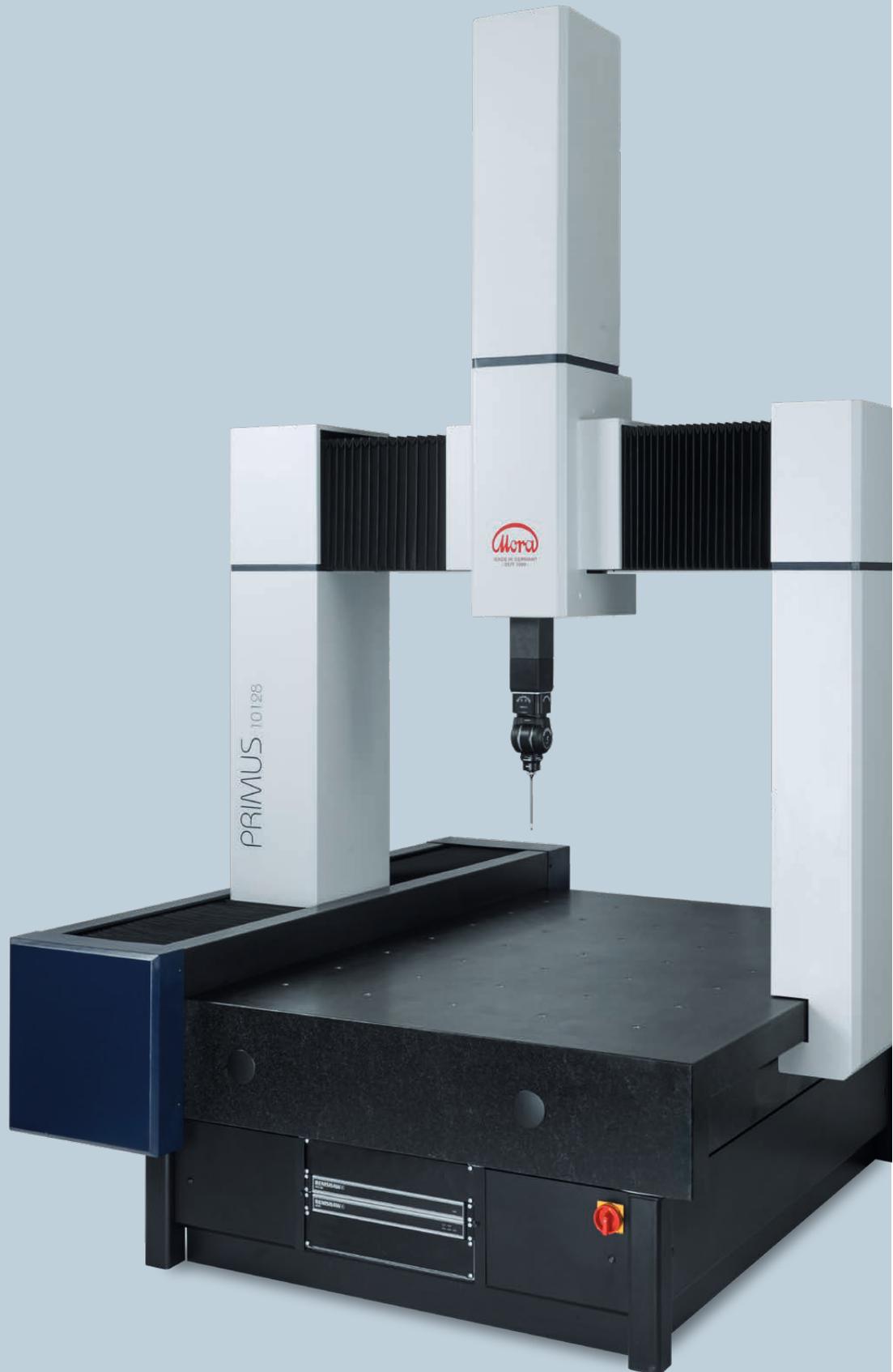




Bridge type machines

Primus / Primus L / Primus GT



Precision made in Germany

Primus

Description

Our bridge type measuring machine Primus presents a compact and stable machine concept, which is rounded by high-precision air bearing guidance and dynamic gears in all axes. A high-precision scale system in conjunction with a powerful controller guarantees the accuracy of the machine. By using granite in all axes, we ensure a constant thermal behavior of the coordinate measuring machine. Our bridge type measuring machine Primus you can find in all divisions of the production and the quality assurance. If in the prototype construction or in run-production - the Primus is applicable universally.

Measuring ranges and accuracy

Axis	X/length	Y/width	Z/height
From	500	700	500
Up to	1500	5000	1200

Accuracy: 1,3 + l/300

The stated accuracy true for the smallest measuring range and for a surrounding temperature of 20° C.
Special sizes and special accuracies available on request.



