

Universal CMM

Carl Zeiss DuraMax



Coordinate Measuring Machines



DuraMax is a universal measuring system designed for use on the shopfloor. It is equipped with the Zeiss VAST XXT scanning probe and provides a flexible CNC solution to replace conventional inline measuring equipment. The system is very robust, which combined with its accuracy and long maintenance cycles make it a cost effective option, bringing scanning technology to small and medium sized manufacturing business. DuraMax provides measurement stability across a wide temperature range that is un-equalled in its class. It is driven by Zeiss CALYPSO software which has a worldwide proven track record. CALYPSO is a 3D, CAD based measuring software that can be used in both manual and fully automatic mode. It is easy to use with its object oriented programming and graphic protocol layout.

Features

- Full CNC scanning functionality with VAST XTT probe
- Industry proven CALYPSO software
- Large ambient temperature range
- Quick and simple installation
- Compact design
- Robust, shopfloor ready construction
- Easy operation with simple controls
- Automatic stylus calibration
- Covered guideways
- Integrated damping system



Specification	DuraMax
Measuring range (mm)	500x500x500
Workpiece weight (Kg)	100 (max)
Linear accuracy - 18 to 22°C	2.4+ L/300
Linear accuracy - 18 to 26°C	2.7+ L/250
Linear accuracy - 18 to 30°C	2.9+ L/250
Probing accuracy (µm)	2,4
Scanning accuracy (µm)	3,8
Linear axes speed-manual (mm/s)	0-100
Linear axes speed -CNC (mm/s)	300
Vector axes speed - CNC (mm/s)	520
Axes acceleration (mm/s ²)	1000
Spatial acceleration (mm/s ²)	1700
Ambient humidity	40 to 70%
Temperature range	18 to 30°C
Machine weight - without base (Kg)	350 (450 with base)
Dimensions (LxWxH)	1130x1080x230 mm
Dimensions with base (LxWxH)	1140x1090x2480 mm
Electrical supply (volts)	100/110/120/125/230/240
Maximum power consumption (watts)	700