

Helios Arm CMM

Helios is a portable measurement arm, designed for acquiring 3-dimensional measuring points & surfaces on its work-space with a simple manual movement of the user using a touch probe or the AEHScan scanning laser head.

Helios arm is made of aeronautical aluminum, with high precision optical transducers (encoders) on its joints. The structure assures a good accuracy and guarantees the maintenance of the calibration for a long time.

You can use the Helios arm with a common laptop PC. The electronic board communicates with PC through a USB direct link cable. Points acquisition and commands of the software menu is made by 3 buttons on the probe or by foot pedals.

Helios arm is integrated with many commercial CAD/CAM softwares such as Delcam (PowerShape and PowerInspect), AlphaCAM and Rhinoceros, Capps-nt and etc..

Helios is available with certificate of accuracy, electromagnetic certification compliance and CE Certificate. Upon request, there's also SIT certificate according to ISO-EN10360-2 norm for customer.

Helios is an ideal instrument for digitization and metrology application, and responds to all requirements of acquisition of samples to elaborate them with a CAD software or working on CNC machine.

Application fields:

- ◆ Reverse engineering: with software for reverse-engineering such as Baces Mesh or CAD modeling sw
- ◆ Quality Control : comparing the CAD model with the real measured model, using metrological sw

Technical characteristics:

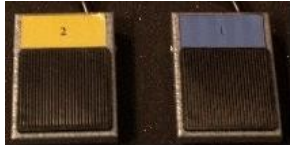






Model	Axis	Measure diameter	Repeatability (Test with sphere)	Volumetric Uncertainty	Weight (with base)
Series 100				2 sigma	
Helios M100/6	6	2600mm	±0,035mm	±0,060mm	3.9 Kg
Helios G100/6	6	3200mm	±0,050mm	±0,090mm	4.2 Kg
Series 200 USB					
Helios M200/5	5	2600mm	±0,060mm	±0,100mm	3.6 Kg
Helios G200/5	5	3200mm	±0,080mm	±0,150mm	3.8 Kg
Helios XG200/6	6	4200mm	±0,115mm	±0,300mm	4.5 Kg



The arm include: power-supply, serial cable (1,8) and spherical stylus.

Pedals or probe with buttons, accessories and softwares are to order separately.

The arm of measure Baces3D has a series of accessories that guarantees the best conditions of use for the different typologies of acquisition.

	<p>Foot pedals Double pedal for quote acquisition and software command.</p>
	<p>Probe with 3 buttons Handle with buttons for quote acquisition and software command.</p>
	<p>Spherical stylus Renishaw stylus with \varnothing 4 mm rubin.</p>
	<p>Conical stylus Conic stylus with insert in super-rapid steel.</p>
	<p>Squared stylus Rotating probe for border acquisition.</p>
	<p>Measuring head Renishaw probe for automatic measure acquisition.</p>
	<p>Laser Scanner for non-contact reverse-engineering or inspection. This scanner can be attached using the specific probe with 2 or 3 buttons. 20000 points per second, accuracy is 50 micron</p>