



# Presses for leg forming to support silos

Specialized in the equipment dedicated to production of storage silos, Imcar relies on a vertical technology for the erection of large and medium tanks

By Editorial Staff

**I**mcar plants are characterized by very high construction standards and certified quality, which make them suitable to satisfy the needs of various industrial sectors, including food. The installations are divided into several workstations. The first workstation consists in the bending, cutting, welding and cleaning of vertical welding surface to obtain the finished shell with the intervention of only one or maximum two operators. The second station allows the alignment of the shells one on top of the other without the use of rings. After manual spot welding, the automatic circular welding is carried out with internal copper and gas for simpler data setting and to ensure better penetration. Other operations include the compression of the circular welding, to reduce the thickness of the material and keep a flat surface, and the cleaning of the internal and external welds. The plants for the production of storage silos allow considerable savings in terms of time and space. For the production of tanks, the possibility of performing polishing operations at low costs, the possibility of working with special steels and thickness up to 25 mm, eliminating the so-called “barrel effect”, automatic forming and welding of the cooling circuit along the tank surface, ease of handling. This innovation allows to process tanks with diameters from 1,5 to 20 m, expandable to 30 m; to manufacture tanks without contamination; to reduce costs for polishing operation; to avoid the plastic cover for protection as it



The Imcar press allows to realize the supports for the tanks in four phases, reducing production times and number of welds.

is no more necessary; to connect shells of different thicknesses; to replace coils easily and quickly; to move the Installation easily, as it is constituted by stations which let customers produce in multiple locations; to produce tanks in field thanks to materials and protective devices designed for outdoor use. End users can move the working stations from one site to another one, saving costs, reducing production cycle time and necessity of skilled personnel, besides they have no more to deliver tanks with consequent limits of transport rules and costs, but they can produce on site the tanks of whatever dimensions.

By working vertically, Imcar avoids the risks associated with the safety of traditional horizontal production. A turnkey solution dedicated to achieve the highest quality of manufacturing,



Hydraulic press. The electronic parallelism and the polyurethane covering with stainless steel devices prevent damage to the sheet during the forming process.

offering customers methods aiming at best efficiency and effectiveness.

## Forming machine for conical legs

Finally, several accessories are available for the construction of complete tanks, such as shearing and flanging machines, manipulators for the cleaning of the bottom, the press machine to form legs and the line for the forming/welding of the half pipe on the body of the tank for cooling. For the production of support legs for tanks, Imcar has developed a Special Forming Machine for conical legs, to complete the turn-key solutions offered, letting customers produce whole tanks. This machine allows to manufacture these supports in only four steps, reducing not only the production time, but also the number of necessary welding, actually just one welding is enough through this procedure, which increases the quality of final product too. This machine is completely hydraulic, the parallelism is electronic and the special cover in polyurethane with the stainless steel devices prevent any metal sheet damage during the forming process and any contamination of the material. Bending capacity is from 1 to 3 mm thickness in stainless steel. ▶