



**PROMAT**

**2015**

McCormick Place South | Chicago  
March 23-26, 2015  
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# *Automatic Guided Vehicle and Cart Solution Options*

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Presented by:

**Neville Croft & Chuck Russell**

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## Why an AGV System?

- Return on Investment
- Increases Safety
- Increases Productivity
- Eliminates or Reduces Product and Equipment Damage
- Eliminates Single Point Failure and Restricted Floor Space
- Flexible Manufacturing Solution Providing Real-Time Production Feedback
- Life Cycle of an AGV Solution Can Be Greater Than 15 Years



FIND WHAT'S  
NEXT.

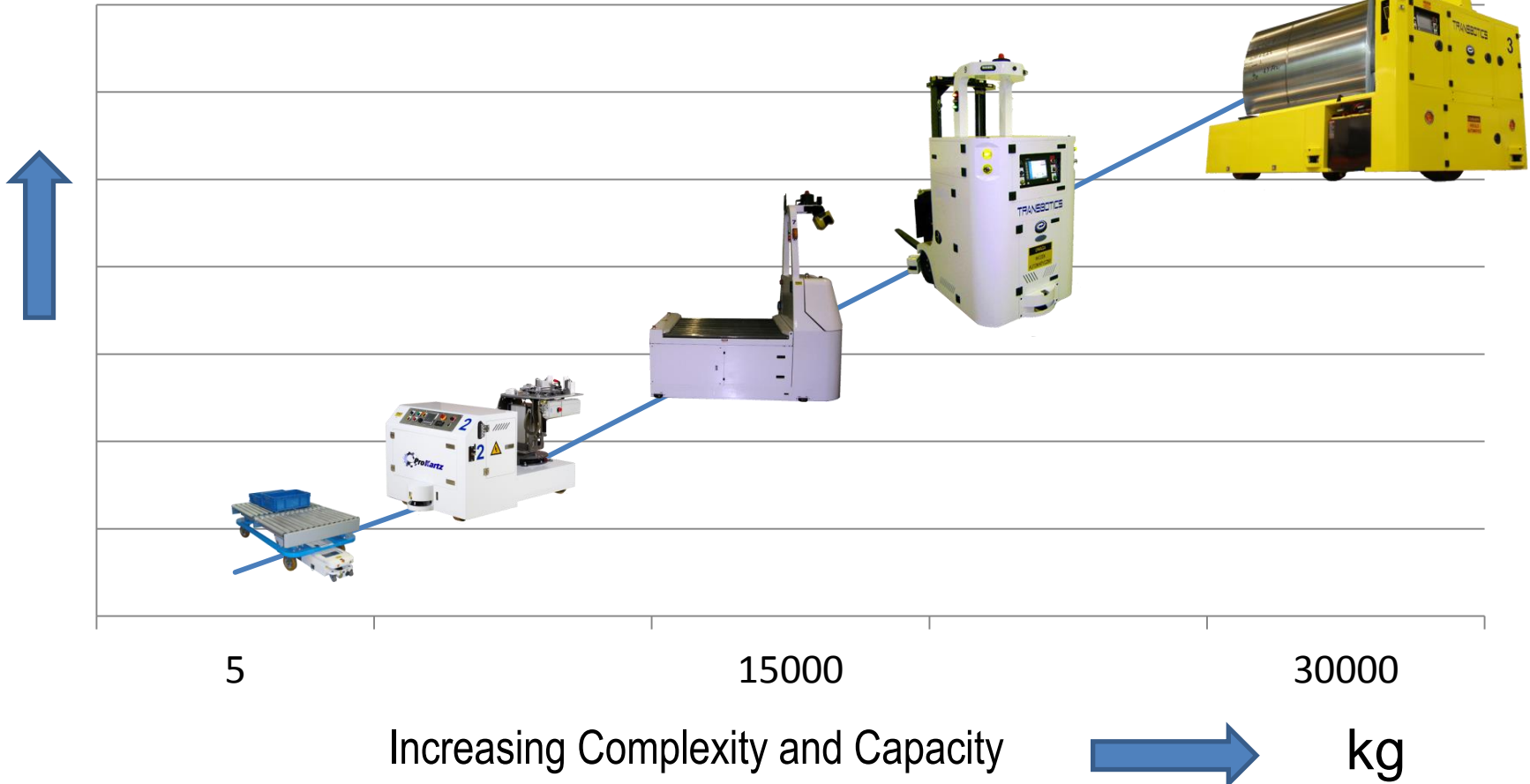


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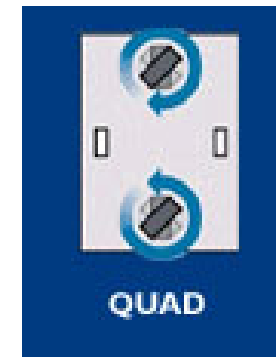
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# Capacity vs. Pricing



