

R400Pro Series



REMTM Vision Tech

WORKS WITH

FocalPoints
ADVANCE



High precision CNC lathe

DC spindle with air bearings and pneumatic collet, with standard cutting speeds up to 10,000 RPM and axial precision of 1 nm. R400Pro Series lathe has 2 linear slides and Tecnotion linear motors with air bearings and CNC control. It also includes Renishaw linear optical encoders with 1 nm resolution.



Open software SoftLENS

Open software SoftLENS Windows 10 Professional licensed, programmed with international ISO G-Code for manufacturing and designs of contact lenses and IOL. Communication with Focal Point, CAD/CAM and different platforms. Integration in ERP system. Material and all manufacturing parameters configuration. It also includes automatic tool calibration program and software for pre-molded color lenses front cutting.



Complete tools set for a quality cutting

Capacity to include up to 7 cutting tools and their holders, with 2 oscillating tools. Multiple easy-to-use cutting configuration for different materials. Available for different lenses designs: spherical, aspherical, multifocal, reverse geometry, toric, scleral up to diameters of 30 mm, ... Adjustable cooling system for each tool and diagnostic & maintenance remote control system.



ASG Pro Oscillator - Asymmetric Surface Generator

R400Pro Series lathe can be completed with our optional ASG Pro Oscillating tool (Asymmetric Surface Generator) that it includes software for the manufacture of 10 back and front toric curves, prism and dynamic stabilization. It includes tool shank and tools for oscillating lathing. It also has an axis detector with a secondary micrometric lateral sensor and a reference point marking tool, with software for angle positioning of point.

R400Pro Series lathe is designed with high precision technology. It allows the automatic manufacture of contact lenses and IOL: multicurve, toric, corneal, scleral lenses, etc. It is suitable for all types of materials: hydrogel, silicone hydrogel, RGP, hydrophilic and hydrophobic.

R400Pro Series offers the automation of the lens lathing process, obtaining a high surface quality. In this way, repeatability is increased and manufacturing times are reduced. With this lathe it is possible to introduce new designs, cloud communication, Focal Points compability, etc.

Depending on specific needs, R400Pro Series lathe can be configured with various optionals, as our RL2000 automatic autoloader, achieving the highest productivity.

DATASHEET

R400Pro Series

SPECIFICATIONS

Mechanical

Description	Stroke	Max speed	Precision	Acceleration	Repeatability
Axis X: Air bearing slide DC lineal motor	500mm/19"	25 meter/minute	Resolution 1 nm	1,7 s	0,0001 mm
Axis Z: Air bearing slide DC lineal motor	200mm/8"	25 meter/minute	Resolution 1 nm	1,7 s	0,0001 mm
Spindle: DC spindle air bearings		10.000 RPM	Resolution 1 nm	0,2 s	0,01°
Collet	High precision pneumatic collet 12,70 mm for DC spindle.				

Physical

Dimensions	31"(D) x 36"(W) 74"(H) 800mm x 900mm x 1.900mm
Weight	1.433 lb / 650 kg
Shipping weight aprox.	1.874 lb / 850 kg



INSTALLATION REQUIREMENTS

Enviroment

Air	13m³/h @ 6 kg/cm² (Filtered and dry)
Vacuum	>20kPa - diameter manifold 50mm/2"
Temperature	68°F to 73.4°F / 20°C to 23°C
Humidity	25% to 40% HR

Electrical connections

Power	220-240V VAC single phase - 50/60 Hz -10A
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