

CY2D LM3015

Intro

Introducing the CY2D LM3015 Fiber Laser Cutting System, a cutting-edge solution designed to harness the full potential of fiber laser technology. The EVO III proprietary cutting head, developed and built by Cy-laser, sets new standards for excellence in the fiber laser industry, offering unparalleled precision and performance based on extensive experience in the field. Its construction philosophy, based on off-the-shelf components and interoperability, offers reliability and adaptability.

The CY2D LM3015 seamlessly integrates with the leading CAD-CAM software available in the market, providing a user-friendly and versatile experience. The system's "Airplane" structure guarantees absolute precision and mechanical stability, ensuring consistent and reliable results with dual-sided access to the cutting area, maximizing convenience and ease of operation.

It also allows flexibility in material flow by accommodating both left and right feeding options. Additionally, the system offers the option for load-unload automation setup, streamlining the workflow and increasing productivity.

Key Features

CY2D LM3015: Fiber Laser Cutting System 5'X10' (3000MM X 1500MM) Ideal for Mass Production

- Specifically designed to take advantage of fiber laser technology and processes
- Construction philosophy utilizing off-the-shelf components to avoid forced customer retention
- EVO III proprietary cutting head: designed and built by Cy-laser, combines years of process experience to create the most advanced cutting head in the industry
- Compatible with the leading CAD-CAM software on the market
- Airplane Structure provides absolute precision and mechanical stability
- New, more compact, and modern design
- Accessibility to the cutting area on both sides
- Left or right feeding to optimize material flow
- Load-unload automation set-up is available

Applications



Fiber laser cutting can be utilized on a variety of material- cutting processes and applications.

- Aluminum
- Stainless Steel
- Steel
- Iron
- Brass

Technical Data

CUTTING AREA

Cutting Area X	inch	122.05
Cutting Area Y	inch	61.02
Cutting Area Z	inch	4.72

NOMINAL SHEET SIZE

Nominal Sheet Size X	inch	120
Nominal Sheet Size Y	inch	60

OVERALL DIMENSION AREA

Length, ca. (L)	inch	445
Width, ca. (W)	inch	118
Height, ca. (H)	inch	87
Maximum workpiece weight	Lb	1,540
Max workpiece load per square foot	lb/sf	40.89
Table Changeover Speed	inch/sec.	14.57
Table Changeover Time	sec.	30

AVAILABLE WATTAGE

up to 20kW

AXIS KINEMATIC

Maximum positioning speed axis X/Y	inch/min.	5,906
Maximum positioning speed simultaneous axis X/Y	inch/min.	8,268
Massimum Axis Acceleration	G	4

ACCURACY & PRECISION

Meccanical Position Accuracy	inch	0.000984
Meccanical Edge Detection Accuracy (over 10 inch travel)	inch	0.001968
Cut Perpendicularity Tolerances	inch	0.000393
Machine Weight (without Exaust Filter, Chiller, Laser Generator)	Lb	30,800
Required Dust Collector		4C
Color	RAL	7040 / 5015
Voltage Required (**)	V Triphase / HZ	Upon Request - 50 / 60



Software

Thanks to the user-friendly Cy-laser Open Source Software, our cyber-physical systems seamlessly integrate with other machines in the production cycle. Our tele/self-diagnosis software enables remote control and assistance, ensuring convenience and efficiency.



Automation

Cy-laser systems can integrate with different types of automation, from simple loading and unloading to automated warehousing solutions, for unattended production. Our CYScheduler 4.0 software allows you to manage third-party automation in an integrated way thanks to its open-source philosophy.