

Technical Specification

	Venture 2510	
	Manual	CNC
X, Y & Z Measuring Range	250mm(9.84") x 125mm(4.92") x 150mm(5.90")	250mm(9.84") x 100mm(3.93") x 150mm(5.90")
Workstage Area	414mm(16.29") x 262mm(10.31")	
Max Work Piece Load	25 Kg	
Drive Type	Manual	Servo CNC with Joystick
Stage Bearing	Cross Roller Rail Guide (Ø6mm)	
Max Drive Speed	N/A	150mm/sec
Camera Type	2048 x 1590 Pixel, Colour USB2 Camera with 8 x 9 chip & dynamic latch	
Optics	6.5:1 Detent manual zoom lens	
Lighting	Fully programmable software controlled white LED segmented surface lighting head with understage and through the lens (TTL) lighting as standard	
Scale Resolution	0.0005mm	
Accuracy	2+L / 100	
Max Field of View (FOV)	8x6mm at Min Mag	
Magnification approx.	39x to 190x (using 50% digital zoom)	
Min Pixel Size	0.8µm (Max Mag)	
Optional		
Optics		6.5:1 CNC zoom lens
Touch Probe		Renishaw TP20
Auto Change Rack		Renishaw 6 port for TP20 (Limited to 4 ports)

Zoom Lens Magnification Spec, in mm

6.5:1 Zoom Lens (6X Lens)

Zoom	Effective Mag	Pixel Size	Field of View		
			X Axis	Y Axis	Diagonal
MIN	37	3.9	8.0	6.0	10.0
1	50	2.9	6.0	4.4	7.4
2	72	2.0	4.2	3.1	5.2
3	110	1.3	2.7	2.0	3.4
4	154	1.0	1.9	1.5	2.4
MAX	194	0.8	1.5	1.2	1.9

Physical and Environmental Specifications/Requirements

Electrical Supply Voltage –

- 13A(Max) 240v AC single phase (Baty recommends a UPS is only required where the power supply fluctuates or is prone to disruption)

Operating Environment –

- Site Location should be clean and dry.

Site access –

- Standard door access 800cm(w)

Machine footprint –

- As per drawing below, if standard setup is purchased then an additional workstation is required to one side (recommended size - 600(D) x 800(W)mm)
- If the granite stand is ordered then the foot print is 1000mm x 660mm (Plus the workstation)

Operating temperature –

- 0 – 40 °C

Temperature specification range –

- 16 – 26 °C

Humidity –

- 30 – 80% non – condensing

Vibration –

- System must be installed at a site, whose measured floor motion shall not exceed 10mm/sec – sec RMS acceleration in a frequency range from 2-10Hz and shall not exceed 20mm/sec-sec RMS acceleration at frequencies above 10Hz.

Paint Colours –

- RAL 9005 jet black and gloss titan silver

Machine Weight –

- 75 Kg (without ancillaries)

Approx. Packed weight and dimensions –

- Machine only: 151 Kg & 119 X 76 X 117 cm
- Machine & Stand: 258 Kg & 120 x 76 x 144 cm

Machine Dimensions

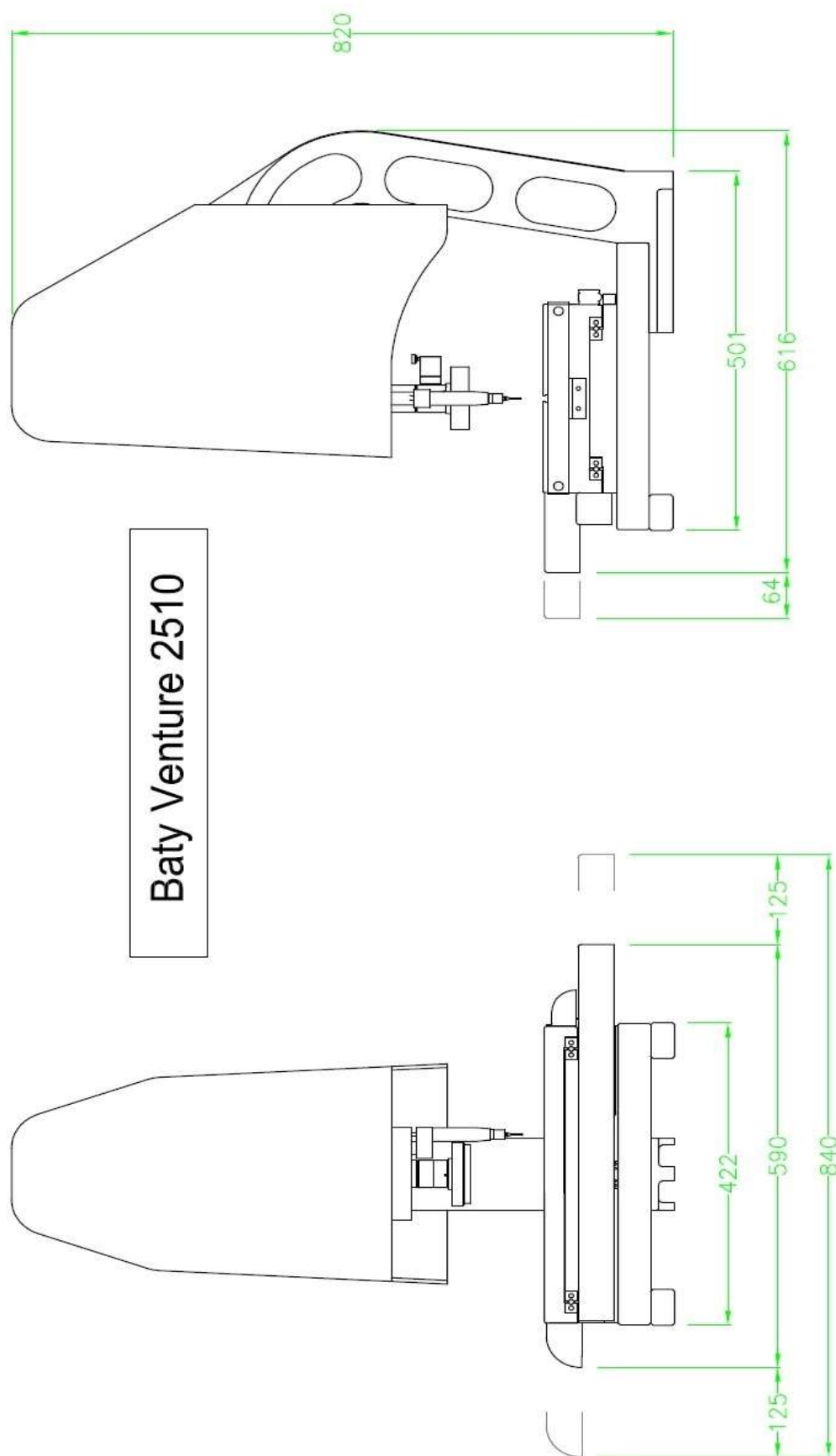


Diagram of Z Axis Slide Movement

This can be adjusted to increase the maximum part height you can put on the machine to 325mm.

