

## 3D Vision Enables Automated Picking in Logistics Automation

How a 'pre-series' 3D vision product became a core component of an award-winning intralogistics solution, the TGW Pick Center 'Revolution'



*"In the field of robotics and fully automated picking solutions, Roboception complements our portfolio with powerful sensor components. Particularly when looking at the constructive, efficient collaboration of our teams, we look forward to a further successful cooperation."*

Markus Winkler  
Head of Advanced Technology at TGW Logistics Group

In distribution and fulfillment, one of the major challenges for automated picking processes is the constant flow of varying items. In addition, they typically need to be handled under demanding time constraints. The TGW Pick Center 'Revolution' relies on the rc\_visard 3D vision sensor – and has become an award-winning benchmark in (intra)logistics automation.

### **The Project: No Less Than a Game-Changer**

TGW was tasked to develop a system for automated picking for the distribution business. Key challenges were the required speed of such a system, and also the huge quantity and diversity of the products to be detected and handled. The wide variety of different product shapes and packaging types made finding the right vision solution a key success factor.

From the very beginning, the team worked with two rc\_visard 160 in a stationary set-up as their 3D vision component. In addition to the sensors, Roboception delivered an individual software solution, specifically tailored to the perceptions tasks at hand.

### **A Remarkable Collaboration**

"The rc\_visard 160 is just the right product for us, in terms of 3D vision performance and also regarding the cost/benefit ratio. We focused on detection capabilities and data quality as well as the support and service during the development phase. All of this we got from Roboception."

Even in the early stages, when the rc\_visard was still in a 'pre-series' status and the software still under development, the TGW team could rely on the quality of the products, which has always been highly satisfactory.

Furthermore, the TGW team particularly appreciated that at all times, all components were thoroughly tested and clearly documented. This significantly simplified and propelled the development process.



## An Award-Winning Result

At the 2019 German Innovation Award, Revolution<sup>®</sup> was recognized with a gold award in the B2B category 'Logistics & Infrastructure'.

Only a few months prior, it has also been awarded the 2018 Austrian Robotics Award. Both of these awards underline the fact that this innovative solution is a true game-changer when it comes to automated picking in logistics automation – and the Roboception team is proud to be a part of it!



## Roboception GmbH

'Eyes and Brains for Your Robot': Roboception is a leading provider of intelligent robot vision platforms and systems. The Munich-based company enables robots to see and think, thus providing key elements for flexible automation solutions in Industry 4.0.

Roboception supports integrators and end users in creating innovative automation solutions for the future-oriented use of robots in production and logistics.

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