, which makes it ideally suited for

installation close to production operations. The base plate made of grey cast iron is machined in accordance with DIN 876/2.

RH 2016

Effective range (mm)

X-Axis	Y-Axis	Z-Axis
2000	3000	1600
	4000	
	5000	

RH 2020

Effective range (mm)

X-Axis	Y-Axis	Z-Axis
2000	3000	2000
	4000	
	5000	

Other measuring ranges on request. Technical information available in specific data sheet.



The RUF

Inspection from below

The **RUF underfloor measuring machine** is the ideal supplement to the RAD and RADplus measuring centres when workpieces also need to be measured from below.

The underfloor measuring machine

combine a high level of precision with superb robustness.

The measuring area of the RUF generally derives from the size of the associated RAD machine.



Both RA and RAplus series can be supplemented with the RUF allowing the workpieces to be measured from underneath.

Customized solutions

Customized

Modular designed systems are WENZEL's strength. Individual solutions based on discussions with Customers can be offered, which allows an optimum customization of measurement needs.

Whether it is special probe extensions made of carbon fibre composite materials, automatic workpiece palletizing systems or a special design of high-precision coordinate measuring machine –

WENZEL is your qualified partner for providing complete systems: From extensive planning, to design, to application support.



Phoenix

The Optical Sensor

The Phoenix optical sensor utilizes an innovative design principle, which is tailored to the application of "non-contact measuring of

points and geometry", and offers increased measuring speed over tactile sensors.

Compared to other optical sensors, the Phoenix offers greater flexibility and speed.

The sensor is mounted directly on the Renishaw PHS or PH10M heads via the auto joint adapter.

An extremely narrow-band, holographic filter effectively limits the influences of ambient light and thereby increases the stability of the measurement results.

Sequential laser projection enables a consistently precise line assignment. The dual, staggered laser line solution eliminates the requirement of having to use an expensive 6th axis of rotation.

Acquisition of the complete feature in one shot increases measuring speed compared to touch probes.

The feature extraction is done by the sensor itself, which enables fast data throughput to the Metrosoft CM measurement software.

Hidden under the housing is a hybrid system with a high-resolution CCD camera for image processing in the X-Y plane and multiple laser triangulation for distance measurement in Z.

By means of a LED ring lamp, the area for measurement surface is homogeneously illuminated.

Phoenix

Dimensions	∅ 120 x 90 mm
Working distance	100 ± 5 mm
Field of view	30 mm x 40 mm
Image acquisition	< 0,65 s
Measurement uncertainty	± 25 µm

