IRIS LASER

DANOBAT

PRODUCTIVITY IN FIBER LASER CUTTING

DANOBAT has developed a laser cutting machine based on fiber technology. It is a high productivity machine, whose more outstanding features are:

· High cutting and piercing speeds thanks to the high density beam generated by this solid state laser.

· High cutting and positioning accelerations due to machine cinematic based on linear motors.

· Minimum set-up times thanks to the automatic table change.

· Simple and compact layout. The use of fiber simplifies machine architecture, since the beam is transported through cable.
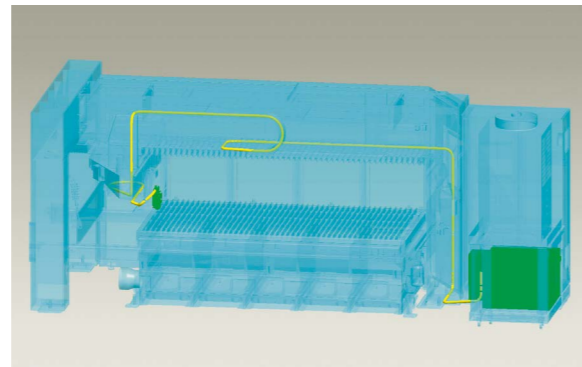
FIBER LASER

FIBER TECH by DANOBAT
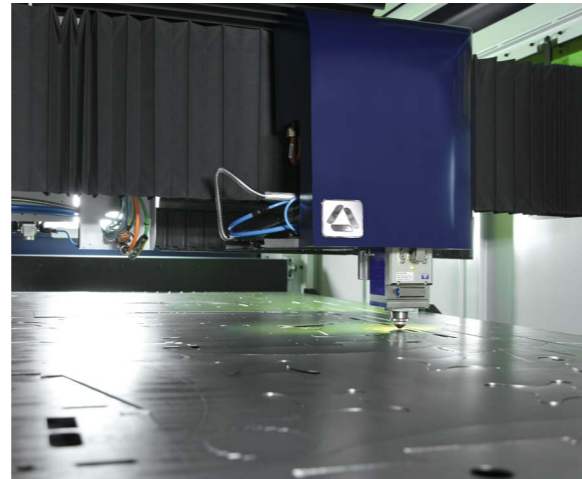
It is a solid state type laser. This type of laser generates a wavelength 10 times less than conventional lasers, thus enabling better behaviour when cutting reflecting materials (aluminium, copper, brass, etc.). With the fiber laser, generation gases and vacuum turbine are eliminated, so the laser source requires no routine maintenance, likewise its useful life is equal to that of the machine.

The beam is transported through optic fiber eliminating old mirror systems, with subsequent saving in consumables.

CUTTING HEAD

IRIS is equipped with a cutting head designed to optimize fiber laser benefits:

· Fast fiber connection on top of the head.

· Automatic focal point adjustment for each material and thickness

· Quick protection window change thanks to its auto-centring system.

· Integrated capacitive sensor for automatic height regulation before sheet deformations or upfomings.
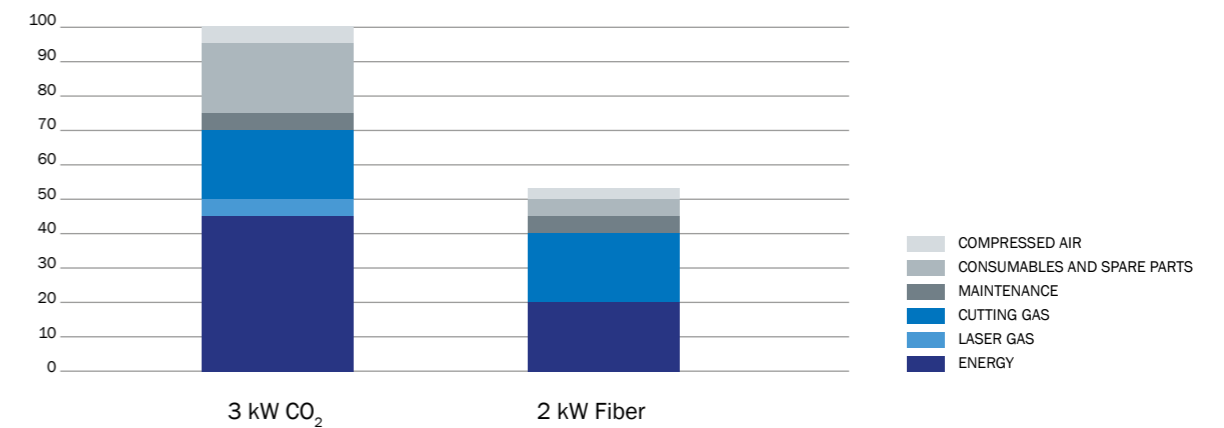
· Cooling through closed water circuit.

EFFICIENT TECHNOLOGY

SAVE ENERGY by DANOBAT

Fiber technology enables great production cost reduction associated with energy saving. In addition, a drastic reductions in fixed maintenance costs and consumables are obtained.

