

Oxalis HD

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3D measuring

MACHINE



FRATELLI
ROTONDI



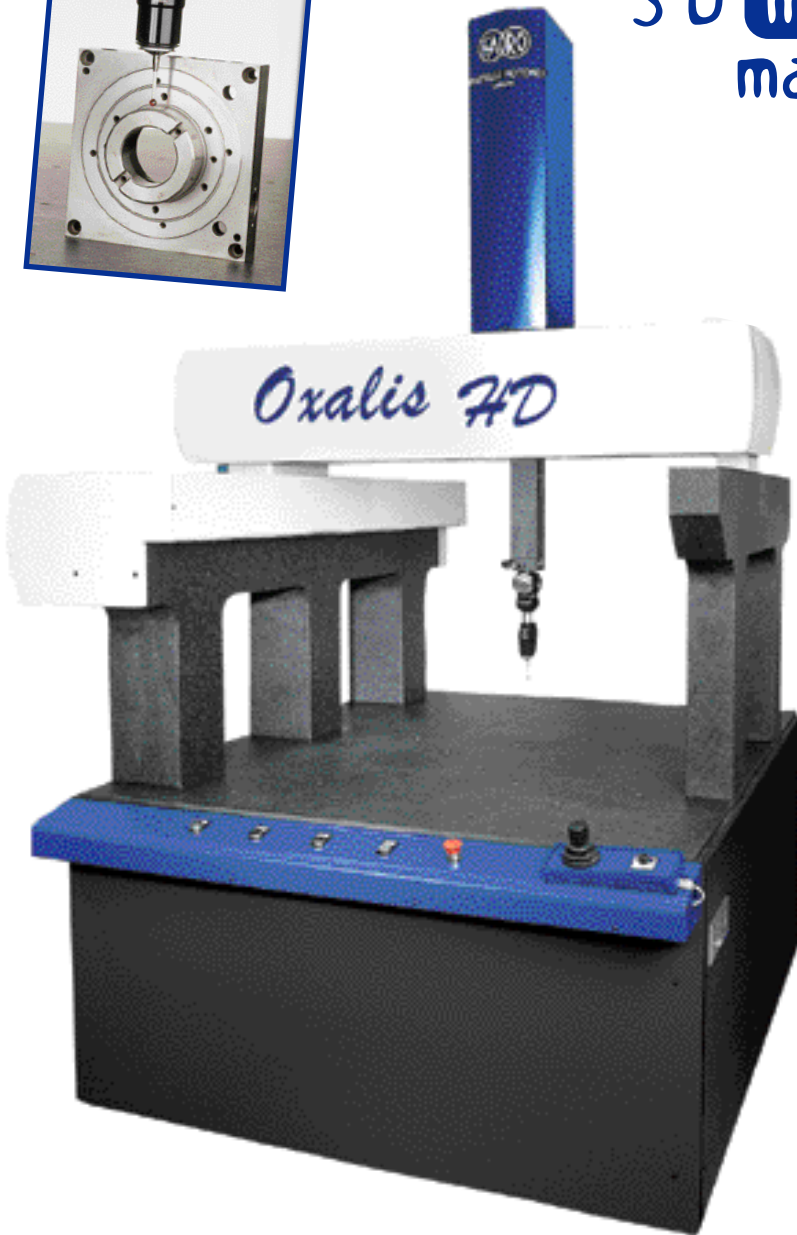
3 D HIGH PRECISION MEASURING MACHINE FOR THE CONTROL AND DIGITALIZATION OF MIDDLE SIZE PARTS

3 D measuring machine Oxalis HD

For automatic or manual measuring of middle size parts.

Point to point or continuous mode measuring - continue digitising of shape and models.

The structure and the materials used in the construction of this machines guarantees high precision, working speed, stability and reliability, while the wide range of measuring software is in position to comply with the most different and complex requirements



STRUCTURE

Mobil traverse structure

- Working table in diabase (black granite) with clamping fixture inserts
- Sliding of all axes through high precision air bearings All bearings axes are contrasted
- Sliding "X" axis in diabase (absolute black granite) with prismatic form
- Sliding "Y" axis in diabase (absolute black granite) with rectangular section
- Sliding "Z" axis(spindle) in diabase (absolute black granite) with square section



Fast measuring in continuous mode with infinite quantity of points

MEASURING SYSTEM

High precision optical scales – resolution: 0,0001/0,0005/0,001 mm.

