

NBM – ITALY

# ONE STEP AHEAD



**From the component to the complete assembly, NBM Tech is able to meet the needs of various industrial sectors, providing know-how and expertise in the field, on a national and global level. LVD press brakes contribute to its continued growth.**

NBM Tech of Scarperia e San Piero, Florence, Italy was created as a mechanical engineering company serving customers in the textile, plastic processing, machine tools, and wood industries. In recent years, NBM Tech has become involved in science and medical sectors, as well as in the demanding packaging manufacturing market. The company of about fifty people is managed by owner Mr. Giacomo Borselli along with his father, Gianfranco, and his brother, Gianluca. In its history, NBM Tech has experienced continuous expansion, both in turnover (about

8 million euro recorded in 2015) and in manufacturing capacity (with about 8000 square metres of manufacturing space available at present). Its expanded production space is home to LVD machines, most notably a new *ToolCell 135/30*, an automatic tool changer press brake programmed using LVD's *CADMAN®-B* software.

Explains Giacomo Borselli: "The decision to integrate the LVD press brakes into our machine

fleet was dictated primarily by the need for equipment able to provide higher quality and maximum repeatability in the production of components which, despite the fact they belong to the same production batch, must be processed on multiple shifts or by different operators, with the various critical aspects this can imply.

"The first press brake we have purchased with the *Easy-Form®* Laser adaptive bending system, has immediately ensured our company perfect processing and repeatability.

"We decided to acquire the *ToolCell* to increase process automation and to manage programming straight from the technical office. This has made the process faster and safer for the machine operator by freeing him from the burden of frequent retooling, which occurs often with batch processing."

### **Faster, more flexible and higher quality bending**

The acquisition of the *ToolCell 135/30* has been a winning strategy for NBM Tech, greatly reducing unproductive

left to right: **Gianluca Borselli**, owner of NBM Tech, with his father, **Gianfranco**, and his brother, **Giacomo**



downtime in tool changing, no matter the size or complexity of the specific application.

“The *ToolCell*” - emphasizes Borselli - “fully satisfies the trend that requires smaller batches, with components ever more diverse from each other and increasingly shorter delivery times.”

### Real-time angle control

Built on a rigid frame structure to guarantee maximum precision of the process, *ToolCell* uses a state-of-the-art servo-controlled hydraulic system and is equipped with the patented *Easy-Form® Laser* adaptive bending system. Thanks to the angle monitoring and to the corrective technology, this system ensures consistent, repeatable results, from the first piece to the last. A laser measures the bend angle and corrects for any variations during the bending process so that every bend is made to the correct angle. This approach eliminates re-work or multiple trial bends to obtain the required result.

### Integration for bending

As part of a more comprehensive package (which also takes into consideration laser processes, punching, production control, communication and management), *CADMAN®-B* provides a simulation environment which displays the

entire bending process, including collision detection, from the beginning to the end, as well as all measurement positions and tool set-ups.

“A great advantage offered by the *CADMAN-B* software” - says Borselli - “is the complete compatibility not only with the new *ToolCell*, but also with our other three LVD press brakes. This allows us to optimise orders and work flow to meet very short response times.”

### Growing to meet new challenges

“We consider it very important” - concludes Borselli - “to keep up with the market requirements. Achieving high performance in the technologies and advanced solutions we employ is one of our main objectives. The idea of progress and improvement lies at the root of our activity.”

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