

Eisenmann Robotics successfully enters market with the new hybrid gripper for gentle wheel handling

The recently established Eisenmann Robotics division develops intelligent robotic solutions to enhance automation in modern production facilities. The system manufacturer has successfully entered the market with the development of a new hybrid gripper module for the precise and gentle handling of wheels. The Eisenmann Robotics team is also working on solutions for the intelligent integration of robots and application technology for other paint shop processes, such as high-quality seam and cavity sealing.

Smart and smooth handling with a flexible hybrid gripper

When developing the new gripper system, Eisenmann Robotics drew on its in-depth expertise and experience from over 200 installations worldwide. Using the new Eisenmann hybrid gripper system therefore offers a flexible, energy-efficient solution for increasing and securing the long-term efficiency of its customers' production.

Modular design and flexible drive technology

The new gripper modules are designed for gently handling all common wheel sizes in the passenger and commercial vehicle industries. They feature low-maintenance linear guides. The new drive technology can be pneumatically or electrically controlled and flange-mounted as a servo drive. Conversion is possible at any time according to individual capacity and production output. The completely enclosed housing, which integrates all moving parts, ensures a high level of process reliability in the powder coating sector. Due to its low weight, it is compatible with standard robot models from leading manufacturers.

Customized design for individual applications

Standard modules can be combined to create single- to five-finger grippers. The components that come into contact with the wheel are easily interchangeable and selected according to the application.

Sophisticated control technology enables the modules to approach smoothly, ensuring gentle treatment of wheel surfaces and reducing material consumption. The hybrid gripper also impresses with its high pre-positioning accuracy of up to 1 mm. "Our goal is to increase the degree of automation in production consistently with the help of intelligent, AI-supported robotics concepts, thus ensuring sustainable efficiency in our customers' production processes. As a German company, we see this as a joint opportunity to strengthen our internationally recognized market positions and preserve important jobs in Europe," said Jörg Robbin, Head of Research & Development.

Comprehensive solutions for sustainable paint shops

Eisenmann offers its customers a globally available service, short delivery times, and support from its own robot programmers. As a traditional plant manufacturer, Eisenmann develops innovative engineering solutions for economically and ecologically sustainable paint shops in the automotive, metal, wheel, and commercial vehicle industry. Its product portfolio offers technologies and system concepts for a wide range of processes from pre-treatment to final assembly.

For further information: www.eisenmann.com/en/solutions/products/robotics

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