
Prima Power introduces new punching technology

True to its tradition of continuous product development, Prima Power launches a new generation of servo-electric punching technology. At BlechExpo, it is introduced in the punching unit of the new Combi Genius punching - laser cutting cell. Another traditional Prima Power strength is modularity, and thus the new technology is also available in high-performance Punch Genius turret punch presses.

Numerous improvements have been made not only in the punching unit but also e.g. for better ergonomics, making the cell extremely easy to operate.

Enhanced productivity is complemented by a totally new industrial design.

High-performance punching

Available maximum sheet sizes for Punch Genius turret punch press and Combi Genius cell are 2,500 mm x 1,250 mm and 3,000 mm x 1,500 mm, New Genius comes with servo-electric punching force options of 230 kN and 300 kN.

Prima Power's flexible turret concept allows the availability of up to 384 tools or 128 index tools simultaneously in turret. A new option is the rotary ram which shortens tool change time and increases the number of tools in turret and especially that of index tools. More value can be added to the end product using special tools for tapping, bending, roll forming, marking etc.



A further option is the high-precision, indexable servo-electric 200 kN upforming unit.

Sheet positioning speed is 127 m/min, hit rate 1,000 hpm, index speed 250 rpm and tool change time 0.3 sec (min). X-axis travel is 2,500 mm.

State-of-the-art fiber laser cutting

Combi Genius combines the benefits of this punching performance with the latest in fiber laser cutting, raising the productivity of the highly versatile integrated manufacturing concept to a new level.

As the laser source, a fiber resonator of either 3 kW or 4 kW can be chosen.

The optimized cutting head, collimator, transfer fiber and cutting parameters ensure a very high cutting quality and speed.

Easy to operate - designed for high surface quality.

The control unit has one or two displays, and the whole punching - laser cutting process is easy to monitor from the upper display as four cameras have been installed in the cell.

Prima Power's programming system and cell control work in perfect combination and can be linked to the factory ERP system.

The new Easy Access concept with a movable machine table makes manual loading of all size sheets convenient in a Punch Genius.

As standard, Combi Genius has two work chutes, one (300 mm x 400 mm) for fast sorting of smaller work pieces and an 800 mm x 800 mm chute for larger components. From the chutes the parts are brought next to the machine for manual removal or



onto conveyor systems. A 500mm x 500mm work chute is available for removing punched parts with the possibility of integration with a sorting device using conveyors.

As requirements for high surface quality are more important than ever, special attention has been paid to this. The Scratch Free system (option) has vertically moving, programmable brushes in front of and also inside the turret.

Automation and safety

Prima Power's well-known Compact Express solution is available for automating loading and unloading. The latest model features faster cycle times and the highly practical KOS system, using which the forklift operator can open the door using remote control. Compact Express in no way prevents manual loading when it is more convenient.

Alternatively, the LST system can be chosen for automatic loading, unloading and component stacking.

Easy Cover is a new, practical solution for required safety. It surrounds the entire system and protects the environment from stray radiation; yet the construction allows easy performance of manual loading, unloading and maintenance tasks.

For more information

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