



AITECH LASER

1. ON THE FLY UV LASER MARKING MACHINE

TECHNICAL SPECIFICATION :

• LASER

LASER MODEL	SNS-355-5S
WAVELENGTH	355 nm
AVERAGE LASER O/P POWER	> 5.0 watt @30 KHz
MAX. Pulse Energy	0.1 mj @ 30 KHz
Pulse Repetition Rate	10-100 KHz
Pulse Duration	2 < 20ns @ 30 KHz
Pulse To Pulse Stability (Average Power)	< 3%
TYPICAL BEAM QUALITY	TEM ₀₀ (M ² <=1.2)
Polarization Ratio	> 100:1 Horizontal
1/e2 Beam Diameter	0.7mm
Beam Circularity	>90.0 %
Cooling	Water Cooling
Warm Up Time	< 15 min

• MARKING

MARKING SPEED	Up to 12000 mm / sec.
MARKING FIELDS	110 (std.) / 155/ 215 / 300 / 400 mm ² (optional)
WORK CLEARANCE	185/296/387 / 450 mm
MIN. CHARACTER HEIGHT	0.2 mm
MARKING DEPTH	0.04 mm (Depend's on Material)
BEAM DEFLECTION	Digital High Speed Galvanometer

• ELECRITICAL

POWER CONNECTION	220V +/-10V AC, Single Phase
Average Power Consumption	< 3 KwA

• OTHER

COOLING TYPE	Water Cooled
ENVIRONMENT	Free From Dust, Oil, Mist, & Other Contamination (incl. Structure)
TEMPERATURE	18° C to 30° C
MAX. WEIGHT	< 180 kg
Diaension	26 x 32 x 55 Inch

• SOFTWARE FEATURES

CHARACTER FORMATS	All True type fonts installed under Embedded OS, filled of outline
FONT ALIGNMENT	Any alignment and font direction circular, arc marking
GRAPHIC ELEMENTS	Line, Circle, Rectangle, Polygon, all surface element filled & unfilled
GRAPHIC FORMATS	JPEG, Bitmap, DXF, PLT, Tajima DST, Gerber bot, 2D Matrix

• COMPUTER SPECIFICATION

- Intel Core - i3 Processor
- Intel Chipset Motherboard
- 4 GB RAM Inbuilt
- 128 GB SSD Drive
- Dell / Samsung / LG / AOC Monitor & Keyboard Mouse
- Interface USB Interface
- Operating System : Windows 7 / Win10 / Win 11 OS

• FEATURES

- Single Phase
- Water Cooled
- Inbuilt Guide Laser
- Expected MTTF (Diode) Life :
Greater Then 10,000 Hrs
- First and Last Pulse Equally Usable



UV



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