

Robotics & Other Automation in the DC















Effect of Automation

Cost per unit shipped

Reduced labor costs
Reduced number of touches

Negative impact of manual handling

Fewer hard-to-fill jobs

Reduced turnover costs

Fewer workplace injuries

Less product damage

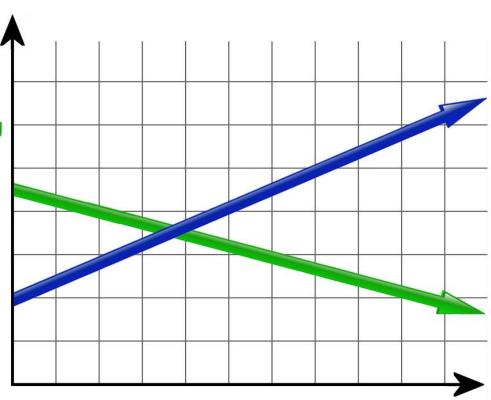
Quality

Reliability

Accuracy

Capacity & Speed

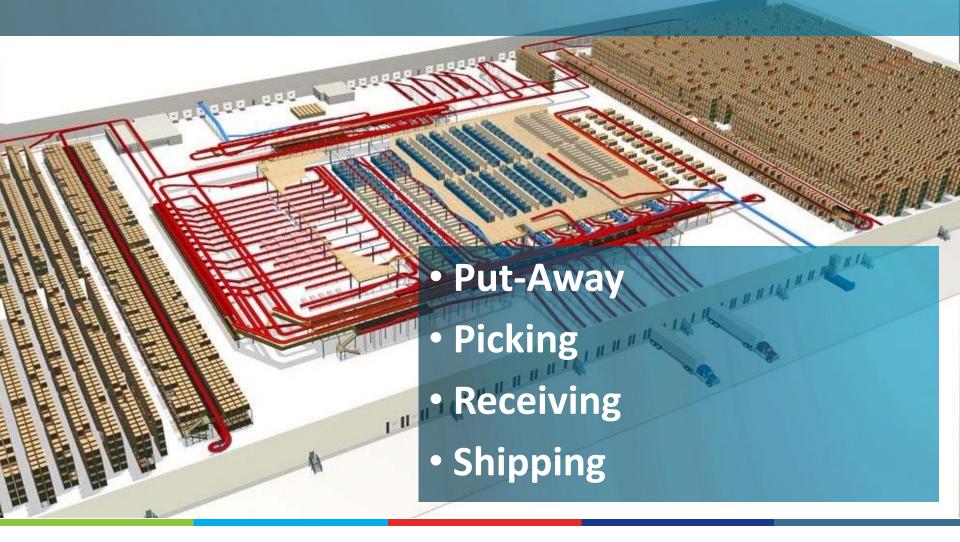
Increased throughput
Improved cycle time variability



