

# WAREHOUSE VEHICLES

## Advanced Sensing Technologies



- Lift Systems**
- Limit switch
  - Sealed basic switch
  - Proximity sensor

- Vehicle Position/Tilt**
- Hall-effect position sensor
  - Inertial measurement unit

- Brake System**
- Pressure switch
  - Pressure sensor





- Operator Controls**
- Key switch
  - Toggle switch
  - Pushbutton switch
  - Rotary position

- Engine, Fuel and Transmission**
- Thermal switch
  - Pressure sensor
  - Pressure switch
  - Speed sensor
  - Temperature probe


- Wheels and Suspension**
- Speed sensor
  - Magnetic sensor

	Non-contact position sensing	Temperature sensing	Pushbutton switches	Rotary position	Pressure switches	Toggles and rockers	Speed sensors	Thermal switches	Basic switches	Pressure sensors	Limit switches	Air quality monitors	Key switches	Magnetics	IMU
Operator controls			✓	✓		✓			✓			✓	✓		
Vehicle level	✓			✓											✓
Wheels & suspension	✓			✓			✓				✓			✓	
Engine management		✓		✓	✓		✓	✓		✓					
Braking systems		✓			✓		✓	✓		✓				✓	
Lift systems	✓			✓					✓		✓			✓	✓


## MACHINE OPERATION AND RELIABILITY

Application		Growth Factor	Primary Products	Secondary Products
Vehicle leveling		Increasing sophistication of systems to ensure safe use and loading	<ul style="list-style-type: none"> <li>• Transportation IMU</li> </ul>	<ul style="list-style-type: none"> <li>• Position sensing</li> </ul>
Engine management		Implementation of means to monitor and control engine operation and performance	<ul style="list-style-type: none"> <li>• Pressure switches</li> <li>• Pressure sensors</li> <li>• Speed sensors</li> </ul>	<ul style="list-style-type: none"> <li>• Temperature probes</li> <li>• Temperature switches</li> </ul>
Wheels and suspension		Development of improved monitoring and reliability	<ul style="list-style-type: none"> <li>• Speed sensors</li> <li>• Rotary position sensors</li> </ul>	<ul style="list-style-type: none"> <li>• AMR magnetic IC</li> </ul>
Braking systems		Preventative maintenance routines monitoring effectiveness to reduce downtime	<ul style="list-style-type: none"> <li>• Pressure sensors</li> <li>• Speed sensors</li> </ul>	<ul style="list-style-type: none"> <li>• AMR magnetic IC</li> </ul>

## FUNCTIONAL PERFORMANCE AND SAFETY

Application		Growth Factor	Primary Products	Secondary Products
Lifting systems		Increased machine monitoring to check height, load and inclination of loads	<ul style="list-style-type: none"> <li>• Magnetic IC</li> <li>• Rotary position sensors</li> <li>• Basic switches</li> <li>• Pressure sensor</li> </ul>	<ul style="list-style-type: none"> <li>• Transportation IMU</li> </ul>

## WAREHOUSE VEHICLES – OPERATOR INTERFACE

Application		Growth Factor	Primary Products	Secondary Products
Operator controls		Reliable performance even exposed to vibration, shock in wet or dusty environments	<ul style="list-style-type: none"> <li>• Toggle switches</li> </ul>	<ul style="list-style-type: none"> <li>• Pushbutton switches</li> </ul>

### WARRANTY/REMEDY

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