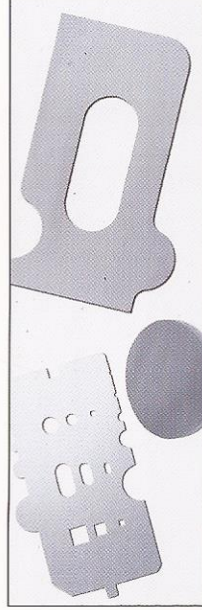


BOSCHERT



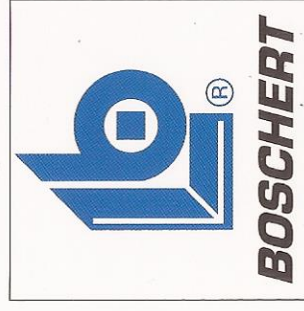
CombiLaser

Punching

Forming

Marking

Fiber Laser



simply better!

Laser cutting, punching and forming



CombiLaser Multipunch

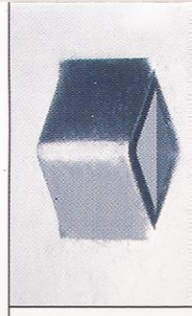
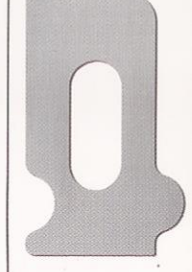


CombiCut laser TRI 3-head punching machine with 2xRevotool (head 1 + 3) and rotation / index (head 2)

Flexibility at its finest.

The Boschert CombiLaser combines the advantages of high quality laser cutting with the unique features of CNC punching. In the past, complex contours could only be cut on a flat sheet laser. Operations such as forming, beading, trimming and threading required a separate CNC punch.

Now Boschert introduces the CombiLaser, combining the best qualities of both operations. Boschert's fiber laser system can be mounted to any of Boschert's standard line of CNC punching machines, which allows the customer to purchase the machine that best matches his requirements.



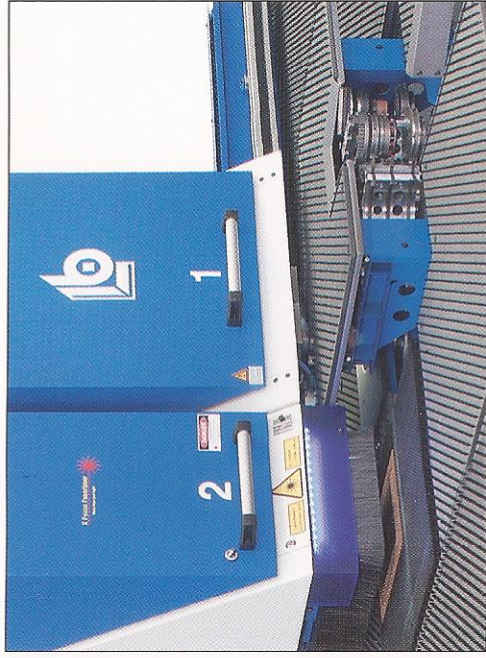
The ideal combination: Punching and Fiber Laser cutting

The trend in manufacturing is to make components that are lighter in weight, use less material, conserve resources and integrate functionality. As such, customers are working with thinner sheet structures.

Boschert has expanded its successful "Combi" series of machines to include fiber laser.



In close cooperation with our partner, Kjellberg Finsterwalde, Boschert has added the Kjellberg Xfocus 1000 fiber laser to its CNC punching line. The CombiLaser series is available with working ranges from 1000 x 2000mm to 1500 x 3000mm. Now customers can produce complex parts on a single machine without repositioning.



CombiLaser Multipunch with automatic tool changer

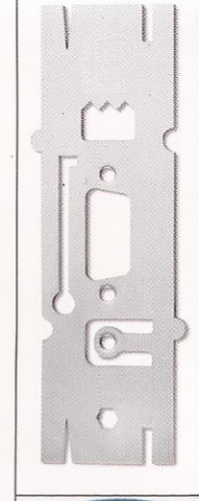
Programmable removal of small parts:



Finished parts on the CombiLaser can be quickly unloaded by means of two separate CNC controlled parts chutes. The part chutes are positioned directly in front of the fiber laser head and are 150mm square and 670mm square.

Safety & Security

Boschert has developed a security concept for the fiber laser in cooperation with the BG professional association. Optionally the machine can be also equipped with a sight protection device.



