

Speedy 300 flexx

Laser engraving system

Mechanics

Working area	726 x 432 mm (29 inch x 17 inch)
Max. height of work piece	200 mm (7.8 inch) with 1.5 inch lens 200 mm (7.8 inch) with 2.0 inch lens 187 mm (7.3 inch) with 2.5 inch lens 165 mm (6.5 inch) with 2.85 inch lens 169 mm (6.6 inch) with 3.2 inch lens 149 mm (5.8 inch) with 4.0 inch lens 123 mm (4.8 inch) with 5.0 inch lens
Working table	Ferromagnetic table, honeycomb cutting tabletop
Max. processing speed	3.55 m/s (140 ips)
Acceleration	50 m/s ² (1968 ips ²)
Motors	Brushless DC servo motors
Encoder	Incremental measuring system
Optical elements	Telescope, lens and mirrors
Lens	2.85 inch (flexx); 1.5 inch , 2.0 inch , 2.5 inch , 4.0 inch (CO ₂); 3.2 inch , 5.0 inch (fiber)
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	20 kg (44 lbs), load over the whole working area
Interface	USB

Features standard

Lens	2.85 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 bar sensor and software

Work area light	LED
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Options

Temperature sensor	To check temperature inside the work area.
Vacuum table	Ruler in cm or inch, instead of the standard table
Water cooling	For CO ₂ laser sources with 60 W or more, external cooler needed

Accessories

JobControl® Cut	Software to manipulate and optimize cut geometries – to be used with JobControl® Expert only (separate license)
Vision Print&Cut	Camera compensation system for print & cut applications
UniDrive	Supports different operating systems e.g. iOS, or multiple design stations
Rotary attachment	Available with conus, three-jaw chuck, three-jaw ring chuck or Drill chuck
TroCare	Comprehensive package of technical services

Laser

Laser system CO ₂	Sealed-off laser, maintenance free, air cooled, wavelength 10.6 μm
Laser power CO ₂	60, 80, 100 and 120 W
Laser system fiber	maintenance free, air cooled, wavelength 1064 nm
Laser power fiber	20, 30 and 50 W

Dimensions & weight

Width x Depth x Height	1130 x 943 x 1054 mm (44.5 x 37.1 x 41.5 inch)
Weight	Approx. 215 kg / 474 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 H ₂ O) With Vacuum table min. 350 m ³ /h at 1.600 Pa (min. 206 cfm at 6.424 in H ₂ O)
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Cooling

Air cooling	Active air flow cooling with fan
Water cooling	Optional available for CO ₂ laser sources for 60 – 120 W with external water cooler

Electrical

Voltage & power consumption	1 ~ AC 110-230V 50/60Hz, max. 1.4 kW (60 W) 1 ~ AC 230V 50/60Hz, max. 1.8 kW (100-120 W)
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Subject to change without notice.
Errors and omissions excepted.
Model identification Speedy 300X-8066
September 2020 – updated July 2021