Oxalis

sura tridimensio

3D measuring machine

FARO®

FRATELLI ROTONDI

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

3D MEASURING MACHINES OXALIS

For the control in automatic or manual mode of middle size parts and for continue digitizing of shape and models.
The structure and the materials used in the costruction 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 bridge 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

VERSIONS
- Manual mode with pneumatic locks
- Motorized mode with ergonomic joy/stick
- Automatic driven by fully CNC and joy sticks in manual and in self learning mode

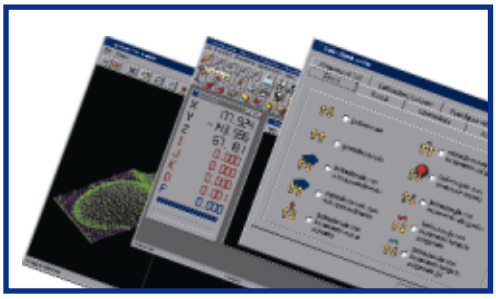
MEASURING SYSTEM
High precision optical scales – resolution : 0,0001/0,0005/0,001 mm.

PROBES

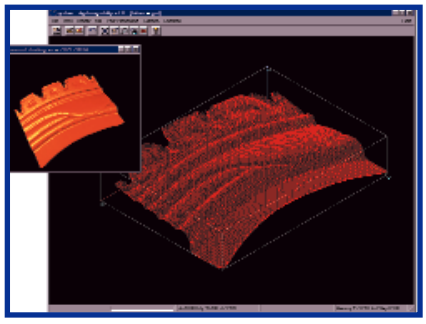
- electronic probes: point to point (trigger), continue scanning with or without contact
- optic probes: laser, projectors, microscopes, video camera
- probe heads: fixed, indexable motorized and controlled on two axis (rotating and slewing)
- changing probes or stylus configuration automatically

