

**Bryant Symons Technologies 620A Diamond Turning Lathe**  
**For the Diamond Turning of Photoreceptors**



**Technical Data**

Maximum Diameter:	200mm
Maximum Length Between Spindles:	510mm
Maximum Length of Tube:	≤ 75mm 420mm Long
	≥ 75mm 480mm Long
Mainslide Traverse:	500mm
Toolslide Traverse:	75mm
Spindle Speed:	0-10000rpm
Mainslide Traverse Rate:	0-5000mm/min
Headstock Spindle:	Air Bearing D1411-02
Tailstock Spindle:	Air Bearing D1241-02
Repeatability of Toolslide:	± 2 Microns
Headstock Drive:	7Kw Ac
Traverse Drive:	0.2Kw Dc
Headstock Centre Height Above Ground with Air Mounts:	1330mm Nominal
Overall Height with Air Mounts:	1315mm
Headstock Centre Height Above Mainslide:	101.6mm Nominal
Floor Area:	1994mm x 750mm
Tailstock Quill Stroke:	100mm
Weight of Machine:	1650Kg
Air Consumption of Machine:	0.45 <sup>3</sup> meters/min
Pneumatic Line Pressure Required:	6 bar
Headstock & Tailstock Air Bearing Air Supply:	4.3 bar
Headstock & Tailstock Air Bearing Air Consumption:	0.11 <sup>3</sup> meters/min per spindle
Air Bearing Axial Load:	114Kg
Air Bearing Radial Load at Spindle Nose:	75Kg
Spindle Accuracy:	Axial <0.01 Microns
Spindle Accuracy:	Radial <0.01 Microns
Slideway Accuracy:	≤ 0.2 Microns over 300mm
Electrical Equipment :	To Suit 3 Phase Supply
Internal Control Circuits:	24V DC
Control System:	Allen Bradley SLC 500
Modem:	Westermo

**Note: Bryant Symons Technologies Ltd reserve the right to change specifications without notice**  
**Bryant Symons can change specification to suit customers requirements.**