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

Our system Components:

**Fiber Laser**
- Solid-state laser XFocus 1000
- Solid-state laser XFocus 2000
- Solid-state laser XFocus 4000

**LC (Laser-Control)**
- Streamlines the selection of laser parameters 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
- Displays the laser optic protective glass’s cleanliness at the LC menu
- Cutting and marking with the same consumables
- Axis with height control unit HHC 4-LAS
- Integrated cooling system

Dust Collection for fiber laser:

To ensure a safe working environment, it is necessary to have direct extraction of the waste material in their development area. Therefore, it is necessary to ensure optimal and efficient integration of extraction systems at our CombiLaser. Completely removing dust is only possible at a small distance between the cutting point and the extraction point. To this end, BOSCHERT has ensured optimal and effective integration of the dust extraction system on our CombiLaser.

Optional components:

**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

**Spark separator, Temperature control and extinguishing device** are standard.

Safety and security

**Enclosure**

- Side loading of sheets with enclosure
- CombiLaser TRI with 4 kW and enclosure

BOSCHERT loading and unloading system

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

**Standard safety device with brushes**

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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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 “Combilaser” series of machines to include fiber laser.

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, heading, 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.

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.

Quality and separating cuts 1kW, 2kW, 4kW

In close cooperation with our long term partner Kjellberg Finssterwalde, we at Boschert developed a Punch/Combi-machine with Fiber-Laser XFocus. This includes a Fiber-Laser from IPG and cutting head from Precitec.

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

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 system
- automatic adjustment of the mechanical focus system of the laser head and the gas pressures from the database.

The best matches his requirements.