

Mar4D PLQ 4200: Fast and precise measurement during production

The cylinder coordinate measuring machines from the Mar4D PLQ 4200 product line measure rotationally symmetrical workpieces with more flexibility and more conveniently than ever before. They operate at the highest speed and level of precision providing fast and reliable measuring results.

With the Mar4D PLQ 4200, Mahr provides its customers with a high-performance measurement solution for complex rotationally symmetrical workpieces. The multisensor system covers a particularly broad range of dimensional measuring tasks. The new machine also has a particularly sturdy design enabling 3D measurements to be completed directly during production, as well as offering shorter processing times and thus increased throughput and excellent productivity rates.



Advantages

- Future-proof thanks to combined measuring technology: optical and tactile solution in one machine
- Versatile: Check several features such as the length, diameter, form, position, contour, roundness, roughness, or 3D geometries, such as the symmetry, during a single measuring run
- Fast and precise: Unique speed and optimum axis accuracy even as the tolerances become smaller achieved thanks to specially developed control architecture
- Flexible for workpieces with a diameter up to 200 mm, a length of up to 1000 mm. and a weight of up to 50 kg
- Ergonomic operation and unique safety concept

Fast alignment

The motorized tailstock with clamping force monitor secures the workpieces perfectly without operator intervention.

Process reliability when measuring

Monitoring systems in the machine record and compensate for external influences, such as temperature, vibrations and position in real-time.

Ergonomic design

The sophisticated design of the machine guarantees easy and safe operation.

Reliable software

Thanks to its clearly structured user interface, the MarWin platform software is very user friendly: learn once, apply again and again.

Universally applicable

The multisensor technology of the Mar4D PLQ 4200 enables measurement of various rotationally symmetrical workpieces directly in production.



Detailed information can be found on our website.
<https://metrology.mahr.com/en/mar4d-plq>