

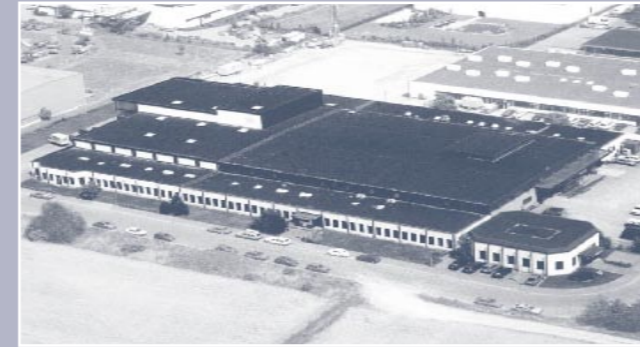
bridge type machines – Euroϕ

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MORA MT
Production and marketing of high-precision milling machines for design facilities particularly



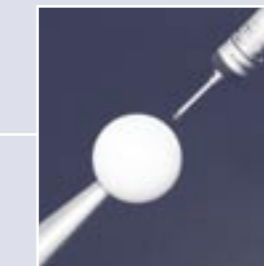
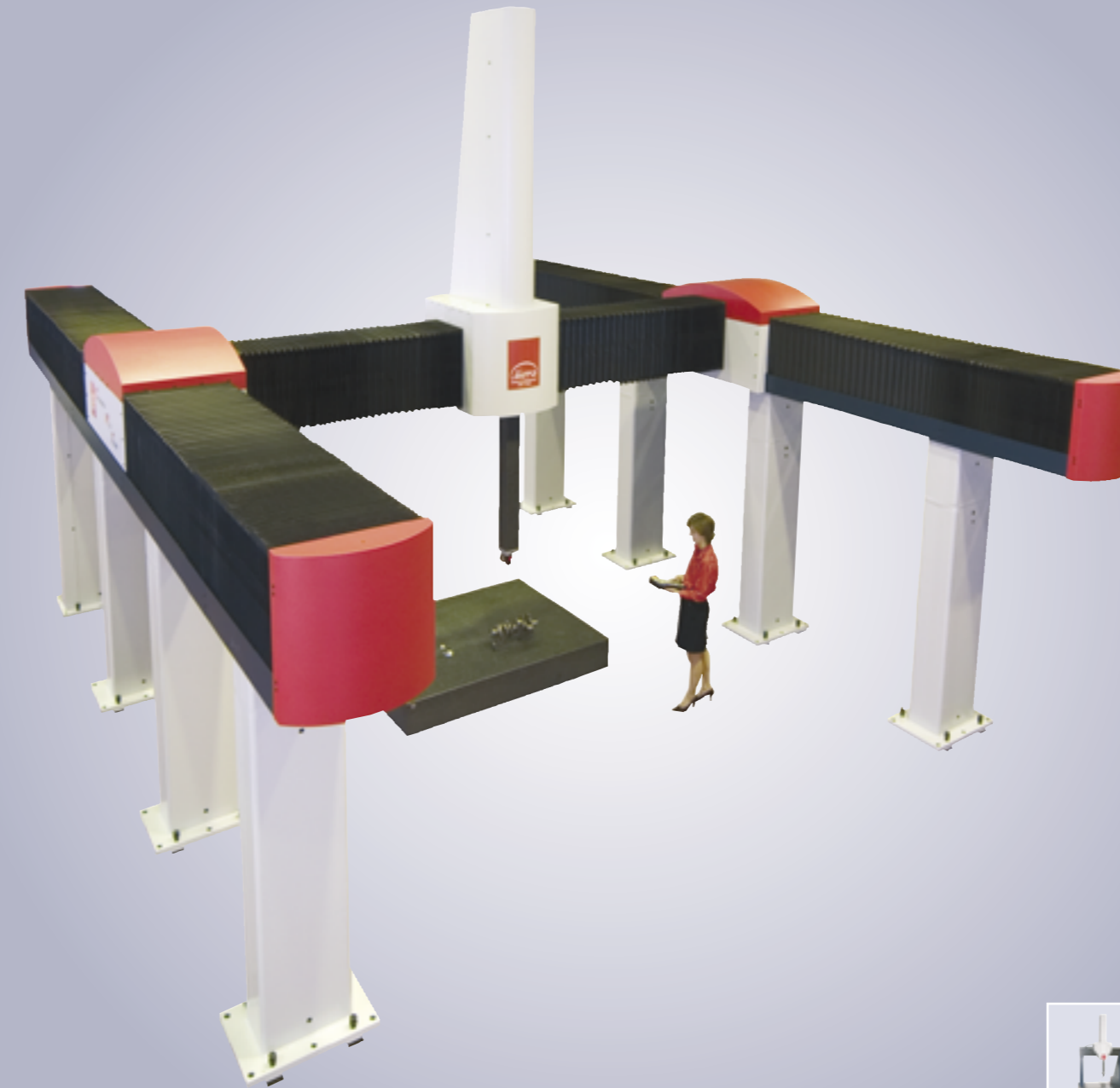
GEMODEK
founded 1981
Production and marketing of electronic components as well as retrofit of 3 coordinate-measuring-machines



