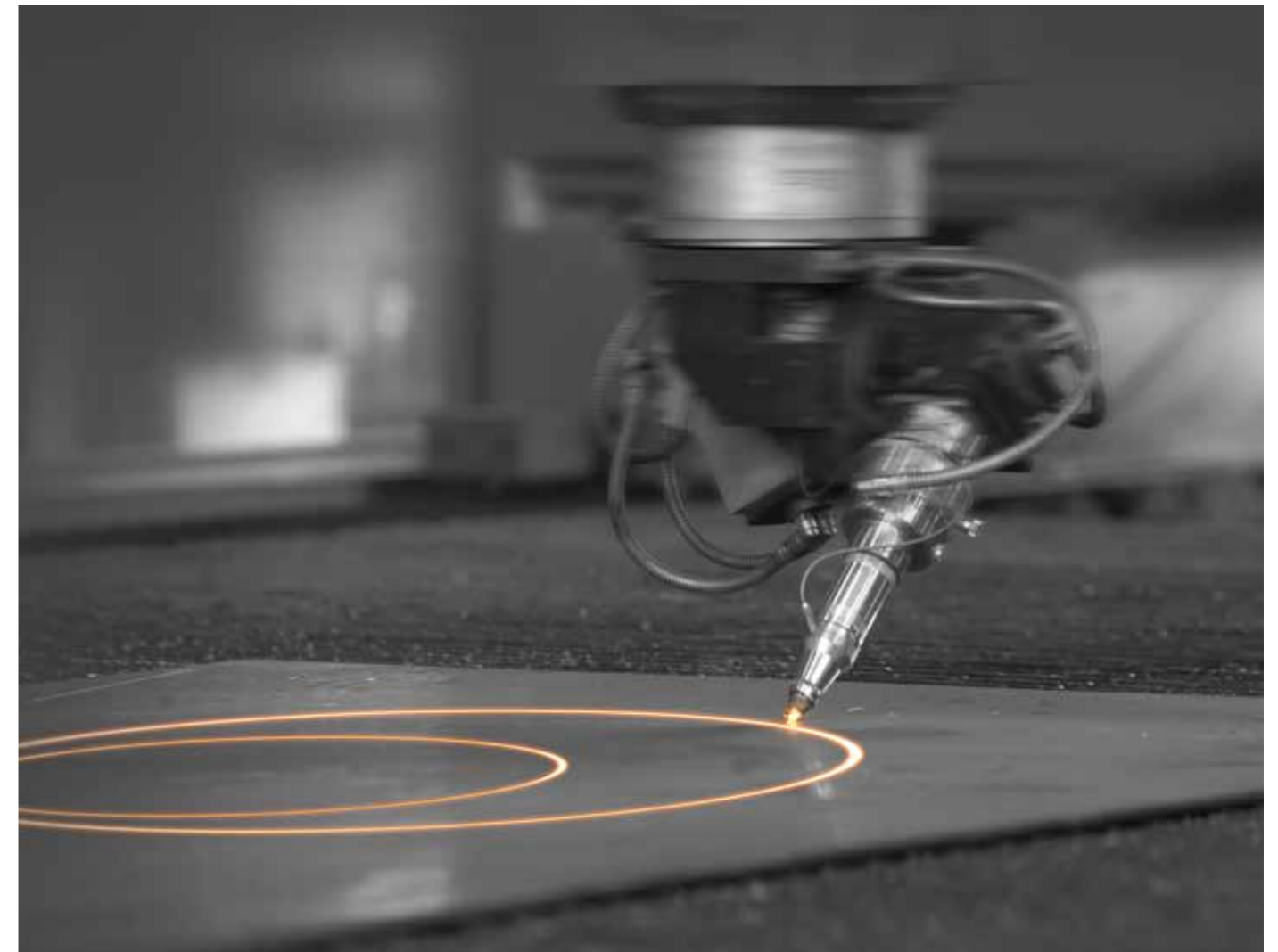


TL SERIES

FLAT LASER CUTTING MACHINE



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TL SERIES

The system is designed to be fast, easy to use, safe, reliable and flexible.

It is a **single portal** machine equipped with focusing optics with 3 controlled axes for the 2D plant and 5 controlled axis for the 3D plant. The system guarantees excellent performance in terms of acceleration and speed ensuring high precision in the whole working area.

It is composed by:

— A system of **sheet metal storage** consisting of a load-bearing structure with sheet-supporting slats. On the standard machine, the sheet metal storage table is fixed.

On request, a double moving flat bed is available for loading of new sheets or unloading cut pieces while the machine is cutting.

— **Portal unit** carrying the laser cutting head, the translation movements are made by pre-loaded roller skids;

— **A 2D or 3D cutting unit (Laser head)** equipped with a capacitive sensor and electronic control to ensure the right focus distance from the surface to cut.

— **Hopper** positioned underneath the working plan is always located below the cutting head. It is composed by two parts which are connected to the aspiration system.

— **Cutting cabin** installed around the working area and safety barriers around the movable parts;

— **Automation** for control and supervision of the whole plant.

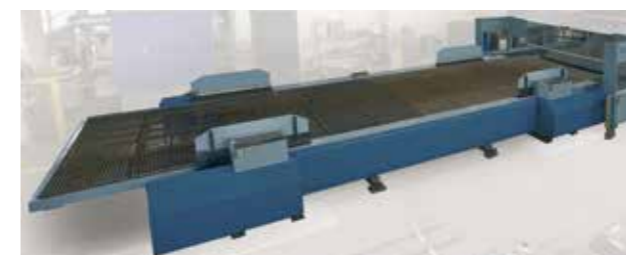


CUTTING AREA	LASER HEAD	MAX SPEED OF X, Y SIMULTANEOUS POSITIONING	X, Y MAX ACCELERATION	ACCURACY OF X POSITIONING	ACCURACY OF Y, Z POSITIONING
Y = 2 ÷ 5 /meters X = 6 ÷ 24 /meters	2D - 3D	140 m/min	5 m/S ²	0,05 mm/m	0,02 mm/m
Y = 6.56' ÷ 16.4' X = 20' ÷ 78.7'		459 ft/min	16.4' ft/S ²	0.002"/ft	0.0008"/ft

SOURCE TYPE
TruFlow Trumpf - Rofin Slab DC - IPG fiber



- < — K, V and Y inclined cuts, to prepare for welding;
- 5 axes simultaneous interpolation with the ability to vary the angle while cutting;
- Cuts with positive and negative angles that can be performed on the same piece;
- Protection system with magnetic release of the head in case of collisions.



- < To allow operating in absolute security while increasing productivity, the use of the pallet change system is recommended.