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PROBES

- electronic probes: point to point (trigger), continue scanning with or without contact
- optic probes: laser, projectors, microscopes, video camera
- probe heads: fixed, motorised and controlled on two axis (rotating and slewing) indexable and continuous
- change of probes or styli automatically

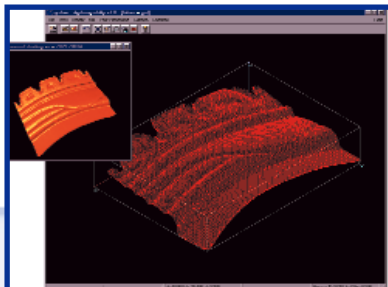
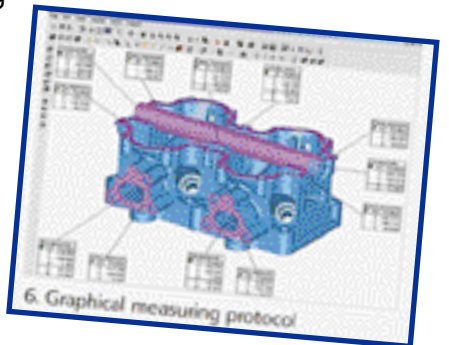
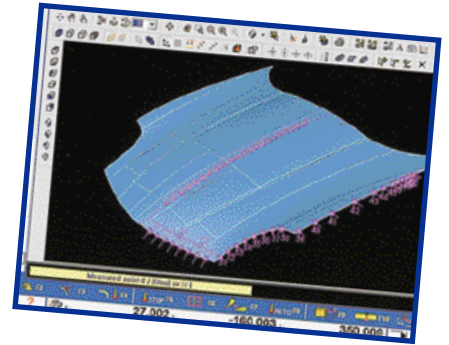
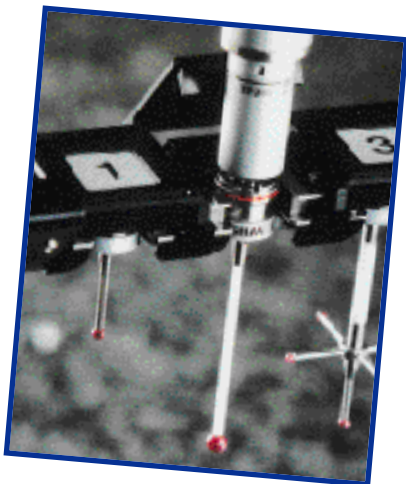
MEASURING AND DIGITIZING SOFTWARE

