



DELTA 22W

DIODE LASER ENGRAVER

GREAT PARTNER FOR DIVERSE ENGRAVING AND CUTTING JOBS



**1 YEAR WARRANTY
AND UNLIMITED SUPPORT**



TECHNICAL PARAMETERS

AlgoLaser Delta Mechanical Frame	Optical power	22W
	Machine power	144W
	Power supply	24V/6A
	Maximum engraving speed	20,000 mm/min
	Maximum motion speed	30,000 mm/min
	Spot size	X 0.06mm - Y 0.05mm; At 100% power: X 0.16mm - Y 0.14mm
	Laser head life expectancy	>8000 hours
	Certification	FCC/CE/RoHS/FDA
	Warranty	12 Months
	Safety features	Active power-out detection and protection, laser over exposure time limit, USB disconnect shutdown, emergency stop button, gyroscope detection, motherboard overtemperature protection
Software and Connection	System supported	Android, iOS, Windows, Mac OS, Web-based
	Control software	AlgoLaser App / LightBurn/LaserGRBL
	Compatible accessories	22W laser module, motorized Z-axis, engraving platform, fire-proof box, rotary chuck, rotary roller
Laser Head - AlgoLaser 20 - LB-20D	Laser module size	132mm x 63mm x 60mm
	Laser module weight	750grams - 1.6 Pounds
	Optical power output	19.5 to 22W, Average 20W, Acceptable power output variation +5%
	Laser output wave length	445nm (+-5nm)
	Focal distance	55 mm (From module radiator to material)
	Spot size	At 3% power: X 0.06mm - Y 0.05mm, At 100% power: X 0.16mm - Y 0.14mm
	Spot shape	Square
	Operating frequency	<30KHz
	Operating temperature	-10°C - +40° 14°F - 104°F, Multiple optical lens assembly
	Diodes input voltage	8.60 Volts
	Diodes input current	3.8 Amps
	Harness specification	Data line 4x 26AWG - 0.14 (mm ² cross-sectional area), Laser line 4x 22AWG - 0.34 (mm ² cross-sectional area)
	Connectors type	Data line - PHB 2.0 4Pin, Laser line
Life expectancy	>10,000 Hours	
Optical lense material	Professional focusing optical glass (quartz glass), Multiple optical lens assembly	
Packaging	Machine size	650x730x270mm
	Packing size	800x730x160mm
	Weight	11.5kg

The 2nd COS Optical Technology

Adopting the advanced second-generation COS technology, the polarized beam combination improves the performance of the laser beam by 40%. Compared to regular 20W laser modules, COS technology compresses the laser spots from a rectangle to a square having a near 1:1 ratio on both low (3%) and high power (100%).



Artwork with 500+ shades of color

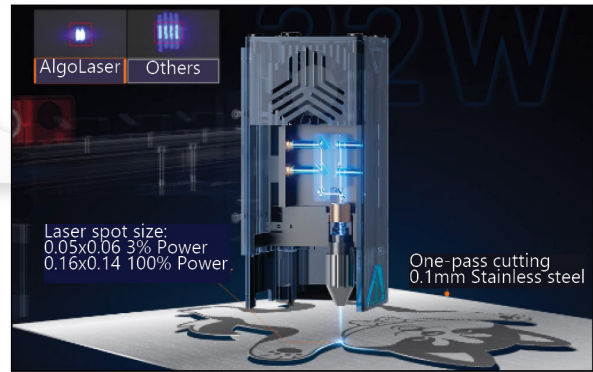
Make your projects stand out with vibrant and durable colors.

Faster engraving speed 500mm/s

10X faster! Allowing you to complete projects in record time without sacrificing quality.

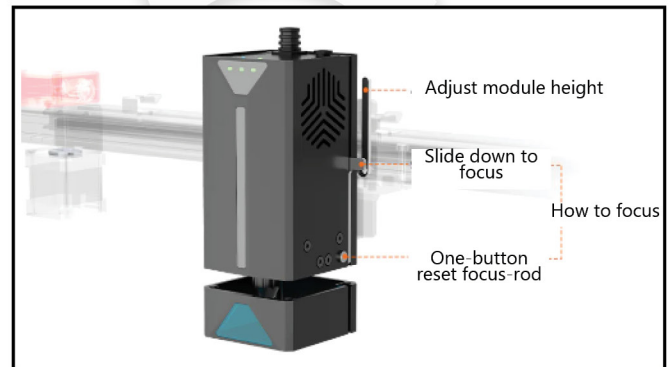
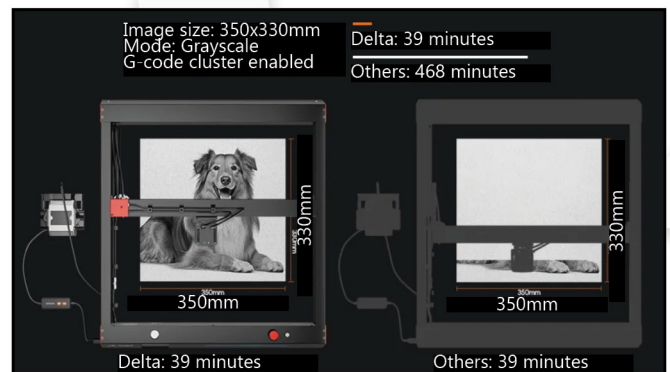


Powerful motherboard, self-developed firmware



Incredible cutting ability

Super powerful 22W laser module handles various material thicknesses for cutting easily.