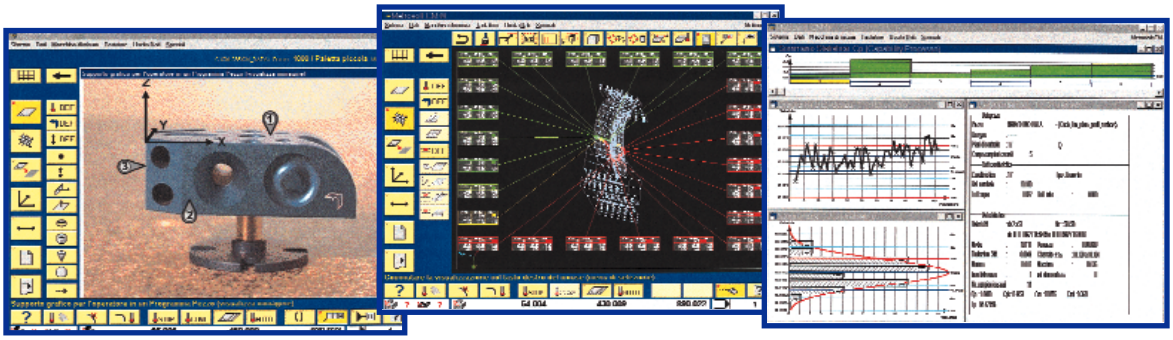
MEASURING AND DIGITIZING SOFTWARE

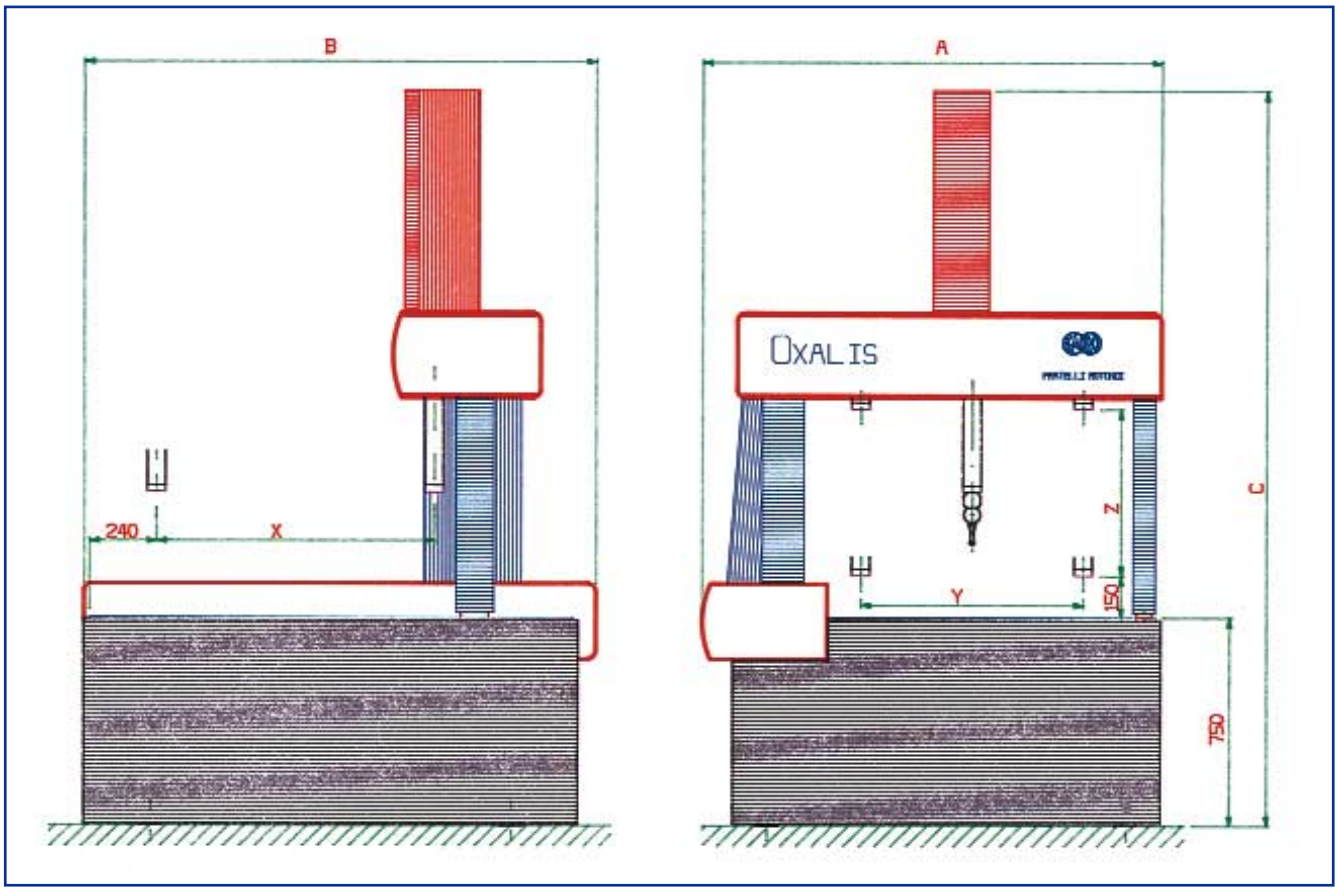
The various models of the measuring machine OXALIS provided with software in environment WINDOWS, with high performances are tested and certified, in the top class of merit, by International Institute of Metrology. Their utilization becomes very easy because involving the use of an ergonomic and pratical graphic interface and of some operator pannels. This implies a shorter learining 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 undefinited geomety
- software for surface elements by a mathematical model (CAD DATA)
- software for data converter (IGES, VDA, CATIA, PRO-E, etc.)
- software continue digitalization and reverse engineering
- software of statistics
- software for communication with the external sources
- software for compensation of of the geometrical errors and of the environmental variables
- software for part programing in self-learning and off-line
- software of best-fit
- customized software
- and so on







MODEL	OXALIS 1	OXALIS 2	OXALIS 3	OXALIS 4
Measuring range X- Y-Z	600x500x400	1000x600x500	1000x800x600	1500x800x600
Overall dimensions A x B x C	1350x1450x2250	1450x1850x2450	1650x1850x2650	1650x2350x2650
Speed (CNC /Motor.Version)	230 mm/s	230 mm/s	230 mm/s	230 mm/s
Feeding pressure – Bar Air consuption NL/min.	5 bar-90 NL/min	5 bar-90 NL/min	5 bar-90 NL/min	5 bar-100 NL/min
*Volumetric accuracy µm. L=mm	3+3,5L/1000	3+3,5L/1000	3+3,5L/1000	3+3,5L/1000
Machine weight kg.	1285	1685	1825	2215
Admitted weight kg.	500	800	950	1200

*According to CMMA /ISO 10360/2 specification

FRATELLI ROTONDI

20025 Legnano (MI) ITALY • Via F.lli Bandiera, 36
Tel. ++39.0331.442074 • Fax ++39.0331.453863
http: //www.rotondi.it • E-mail: rotondi@rotondi.it

FRATELLI ROTONDI