

Aster View

measuring machine



3D measuring machines



FRATELLI
ROTONDI



High precision 3D non contact measuring machines

for small and middle size pieces

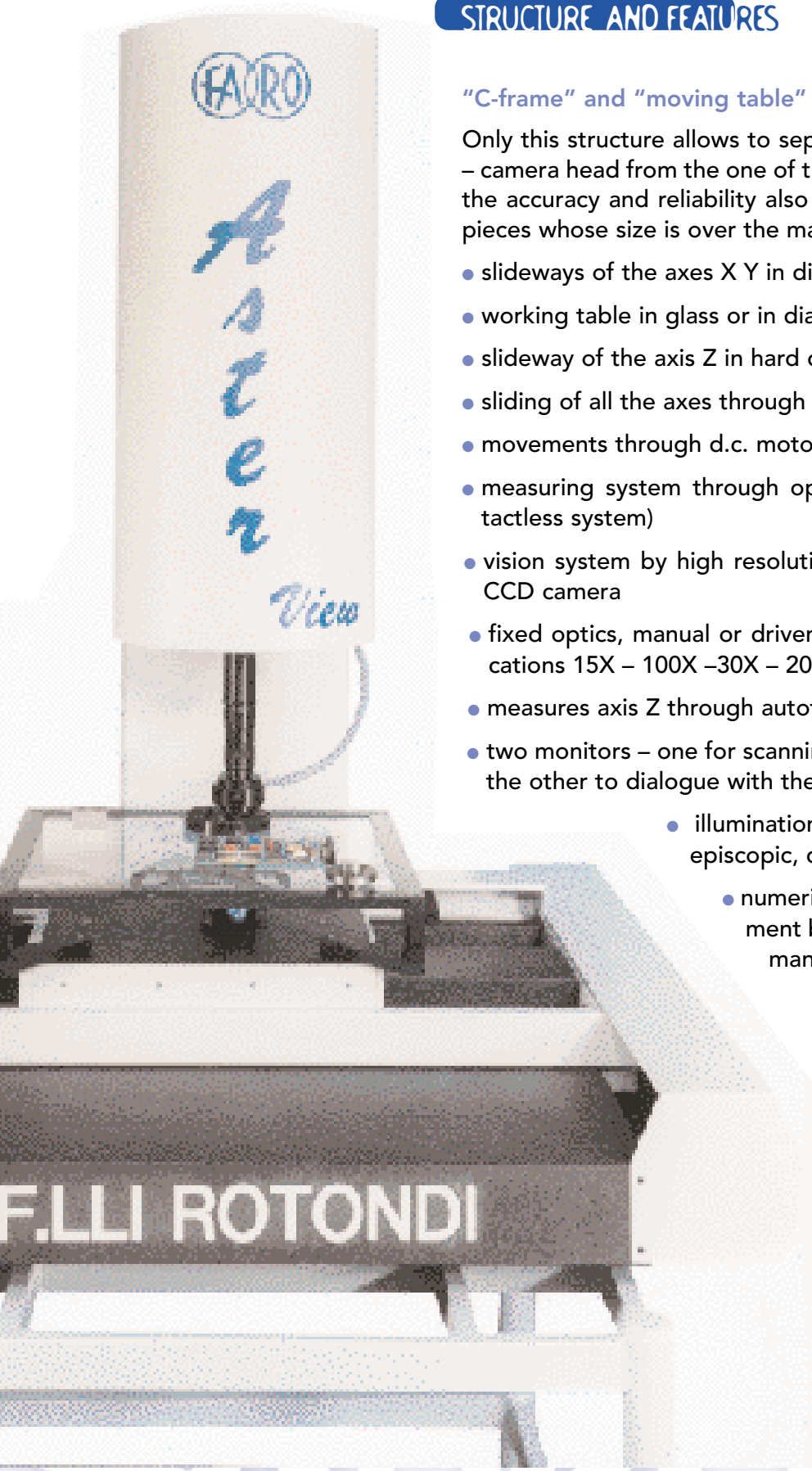
The non contact measuring machine ASTER 3 D VIEW finds its best application when inspecting items whose control can't be made through contact-probes, for inst. badly accessible bidimensional or tridimensional mechanical pieces, plastic flexible and soft items, electronic cards and so on.

STRUCTURE AND FEATURES

"C-frame" and "moving table" structure

Only this structure allows to separate the function of the optics – camera head from the one of the other two axes as to improve the accuracy and reliability also when is involved the control of pieces whose size is over the machine's strokes.

