



**DANOBAT**

# SILVER

PUNCHING + LASER



# PRODUCTIVITY IN PROCESS INTEGRATION

SILVER is the result of integrating a top range DANOBAT punching machine and a fiber laser in a single servo-electric system.

With the combination of these two technologies, punching and laser, we obtain the ideal flexible solution for processing parts with irregular contours and great added value.

Furthermore, this solution permits to start with raw material and obtain finished parts in a single system, thus reducing maturation period and improving material flow.



## PUNCHING TECHNOLOGY



The SILVER model is equipped with a 30 Tn servo-electric motor achieving very high punching rates.

The machine incorporates the EASY TURRET system by DANOBAT, which improves access and reduces tool change time. Furthermore, each tool in the multi-tool becomes indexable.

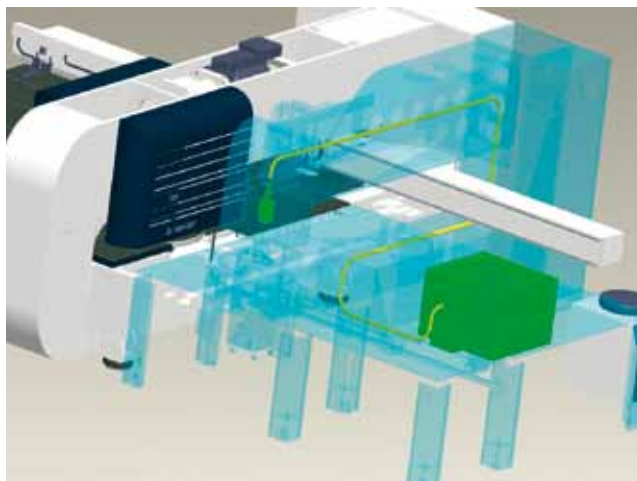


## FIBER LASER TECHNOLOGY



It is a solid state type laser. This type of laser generates a wavelength 10 times less than conventional lasers, which enables a 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.



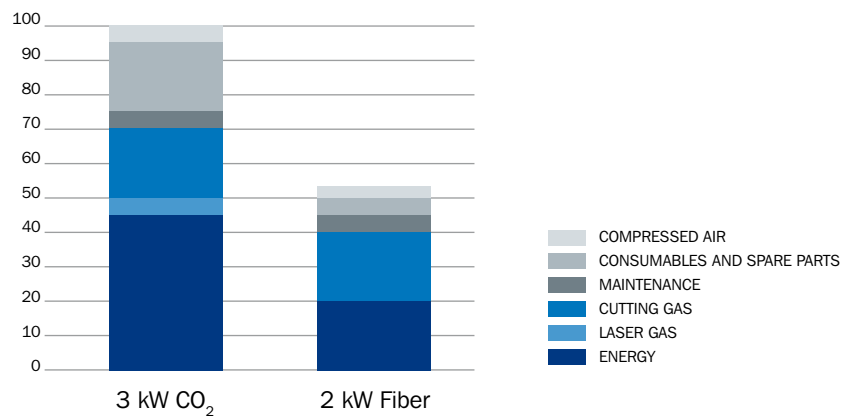


## EFFICIENT TECHNOLOGY

The servo-electric operation of the punching machine along with the fiber laser enables up to 60% reduction in power consumption. Furthermore, fiber laser technology achieves a drastic reduction in fixed maintenance costs and consumables.



COST COMPARISON FIBER LASER VS CO<sub>2</sub>





## TECHNICAL SPECIFICATIONS

FEATURES		SILVER 30	SILVER 40
Working area without reposition	mm	1500x3000	1500x4000
Working area with reposition	mm	1500x6000	1500x8000
Hit rate in marking	hits/min	1600	1600
Hit rate at 25,4 mm centers	hits/min	480	440
Automatic sheet clamps		3	4
Maximum power consumption	KVA	16	16
Machine weight	Tn	18	19
Punching force	KN	300	
Maximum punching material thickness	mm	6	
Fiber source power	kW	2	
Laser trap door	mm	300 x 450	
Speed of X axis movement	m/min	120	
Speed of Y axis movement	m/min	80	
Nº of turret stations		Up to 43	
Nº of Auto-Index tools		Up to 20	

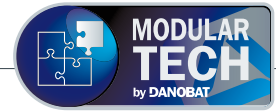
## ERGONOMIC DESIGN

The application of ergonomy in machine design has also meant a great advance in maintenance thanks to the incorporation of numerous mobile elements and improvement of the access to key points.

