

Torino, 22 February 2000 - At Lamiera PRIMA INDUSTRIE presents **LaserServer**, the new automatic loading/unloading unit applicable on its two-dimensional laser machine PLATINO. **LaserServer** is an expandable and modular system, which can be made up and enriched of elements with the greatest flexibility, to finally arrive to the unmanned working cell, integrated with a sheet metal store. The system can be also enlarged by successive steps. In this way it allows diluting the investment and keeping pace with the growing production rhythms.

In its basic configuration **LaserServer** is made of a loading/unloading robot with a stiff structure, placed transversely to the mobile pallet of the machine, and two loading/unloading stations on both sides of the same pallet. The structure holds two arms, one equipped with vacuum cups to pick up the sheets to be processed, the other with fork prongs to unload work-pieces and scraps. A device is available to automatically check that the arm has lifted a single sheet by controlling its thickness.

The loading/unloading stations are two tables equipped with mechanical references and sensors for sheet presence. A sheet metal auto-referencing device can be added for an accurate and automatic referencing of the sheet, thus avoiding dead times for the referencing on board the machine.

Both the 3-axis CNC and the integrated PLC controlling the loading/unloading robot are directly interfaced with the machine CNC for a perfect management of the work cycles.

The tables can also be replaced with two shuttle tables, which are fed with sheet metal packages and unloaded of workpieces and scraps outside the work area. The shuttle tables make the unit further functional and enable the link with eventual entry and exit stores in the fully unmanned cell.

LaserServer shows its versatility also in the disposition of its elements. Various solutions are available to guarantee the best integration of the system in any workshop.

The potential of this system can be better exploited with PLATINO's flexibility. For example, its focal axis makes it is possible the cutting of sheets with different thickness and material in any sequence within the same working cycle. PLATINO automatically changes all parameters according to the type of sheet to be machined.

PRIMA INDUSTRIE, an Italian Company based in Torino operating since 1977 in the field of industrial automation, is today a world leader in the laser machine market. PRIMA INDUSTRIE distinguishes itself for the wide range of products with top performances and reliability, both for 2D (PLATINO, LASERWORK, MAXIMO) and 3D processing (DOMINO, RAPIDO, OPTIMO) and for its excellent growth rate (the average increase of sales over the last five years has been close to 30%).

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