

Technical Datasheet

8014 Speedy 500



Technical Specifications

• Mechanics

Working area	1245 x 710 mm (49 x 28 in)
Loading area	1420 x 820 mm (56 x 32 in)
Max. height of work piece	with standard table: 150mm (6 in) with cutting and vacuum table: max. 120 mm (4.7 in) at removed table 300mm(12 in) at an area 1245 x 610mm (49 x 24 in) (flatness at removed tables cannot be guaranteed)
Work piece table	Multifunctional 3-table concept: engraving, vacuum and cutting table; computer controlled and programmable servo z-axis
Speed of motion system	254 cm/sec. (100 in/sec)
Acceleration	19m/s ² (748 in/sec ²)
Motor	Brushless DC servomotor
Encoder	Increment measuring system
Optical elements	lens and all mirrors air-flushed and therefore protected from soiling (preinstalled air pump)
Lens	2.0" (standard); 2.5", 5.0" (optional) 2.5" maximum distance lens (optional) – gives 15mm (0,59 in) more distance to the material than standard lenses 3.75" rotary lens –additional distance especially for rotary jobs
Accuracy of motion system	+/- 0,1 mm (0.004 in) (on the whole working area)
Addressable accuracy	0,0046 mm (0.0002 in)
Repeatability	<± 0,015 mm (0.0006 in)
Accuracy to size of parts	According to material an process
Maximum material load	25 kgs (55 lbs) area load over the whole working area
Exhaust	Travelling Exhaust; Table exhaust (with cutting- and vacuum table)

• Options

Pass-through opening (back)	height/width: 70 x 1420 mm (2.7 x 56.0 in) maximum material height 63mm (2.5 in)
Rotary attachment	Cones and roller version; max length of work piece: 104 cm (41 in) (roller) / 84 cm (33 in) (cones); diameter: 15 cm (0,59 in) (roller) / 25 cm (10 in) (cones)
CCD-camera	Registration marks and compensation system „i-Cut“; max. working area: 1100 x 700 mm (43 x 27.5 in)
Gas-Kit (for compressed air respectively process gas)	Considered for control of compressed air and process gas (free of mechanical dust, water and oil) max. flow rate 150 l/min (40 gpm) with max. 10 bar (145 psi) max. limit 4 bar on working head push fitting connection with out diameter) connection on the machine with hose out diameter of 6mm (0.23 in)

Cutting table	Base frame with removable lamellas and integrated air-flow system
Vacuum table	Strong vacuum effect for thin or corrugated materials
Honeycomb table	In combination with vacuum table
TroCAM Basic / Advanced	CAD / CAM software for perfect cutting results; inclusively nesting-function, lead-in/lead-out, tool paths
Extraction System lead /follow-up time	Lead- and follow-up time fully adjustable
• Control System	
Software	JobControl
Laser power	Adjustable 0 – 100%
Interface hardware	USB, RS-232 (RS-232 mandatory for TroCAM and CCD-camera)
Interface software	ASCII, HPGL, AD-Logic System
• Laser Equipment	
Laser tube	Sealed off CO2 Laser, maintenance-free, Laser Power 60-200 W
Wavelength	10,6µm
• Dimensions	
Width/depth/height	1920/1240 /1140 (780 without base frame) mm or 75.5/48.8/45.0 (30.7without base frame) inch
Weight	520 - 580 kgs / 1100 - 1300 lbs (depending on laser power)
Ambient conditions	Mandatory ambient temperature +15° to +25° C or 59° to 77° F Humidity 40% to max.. 70%, not condensing Dust free environment (2nd degree according to IEC 60947-1)
• Laser Safety	
Laser class	CDRH laser safety; CE tested Laser class 2 (Laser class 4 with pass-through opening)
Interlock	Duplicate interlock safety system
Loading lid	Front side loading lid
• Cooling	
Chiller	Closed water cooling (120W – 200W models only) Air cooling
• Exhaust (Minimum requirements)	
Volume	Min. 640 m ³ /h at 8500 pa
• Electrical Equipment	
Power consumption	Up to 5,6 kW
Up to incl. 120 W Laser power	1x230V (L+N+PE) 50/60Hz
200 W Laser power	3x230V (3xL+N+PE) 50/60Hz

SUBJECT TO TECHNICAL CHANGES!

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