Unparalleled accuracy achieved

Magnetic and detachable laser metal cover

It's easy to clean and allows you to utilize a deeper cutting focus without the cover.

Semi-automatic focus

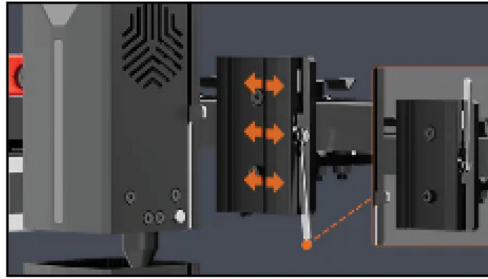
Innovative patented design for instant rebound, ensuring pristine engraving results.

DETAILS



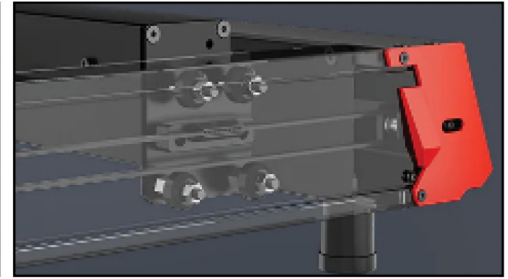
Laser Protective Lens Integrated within Air Assist Nozzle

Effectively protects the laser and prolongs the laser's service life



IDual-Side Fixture Structure

The structure changes the dot contacting to a complete surface contacting, allowing heavier bearing and much less zigzogs when engraving



New Nylon Rollers

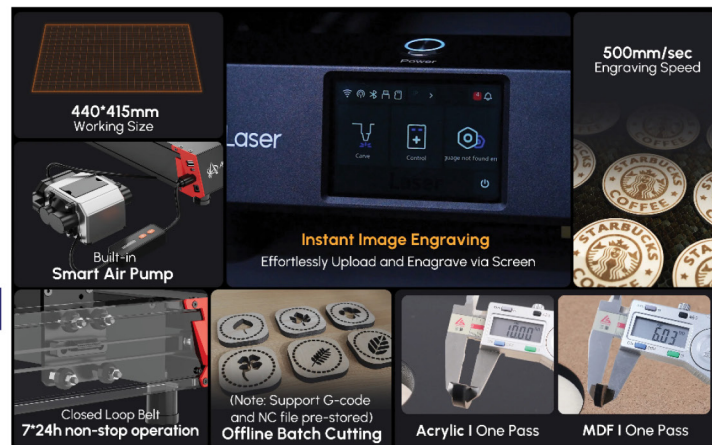
7*24h non-stop operation with unparalleled durability - surpasses regular rollers by 5 times

Best one-pass cutting material and thickness

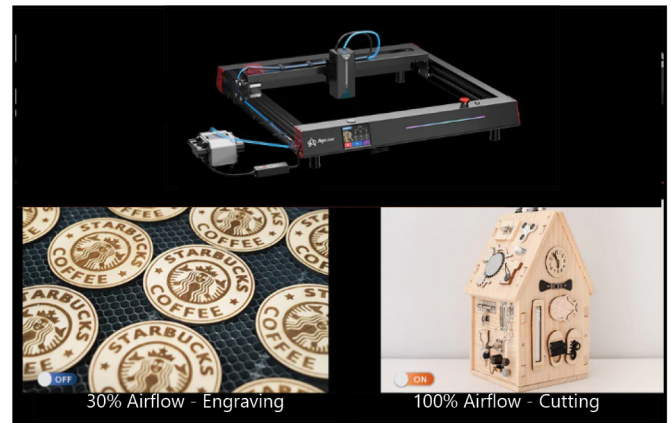
- 10mm Birch plywood
- 12mm Basswood plywood
- 5mm Eucalyptus plywood
- 30mm Pine board
- 15mm Paulownia plank
- 10mm White oak
- 5mm MDF
- 10mm Black acrylic
- 3mm Yellow acrylic
- 5mm Red acrylic
- 3mm Gray cardboard
- 0.17mm Stainless steel plate
- 10mm Bamboo

Max cutting thickness

- 12mm Birch plywood / 3
- 20mm Basswood plywood / 15
- 15mm Eucalyptus plywood / 6
- 20mm Paulownia plank / 3
- 45mm Black acrylic / 15
- 8mm Green acrylic / 6
- 10mm Red acrylic / 6
- 12mm MDF / 6
- 6mm Gray cardboard / 2
- 20mm White oak / 5



Your safety is our most concern



Included plug & play smart air pump

Pre-assembled structure and simple installation steps allow you to start the journey with ease.

