

Speedy 360 flexx

Laser engraving system

Mechanics

| Working area | 813 x 508 mm (32 x 20 inch) |
|---------------------------|--|
| Loading area standard | 890 x 600 mm (35 x 23.6 inch) |
| Max. height of work piece | 210 mm (8.2 inch) with 1.5 inch, 2.0 inch lens 197,5 mm (7.7 inch) with 2.0 inch clearance lens, 2.5 inch lens 188 mm (7.4 inch) with 2.85 inch flexx lens 179 mm (7 inch) with 3.2 inch fiber lens 159 mm (6.2 inch) with 4.0 inch lens 146,5 mm (5,7 inch) with 4.0 inch clearance lens 133 mm (5.2 inch) with 5.0 inch fiber lens |
| Working table | Multifunctional table concept, Rulers in mm or inches Electronic, programmable Z-axis with servo motor |
| Max. processing speed | 355 cm/s (140 ips) |
| Acceleration | 50 m/s² (1969 ips²) |
| Motors | Brushless DC servo motors |
| Encoder | Incremental measuring system |
| Optical elements | Telescope, mirrors, lens |
| Lens | CO ₂ : 1.5 inch, 2.0 inch, 2.0 inch clearance, 2.5 inch, 4.0 inch, 4.0 inch clearance fiber: 3.2 inch, 5.0 inch flexx: 2.85 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 | Static: 100 kg (220 lbs), Dynamic: up to 30kg (66 lbs) load over the whole working area |
| Interface | Ethernet, optional Wifi |

Features standard

| Lens | 2.85 inch flexx | |
|------------------------------|--|--|
| InPack Technology™ | Protects working head and all moving parts from dust | |
| Exhaust | Surface exhaust via rear of the engraving cabinet, table exhaust with vacuum and cutting tables | |
| Software | Ruby® | |
| Operating console | Touch panel, keypad, safety-switch, system turnkey | |
| Table | Aluminum cutting grid table | |
| Laser Pointer | 655 nm, <0,99 mWcw | |
| Autofocus | Sonar Technology™ and software | |
| Work area light | LED | |
| Additional standard features | Ergonomic access to working area, OptiMotion™, coaxial air assist incl. integrated pump, harsh environment protection kit, integrated extraction slits. two Z-home positions, air-assist nozzles (Ø3 mm and Ø7 mm), lockable casters | |



Options

| Vision Design&Position | Design and Position job in live view of work area on Ruby screen. |
|---------------------------|--|
| Temperature sensor | Should the temperature inside the engraving compartment exceed a critical value, the laser will signal this to the operator by a warning sound. The operator then can take action immediately. |
| Gas-Kit light | Control of external supplied compressed air (free of mechanical dust, water and oil) max. flow rate 150 l/min (40 gpm) with max. 10 bar (145 psi); |
| Water cooling preparation | Additional parts to connect an external cooler |
| Industrial interface | Start / Stop / signals to control the operation from extern |

Accessories

| Vision Print&Cut | Registration marks detection and compensation system Max. working area without camera: 813×508 mm (32×20 inch) Max working area with camera: 801×508 mm (31.5×20 inch) |
|------------------------------------|--|
| Ferromagnetic engraving table | Allows to mount thin materials such as paper, films or foils with magnets to ensure an even and flat surface to achieve optimal results |
| Vacuum table | Vacuum effect for fixation of thin or wavy materials |
| Acrylic cutting grid table (white) | Reflection free cutting of parts smaller than 100 mm (4 inch) |
| Slat cutting table | Reflection-free cutting of thicker materials and parts bigger than 100 mm (4 inch); removable aluminium and acrylic slats, x-axis ruler can be removed and mounted again without re-adjustment |
| Honeycomb cutting table | Good compromise between the Grid and Slat table configuration. Thin support structures reduce flashback compared to a grid table. High density of the honeycomb structure provides good support for less rigid material such as thin plastic, card & paper or membrane boards; nominal comb size 12,7 mm (0.5 inch) or 6,4 mm (0.25 inch) |
| Rotary attachment | Cone, roll or combined version, tilt able Max. workpiece length cones: 550 mm (21.6 inch) Max. workpiece length rolls: Ø≥58 mm (2.2 inch) = 679 mm (26.7 inch), Ø≤58 mm (2.2 inch) = 745 mm (29.3 inch) Max. workpiece diameter cones: 207 mm (8.1 inch), depending on lens Max. workpiece diameter rolls: 96 mm (3.7 inch), depending on lens |
| TroCare | Comprehensive package of technical services |

Laser

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

Dimensions & weight

| Width x Depth x Height | 1221 x 830 (790*) x 1066 mm (48 x 32.8 (30.7*) x 42.0 inch) * top lid closed, without mounted exhaust hose connections, gas-kit light |
|------------------------|--|
| Weight | Approx. 270 – 285 kg / 595 - 628 lbs (depending on laser power) |



Safety & environment

| Laser class | CDRH laser class 2 |
|--------------------|---|
| Interlock | Dual-channel interlock safety system |
| Loading lid | Ergonomic down/up-lift front lid |
| 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

| Minimum volume required (without piping/tubing) | 350 m³/h at 3.500 Pa Two connections |
|---|---|
| Required | Atmos Duo Plus (or equivalent systems, all table concepts) Vent Set 400 (or equivalent systems; all table concepts except vacuum table/strong vacuum effect) Vent Set 500 (or equivalent systems, all table concepts incl. vacuum table/strong vacuum effect) |

Cooling

| Air cooling | Active air flow cooling with fan |
|----------------|---|
| Liquid cooling | Optional available for CO ₂ laser sources 60 – 120 watts with external liquid cooler |

Electrical

| Voltage & power consumption | $1 \sim$ AC 110-230V 50/60Hz, approx. 1200 W to 2100 W (depending on laser power) | |
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Subject to change without notice.

Errors and omissions excepted.

Model identification Speedy 360X-8069

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