



EOX 30W is the CO2 Laser for laser coding and marking applications.

EOX 30W offers high quality permanent marking on Wide range of organics materials (like wood) and it includes cardboard, ceramic, plastics and painted or anodized metal. Combining excellent laser beam quality and advanced control unit, EOX 30W is suitable for accurate Industrial Traceability as well as high productivity Coding applications. EOX 30W benefits of a compact Marking Head combined with a 19" Control Rack equipped with power supply and control unit. EOX 30W provide axys controls and Photocell/Encoder ports for Marking On Fly (MOF) typically required for Coding applications. Advanced MOF features allows complete synchronization between Marking head and object movement applicable even in accelerated or start-stop movement conditions. MOF increases production lines throughput with linear speed up to 75mt/min and 12.000 pcs/hour (about 8/10 pcs/sec – it depends by the speed of the roller).

EOX-30 implements Embedded Marking Controller (EMC) for complete system control in "Stand Alone Mode" or "Master-Slave Mode".

CO2 marking system is very attractive for Coding application thanks to Low cost operation as a result of almost to no maintenance and no requirement for expensive consumables. EOX 30W meets flexibility requirements thanks to extended marking area up to 140x140mm (focal lens depending). Reliable and safe, EOX 30W provides a clean technology with short return of investment and minimal maintenance.



LASER MARKING

FEATURES & BENEFITS

- Excellent marking performance
- Integrated diagnostics, easy communication and connectivity
- Flexible scan-head configurations
- Highly Customizable
- Extreme reliability and flexibility
- Lighter suite
- Embedded Marking Controller

APPLICATIONS

This product has been developed to satisfy the requirements of the following reference applications:

- Coding and marking applications in the food, pharma, and electronics industries



EOX 30W

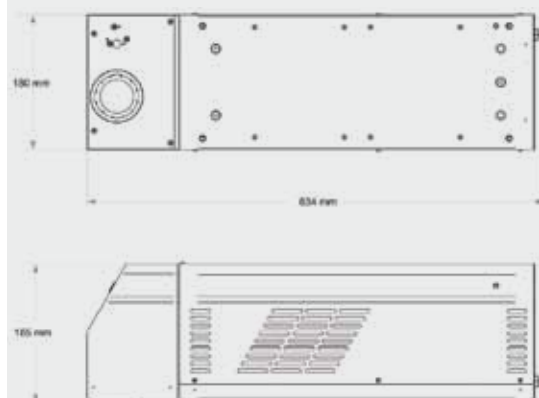
CHARACTERISTICS

| | |
|----------------------------|---|
| Nomination Power | 30W |
| Wave Length | 10.6 μ m |
| Laser Source | CLASS 4, CO2 sealed laser tube |
| Head cable Length | 3 m standard |
| Marking capabilities | Standing, Rotary axis, On the fly (marking in motion) |
| Integration | Up to 4 mechanical axis driving capabilities (stepper motor) Up to 10 digital inputs and 10 digital output fully programmable 1 dedicated connector for dual line high resolution encoder and 1 dedicated connector for photocell |
| Aiming Beam | 3mW @ 635 nm |
| Focus Beam | 3mW @ 635 nm |
| Temperature Range | Operative 15°C to 35°C Storing -10°C to 60°C |
| Cooling System | Integrated Fan cooled |
| Power Supply | 100/240 VAC – 50/60 Hz |
| Resonator Dimension&Weight | 180x185x634 mm kg 17 |
| Rack Dimension&Weight | 437x94x333 mm kg 9 |
| Protection Grade | IP 21 |

All laser sources described in this product guide are Class 4 laser sources. Laser interaction with organic or inorganic material can cause TOXIC FUMES/PARTICLES. The OEM laser components described in this product guide is for sale solely to qualified manufacturers, who shall provide interlocks, indicators and other appropriate safety features in full compliance with applicable national and local regulations.

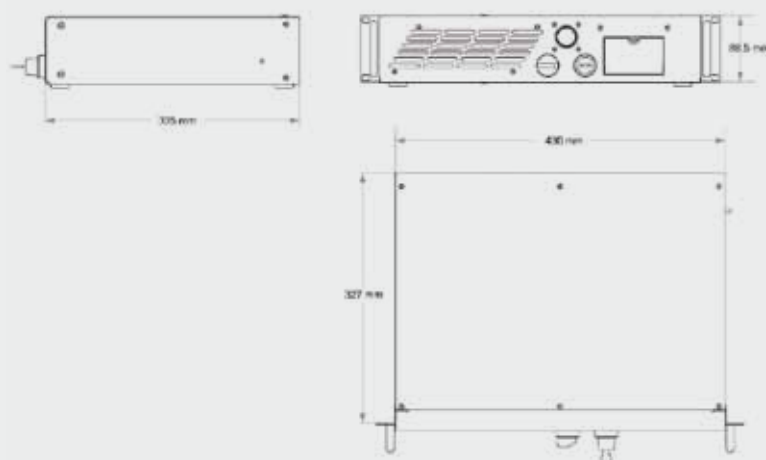
DIMENSIONS

| | | |
|------------------|----------|------------|
| Lens | 100mm | 200mm |
| Working distance | 100 | 200 |
| Working area | 70x70 mm | 140x140 mm |



RESONATOR

DIMENSIONS



CONTROL UNIT (RACK)

MODEL SELECTION AND ORDER INFORMATION

| MODEL | DESCRIPTION | ORDER N° |
|--------------------------|----------------------------------|-----------|
| EOX 6302-1240 CO2 System | 30W CO2 Laser Marker F-THETA 100 | 985140100 |
| EOX 6302-1540 CO2 System | 30W CO2 Laser Marker F-THETA 200 | 985140012 |

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