

LODZ UNIVERSITY OF TECHNOLOGY EDUCATION, RESEARCH, INNOVATION



SMART – the modular system of universal robotic stations integrated with internal transportation

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The modular system of universal robotic stations integrated with internal transportation

Project SMART was realized jointly by the Lodz University of Technology (leader) and Aret Company. Thanks to the modular structure, the created system can be implemented in manufacturing companies or logistics centers in its entirety or individual components can be implemented in stages to make robotization easier for SMEs. The IT management system is configured appropriately to the launched hardware modules.



SMART stationary modules

- Production cells with a special frame structure
- Possible assembly of several executive or measurement components
- Industrial robot + interchangeable modules e.g. transport modules (conveyors), measurement modules (cameras), etc.
- Operation and safety managed by a PLC
- Technology used by Aret Company

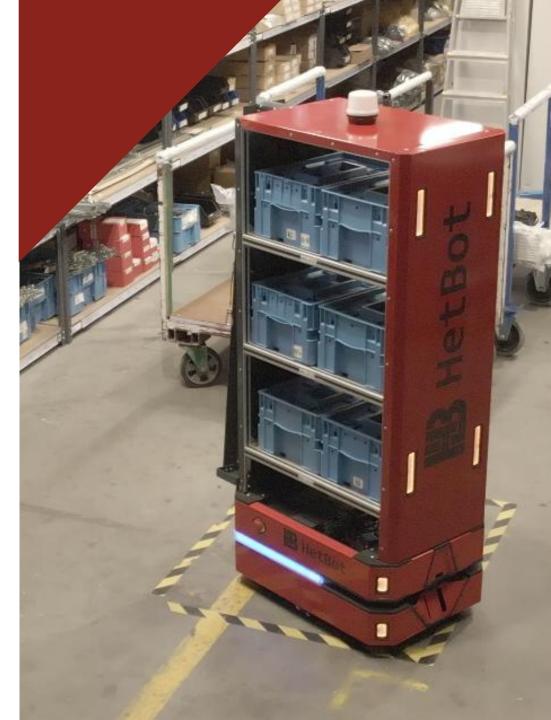




SMART autonomous mobile robot

- Lodz University of Technology has
 established the startup HETBOT
 to further improve technologies
 related to mobile robotics
- ➤ Hetbot.com







SMART autonomous

mobile robot

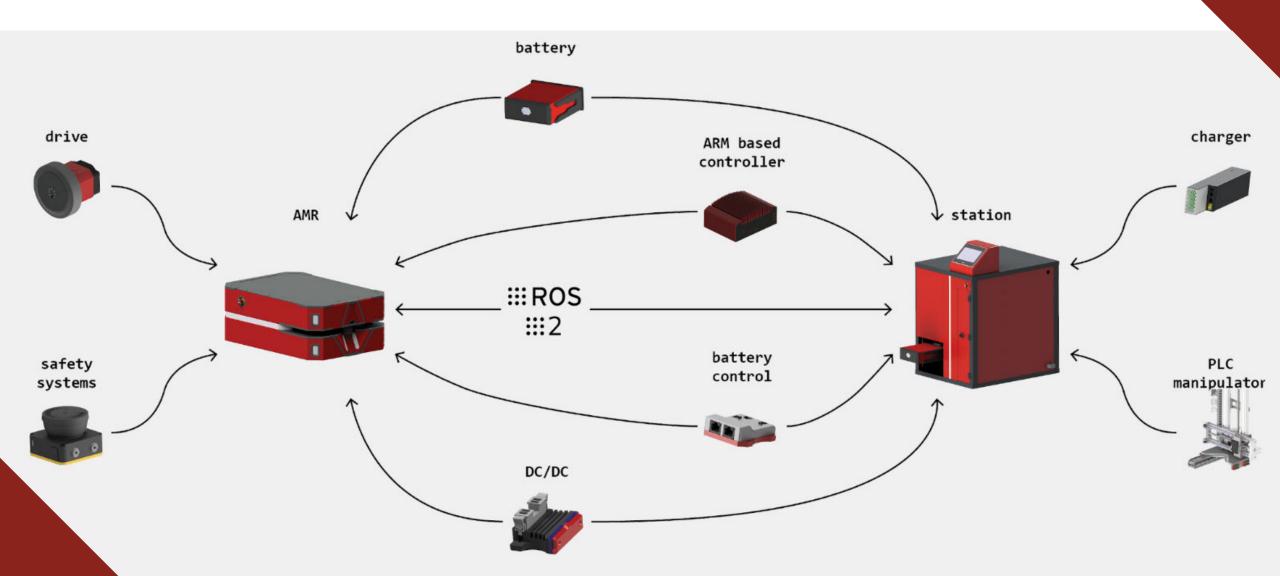


2000 cycles – battery life,

1.1 m/s – max speed,



SMART AMR ecosystem





SMART AMR applications











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