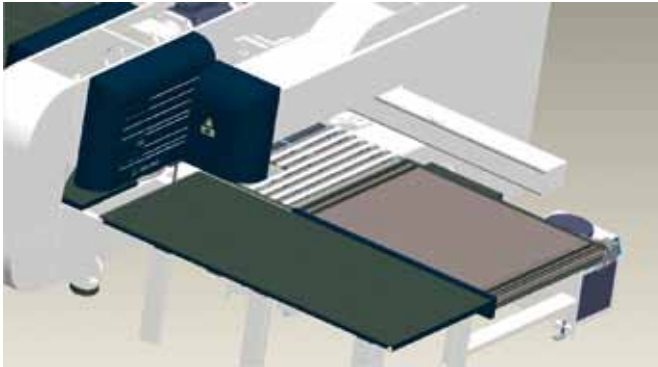
Regarding software, the SILVER model incorporates the SMART TECH system, which makes the interpretation of messages easier for the customer and enables direct connection with DANOBAT technical assistance service.



# ADAPTED SOLUTION



The punch+laser combination machine SILVER has been designed with a modular concept to incorporate a large quantity of standard and optional accessories, as well as complete automation solutions:

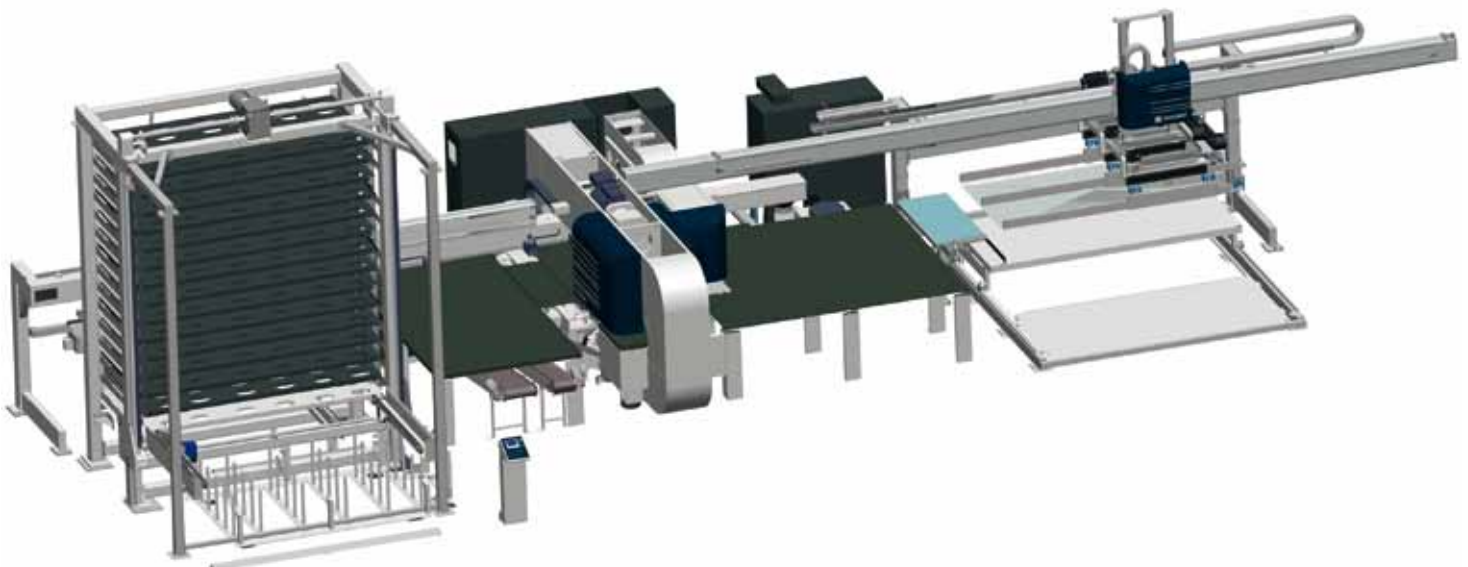


Motorized roller table to evacuate parts that cannot be evacuated via trap.

The ideal solution to avoid micro-cut parts and obtain the finished part with a simple automation.

Automatic sheet storage and finished part stacking system:

- Minimum space used
- Optimum raw material management
- Maximum autonomy and flexibility in production
- Stacking and separation of finished parts



# 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  
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