COST COMPARISON FIBER LASER VS. CO_2

Legend:
- COMPRESSED AIR
- CONSUMABLES AND SPARE PARTS
- MAINTENANCE
- CUTTING GAS
- LASER GAS
- ENERGY

3 kW CO_2 2 kW Fiber

TECHNICAL SPECIFICATIONS

FEATURES		IRIS 30	IRIS 40
Working area	mm	1500 x 3000	2000 x 4000*
Laser source		Fiber	
Fiber source power	kW	2 - 6	
Maximum material thickness	mm	20	
Maximum power consumption	KVA	18 - 32	
X axis displacement		Linear motor	
Y axis displacement		Linear motor	
Maximum axis speed	m/min	325	
Maximum acceleration	m/sec^2	35	
Total weight	Tn	7	8

*Possibility of bigger working areas according to customer requests

VARIETY OF MATERIALS AND APPLICATIONS

Fiber laser can be used with a wider range of materials:

· Aluminium

· Copper

· Brass

· Galvanized

· Stainless steel

ERGONOMIC DESIGN

SMART TECH
by DANOBAT

DANOBAT incorporates in this machine the SMART TECH system, which makes the interpretation of messages easier for the customer and enables direct connection with our technical assistance service.

ADAPTED SOLUTION
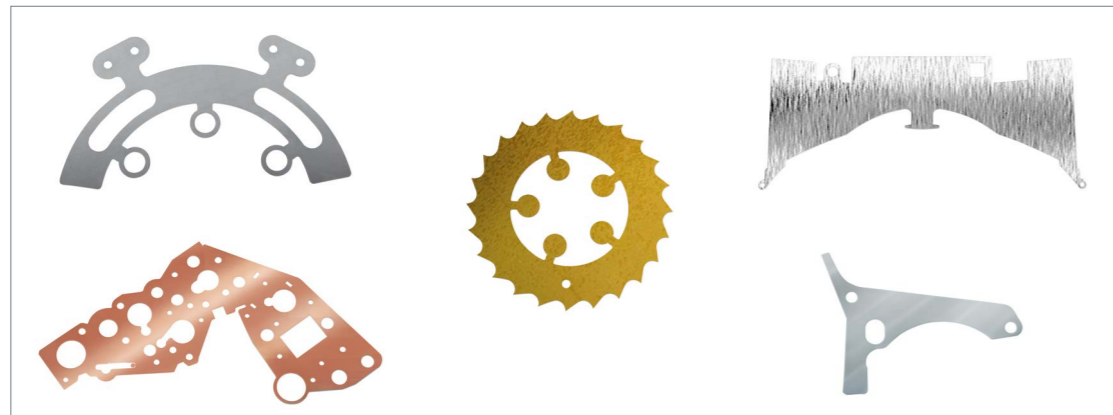
MODULAR TECH
by DANOBAT

The IRIS model of DANOBAT is equipped as standard with an automatic table change system. Optionally it may be equipped with automatic storage, loading and unloading systems.

Compact automatic loading-unloading system:
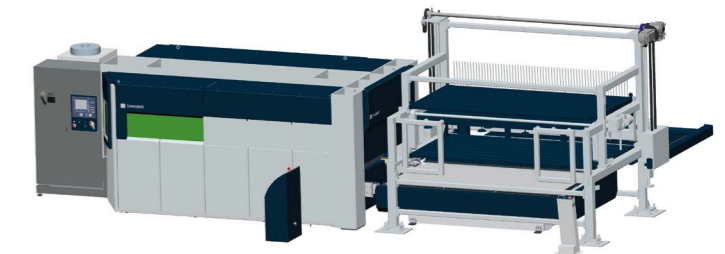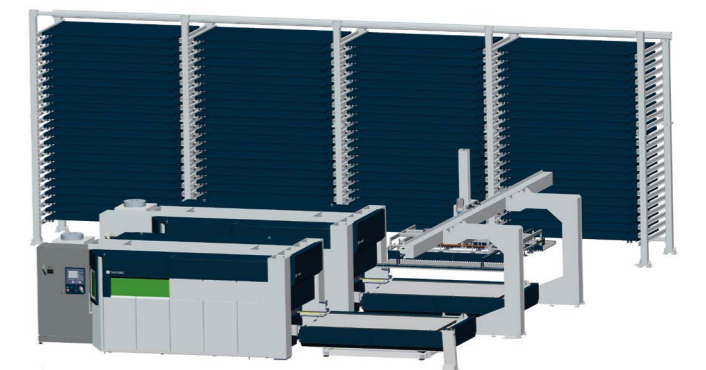
· More efficient use of space

· Sheet automatic loading and unloading

Automatic sheet storage, loading and unloading system:

· Minimum space used

· Optimum raw material management

· Maximum productivity and efficiency

DANOBAT SHEET METAL TECHNOLOGIES

▶ **PUNCHING**

▶ **LASER**

▶ **PUNCHING + SHEARING**

▶ **PUNCHING + LASER**

▶ **BENDING**

SERVICE

We are with the customer throughout the machine life.

Immediate telephone response.

Local service assistance in each country.

Personal treatment.

Teleservice from factory.

Fast assistance, 24 hours.

Stock of parts in all countries.

MORE INFORMATION IN

www.danobatgroup.com

If your phone has QR code reader, you can directly access to www.danobatgroup.com

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