

An automotive giant

- **The largest robot in the history of SEAT S.A. joins the more than 2,200 others that work together to build the company's latest models**
- **It stands more than two and a half metres tall and is responsible for assembling the heaviest parts of the vehicles with millimetric precision**
- **There are two units in the plant, each with a payload capacity of up to 400 kilos and software that enables predictive maintenance to be carried out**

Martorell, 25/08/2021. More than two and a half metres tall and weighing three tonnes. This is how the new giant at the Martorell plant measures up. The largest robot in the history of the factory joins the more than 2,200 others that collaborate in the assembly of the company's latest models. Below are the figures behind this technological giant in the automotive industry.

3,000 kilos of precision. Many of the parts that make up the car "puzzle" weigh hundreds of kilos on their own. When it comes time to assemble them, the weight multiplies. **"In order to transport and assemble the car's bulkiest parts and to ensure that its structure doesn't suffer in the slightest, we had to use a larger robot"** says Miguel Pozanco, Head of Robotics at SEAT S.A.. Standing almost three metres tall, this robot is capable of assembling three of the heaviest parts of the vehicles, those that make up the side of the car, weighing almost 400 kilos.

Two among 2,200. Martorell already has two of these giant robots. They work side by side in the body shop together with another 2,200 robots in the facilities as a whole, coordinating with 1,700 workers to manufacture one complete car body every 68 seconds. Their incorporation simplifies part of the vehicle assembly process and reduces the footprint of the manufacturing line. **"These robots assemble key sections of the vehicle, such as the sides. As they can lift more weight, they carry out two operations at the same time, increasing the quality of the parts"** according to Pozanco.

Two and a half metres with a 400 kilo payload. SEAT S.A. has other robots capable of carrying up to 700 kilos, but in this case, they needed to go a step further, exactly four more metres. **"There's a relationship between the weight the robot can carry and its reach. In other words, holding a bucket of water with your arm next to your body isn't the same as holding it with your arm outstretched. This giant can carry 400 kilos at almost four metres from its central axis"** explains the Head of Robotics at SEAT S.A.. This is a great novelty, as the same robot can join the three side parts and transfer them to the welding area without any other robot having to handle them again. This has been achieved thanks to the incorporation of a linear axis that enables it to move up to four metres.

Industry 4.0. The robots are equipped with software that enables remote monitoring of all their operating data, such as motor consumption, temperature, torque and acceleration. **"By analysing this data, we can anticipate any unforeseen events. In other words, predictive maintenance is carried out, which ensures quality and precision on an ongoing basis"** concludes Miguel Pozanco.



SEAT S.A.

SEAT S.A. is the only company that designs, develops, manufactures and markets cars in Spain. A member of the Volkswagen Group, the multinational has its headquarters in Martorell (Barcelona), sells vehicles under the CUPRA and SEAT brands, while SEAT MÓ is the business unit that covers urban mobility products and solutions.

SEAT S.A. exports more than 80% of its vehicles and is present in 75 countries. The company employs over 15,000 professionals and has three production centres – Barcelona, El Prat de Llobregat and Martorell, where it manufactures the SEAT Ibiza, SEAT Arona, Leon family and the CUPRA Formentor. Additionally, SEAT S.A. produces the Ateca in the Czech Republic, the SEAT Tarraco in Germany and the SEAT Alhambra in Portugal. The company also has the SEAT:CODE software development centre, located in Barcelona.

SEAT S.A. will invest 5 billion euros through to 2025 to develop new models for the two commercial brands, SEAT and CUPRA, and to electrify the range. The company aims to play a relevant role in the electrification of urban electric vehicles, with a special focus on the transformation of the Spanish automotive industry.

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