electronica
mechatronic systems

EMERALD *Prime*

- Moving Bridge Type Construction
- High Precision Ruby Jet Air bearings on all three axis
- Works with any combination of Renishaw probing system
- Active Temperature compensation.
- Granite bed with integrated Y axis.
- I++ connectivity allows machine to work with any I++ software
- High Precision Steel scale suspended at one end for thermal compensation
- High Precision Ceramic Glass scale with very low thermal co efficient of expansion available as option
- Available with 5 Axis touch and scanning probing system

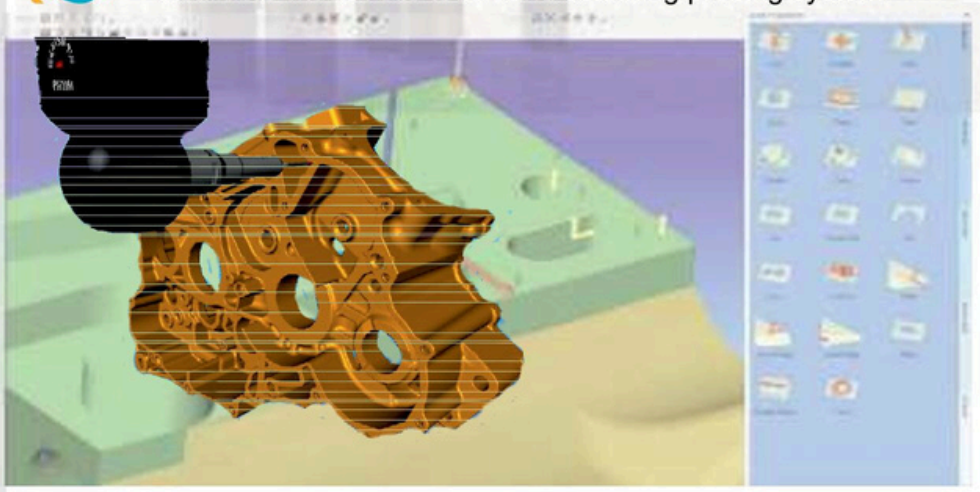
Laser Scanner

Scanning Speed	40,000 Pts / Sec
Scan Accuracy	30 µm
Line Width	100 µm

Accuracy Chart for E *Prime* Series

Probing System	Maximum Permissible Error
SP 25 M Stylus Dia 4 x 30 mm	± 1.9 + L / 250 µm
TP 200 Stylus Dia 4 x 10 mm	± 2.1 + L / 250 µm
TP 20 Stylus Dia 4 x 10 mm	± 2.4 + L / 250 µm

* Higher Accuracy Ranges are available on request
** Different Measuring Ranges are available on request



** Accuracy stated are at standard operating conditions Temperature : 20 Deg ± 2 Deg

	E Prime 565	E Prime 785	E Prime 7106	E Prime 9158	E Prime 10209
Measuring Range X Axis	500 mm	700 mm	700 mm	900 mm	1000 mm
Measuring Range Y Axis	600 mm	800 mm	1000 mm	1500 mm	2000 mm
Measuring Range Z Axis	500 mm	500 mm	600 mm	800 mm	900 mm
Scale Resolution	0.1 µm as standard / 0.05 µm as option				
Machine Construction	Granite Base with Integrated Y Axis, Moving bridge Construction in Granite				
Max. Workpiece Weight	650 Kgs		900 Kgs		1000 Kgs
Probing Head	Renishaw : MH 20i / MH 8 / MIH / PH 10T / PH 10 M / PH 20 / SP 80 / SP 25 / Revo				
Machine Dynamics	3D Vectorial Speed - 600 mm/sec + 3D Vectorial acceleration - 800 mm/sec2				
Module Changing Rack	MCR 20 / TCR 20 / FCR 25 / MRS				
Software Options	Arco Graphics / Arco CAD				