INSPECT 3D
founded 1999
Development and marketing of 3D-measuring-software



PROTEC
founded 1999
Trading in measuring instruments



MORA: Your partner in 3-coordinate measuring technique

MORA coordinate measuring technique – this means nearly 100 years of experience. Since 1909, we have supported industries to keep and improve their quality standards.

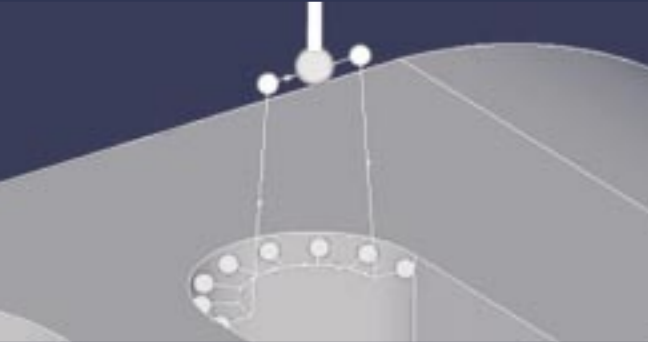
Our machines distinguish themselves by their highly precise execution as well as by their solid construction. The possibilities of application are increased by modern software programs and non-contact sensor systems.

MORA coordinate measuring machines – this means:

- durable measuring accuracy
- solid construction
- user-friendly operation
- non-contact reading
- forward-looking software
- individual service

for extreme demands – MORA Product line Euroϕ:

- high-accuracy natural stone guides permanently ensure excellent measuring accuracy,
- precision air-cushion bearings, tried and proven thousands of times, assure high measuring accuracy, reduce energy input, and guarantee smooth, low-vibration movement,
- non-contact scale rules ensure wear free, high-precision data acquisition on all axes, resolution: 0,075 µm / 0,15 µm
- especially suitable for laser scanning and other non-contact measuring and scanning systems
- can be equipped with active vibration damping systems,
- pneumatic counterweight for Z axis,
- driving systems: digital motors and special gear



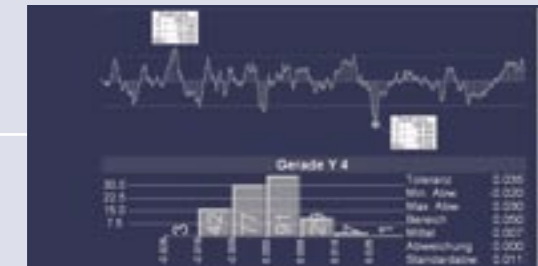
Modern measuring technique considerably contributes to

- a reduction of costs and
- to an improvement of quality in the whole production process.

These effects are even more increased by software programs being easy to operate and, at the same time, being able to cope with all measuring tasks of the process. The philosophy of Inca 3D is based on these principles.

Inca 3D can be delivered on 4 different levels; the corresponding packages can be extended by several options.