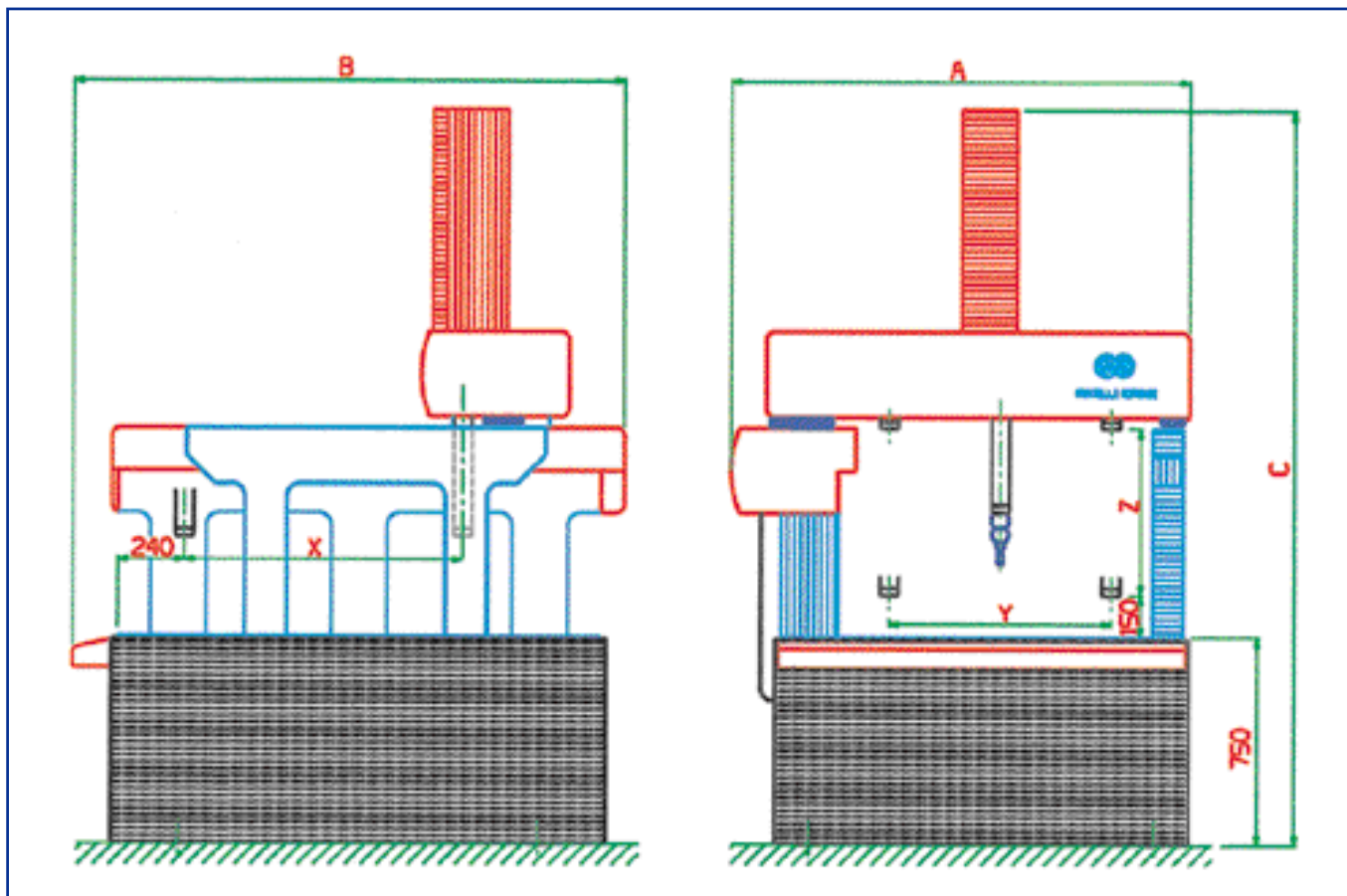
The various models of the measuring machine OXALIS provided with software in environment WINDOWS, with high performances are tested and certified, in the top class of merit, by International Institute of Metrology. Their utilisation becomes very easy because involving the use of an ergonomic and practical graphic interface and of some operator panels. This implies a shorter learning time by any operator. Whenever and against a simple request – considering their flexibility and modular structure – the units may be improved and enlarged as much as necessary in order to comply also with the changed requirements.

Besides they are constantly up dated. They are in a single system fully interactive from which can be selected:

- software for elements with definite geometry
- software for elements with undefined geometry
- software for surface elements by a mathematical model (CAD DATA)
- software for data converter (IGES, VDA, CATIA, PRO-E, STEP, UNIGRAPHICS, PARASOLID etc.)
- software for continuous measuring
- software for digitalisation and reverse engineering
- software of statistics

- software for communication with the external sources (Automation and process integration)
- software for compensation of the geometrical errors and of the environmental variables
- software for part programming in self-learning and off-line
- DMIS interface
- software of best-fit
- click'n measure
- customised software
- and so on





MODEL	1	2	3	4	5
Measuring range X-Y-Z	1000x800x600	1500x800x600	1500x1000x800	2000x1000x800	3000x1200x1000
Overall dimensions AxBxC	1650x1990x2650	1650x2490x2650	1850x2490x3050	1850x2990x3050	2050x3990x3500
Speed (CNC /Motor.Version)	230 mm/sec	230 mm/sec	230 mm/sec	230 mm/sec	230 mm/sec
Feeding pressure – Bar	5 bar	5 bar	5 bar	5 bar	5 bar
Air consumption NL/min.	90 NL/min	100 NL/min	100 NL/min	100 NL/min	100 NL/min
*Volumetric accuracy μm .					
L=mm	3+3,5 L/1000	3+3,5 L/1000	3+3,5 L/1000	3+3,5 L/1000	3+3,5 L/1000
Machine weight kg.	2250	2720	3060	3660	5860
Admitted weight kg	950	1200	1350	1750	3000

*According to CMMA /ISO 10360/2 specification



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