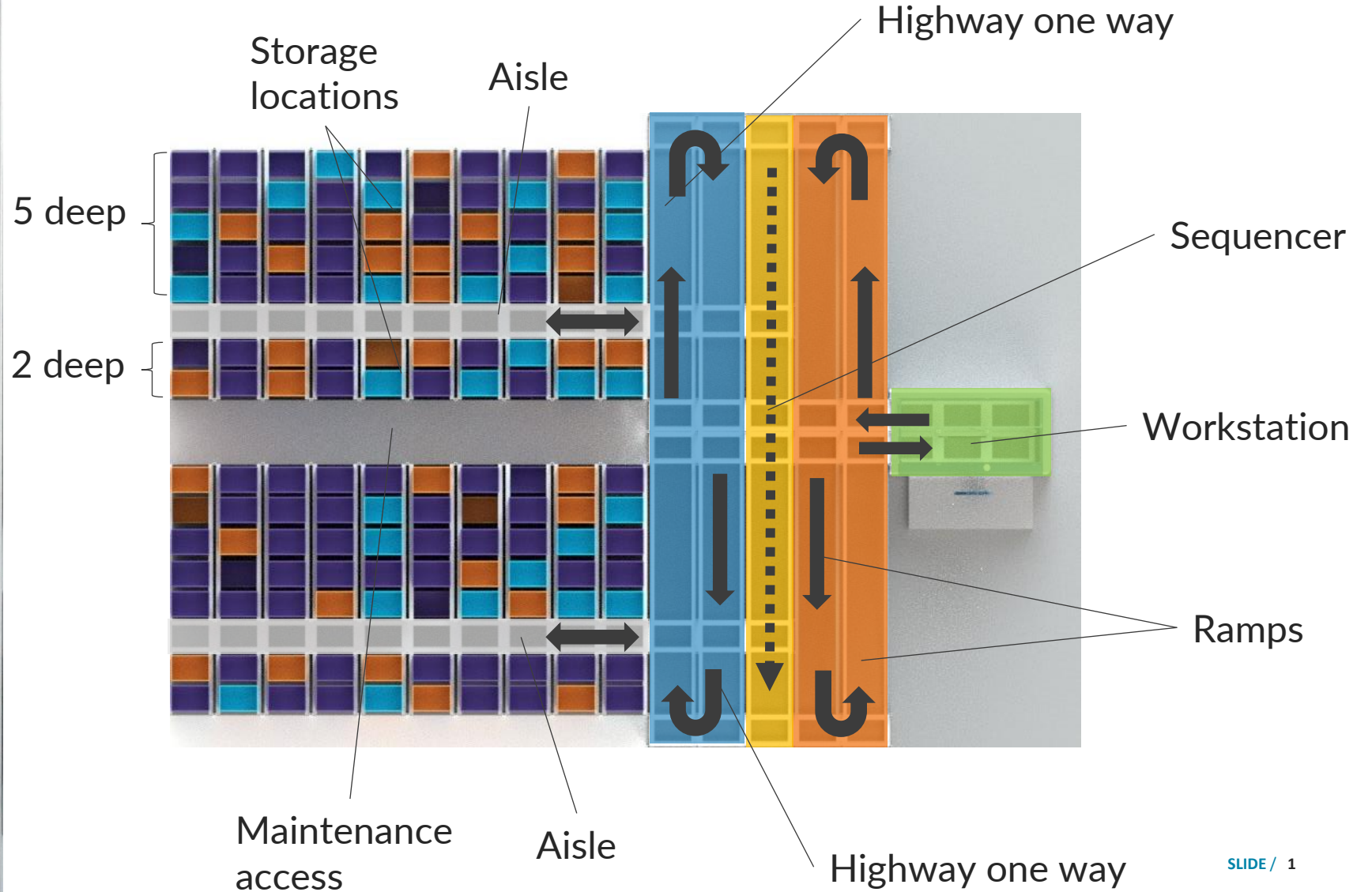




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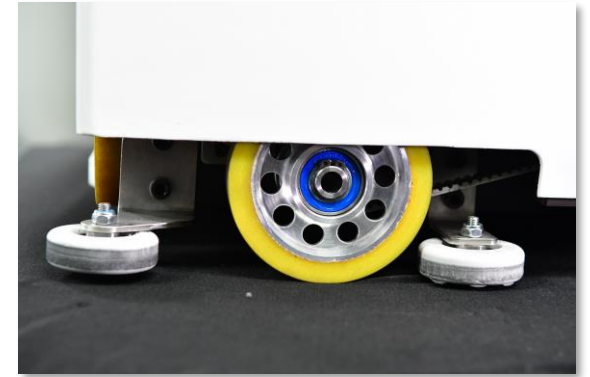
Material flow



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## Mechanical design

- drive in ramp (4WD) 1 m/s and 0.5m/s<sup>2</sup>
- drive in storage aisle direction (2WD) 3m/s and 1.5m/s<sup>2</sup>
- Guiding wheels in both directions for guiding the vehicle on the main and lane rails
- On crossings the wheel-set can be changed
- Electromechanical spindle system makes the shuttle flat beneath the tote and allows lifting the table & the wheel-set with the same motor (Pat. Pending)
- Easy access for service and maintenance by removing the cover





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## Electrical design

- Travelling motors    1 BLDC-motor integrated drive and gearbox
- Lifting motor        1 BLDC-motor integrated drive
- Charging on the fly    Supercaps Energy Pack
