

Background

Italy is the only country in the European Union that centralises the printing of all security documents, such as driving licences or vehicle registration plates, in state hands. Production is carried out by the Istituto Poligrafico e Zecca Sarl (IPZS), headquartered in Rome and belonging to the Ministry of Economy and Finance. In 2017, IPZS decided to build a new license plate factory in Verrés to greatly modernise the manufacturing process, make operations smoother, and ensure a steady supply of license plates.



Country	Italy
Scope	approx. 6 million license plates p.a.
Launch	2017



Solution

In cooperation with strategic partners, TÖNNJES developed a fully automatic production line consisting of three linked working modules. In the first step, the plant produces its own blanks with an Italian seal and DMC code. These are then given their alphanumeric by the in-house IDeROBOT embossing robots and then transported via individually designed transport systems to the other stations that complete the production process from dyeing to packaging. The control software guarantees an error-free production process. Temporary failures in the system are intercepted by the program. The plant manager can obtain real-time information on the current status of production.

Result

The new factory near Turin is unique in its structure. The specially developed production modules and the use of vehicle number plate technologies from TÖNNJES guarantee an annual production volume of up to six million number plates. The IPZS factory also represents the digital transformation towards Industry 4.0 - it interlinks man, machine and software. The integrated safety mechanisms of the IDeROBOTS and the software reduce errors or manipulation to a minimum and ensure comprehensive traceability of all production steps.

"A high-tech plant has been created in Verrés. All components used there come from our portfolio of machines for the production of license plates. This job is the first time they've all been digitally connected."

Holger Lang, Managing Director TÖNNJES