



Lejdar water springs where history meets modernity

Near the village of Tousnina, not far from the city of Tiaret in Algeria, flows the **spring water** of Lejdar bottled by the company **Tousnina Sarl**. The name "Lejdar" derives from the archaeological site of the same name located in the area of the spring, where you can visit important Berber mausoleums from the Roman era.

For the bottling and packaging in **PET bottles** of the natural spring water under the Lejdar brand Tousnina Sarl turned to the experience of SMI, which supplied a **complete turnkey line of 20,000 bottles/hour** and supported the customer during design, construction and installation of the plant.





All the machines installed in the new line are part of the **ERGON range**, which uses the most innovative technologies in the field of Industry 4.0 solutions. The new installations respond completely to the growth expectations of this Algerian company, which has invested exclusively in latest generation systems to increase its production capacity.

The solution installed consists of an **ECOBLOC®** **ERGON** series' integrated system for stretch-blow moulding, filling and capping of PET bottles along with an **SK** **ERGON** series' shrink wrapper for the secondary packaging, a HA 80 handle applicator, a PACKSORTER pack divider-sorter and an **APS** **ERGON** series' palletizer. The whole plant is equipped with an automation and control system of the latest generation incorporating the best technologies for the management of a "smart factory."



The advantages of SMI solutions

- **compact layout:** the **ECOBLOC® ERGON 10-40-10 EV** integrated system combines in a single unit the operations of stretch-blow moulding, filling and capping of PET containers and doesn't need conveyors in-between the machines;
- **low energy consumption:** the stretch-blow moulding module is equipped with high efficiency IR lamps and with a double-stage air recovering system called **Air Master**;
- **easy and quick format changeover:** the **SK** automatic shrink wrapper allows to pack multiple containers in film only collations and ensures quick format changeovers in order to satisfy the Algerian company's current and future needs;
- **motors are connected directly to the drive shafts**, with the advantage of reducing maintenance, energy waste and noise;
- **automatic film-splicing device with heated blade system:** it joins the edge of the reel which is about to finish with the beginning of the stand-by reel while the machine is running, with no need to stop production, with the advantage of reducing energy costs and maintenance; it also allows more sealing

precision when joining the two edges of printed film reels;

- **pack divider-sorter system:** it gets packs in single lane from an SK800 F shrink wrapper and lanes them onto two rows towards an APS palletizer;
- **flexible palletization and low maintenance costs:** the [APS ERGON](#) palletizer is a single-column system with two Cartesian axes and SCARA technology. It is extremely flexible and easily suited to the logistic conditions of the end-of-line area; the mechanical simplicity of the machine and the use of robotic components ensure precise operations and low energy consumptions;
- **fluidity, speed and reliability:** the conveyour belts system allows the fluid and continuous handling of loose and packed containers; furthermore, short format changeover times ensure the fast switch from a production pattern to another, while the machine's structure and components in AISI 304 stainless steel are synonymous with a reliable and long-lasting plant.



If you need further information on [Tousnina Sarl](#) and the benefits offered by SMI complete lines you can read the last issue of our [SMI NOW magazine](#) or get in contact with our Sales Department.

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