- slideways of the axes X Y in diabase (black granite)
- working table in glass or in diabase
- slideway of the axis Z in hard chromium-plated-steel
- sliding of all the axes through high precision air bearings
- movements through d.c. motors
- measuring system through optical scales (wearless and contactless system)
- vision system by high resolution – colour or black and white CCD camera
- fixed optics, manual or driven programmable zoom, magnifications 15X – 100X – 30X – 200X and others on request
- measures axis Z through autofocus
- two monitors – one for scanning of the piece to be measured, the other to dialogue with the measuring program
 - illumination system programmable: ring, episcopic, diasopic or coaxial
 - numerical control on three axes, movement by joy-sticks in self-learning or in manual mode

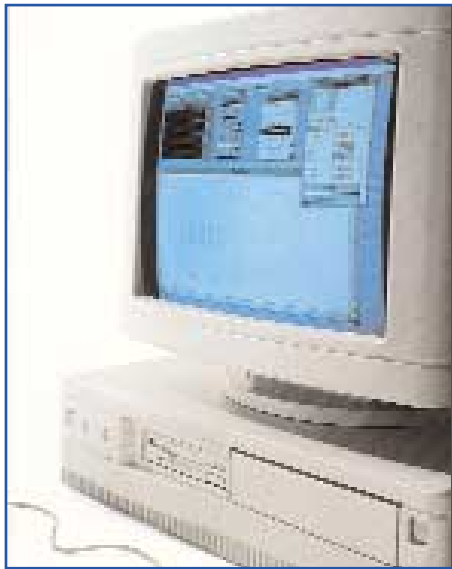


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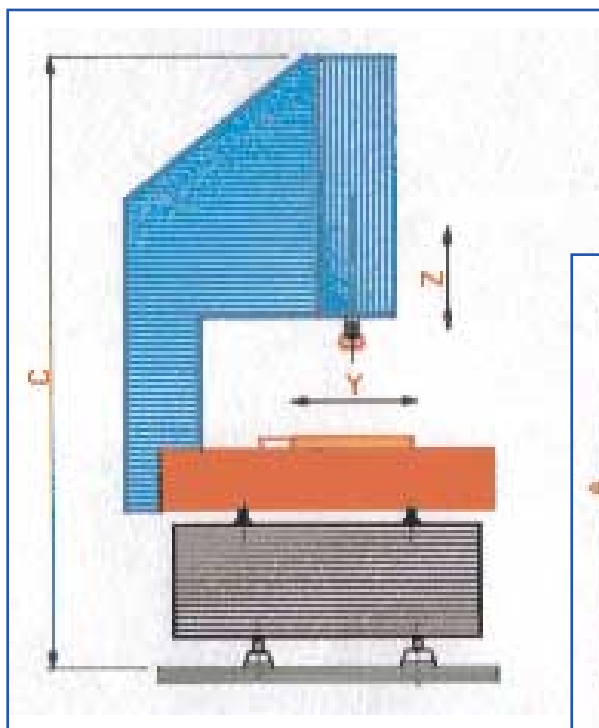
DATA PROCESSING SYSTEM

PC Pentium based in Windows environment.
"VED" video edge detection according to the pieces to be measured.

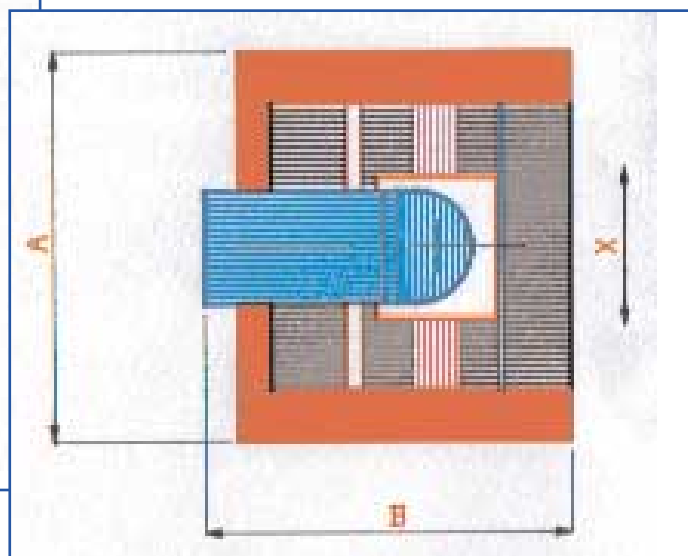
Main Functions:

- calculation and construction of all 2 D geometrical figures
- heights calculation and alignment of plates
- automatic alignment and levelling of the piece
- dimension and form tolerances
- points filtration
- custom test report generation
- self-learning programmation
- off-line programmation with DXF file
- generation of DXF file related to the measured piece





Aster "view"



MODEL	ASTER 400	ASTER 500	ASTER 650
X-Y-Z mm	400x350x150	500x400x200	650x550x250
TABLE mm	400x350	500x400	650x550
A x B x C mm	1150x1090x2120	1400x1190x2220	1700x1500x2300
Feeding pressure – bar Air - consumption NL/min.	5 bar -100 NL/min.	5 bar -100 NL/min.	5 bar -120 NL/min.
Volumetric accuracy μm L=mm	4+5L/1000	4+5L/1000	4+5L/1000
Machine weight Kg	360	600	1400
Axes speed m/min	18	18	18
Acceleration m/s ²	0,5	0,5	0,5



20025 Legnano (MI) ITALY - Via F.lli Bandiera, 36 - Cas. Post. 147
 Tel. 0331 442074 - Fax 0331 453863 - Telex 330674 - Legex 51
<http://www.rotondi.it> • E-mail: rotondi@rotondi.it

FRATELLI ROTONDI