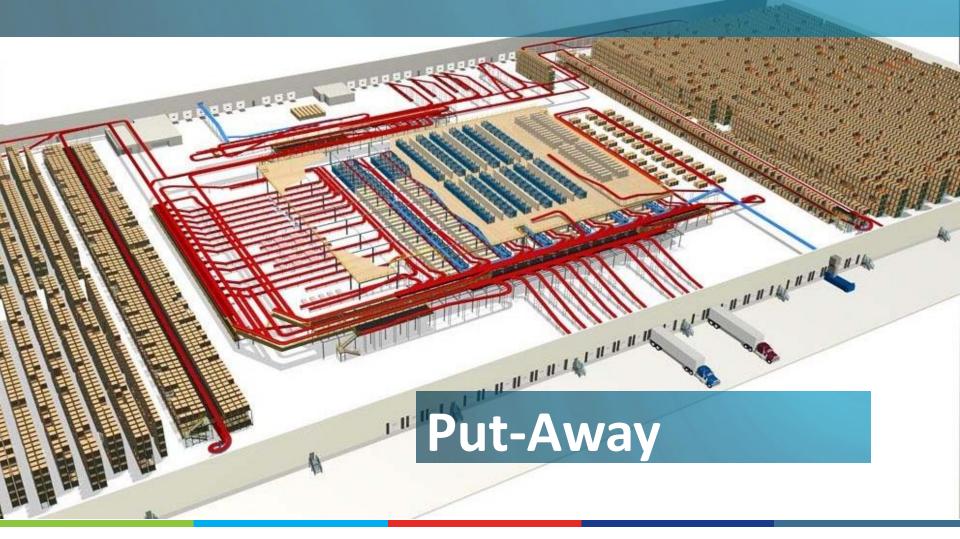
Level of Automation

Client Application











Automation Opportunities Put-Away and Picking



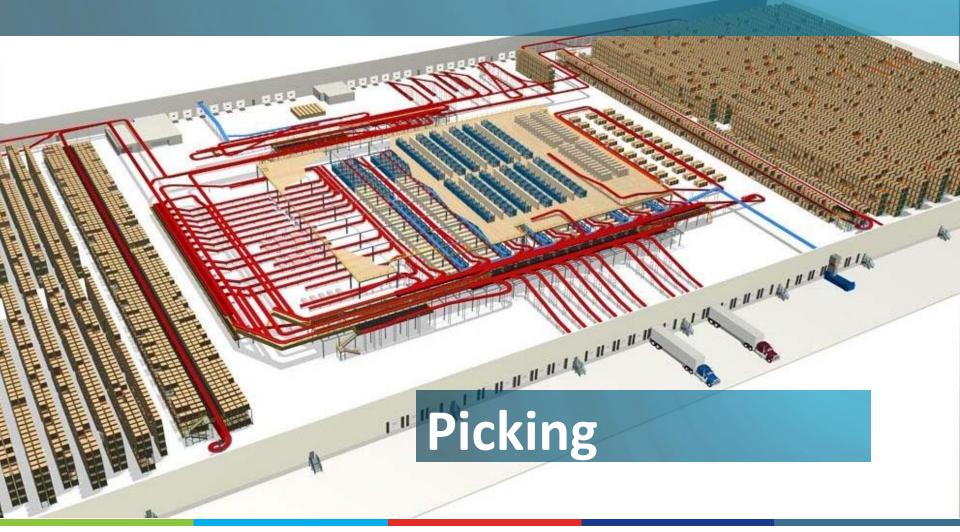


Pallet, Case & Tote Storage



Pallet Building





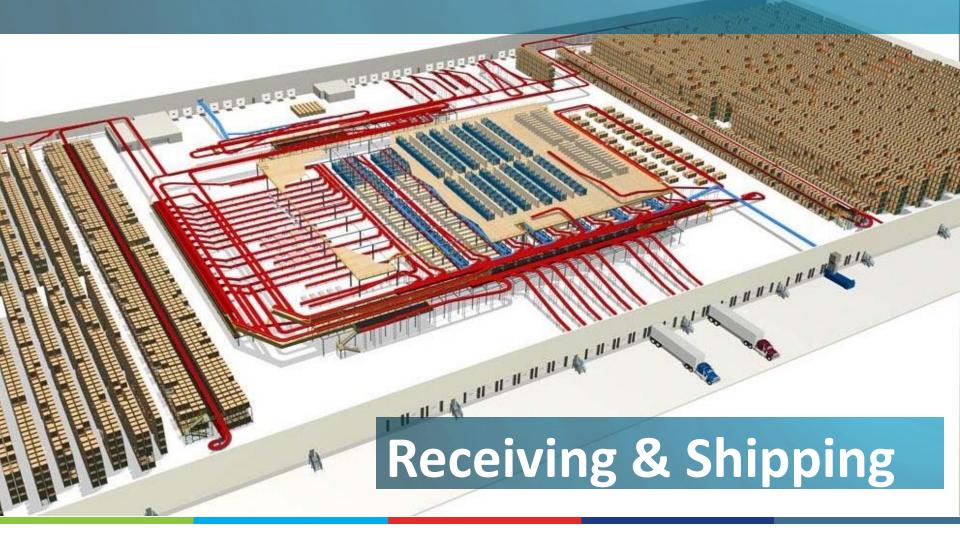


Full Case/Totes Picking



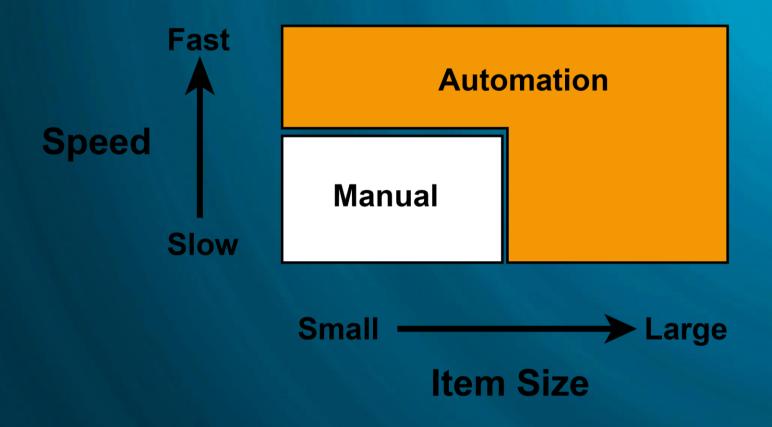
Each Picking



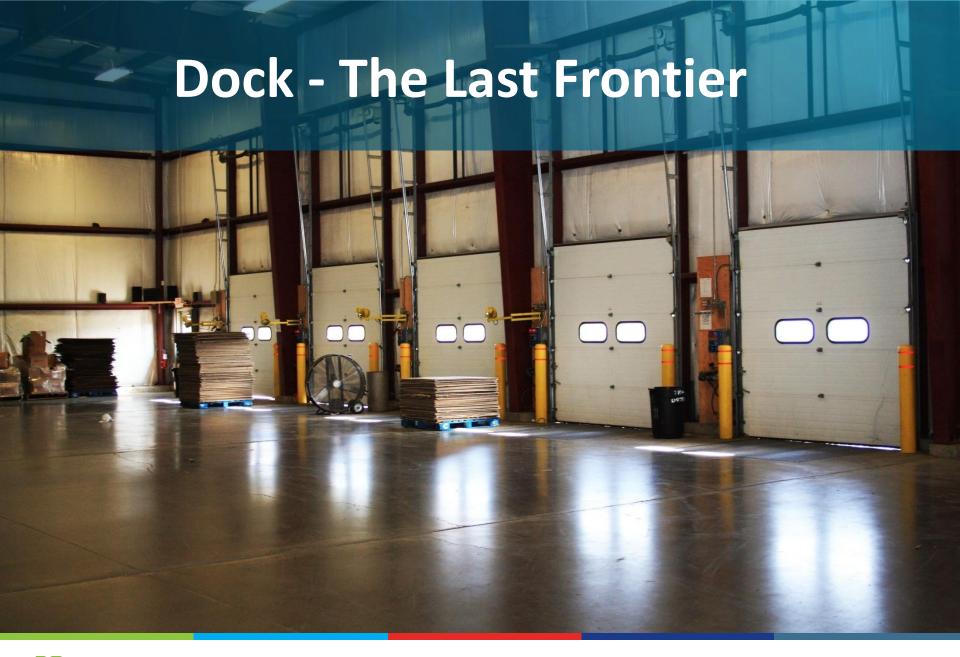




Automation Opportunities Receiving & Shipping









Semi-automatic & Automatic Truck Unloading/Loading



When Considering Automation for Unloading



Palletizing





Acknowledgements

Video courtesy of:

Axium
Caljan
Daifuku North America
Engineered Lifting Systems
Jorgensen Engineering
Kiva Systems
Knapp Logistics
OPEX
RSW
Vaculex
Wynright

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Daifuku North America MHI ralphmoyle.com

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