Autonomous cars





Robots are important!

But smart software is what truly drives efficiency across your warehouse.



Autonomous cars in Deadlock



- LIDAR
- Sensors
- Swarm
- Swarm Control
- Cameras
- 3D-vision
- Etc.

Solution or product

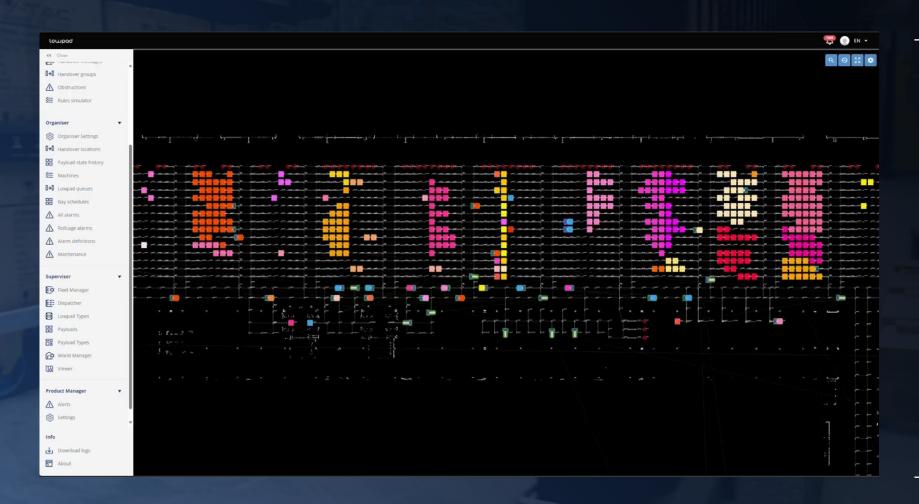


- GXO Albert HeijnThe Netherlands
- 36 Lowpads S
- Outbound
- 625 rolcontainers per hr
- 24 hr / 7 day
- High density traffic

Lowpad Fleetmanager – Deadlock Avoidance



Lowpad Fleetmanager



- Holistic management
- 91 AMRs
- Centralised intelligence
- Across processes
- Real-time decisionmaking
- Human-machine collaboration

Lowpad - Cross traffic interaction







Flexibility in the process

Lowpad Fleetmanager interaction with RTLS system

Recognises other vehicles:

- Forklifts
- Reach trucks
- Low order pick trucks
- Tugger trains
- Result:Continuous process flow

When software and hardware truly integrate, that's when you unlock flow!



Praxisfall: Home Bargains UK



Application Marshalling

Industry Retail

Lowpad 91 x Lowpad S

Handover 36 locations incl.

21 fully automated

Load carriers 16,200 roll cages/day

WMS software AS400



Lowpad Fleetmanager

- Inbound Manager
- Battery Manager
- Priority Level
- AMR Availability
- Distance
- Battery Level
- Upcoming Jobs
- Every 3m new job

- → optimal inbound flow
- → maximum uptime & battery life
- → urgent tasks handled first
- → always optimal capacity
- → shortest routes, faster throughput
- → no downtime, higher reliability
- → anticipates tasks, stable processes
- → flexible process flow, continuous flow
- Result: higher efficiency, greater throughput, lower costs

Lowpad Fleetmanager - Inbound



Lowpad Fleetmanager

Inbound automation F

Advantages

- Continuous flow
- Process transparency
- Error prevention

Lowpad Pallet detection on dock





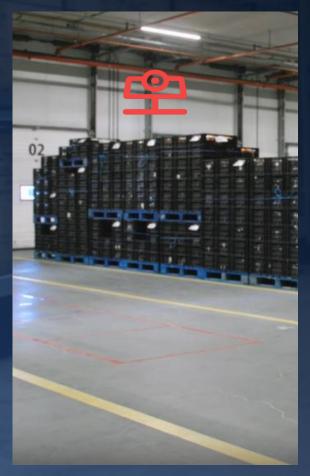
Lowpad Fleetmanager

Pallet detection

Advantages

- Automated inbound
- Higher dock rotation
- Improved safety

Double Stack detection







Lowpad Fleetmanager

- Camera on Lowpad F
- Double stack detection

Advantages

- No manual checks by employees
- Data & insights into goods flows
- Improved safety
- Higher efficiency
- Greater flexibility

