



“HFP” AN INNOVATIVE SHEET METAL WORKING PHILOSOPHY

View of the poles production line.

PRODUCTION LINE FLEXIBILITY IS THE TRUE PERSONALITY OF A LEADING COMPANY.

Tecnopromec, recognized since the end of the 70s as Tecnoprofilatrici, was created as a result of one of its founder, and current administrator, Gianfranco Trombetti's ideas. Initially a user of profiling lines, today the company is a leader in the **planning** and **creation** of non-

standardized and technologically innovative industrial **production lines**. Tecnopromec bases its high degree of professionalism on its continually increasing industrialization level combined with customization and on the strengthening of all of its operational departments, from the workshop area to the technical and administrative offices, always relying on fresh and dynamic skills. Installation, set up, inspection, assistance and training perform an essential role today in maintaining their high level of flexibility and vitality. These characteristics sum up the corporate mission: to make use of the know-how and experience gained in previous productions to continually increase their quality levels. The company has always aimed at achieving high customer satisfaction by providing non standard solutions that are based on needs and the features required. This gives their customers two fundamental advantages: to have **high performance systems**,



Modulus changing.



Disassembling of the production line shoulder.



Tecnopromec's technical and administration staff.

suiting to their specific production needs and to obtain significant rationalization and thus optimization of their investment. Tecnopromec designs and creates production systems in the **road safety, building, logistics, civil and industrial millwork, energy and steel processing** industries. They operate both nationally and abroad, especially developing their markets in the European countries, Russia, Africa, the United States and Latin America.

HIGH FLEXIBILITY PROJECT (HFP)

Flexibility is a term and feature that is an increasing part of the fundamental requirements for every modern production facility. In the world of **profiles**, the diversification of products, which must always be as customized as possible (in order to optimize the assembly processes), and the JIT (Just In Time) production system now imposed on all sectors by market demands, inevitably lead our customers to look for solutions that can satisfy their need to be able to produce in a very dynamic, and thus extremely flexible, manner. Tecnopromec, a company with a strong innovative personality, is launching its new HFP project, where flexibility becomes the strong point of each section of the **production line**. The company's basic philosophy is that **flexibility** cannot be created without **flexible thinking** and thus planning: this is the basis of the new concept for a production line that easily

adapts to required changes. In reality, this approach to thinking and acting has always been part of the philosophy of Tecnopromec, which historically produces "**custom made solutions**" through their use of the ETO (Engineer To Order) method. The **High Flexibility Project** is the culmination of this characteristic that we have always applied to the machinery we design. In the production process sectors of the profiling lines we have created, there are numerous areas where HFP is applied and relates to the entire production phase: the type and length of the profiles, the stamping diagram and the packaging characteristics.

BELT STAMPING: the High Flexibility Project brings an important innovation regarding the **stamping benches**, which become modular (according to the customer's needs), comprised of a high speed hydraulic **stamping unit** equipped with standard tools (used for years in high quality stamping machines, highly engineered, with an excellent quality/price ratio and available from numerous suppliers in practically every part of the world). The entire system is managed with a 2D positioning system (with 2 axes) where the stamping sequence is defined by a simple programme which contains the coordinates for each individual drawing. The application is thus an "innovative simplification" for the profiling industry in order to obtain minimum costs and have all

useful and necessary functions available.

ROLL PROFILING: The High Flexibility Project leads to an acceleration of efficiency in the profiling phase (always highly productive but not very flexible). Today the possible solutions range from the most classic, such as double translating profiling machines or **quick change** systems for modules, to the most innovative techniques of duplex profilers with automatic or semiautomatic regulation of the base of the profile and the **thickness** of the **sheet** to be used. Another important aspect is the variability of the length of the profile that can be very easily changed during the course of the work.

PACKING OR HANDLING SYSTEMS: The High Flexibility Project also makes the final production process (packing or handling) customizable. There are solutions available that are aimed at achieving automatic versioning in order to be able to reduce, and completely eliminate, manual intervention during the packaging phase, automatically processing the various types of products. The packaging solutions are highly customized and are designed each time based on the specific application, seeking the proper balance between production needs and technical possibilities (with a proper price/performance ratio). The High Flexibility Project today becomes the design standard for Tecnopromec, which will market increasingly more dynamic and highly technological production lines. ■