Primus L

Description

Our bridge type measuring machine Primus L presents a compact and stable machine concept. The mass which is moved is reduced because of the overhead guide axis. That is why we can realise a bigger measuring range of the other axes without resigning the dynamic and accuracy. The Primus L has also, like the Primus, high-precision air bearing guidance and dynamic gears in all axes. The high-definition scale system in conjunction with a powerful controller guarantees a tight accuracy.

Measuring ranges and accuracy

Axis	X/length	Y/width	Z/height
From	1200	1500	1000
Up to	1800	4000	1600
Accuracy:	1,9 + l/300		

The stated accuracy true for the smallest measuring range and for a surrounding temperature of 20° C.
Special sizes and special accuracies available on request.



Primus GT

Description

The high-portal measuring machine Primus GT has, compared to the Primus L, two overhead guide axes, which are furnished with a dynamic and high-precision twin drive. Separated by this weight reduction of the mass which is moved we can realise huge measuring ranges without resigning the dynamic and accuracy. The Primus GT has also, beside the Primus and Primus L, high-precision air bearing guidance and dynamic gears in all axes. The high-definition scale system in conjunction with a powerful controller complete the entire machine concept.

Measuring ranges and accuracy

Axis	X/length	Y/width	Z/height
From	2500	3000	1800
Up to	3500	10000	3000

Accuracy: 5,5 + I/1000

The stated accuracy true for the smallest measuring range and for a surrounding temperature of 20° C.
Special sizes and special accuracies available on request.

Additional options for all measuring machines

- » Active shock absorption
- » Active temperature compensation in all axes incl. workpiece
- » Air preparation facilities (e. g. air dryer)
- » Delivery systems and palletising systems

Primus GT -
Bridge type machine



Controller and handboxes

Controller

We offer a wide range of controllers for all types of coordinate measuring machines. The field of application is unlimited. Whether layout-CMMs, bridge type CMMs, gear measuring machines, milling or controller of special machines – we have the exact solution! The controller supports a plurality of probe heads and scan interfaces. At any time, they are expandable with several options such as a temperature compensation. You don't need an additional software because of the INCA3D software-driver. This increases the user-friendliness and of course also the safety of operation. Certainly, there is also the possibility to connect the controller with the measuring software via I++ Interface.



Handboxes

The usability of the measuring system by a handbox is an important item of the daily work. The used handboxes provide you with a remarkable performance, an ergonomic design and high functionality with their robust and light case, even by difficult operating conditions like in a production area. Whether with a cable version or a wireless version, with a display or without we offer you the best ease of use.

Cable handbox

- » Robust and reliable
- » Economical standard solution
- » Well-tried technology
- » Ergonomic design, intuitive handling

Wireless handbox

- » Robust and reliable
- » Free programmable
- » Touch screen with all important information at first sight



Probe Systems

Primus GT is compatible with various probe systems:

- » PH6 fixed probe head
- » PH10T motorised indexing probe head
- » PH10M motorized indexing probe head
- » PH20 continuously indexing probe head
- » REVO continuously indexing probe head
- » TP20 probe system
- » TP200 probe system
- » SP25 scanning probe
- » Alternative probe systems on request
- » Optical 3D sensors on request
- » Change racks for our probe systems on request



PH10M with TP20 probe system



PH10M with SP25 scanning probe



PH20 continuously indexing probe head



PH10M with TP200 probe system



REVO continuously indexing probe head

Software

INCA3D Highlights

INCA3D is suitable for multisided applications for example at automobile industry, aerospace, design area, modeling, tool manufacture and measuring of free forming. You can use our software both with manual machines, CNC machines or measuring arms. The used mathematical calculation methods are certificated by PTB. The analysis of GD&T is done to ISO 1101 and ASME Y14.5M. INCA3D has an intuitive and automatic action recognition. Furthermore, INCA3D has an own DMIS converter and a bidirectional I++ DME Interface (server & client).

INCA3D is intuitive and easy to use for example for geometry, CAD measurement, 3D point cloud management, scanning, milling, statistic and offline programming on the same operating interface. Because of the high-power label and report editor you can create any kind of significant measurement reports easy and quickly.

INCA3D support

- » Tactile, scanning and contact-free probe systems
- » Manual and automatically indexable and continuously probe heads
- » Change racks
- » Additional axis such as rotary tables
- » Complete machine error correction (CAA) calculation via 21 parameters
- » Machine and workpiece temperature compensation
- » Duplex and triplex management in real time via TCP / IP with automatic synchronization and crash prediction
- » Additional Software options, such as different output formats, multipart execution, high level extensions, macros, tube check
- » Incidentally most machines of other manufacturers can be retrofitted to INCA3D Software.



INCA3D user interface



INCA3D freeform measurement



PRIMUS L 253015 double

Mora
MADE IN GERMANY
SERIE 100

PRIMUS L 253015 double





PRIMUS 10128

Mora
MADE IN GERMANY
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