

## Technical Specification

Venture XT CNC	
X, Y & Z Measuring Range	300mm(11.81") x 300mm(11.81") x 200mm(7.87")
Workstage Area	464mm(18.26") x 462mm(18.18")
Max Work Piece Load	25 Kg
Drive Type	Servo CNC with Joystick
Stage Bearing	Cross Roller Rail Guide (Ø6mm)
Max Drive Speed	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 or 12:1 CNC zoom lens
Touch Probe	Renishaw TP20 or SP25
Auto Change Rack	Renishaw 6 port (either TP20 or SP25)

## 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

12:1 Zoom Lens (12X Lens)

Zoom	Effective Mag	Pixel Size	Field of View		
			X Axis	Y Axis	Diagonal
MIN	25	4.8	9.9	7.4	12.3
1	33	3.7	7.6	5.7	9.4
2	46	2.6	5.4	4.0	6.7
3	65	1.9	3.8	2.9	4.8
4	92	1.3	2.7	2.0	3.4
5	130	0.96	1.9	1.5	2.4
6	180	0.68	1.4	1.0	1.7
MAX	220	0.56	1.1	0.9	1.4

## 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 800(W)mm

### 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 work station)

### 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

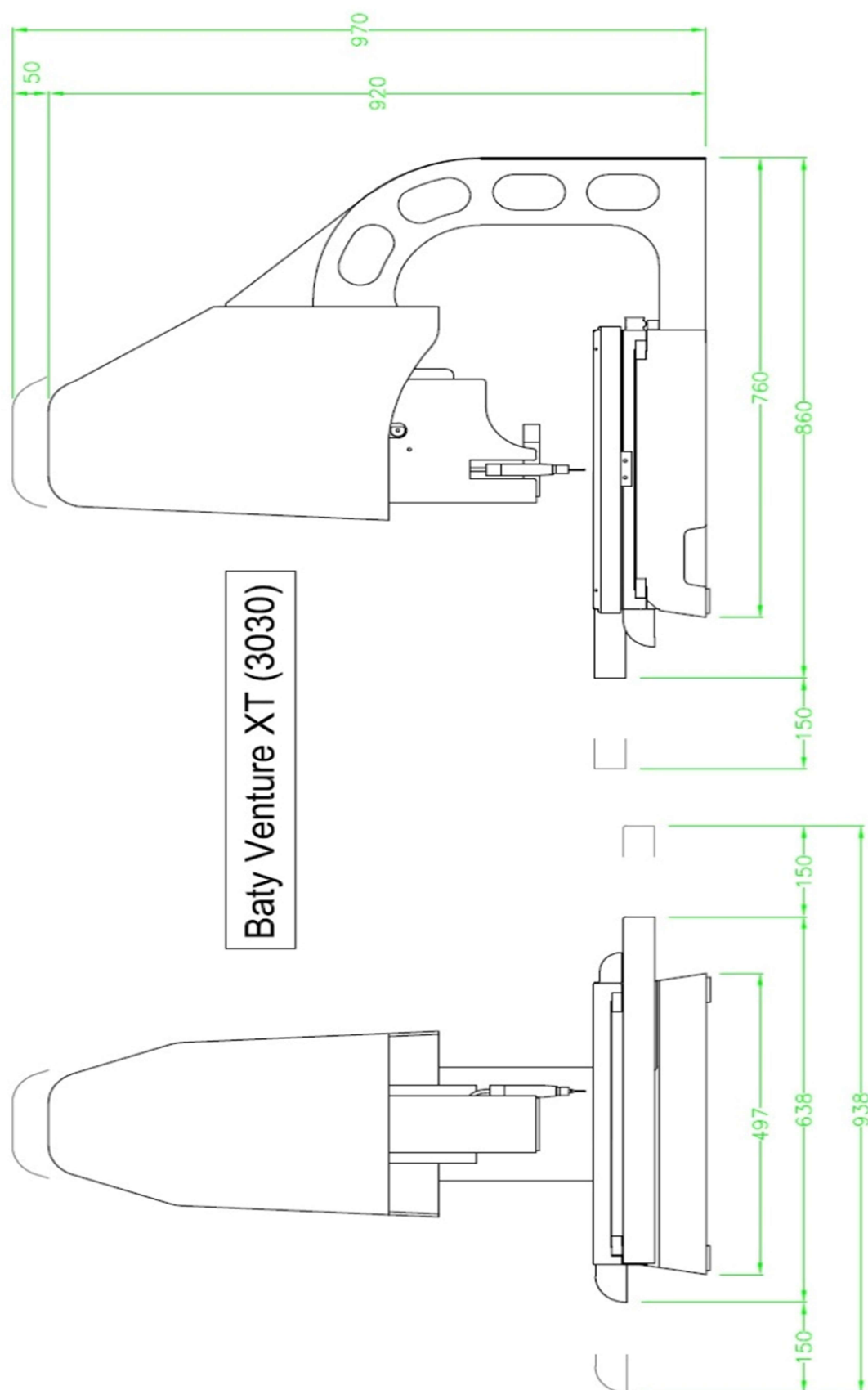
### Machine Weight –

- 97 kg (without ancillaries)

### Approx. Packed weight and dimensions –

- Machine only: 183 Kg & 119 X 76 X 117 cm
- Machine & Stand: 290 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.

