

Lamiera - Bologna
9-12 May
Hall 30, Stand B11-B13-B15

Prima Power introduces new combi laser machine

Based on decades-long experience the new LPe6x punching - laser cutting cell by Prima Power makes this flexible and productive technology available on an attractive investment level. The cell includes the servo electric Prima Power E6x turret punch press and the Prima Group's own CX type CO2 laser source with 2.5 or 3 kW laser power according to application. Working area is 1,500 mm x 3,000 mm.

Modern punching capacity

The inherent benefits of servo electric include energy efficiency, versatility and accuracy and low maintenance cost. For example, in forming, servo electric technology provides top level accuracy in the positioning of the punching cylinder. Additional work stages like marking and tapping can be easily performed using optional equipment.

In addition to standard punching applications, complex fabrication tasks can be performed. The height of forms made using forming tools can be adjusted direct from the machine screen and saved in the tool library of the Tulus® user interface. The number of rotating tools can be increased with indexable Multi-Tool® technology. This simplifies programming and shortens set-up times. The new quick-change tool holder solution has the same effect.

The use of servo electric technology in punching is inherently economical in operation and maintenance, but it also opens new possibilities to develop further ways to reduce costs.



The turret punch press has a new idle operation mode, into which it switches automatically if not operated for a while. Index tool rotation speed is 133 rpm and maximum nibbling speed 700 hpm.

Easy manual loading, automatic closing of clamps and the 500 mm x 500 mm work chute add considerably to fabrication efficiency. Brush segments rising from the table protect sensitive materials moved over the dies. Automatic clamp setting makes daily machine use faster and easier as well as improves safety.

High-performance Prima Power laser cutting

LPe6x is equipped either with the Group's own standard CX2500 or the CX3000 laser. It can cut material up to 8 mm thickness with quality and efficiency.

Both lasers feature low energy consumption. The energy saving mode function, developed already several years ago, is beneficial in combination with the servo electric punching system.

The well balanced laser power available offers most economic fabrication for a wide range of materials.

Flexible automation with Compact Express

The LPe6x cell can be equipped with Compact Express automation for loading and unloading. Sheets are loaded and unloaded by equipment which, true to its name, is highly compact, adding practically nothing to the floor space requirement of the basic machine. Compact Express is fast and easy to install and can also be retrofitted as an upgrade.

Depending on the fabrication task at hand, the most suitable one of four different ways of operating can be chosen: automatic loading and unloading, automatic loading and manual unloading, manual loading and automatic unloading, or manual loading and unloading.



The equipment is integrated close to the machine, but still manual operations are easy as they can be performed on the free side of the machine. Material flow is practical, and pallets can be loaded and components removed from them while the machine operates. The machine can be installed against the wall or in a corner.

Equipped with Compact Express the cell can also be connected to Combo FMS® or Night Train FMS®.

Automatic part handling

Also component handling can be automated by choosing the LST system which picks components from the machine and stacks them into programmed positions in the palletizing area. Further, the LST features an automatic compact skeleton removal function, and the entire working cycle of the machine becomes automatic. The LST can be equipped with additional tables and integrated with the Combo FMS® and Night Train FMS®.

Material handling capacity is available for sheet thickness range 0.5...8 mm and a maximum sheet weight of 200 kg. The gripper of the standard LST construction has 1,200 mm sideways movement for easy utilization of the whole stacking area. The LST can also be utilized for robot assisted last cut RALC-Lite.

The equipment is easy to program with the NC Express™ programming system by Prima Power and fast stacking management is achieved by using the Tulus® user interface.

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FastBend 6 - a new model in the servo-electric bending line by Prima Power

More and more fabricators are facing a situation, where big volumes are replaced by the need to produce small batches on a just-in time basis. In traditional bending with press brakes, set-up times, technical limits in producing sophisticated components and the requirement for skilled personnel may prove problematic in such manufacturing tasks.

Basing on extensive experience applying servo-electric technology in automatic panel-bending solutions, Prima Power has introduced this concept in a new automation solution which focuses on set-up rather than material handling. Today a new model is added to the FastBend family: the FBe6, with maximum panel dimension up to 3,350 mm. Three models with different maximum bending lengths are thus now available, to better meet the needs of all users.

FastBend replaces the press brake with the automatic bending technology which allows more bends for each side in an automatic sequence without any manual intervention, FastBend capabilities include positive/negative inversion, smashing and radius bend and several other typical profiles; only the loading, rotation and unloading are manual. The result is bending quality, fast production and elimination of human mistakes. With options ATC (automatic tool change) and barcode reader the machine makes set up automatically and activates a new part program. The clear and logical screen instructions facilitate and speed up operation further as well as support fast self learning.

FastBend requires no foundation and is very fast and easy to install. Due to compact machine layout it is simple to place in the premises.



Savings and accuracy

The inherent benefits of servo electric technology include very low energy and maintenance costs, e.g. average energy consumption is similar to that of a press brake. Impact on manufacturing environment is reduced (minimum noise and vibrations). The machine is not influenced by thermal conditions, and component quality is excellent.

Maximum bending lengths are FBe4: 2,550 mm; FBe5: 2,650 mm; FBe6: 3,350 mm.

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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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