All MORA coordinate measuring devices are integrated on machine side. In addition, a great number of interfaces to other products are available. For more detailed information, please ask for our software catalogue and/or look on our internet page: www.inspect-3d.com



Features:

- modular structure of desk top
- based on Windows
- a program for:
 - measuring of standard geometries
 - measuring of free form areas
- creation of measuring processes via online and offline tools
- graphic representation of measuring steps
- CAD Viewer
- direct CAD interface (IGES, VDA, CATIA, Pro-E...)
- multiplex mode
- DMIS-, I++ Engine
- scanning
- great number of output formats
- label- and report editor and so on

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You will find our agencies all over the world under: www.mora-cmt.de
or contact us directly: vertrieb@mora-cmt.de



C OORDINATE
M EASUREMENT
T ECHNOLOGY

Euroμ 1 – the compact measuring device for smaller work pieces is especially used for checking arriving goods and for first samples. Special accuracies are possible on request.



Euroμ 1

type	measuring range			dimensions for external size			standard accuracy		high accuracy	
	z-axis	y-axis	x-axis	length	width	height	MPE _E [*]	MPE _P [*]	MPE _E [*]	MPE _P [*]
0201.04.06.05	400	600	500	1300	1380	2230	2,3 + L/400	2.5	1,8 + L/400	2.0
0201.04.06.10	400	600	1000	1800	1380	2230	2,3 + L/400	2.5	1,8 + L/400	2.0
0201.04.08.05	400	800	500	1300	1580	2230	2,3 + L/400	2.5	1,8 + L/400	2.0
0201.04.08.10	400	800	1000	1800	1580	2230	2,3 + L/400	2.5	1,8 + L/400	2.0
0201.04.08.15	400	800	1500	2300	1580	2230	2,3 + L/400	2.5	1,8 + L/400	2.0

*DIN EN ISO 10360 -2 (U3)/ specification in μm - ambience temp. 20°C ± 2° C - air usage 5-7l/min. (by 6,5 bar measured at machine-side) - resolution 0,075 μm changing system (ACR 3; MCR 20; SCR 200) - special dimension and accuracy on demand

Euroμ 2 – the 3-coordinate measuring device of multiple use for small and medium-sized work pieces.



Euroμ 2

type	measuring range			dimensions for external size			standard accuracy		high accuracy	
	z-axis	y-axis	x-axis	length	width	height	MPE _E [*]	MPE _P [*]	MPE _E [*]	MPE _P [*]
0202.06.08.10	600	800	1000	2250	1650	2930	2,7 + L/400	2.7	2,2 + L/400	2.2
0202.06.08.15	600	800	1500	2750	1650	2930	2,7 + L/400	2.7	2,2 + L/400	2.2
0202.06.08.20	600	800	2000	3250	1650	2930	2,7 + L/400	2.7	2,2 + L/400	2.2
0202.06.08.25	600	800	2500	1250	1850	3330	2,7 + L/400	2.7	2,2 + L/400	2.2
0202.06.08.30	600	800	3000	1750	1850	3330	2,7 + L/400	2.7	2,2 + L/400	2.2
				2250	1850	3330	2,7 + L/400	2.7	2,2 + L/400	2.2
0202.08.10.15	800	1000	1500	2750	1850	3330	2,7 + L/400	2.7	2,2 + L/400	2.2
0202.08.10.20	800	1000	2000	3250	1850	3330	2,7 + L/400	2.7	2,2 + L/400	2.2
0202.08.10.25	800	1000	2500	3750	1850	3330	2,7 + L/400	2.7	2,2 + L/400	2.2
0202.08.10.30	800	1000	3000	4250	1850	3330	2,7 + L/400	2.7	2,2 + L/400	2.2

*≤B DIN EN ISO 10360 -2 (U3)/ specification in μm - ambience temp. 20°C ± 2° C - air usage 5-7l/min. (by 6,5 bar measured at machine-side) - resolution 0,075 μm changing system (ACR 3; MCR 20; SCR 200) - special dimension and accuracy on demand

