
Platino® Fiber - The laser efficiency

PLATINO® Fiber 2D laser cutting machine is the perfect balance of innovation and experience. This product combines state-of-the-art efficient and ecological fiber laser technology, with the proven reliability and flexibility of the PLATINO® platform.

PLATINO® Fiber is the right choice for sheet metal manufacturers looking for a production tool which is efficient, granting energy and maintenance savings, and productive, particularly on thin and medium-gauge sheets.

PLATINO® Fiber is highly flexible: it is suitable for a wide range of materials, including highly-reflective metals, and with zero setup time the machine can change from cutting flat sheet metal to processing round, square and rectangular tubes. It also features a wide range of optional automation modules, to suit any production need.

PLATINO® Fiber is available for sheets up to 1,500 x 3,000 mm and with 2 kW and 3 kW fiber laser. The combined speed of the linear axes is 140 m/min and the acceleration is 1.2 g for each axis.

PLATINO® Fiber compact design provides minimum footprint and easy transportation and installation. The synthetic granite frame offers the best thermal stability and vibration damping and the cantilever design allows maximum accessibility to the machine and the integration with the automation systems.

The protection cabin grants safety and visibility at the same time. It features a roof which totally opens when loading, unloading, and maintenance operations have to be performed. Windows are made of fiber-safe material.

PLATINO® Fiber head is equipped with a single focusing lens suitable for any production and with a high-dynamics focal axis. Maintenance is easy and quick thanks to the cartridge system for lens changing and to the optional automatic nozzle changer. The Safe Impact



Protection System (SIPS) protects the machine head in case of collisions with workpieces or fixtures. With the Optical Precision Control (OPC) the nozzle alignment is simple, quick, perfect.

The P30L numerical control by Prima Electro features a user-friendly slim console with 17" LCD touch screen and trackball, high computational power and more powerful HMI, Windows® embedded. Thanks to the advanced algorithms for optimal trajectory management and the TOB (Tables-On-Board), the machine is extremely easy to use.

For off-line programming PLATINO® Fiber takes advantage of the user-friendly and fast MAESTRO-Libellula® system. Main features of the MAESTRO-Libellula® are: highly effective and accurate Nesting Module, Tables-on-Board (TOB), Integrated Virtual Machine with accurate production cost and time calculation, FBS (Fast Beam Switching) for grid cutting, to boost speed in case of parallel profiles. The cell software package integrated in the P30L control system ensures continuous and effective machine operation.

A wide and modular range of solutions for the automation of the material flow is available for all production types and sizes, from the simplest pallet changer to the most sophisticated FMS for intensive and demanding production flows.

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Prima Power PSBB - a Compact Flexible Manufacturing System

At EuroBlech 2012 Prima Power exhibits a compact FMS solution.

Prima Power PSBB (short for punching, right angle shearing, buffering and bending) is a fully automatic manufacturing line for processing sheet into ready-bent, high-quality components.

In line with the company's Green Means® philosophy, the line is servo electric apart from one auxiliary function of the automatic bending cell. Energy consumption is low and maintenance cost far smaller than in hydraulic technology.

Combo storage

Equipped with a Combo storage the PSBB line is the perfect solution for lights-out production of even the most intricate components from a variety of materials, which can be can be changed, as programmed, automatically. The PSBB at EuroBlech has a double storage which provides truly extensive capacity.

In addition to fully automatic processing, e.g. the turret punch is free for use in manual operation to produce even a single part.

Punching and shearing - Shear Genius® cell

The vast majority of all fabricated sheet metal components are rectangular, so a highly economical method to produce them is to perform first punching and then shear the components loose in the same automatic process with an integrated right



angle shear. Also, parts with two or three straight edges are perfect for fabrication with a right angle shear.

The heart of the servo electric Shear Genius SGe is an updated servo electric turret punch press. The right angle shear has a servo electric actuation system of its own, which makes shear movement at the same time both fast and fully controlled; this optimizes productivity.

Ram force is 30 tons, maximum hit speed 1,000 hpm, maximum positioning speed 150 m/min and index tool rotation speed 250 rpm. Maximum sheet size is 1,500 mm x 3,000 mm.

The SGe has optimized tool changes; other auxiliary times have been minimized for best production output. Well known features such as automatic clearance setting of blades are included to maintain high part surface quality.

After shearing the components are picked and stacked by a gantry robot for buffering and subsequent bending.

Buffering

Material flow can be arranged in flexible ways to transfer parts direct to automatic bending, to balance the different time requirements of bending and punching/shearing, to exit material from the system and to bring new material into it. The flexible and versatile buffering function ensures that optimum operation in terms of manufacturing cost and throughput time can always be chosen, whatever the manufacturing task at hand.

Automatic bending

A turning device is included in the PSBB on display.

A gantry robot transfers the components, as programmed, into the automatic bending unit. The EBe automatic solution, featuring Prima Power's servo electric technology, offers outstanding benefits through very fast operation, flexibility for



small series production, excellent bending quality and low energy and low maintenance cost.

Options

All the versatile Prima Power punching and shearing options can be included in a PSBB line. Similarly, several solutions are available for automatic handling of bent components.

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Prima Power press brakes – high technology based on a long tradition

Prima-Power has been a true pioneer in applying servo electronics in sheet metal working technology. The first punching machine with the green e-technology was introduced already back in 1998. Today this technology is offered in a wide range of products e.g. stand-alone punching machines, laser combi and Shear Genius® machines as well as panel benders.



When it comes to press brakes Prima-Power's experience goes back to 1987, when Finn-Power bought a Finnish press brake and shear manufacturer. Ever since press brakes have made part of the wide Prima Power product offering.

Servo electric eP-Press Brake

The long tradition has now been combined with the know-how of servo-electric drive systems. The new eP-Series press brake is a fast, accurate, non-hydraulic bending solution. The Group's own Prima Electro CNC control and servo electric drive system feature the advantage of high acceleration, deceleration and fast response times. The pulley-belt system distributes the force over the whole bending length eliminating upper tool deformation.

Programming includes automatic bending sequencing and is done over a 17" touch screen with an intuitive 2D graphical interface. In case of off-line programming the control is equipped with an interactive 3D visualization graphics. No compromises in productivity are needed to obtain highest operator safety; Lazer Safe's "Block Laser" system provides safe high speed closing down to just 2mm. Compared with other guarding systems or even unguarded machines the block laser system can save up to 2 or more seconds per cycle.

Special attention has been given to the frame construction: the rigid O-frame eliminates horizontal deflection and allows back gauge positioning over the whole working length. The linear scales are mounted on independent side frames and guarantee a ram positioning accuracy of $\pm 0.005\text{mm}$.

The features of the new 55 tons 2-meter eP-0520 on display at EuroBlech include

- Prima Electro Open Control
- Belt-pulley force transmission
- Lazer-Safe "Block-Laser" safety device
- Increased approach and return speeds with 310mm stroke
- O-frame construction with increased rigidity



- 5-axis back gauge with increased rigidity
- Wila tooling system

Green Means® for productive bending

The innovative machine concept combines productivity, accuracy, flexibility and reliability with high respect to ecological aspects - the concept called "Green Means®" by Prima Power.

The concept offers both sustainability and manufacturing efficiency and productivity. It means greater versatility, lower power consumption, less maintenance and no oil to purchase or to get rid of. In addition, easy programming and outstanding accuracy eliminate waste production. Better sheet metal components can simply be made at lower cost.

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