CombiLaser 1500 x 3000

1560 x 3000 mm

Performance:

Fiber Laser

Solid state Laser XFocuss 1000

Laser performance

1000W

Cutting ranges

Mild steel 0,5 – 6 mm

Stainless steel 0,3-4 mm

Aluminium 1-3 mm

Speeds

Max. positioning speed X-axis

60 m/min

Max. positioning speed Y-axis

60 m/min

Simultaneous X & Y

85 m/min

Max. stroke rate punching (HBL)

750 1/mm

Tool system

Trumpf tooling system

Max. punching diameter
Revotool 4/6 and 8-way

105 mm (76 mm Multipunch)
25 mm/ 20 mm and 16 mm

Number of tool stations (max. with Revotool):

CombiLaser Compact

1 (8)

CombiLaser TWIN

2 (16)

CombiLaser TRI

3 (24)

CombiLaser Multipunch

8 (64)

Axis accuracy

Positioning difference

+ - 0,1 mm

Repeatability

+ -- 0,03

Programmable part chute

For laser and punch part

670x670 mm max.

The Boschert CNC has a built-in technology database covering the entire range of materials.

The Xfocus fiber laser system consists of the 1kW laser system, optical fiber, laser cutting head, integrated cooling system, gas supply, off-set control and the technology database. The system is proven to be productive in a wide range of sheet metal parts in prototypes, small, medium and long-run production.

The technology-guided cutting process results in burr-free and smooth edges, eliminating secondary operations to clean edges. The fiber laser system is ideal for precision cutting of small contours; thin and delicate parts are produced with exceptional accuracy and repeatability.

Integrated technology database

- selection of the optimum cutting parameters from up to nine different cutting speeds depending on material and thickness
- Integrated pierce and corner regime
- Automatic adjustment of the motorized focus system of the laser head and the gas pressures from the database.



Our system Components:

Fiber Laser

Solid-state laser XFocus 1000

LC (Laser-Control)

Automatic adjustment of parameters according to selection at the Boschert control.

Gas control LGV (Laser-Gas-Supply)

Provision of gases according to parameter selection type and pressure

LPH (Laser Processing Head)

- Laser cutting head with automatic focus position
- Display of protection glasses dirtiness at LC menu
- Cutting and marking with the same consumables
- Axis with height control unit KHC 4 LAS
- Integrated cooling system



Dust Collection for fiber laser:

To ensure a safe work environment, it is necessary to have direct extraction of the pollutants in their development area.

Full coverage of the dust is possible only at a small distance between the cutting point and extraction point. To that end, Boschert has ensured optimal and effective integration of the extraction system on our Combilaser. Therefore it is necessary to ensure optimal and efficient integration of extraction system at our Combilaser.

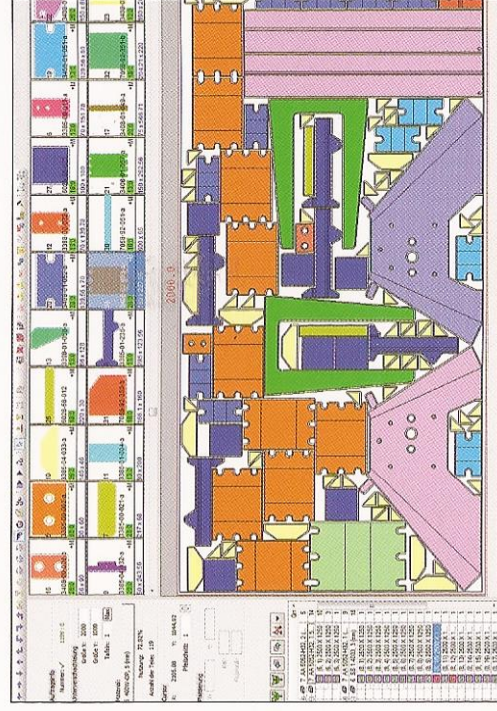


Optional components:

CNC/CAD Software+

CNC / CAD software

Our CNC / CAD solution offers a versatile and powerful support for Boschert punching and laser machines. We also offer Auto-Nesting program for optimal sheet utilization.



Boschert loading and unloading system



The loader is located on the left side of the punching machine. The loader replaced the front table and is constructed with the extension tables as a complete unit.

The loading system consists of the following components:

- Loading table
- Suction frame with vacuum system
- Thickness measurement
- Trolley for sheet staples



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