- PLC                    Industrial PLC with safe WIFI
- Sensors                Laser for aligning robot and detecting totes – RFID for absolute positioning (no reference drives necessary only next crossing)
- Connectivity         stow STC Stationary IPC communicates with e.scale through safe WIFI
- WCS interface        stow standard interface available
- Remote access        Remote diagnostics and software    upload
- Remote control        Safe WIFI terminal

Integrate drive  
and brake

Controller  
embedded PC

Innovative  
Lithium  
Titanate  
technology

stow standard  
interface

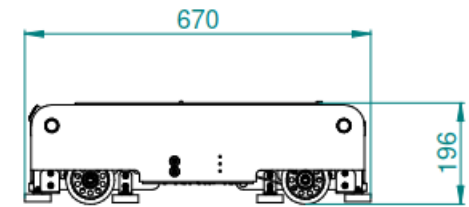
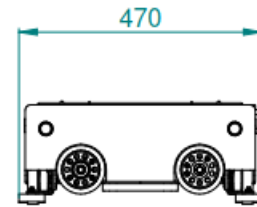
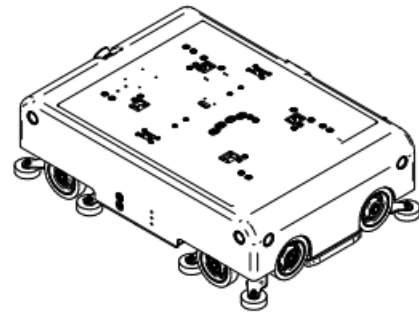
Remote  
diagnostics



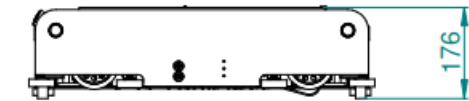
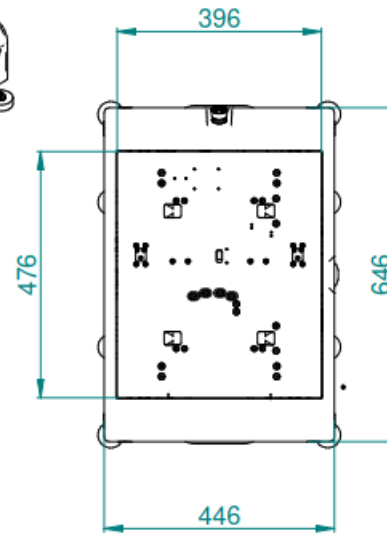


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## Dimensions



Längsfahrt



Querfahrt



Tisch oben