
International Prima Power Technology Days in Finland

During 4 - 7 June more than 300 visitors from 35 countries attended Prima Power Technology Days, organized at the Group unit in Finland. A specific theme was The Year of Three Birthdays. Due to a rare coincidence, the Group can this year celebrate a three-decade career in punching technology, 20 years of experience in 2D laser cutting machines and 15 years as a supplier of servo-electric solutions for sheet metal working.

Mr. Ezio Basso, Prima Power Managing Director says that this reflects an important fact about corporate performance:

“As our first company value we have defined Technology and Innovation, stating that we find advanced technology fascinating, we are proud of how users can benefit from it, and we are committed to creating innovations. Here we have a history of innovations - perfect proof that the Prima Power values are not only a guideline for the future but based on a strong tradition.”

During the four-day event, an impressive array of the wide Prima Power product range was on display, including totally new technology.

PLATINO® with part picking and stacking

Integration of the Prima Industrie Group is increasingly manifest in the product offering. For the first time, the world-renowned PLATINO® laser cutting machine was introduced with a Finnish-made picking and stacking robot LST. PLATINO® is available with a 2 or 3 kW fiber laser or 2.5 - 5 kW CO₂ laser source.

The LST eliminates manual separation of cut parts from the skeleton and therefore reduces manual operations, increases part quality and reaches a higher level of productivity with unmanned operation.



The robot picks the parts direct from the cutting head; this highly reliable solution has so far not been seen in conventional laser automation. The components are accurately stacked to programmed addresses on tables or wagons or sorted into boxes.

New punch laser combination

In The Combi range of integrated manufacturing cells, a new generation of punching - fiber laser cutting was presented. The premium series LPe6f with high-end punching technology and a 2 or 3 kW fiber laser source can run the most complex production orders with outstanding versatility and record-breaking speed.

Sheet positioning speed is 150 m/min. In versatile servo-electric punching, impressive performance values are reached such as punching speed up to 1,000 hpm / 1 mm, punching force up to 30 tons and simultaneous tooling capacity up to 384 tools with Multi-Tool® technology.

Large tooling capacity, automatic tool length measurement, optimization of stroke length and easy adjustment of the punching stroke ensure superior punching cycle times. These combine with others, adding up to faster set-ups, more ease of operation and higher capacity.

Automation can be arranged flexibly with a wide range of modules.

PunchBend - new fabrication solution for pre-cut material

A new compact and economical fabrication solution for pre-cut materials was on display for the first time. PunchBend processes pre-cut material into ready-bent components. The essential characteristic of the concept is tight integration of everything needed: software, punching and bending technology as well as automation.

Both punching and bending technology are servo-electric thus making the new product part of the company's Green Means® offering.

The same high-end Prima Power punching technology as in the punch laser cell is included. As the punching stroke is NC-controlled, in addition to high-performance punching outstandingly accurate forming capacity is available. High repeatability facilitates forming, roll forming, marking etc. and shortens set-up times.



Prima Power's automatic servo-electric bending technology offers major benefits through excellent bending quality and accuracy as required by e.g. design products and a low overall operation cost due to low energy consumption, low maintenance cost and very fast operation.

The PunchBend process is fully automatic:

- 1) Automatic loading of pre-cut material to punching unit, automatic clamp setting
- 2) Material is processed (punching and forming) with punching unit
- 3) Processed part is transferred to bending unit and prepared for bending process, new material is loaded to punching unit
- 4) Part is processed by bending unit; the next sheet is punched simultaneously
- 5) Removal of ready-bent component

Press brake range extended

The wide range of Prima Power press brakes has been extended with a new model eP1-0212. Working length is 1,200 mm and bending force 25 tons.

The Prima Power eP1 series press brake is a compact size, fast, accurate, non-hydraulic bending solution. The ram is driven by a combination of heavy duty servo motor and a high performance ball screw. This innovative machine concept combines productivity, accuracy, flexibility and reliability.

Further machine features include side frames which are outside the maximum bending length, Lazer Safe 005 "Block Laser" safety system and 2D graphical NC control.

New Tulus® software product



The Tulus® software family is an efficient solution for flexible production management from order handling to finished parts and reporting.

The latest addition to the family is Tulus® Power Processing for programming, tooling, automatic nesting, and management of part routing and process steps. Power Processing communicates directly with the enterprise resource planning system and operates as manufacturing execution system.

Tulus® Office provides tools for comprehensive production planning with machine calendar and active task list editing possibilities, as well as production and performance reporting options. With these reports bottlenecks can be spotted and production improved.

The Operator - new generation of remote services

The Operator is an advanced system for continuous cooperation between the customer and Prima Power to achieve maximum availability through condition monitoring and support. The Operator consists of three modules.

OPView gives a monthly report on machine condition based on information from machine control. The report can be used for monitoring machine condition by comparing it with earlier reports and, when needed, with information about other similar machines.

With **OPSupport** fault diagnostics can be made with web cameras. A recorded video can also be seen afterwards. With the combination of cameras and 24/7 Prima Power service, support is available all around the world.

OPEfficiency makes efficiency reports on machine condition and performance. Performance reports record machine running time and the reason for eventual downtime. Reports are analyzed by Prima Power personnel.



For more information please contact:

PLATINO® with part stacking

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