

Speedy 100

Laser engraving system

Mechanics

Working area	610 x 305 mm (24 x 12 inch)
Max. height of work piece	170 mm (6.7 inch) with 1.5 inch lens 157 mm (6.2 inch) with 2.0 inch lens 144 mm (5.7 inch) with 2.5 inch lens
Working table	Ferromagnetic table, honeycomb cutting tabletop
Max. processing speed	2.8 m/s (110 ips)
Acceleration	40 m/s ² (1575 ips ²)
Motors	Brushless DC servo motors
Encoder	Incremental measuring system
Optical elements	Telescope, lens and mirrors
Lens	1.5 inch, 2.0 inch, 2.5 inch
Accuracy	+/- 0.015 mm (0.0006 inch), over the whole working area
Addressable accuracy	5 µm (0.0002 inch)
Accuracy to size of parts	According to material and process
Maximum material load	10 kg (22 lbs), load over the whole working area
Interface	USB

Features standard

Lens	2.0 inch
InPack Technology™	Protects working head and all moving parts from dust
Exhaust	For entire working area
Software	Ruby®
Operating console	Keypad, safety-switch, system turnkey; PC and Monitor not included
Laser Pointer	655 nm, <0,99 mWcw
Autofocus	Light barrier for use with standard lens
Work area light	LED

Options

Temperature sensor	To check temperature inside the work area.
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Accessories

JobControl® CUT	Software to manipulate and optimize cut geometries – to be used with JobControl® Expert only (separate license)
UniDrive	Supports different operating systems e.g. iOS, or multiple design stations - to be used with JobControl only
Rotary attachment	Available with conus, three-jaw chuck, three-jaw ring chuck or Drill chuck
Trolley	Trolley with storage shelf
TroCare	Comprehensive package of technical services

Laser

Laser system	Sealed-off CO2 laser, maintenance free, air cooled, wavelength 10.6 µm
Laser power	30, 45, 50, 60 and 80 W

Dimensions & weight

Width x Depth x Height	1018 x 784 x 467 mm (40 x 30.9 x 18.4 inch)
Weight	Approx. 95 kg / 209 lbs (depending on laser power)

Safety & environment

Laser class	CDRH laser class 2
Interlock	Double Interlock safety system
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)
Certificates	CE compliant, FDA listed

Exhaust

Exhaust working point	Min. 200 m ³ /h at 1.000 Pa (Min. 117.7 cfm at 4.015 in H2O)
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Cooling

Air cooling	Active air flow cooling with fan
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Electrical

Voltage & power consumption	1 ~ AC 110-230V 50/60Hz, 0.83 kW (30 W)
	1 ~ AC 110-230V 50/60Hz, 1.1 kW (45 W / 50 W)
	1 ~ AC 110-230V 50/60Hz, 1.3 kW (60 W / 80 W)

Subject to change without notice.

Errors and omissions excepted.

Model identification Speedy 100C-8063

September 2020 – Update July 2023 – Update December 2023