## Drive Configurations

- **Single Steer/Drive** - tricycle
- **Three Wheel Drive** – all steer or single steer
- **Dual Steer/Drive (Quad)** – allows crabbing
- **Four Wheel Steer/Drive** – allows crabbing
- **Differential Steer/Drive** – center pivot



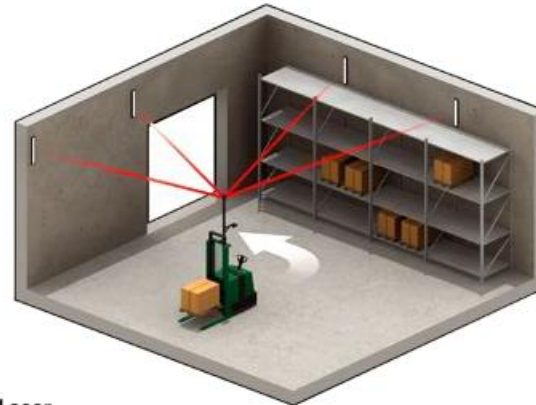
AGVs can independently drive and steer multiple wheels in **ANY** configuration. This ability allows the vehicles to move any direction without limitation on vehicle or load size.



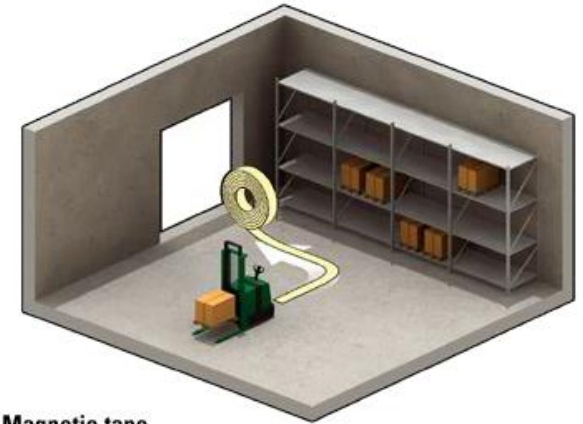
## Guidance Options

### Multiple Technologies

- Laser
- Spot
- Tape
- SLAM (Feature Following)
- Gyro
- Dual/Multiple



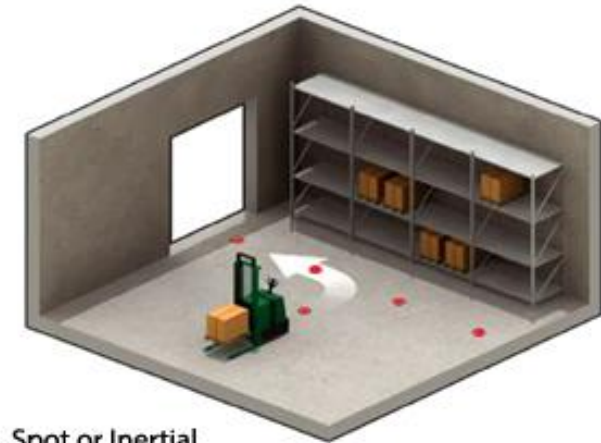
Laser



Magnetic tape



SLAM-Simultaneous Localization and Mapping



Spot or Inertial

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# AGC

- Light Loads
- Simple Operation
- Retractable Drive
- PLC Driven
- Fast Payback
- It's an AGV in a Box



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# Fork Truck





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# Roller Deck





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E V E R E P H T R S M A T E R I A  
A S S L A P U L W E S W D R A W S

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# Tuggers



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# Custom Designs

AGVs Designed Specifically For Your  
Application





## Power Options

### Multiple Technologies

- Battery – Lead Acid/NiCad/Lithium Iron
- Fuel Cells – Hydrogen/Methanol
- Motor Generators



Fuel Cell Hybrid Systems



Hydrogen Refuelling



### Multiple variants in every category





# Communication Options

## Multiple Technologies

- Wi-fi 802.11a/b/g
- 900 MHz





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# Optional Remote Devices



## Multiple Solutions, Similar Results

- Types of Vehicles, i.e. Fork, Conveyor, Tugger
- Types of Navigation
- Different Navigations within the same system with either the same vehicle or multiple vehicle types

Depending on a customer's needs/wants, there may be more than one solution that can be fulfill their requirements.



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