

Technical Specifications for Laser Sawing Machine with 4P Software

Laser System-

- Laser Type : Nd: YAG-1064nm Diode pumped solid state
- Laser class : IV
- Output power : Up to 24 watts @ 10 kHz
- Beam Mode : TEM 00
- Axes Travel : 130 mm x 130 mm x 70 mm
- Beam Polarization : linear
- Beam Divergence : ≤ 1.2 mrd
- Pulse repetition frequency : 1 to 25 kHz
- Peak to peak stability : 2.5%
- Thermal Lensing Stability : $\leq 2\%$

CNC System

- Resolution : 1-2 micron
- Accuracy : 1-2 micron
- Repeatability : 1-2 micron
- Straightness : 1-2 micron
- Drive system : AC servo
- Movement Accuracy : 1 micron
- Cutting width : 30 micron
- Cutting depth : Variable depends on laser power
- Cutting width accuracy : ± 20 micron
- Cutting depth accuracy : ± 25 micron
- Cutting direct line accuracy : ± 25 micron
- Cutting speed : 0-50 mm/ Sec.

Computer & Software-

Computer-

Operating optimized computer, Dual core

2 to 4 GB RAM, DVD-RW, 500 GB SATA HDD

Windows XP Professional (64 bit), 22" TFT Color Monitor.

Hardware-

4P fixer kit to change the process from sawing to shaping (Bruting, coning).

Software

laser Sawing & 4 P software (for coning, bruting etc.)

Warranty:

One Year & extended warranty of two more years.