

# Use case 11: Robotized serving of automated warehouse

Problem/goal	Demonstrate the feasibility of using mobile robots in intralogistics.
Potential users	SMEs for novel safety systems and co-bot potential in assembly
NACE	63.12 Storage and warehousing
Description	The demonstration is based on a mobile robot equipped with three omni-wheels. The automated warehouse in the demonstration is a pen wending machine operated by a microcontroller. The wending machine has 3 slots for holding 3 differently coloured pens and serving 1 pen at a time. The robot recognizes the task by a label coded card shown to its camera using optical character recognition (OCR).
Hardware	Festo Robotino
Software	NI LabVIEW
Standards	Considered: IROS, ISO 10303, ISO 6983
Possible benefits	Applications with mobile robots, optical character recognition, target detection and controlled manoeuvring, path tracking without compromising safety
Partners	Budapest University of Technology and Economics (BME)
More info	



Line following of a mobile robot



Approaching the target