Lowpad F Palletmover



Lowpad Fleetmanager

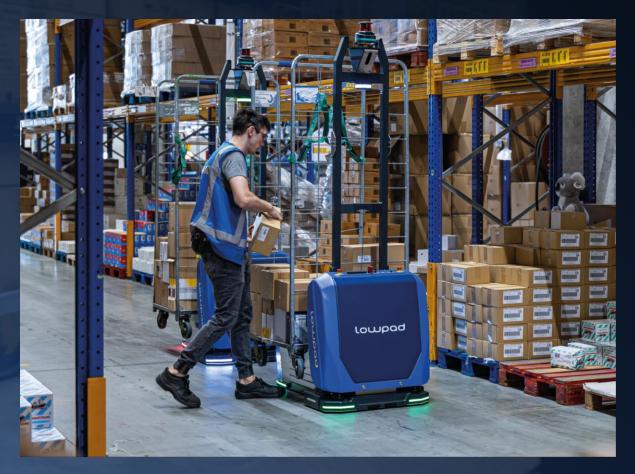
- Pallet detection
- Inbound
- Outbound

Pallets:

Euro and Closed pallets

Mix off Pallet types

Lowpad - Dynamic Zone Picking (DZP)

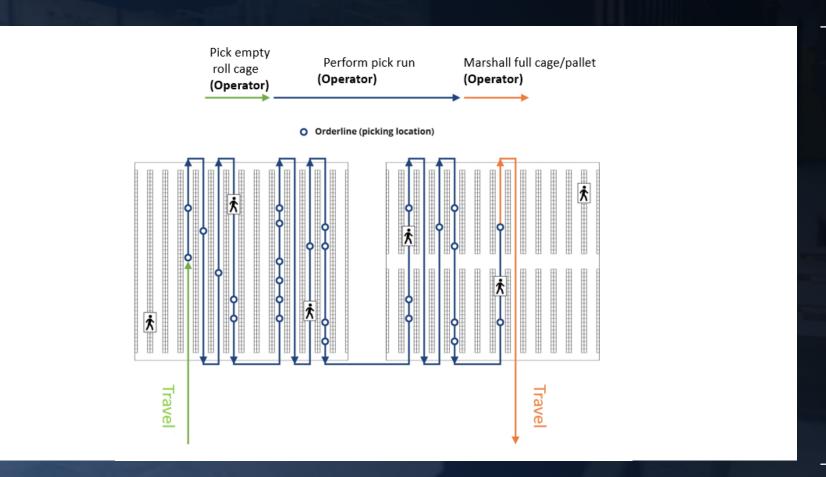




- Case Pick System
- Handling roll cages and pallets
- picking efficiency
- Brownfield integration

Lowpad Case Pick System

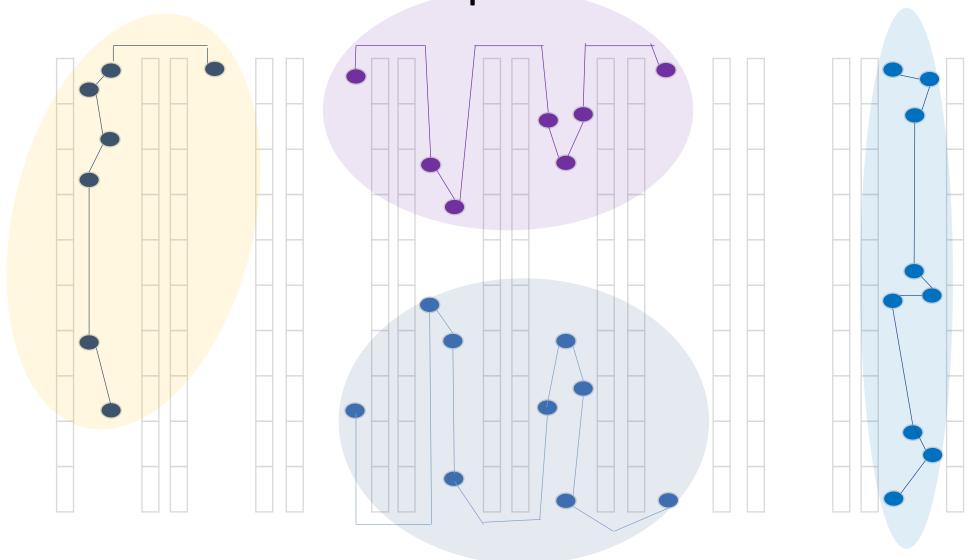
Lowpad - Dynamic Zone Picking (DZP)



