

Press release

Magazino presents new robot for fashion logistics

Preliminary report for the international logistics trade fair LogiMAT 2018

24th January 2018 The robotics startup Magazino presents the newly developed robot SOTO for the first time at the trade fair LogiMAT 2018. The fully autonomous robot uses 3D camera technology to grasp objects such as cardboard boxes from a conveyor belt, stores them on the vehicle, navigates to the destination and places the boxes precisely in shelving racks. This makes SOTO the world's first perception driven robot that combines this spectrum of capabilities in a single solution. The use of these intelligent robots is primarily in distribution centers of fashion logistics. Another field of application is the supply of small load carriers in production logistics. SOTO can be visited at the booth of Magazino in hall 5, booth D55.

The most important customer benefits are: Manual work processes that were previously too complex can now be automated for the first time in a flexible and scalable way. This results in extended operating times, a smoothing of order peaks and a reduction of operating and process costs. Above all, SOTO makes it possible for employees to be relieved of ergonomically unfavorable tasks. Especially when it comes to the lowest or highest shelf level, the picking and placing of 15 kg boxes full of textiles is an exhausting task in the long run.

Objects up to a size of 600 x 400 x 400 millimeters can be handled by SOTO with its adaptive gripper. Depending on the size, up to eight boxes can be stored temporarily in an integrated shelf. The lifting mechanism allows to pick up and put down objects to both directions in reach heights from 5 cm to 246 cm above ground. Certified safety laser scanners not only enable an completely autonomous navigation, but also ensure safe operations parallel to employees. Connected by a cloud system, SOTO shares information with other robots about current changes in the warehouse environment, unknown objects or experiences with challenging situations. This allows them to learn from each other and thus improve their performance continuously.

Besides the new SOTO robot, Magazino will be exhibiting further new products: a new, completely revised version of the TORU picking robot will be shown. This improved version is characterized by a higher driving speed, less weight, a larger capacity of onboard storage and a greater reach of the gripper arm. Since the gripper can now operate up to a height of 245 cm above ground, the robot is able to operate a complete additional shelf level in typical warehouses. Furthermore, the computer vision KADO will be presented to the public for the first time on a demonstrator. KADO enables Pick & Place robots in bin picking applications to identify grasping points on objects. In contrast to many other solutions on the market, the self-learning system KADO is able to do this also with completely unknown objects.

Magazino GmbH, headquartered in Munich, Germany, was founded in 2014 by Frederik Brantner, Lukas Zanger and Nikolas Engelhard. The startup develops and builds perception driven, mobile robots for intralogistics. With over 80 employees Magazino has one of the biggest teams in Europe working on perception driven robotics. Magazino has already developed the mobile picking robot TORU, which runs at several customer sites in live operation. The new robot SOTO works similar to TORU, but is designed for much larger and heavier objects. For further information and pictures visit: www.magazino.eu

(3.570 characters with spaces)

Location at the LogiMAT 2018: Hall 5, Booth D55

Magazino Website: <https://www.magazino.eu/?lang=en>

Video – SOTO in fashion logistics: https://youtu.be/xosH4TFB9_E

Video – SOTO in production logistics: <https://youtu.be/cly9XPi9cJU>

Video – TORU in e-commerce: <https://youtu.be/kj8NaHAoLjw>

Images: https://www.magazino.eu/news/#/latest_media (click on “Herunterladen”)

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