



Case study

kassow robots

strong · fast · simple

AGV and 7-axis cobot for restocking cabling machines in the textile industry, for example

Saurer Technologies GmbH & Co. KG has collaborated with project Automation & Consulting GmbH and project Service & Produktion GmbH, to develop and construct an automated guided vehicle (AGV), equipped with a magazine and control system. This solution uses a KR1018 cobot from Kassow Robots, which is mounted on a linear axis, making it extremely mobile. This allows the cobot to restock cabling machines at different heights. In addition to reducing the workload of personnel and personnel costs, implementing this automated system allows for seamless bobbin changes.

End client: Client of Saurer Technologies GmbH & Co. KG

Industry: Textiles

7-axis cobot: KR1018 installed on an AGV

Our partners:

project Automation & Consulting GmbH

project Service & Produktion GmbH

in collaboration with
Saurer Technologies GmbH & Co. KG

KR1018 in tandem with AGV: Restocking cabling machines with bobbins

- 1 The vehicle receives its next task from the control system, to restock the cabling machine with new bobbins. The empty tubes have been previously removed by the operator.
- 2 The vehicle then moves to a buggy in which the bobbins are provided. Alternatively, the bobbins can also be placed on a pallet, a trolley, etc.
- 3 Once the exact position has been determined with the aid of a camera system, the cobot picks up the provided bobbins.
- 4 The bobbins are deposited into a magazine mounted on the AGV.
- 5 The AGV then moves with the bobbins to the machine.
- 6 At the machine, the cobot removes the bobbins from the magazine and places them into the cabling machine.
- 7 The camera installed on the cobot is also used to more precisely determine the position of the depositing site.



3 questions for Ingo Rathmann, Managing Director of project Automation & Consulting GmbH

Mr Rathmann, why was the 7-axis cobot used here?

Together with Saurer Technologies, we at *project* were looking for a solution that allowed for a high level of manoeuvrability within the smallest possible space while still being user-friendly. A cobot from Kassow Robots is easy to operate and stands out from other solutions with its 7 axes, which even allow for an elbow-like movement. What's more, the KR1018 can lift up to 18 kg.

How does this solution benefit industrial end clients?

Up until this point, the heavy bobbins were changed over manually – this is now the cobot's task. In addition to avoiding reliance on the

availability of personnel, the solution offers quality benefits, as it becomes possible to trace the material, mixing up of materials is prevented, and bobbin quality is maximised thanks to the gentle handling of the bobbins.

How was the project implemented?

It was down to teamwork, not just of our engineering team and Saurer Technologies but of my colleagues at project Service & Produktion GmbH as well. They were responsible for constructing the machines. Our cooperation with the industry end client was also pivotal in successfully implementing this solution.

www.kassowrobots.com

With "strong, fast, simple" as the underlying principle, the 7-axis cobots made by Kassow Robots in Kastrup, Copenhagen are unique in their efficiency thanks to their strength, speed, reach, and load capacity. Including easy operation and programming.

Product portfolio KR810 (reach 0.85m/load capacity 10kg), KR1018 (1.00m/18kg), KR1205 (1.20m/5kg), KR1410 (1.40m/10kg), KR1805 (1.80m/5kg).

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