



Quality and Testing Department

CMM (CONTROL MEASURING MACHINES) UNIT

Hexagon 3D Scan Arm – 7 axes

Spherical measuring range: 2.5 m
Stand Off: 165 mm $\pm$ 50 mm
Laser line width: 108 (Near); 150 (Mid); 192 (Far)
Max scanning rate: 300 Hz (adaptive)
Max points per stripe: 2024 (Default) – 4048 (Max)
Min point spacing: 0.053 mm (Default) – 0.026 mm (Max)
Max data rate: 607 200 pts/s (Default) – 1 214 400 pts/s (Max)
Scanner accuracy: 0.016 mm
Ambient light immunity: 10 000 Lux
Triangulation angle: 25°

CMM Unit – COORD3 Universal model

Strokes: x = 1200 ; y = 900 ; z = 800
Scanning probe RENISHAW PH10MQ PLUS+ TP20
Nikon Digital Laser Scanner LC60Dx
RENISHAW FCR25-L6 six port standalone change rack
SW: POLYWORKS Inspector Premium
Accuracy: 1,8 + L/333
UNI EN ISO 10360-2 Certification
LAT Certification by ACCREDIA Centre LAT n.138

MEASURING INSTRUMENTS

Roughness Tester TIME TR200 model

Mobile unit
A4 format printable documents
SW Database TIME GROUP
Type of roughness: Ra,Rz,Ry,Rq,Rm,Rt,R3z,Rmax,Sk,S,Sm,tp
Filter: RC,PC-RC,GAUSS,D-P
Standard: ISO 4287, DIN 4768, ANSI B46.1, JIS B601

Digital Altimeter MITUTOYO QM-Height:

Stroke: 0-600 mm
Measurement system: 1D-2D
Accuracy: 2 d (sigma) = 0.005 mm

Digital Altimeter Kanon

Range: 0-300 mm
Measurement system: 1D-2D
Accuracy: 2 d (sigma) = 0.005 mm

Electronic and precision scale - Scale House

Resolution: 0,01 gr
Standard: EN45501

Electronic and precision scale Sartorius

Resolution: 0,02 gr

CRP TECHNOLOGY S.r.l.

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Capitale sociale Euro 80.000 i. v.



Moisture Analyser Scale PCE-MB 120C

Resolution: 0,001 g

Accuracy: $\pm 0,003$ g

Analyser resolution: 0,01%

Moisture measurement accuracy: $\pm 0,04\%$

Various manual measuring instruments

TENSILE TESTING MACHINE

SHIMADZU AG-X

Capacity/Load cell: 50 kN

Accuracy: Class 0.5

Tests: tensile, compression, bending and fatigue-cycle tests

Crosshead-Table Clearance (mm): 800 mm

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