

Your advantage : our experience

The experience and know-how of Industrial Laser Systems are recognized by many industries.

Since its creation in 2003, ILS has built a name synonymous with knowhow, reliability and quality. Our company has designed and implemented special laser machining systems for the automotive, medical, nuclear, manufacturing, aeronautical and space industries.

Most of these systems operate in intensive production 24/7 and continue to fulfill their primary function. In order to ensure the durability of your laser tool, all the components integrated in our systems are systematically selected among the most robust.

Our experience in this field is the guarantee of your productivity.

3D Flex Flexible Laser System

Contact

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ONE PLATFORM

Many Applications

Unique design

What makes the 3DFlex exceptional ? It is built on a brand-new laser class 1 concept that allows several applications in the same machine.

Designed for laser

- Welding
- Cutting
- Marking | Engraving
- Texturing | Cleaning
- Cladding | Additive



Industrial Workstation

The new 3D Flex is the perfect partner for production performance in industries as varied as automotive, aerospace or parts manufacturing. Its flexibility allows any retrofit from R&D and pre-series to intensive production.



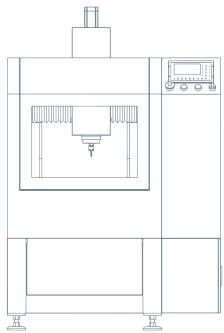
Technical data

Travel range (X Y Z)	700 400 400 mm
Rotation (A B)	unlimited 110°
Part weight	max. 50kg
Weight	1700kg
Dimensions without control panel	1600x1780x2400mm
Safety	Laser Safety Class 1
Accuracy	X < +/-15µm Y < +/-15µm Z < +/-15µm
Repeatability	X +/-1µm Y +/-1µm Z +/-1µm
Velocity (no charge)	X 300mm/s Y 300mm/s Z 200mm/s
Rotation A – Direct Drive	Velocity : 300rpm Accuracy : +/-30arc-sec Repeatability : +/-5arc-sec



3D FLEX

3D Flex can combine the three axis with two optional rotations with linear motors. According to your application, select the correct laser, add the focusing unit and your options.



Fiber | Disk | Diode Lasers
Up to 4000W CW
Pulsed laser
QCW | ns

Welding | Cutting heads
DED|WLAM head
Scanner 2D/3D

Custom HMI
Automation

Vision Control | Camera
Welding Process Control
Seam Tracking | OCT

