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Swiss Rotary Table Technology

NEWSLETTER

Manual rotary table for simple measurement tasks

MQ measurement technology:
MA-508 Q-Line



The entry-level model of the Q-Line from pL LEHMANN: the manual, super-flexible MA-508.m Q rotary table. The QuickMover adapter plate can be seen below the rotary table, the handwheel on the left and the digital display on the right. Images: pL LEHMANN

The super-flexible MA-508.m Q rotary table from pL LEHMANN improves the efficiency of a measuring device for use on the shop floor.

pL LEHMANN has developed a rotary table program optimized for measurement technology – the MQ series. The Swiss manufacturer offers two distinctly different models, the «Q-Line» and the «M-Line». While the «Q-Line» can be retrofitted to almost any measuring device at any time and automated if required, the «M-Line» is available from the measuring machine manufacturer (OEM) as a fully integrated model.

The Q-Line is ideal for stand-alone use. It is suitable for both new and retrofit equipment of coordinate measuring machines (CMM), for example, from all established manufacturers and also of other measuring devices (for roundness, contour, surface...), which it transforms into versatile measuring stations.



The QuickBar precision stop ensures fast alignment and simple referencing of the rotary axis, mounted on the surface or at the edge.

As an entry-level model – suitable for simple applications on the shop floor or in measurement laboratory – pL LEHMANN offers the manual, super-flexible rotary table MA-508.m Q. It can be combined with height, contour, and surface measuring devices and is recommended for run-out test equipment and coordinate measuring machines. Users can set different ratios to fast or slow in just a few steps. A smooth-running, sensitive handwheel makes it possible to approach any position very precisely and unerringly. A fold-out digital display shows the angular position with a resolution of 0.001°.

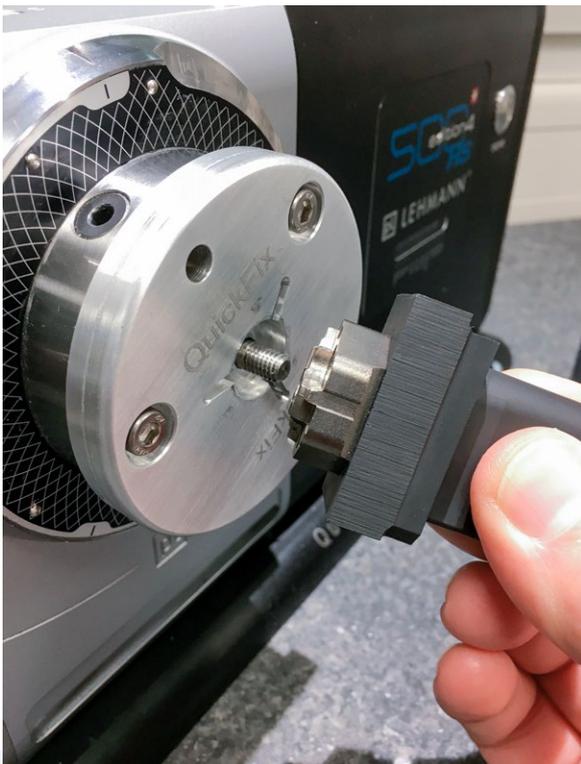
pL Q-Line rotary tables are optionally available in a housing made of aluminum (e.g. for transmitted light systems) or of spheroidal graphite iron (e.g. for CMMs). In addition, each unit is equipped with an emergency stop switch to meet the high safety requirements.

Special accessories are available for quick and easy use of the Q-Line rotary tables. Particularly helpful is the QuickMover, which can be used instead of the base plate of the rotary table as an interface to the measurement table. By pressing a push-

button, the user can gently move the rotary table and bring it into position thanks to an air cushion. The QuickBar precision stop ensures fast alignment and simple referencing of the rotary axis.



The grid board, with an M8 or M10 thread, is the ideal platform for additional tooling such as stands or universal adapters from DK.



A simple zero-point clamping system (here QuickFix for the 3R system) ensures swift retrofitting.

CNC rotary tables with Swiss quality

Founded in 1960 strictly as a contract manufacturer, pL LEHMANN has been developing and producing CNC rotary tables for over 40 years. With innovations and Swiss quality, the family-owned company in the Swiss town of Bärau (Emmental) succeeded in opening up new opportunities for its customers and developing lean machining solutions characterized by high productivity through use of additional NC axes. One of the highlights of the company's history is the powerful and flexible Series 500 – developed in 2009 – which is ideal for the most demanding tasks thanks to its modular design. With the backlash-free, preloaded PGD gear unit – developed in 2014 – pL LEHMANN reached another milestone. In 2017, the company introduced, among other things, the new pL-iBox generation, making their rotary tables ready for Industry 4.0 and digital production. This was followed in 2019 by the introduction of the Series 900 DD (Direct Drive) rotary tables with speeds of up to 5,450 rpm. As an additional new product, the AM-LOCK system, a special zero-point clamping system for 3-D printing, including preprocessing and postprocessing, was presented in 2019.

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