Euroμ 3 – a functional machine for medium area of use; guarantees solid, fast and reliable measuring



Euroμ 3

type	measuring range			dimensions for external size			standard accuracy		high accuracy	
	z-axis	y-axis	x-axis	length	width	height	MPE _E [*]	MPE _P [*]	MPE _E [*]	MPE _P [*]
0203.10.10.15	1000	1000	1500	3210	2300	3800	3,1 + L/300	3.0	2,7 + L/400	2.5
0203.10.10.20	1000	1000	2000	3710	2300	3800	3,1 + L/300	3.0	2,7 + L/400	2.5
0203.10.10.25	1000	1000	2500	4210	2300	3800	3,1 + L/300	3.0	2,7 + L/400	2.5
0203.10.10.30	1000	1000	3000	4710	2300	3800	3,1 + L/300	3.0	2,7 + L/400	2.5
0203.10.12.15	1000	1200	1500	3210	2500	3800	3,3 + L/300	3.0	2,9 + L/350	2.5
0203.10.12.20	1000	1200	2000	3710	2500	3800	3,3 + L/300	3.0	2,9 + L/350	2.5
0203.10.12.25	1000	1200	2500	4210	2500	3800	3,3 + L/300	3.0	2,9 + L/350	2.5
0203.10.12.30	1000	1200	3000	4710	2500	3800	3,3 + L/300	3.0	2,9 + L/350	2.5
0203.12.16.20	1200	1600	2000	3710	2900	4200	3,5 + L/300	3.0	3,2 + L/350	2.5
0203.12.16.25	1200	1600	2500	4210	2900	4200	3,5 + L/300	3.0	3,2 + L/350	2.5
0203.12.16.30	1200	1600	3000	4710	2900	4200	3,5 + L/300	3.0	3,2 + L/350	2.5
0203.12.16.35	1200	1600	3500	5210	2900	4200	3,5 + L/300	3.0	3,2 + L/350	2.5

*≤B DIN EN ISO 10360 -2 (U3)/ specification in μm - ambience temp. 20°C ± 2° C - air usage 5-7l/min. (by 6,5 bar measured at machine-side) - resolution 0,15 μm changing system (ACR 3; MCR 20; SCR 200) - special dimension and accuracy on demand

Euroμ 4 in Gantry-version. This machine is suitable for especially big work pieces. Nevertheless, maximum accuracies are guaranteed.



Euroμ 4

type	measuring range		standard accuracy		high accuracy	
	z-axis	y-axis	MPE _E [*]	MPE _P [*]	MPE _E [*]	MPE _P [*]
0204.15.20	1500	2000	5+L/250	2.2	3,5+L/350	2.0
0204.15.25	1500	2500	5+L/250	2.4	3,5+L/350	2.0
0204.15.30	1500	3000	5+L/250	2.6	3,5+L/350	2.0
0204.20.20	2000	2000	7+L/200	2.6	4+L/300	2.5
0204.20.25	2000	2500	7+L/200	2.8	4+L/300	2.5
0204.20.30	2000	3000	7+L/200	3.0	4+L/300	2.5
0204.25.20	2500	2000	10+L/180	3.5	6,5+L/250	3.0
0204.25.25	2500	2500	10+L/180	3.5	6,5+L/250	3.0
0204.25.30	2500	3000	10+L/180	3.5	6,5+L/250	3.0

*≤B DIN EN ISO 10360 -2 (U3)/ specification in μm - ambience temp. 20°C ± 2° C - air pressure 7 bar + 0,5 - air usage ca. 135l/min. (by 7 bar measured at machine-side) resolution 0,15 μm - changing system (ACR 3; MCR 20; SCR 200) - special dimension and accuracy on demand



C OORDINATE
M EASUREMENT
T ECHNOLOGY

x-axis	x-axis
length	measuring range
3000	1500
3500	2000
4000	2500
4500	3000
5000	3500
5500	4000
6000	4500
6500	5000
7000	5500
7500	6000