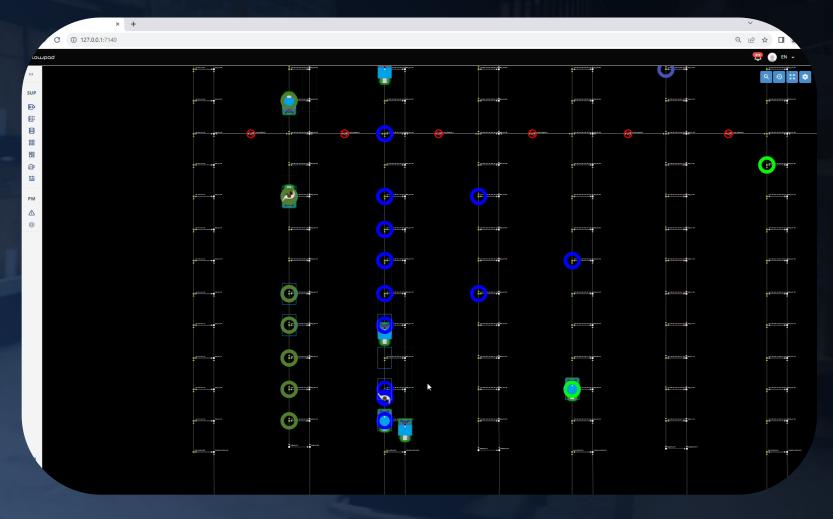
- Case Pick System
- Handling roll cages and pallets
- 40% picking efficiency
- Brownfield integration

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Concept of DZP



Lowpad Fleetmanager - Target Locking

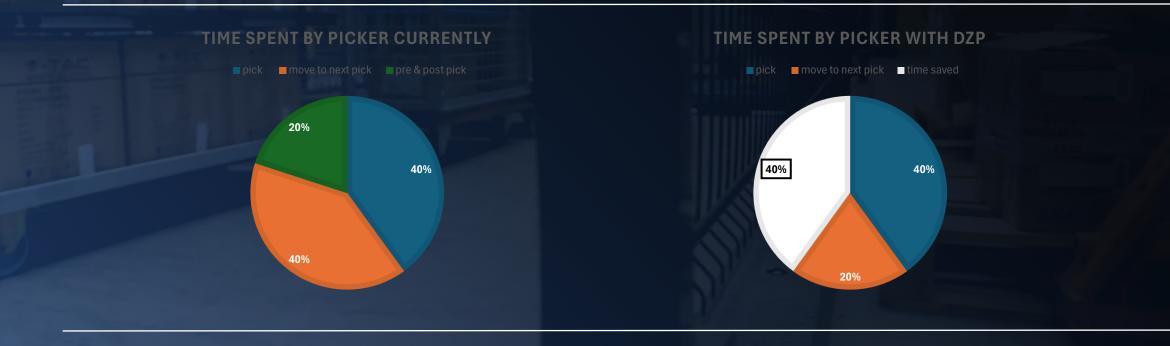


Lowpad - DZP Results 2025!

How much time does DZP solution save in case picking operations? (in %)

Lowpad - DZP Results 2025!

40% productivity Increase!



Time spent <40% = productivity increase (picks/person/hour)</p>



Process advantages of holistic control

- Maximum floor use
- compact, high-density layout
- Flexible scalability
- easy to add robots
- Reliable operation
- → less labor planning

Insights & KPIs

- continuous improvement
- Measurable efficiency → every movement adds value



Vielen Dank für Ihre Aufmerksamkeit Thank you for your attention

Questions?

Meet us at the Lowpad Booth: Hall 1 M20





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