

Produtech fiberlaser type ISEO

Best
Quality

Made in
EU
★★★



Produtech fiber laser type ISEO is a newly developed innovative machine that revolutionises workflow in cutting sheet metal directly from the coil. The benefits of handling thin sheet directly from the coils are many, which includes no limitation in handling of the material length. The continuous feeding of material ensures high productivity. The latest fiber laser technology provides unique cutting quality, high precision and impressive cutting speed. The technology within fiberlaser, is very energy efficient, with a minimum of maintenance costs. Type ISEO is suitable both for the production of steel, aluminum, brass and copper. The workspace is completely covered, and ensure that the machine meets all safety requirements.

Coil feeding system:

The system consists of rolls via rectified rubber coating provides high resistance, which is driven by a brushless motor. This guarantees constant control of the positioning of the coil during the routine work and avoids many drawbacks (ie the need for multiple restarts or using clamps) and thus ensures speed and accuracy.

Laser source:

The laser source is provided by IPG from Germany, which is the largest supplier in the market for fiber lasers. The laser cutting head is also from IPG, so we ensure the best possible use of the products.

Coiler:

Coil-launcher is a heavy-duty model. The structure is designed and constructed of thick electro-welded steel, annealed and processed with high precision. It has a hydraulic expansion of the mandrel to move inside the coil. This allows for an easy and quick replacement. The rotation is performed by a hydraulic motor with gear unit, which can finely adjust the speed, and is automatically controlled by an electro-mechanical device. Another electromechanical device control the "loop". The coiler unit is equipped with a motorized rotating arm, which ensures that no "rollback" occurs, and that the coil always have the correct settlement.



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Cutting head:

Designed with innovative technologies and assembled with quality parts, the cutting head is mounted on the machine by guides that are sufficient, hardened and rectified, with ball screws. The lateral movement (y-axis) along the entire width, is made of the latest generation of linear motors, manufactured by the best brands, ensuring high reliability, precision and speed without the need for gears. Therefore, the head can obtain:

- High speed.
- High positioning accuracy.
- Minimal maintenance.



X-a axis:

The purpose of the extra X-a axis, to achieve higher performance in fiber-laser line.

Produtech designed the additional axis which makes the cutting head to move in the same direction as the material.

This extra axis moves via. A very fast and precise linear motor.

Both Xa and Y-axis movement is controlled by linear motors with very high precision,

When the client needs to cut larger shapes, long parts or radii, the machine will set the standby position Xa axis and will work with interpolation of the X and Y axis.

Control unit:

CNC control is provided by ESA GV (mod. S500). The user interface is an industrial PC with TFT LCD 12.1 "display and a separate keyboard is mounted on a panel.

Straightening-unit:

This unit is made of a "heavy-duty" construction, the structure consists of thick electro-welded steel, annealed and processed by high precision.

There are 4 pieces motorized rollers for conveying the material, which is made of chrome-plated steel, they are powered by a brushless motor and placed before and after the straightening unit, which guarantees the highest precision.

Straightening-rollers are made of chrome plated steel with a hardened surface. The top rollers are vertically movable by hand-wheel, with a digital position indicator to allow fine tuning.



Art.nr	Type	Coil width	Sheet thickness	Source	Control unit	Straightening rollers	Straightening rollers	Straightening rollers
		mm	mm	kw		mm Ø	Numbers	Feeding
24980	ISEO A2	1500	5	0,4 ; 1 ; 2	ESA	120	6	4