

# AGRICULTURAL VEHICLES

## Advanced Sensing Technologies

### Leveling and Suspension

- Inertial measurement unit
- Rotary position sensor
- Magnetic sensor
- Linear position

### Harvesting and Cutting Attachments

- Speed sensor
- Magnetic sensor
- Rotary position
- Limit switch
- Inertial measurement unit

### Hydraulic/Pneumatic System

- Pressure switch
- Pressure sensor

### Panel Controls

- Key switch
- Toggle switch
- Pushbutton switch
- Stalk controls
- Basic switch

### Engine, Fuel and Transmission

- Thermal switch
- Pressure sensor
- Pressure switch
- Speed sensor
- Temperature probe




### Cabin Environment

- Air quality
- Magnetics
- Basic switch





	Non-contact position sensing	Temperature sensing	Pushbutton switches	Rotary position	Pressure switches	Toggles and rockers	Speed sensors	Shifters and turn signals	Basic switches	Pressure sensors	Limit switches	Air quality monitors	Key switches	Magnetics	IMU
Chassis leveling	✓			✓										✓	✓
Cabin environment		✓							✓			✓		✓	
Panel controls			✓	✓		✓		✓	✓				✓		
Engine management	✓	✓		✓	✓		✓			✓				✓	
Braking systems		✓			✓		✓		✓	✓				✓	
Harvesting and cutting	✓			✓			✓		✓		✓			✓	✓
Hydraulics and pneumatics					✓					✓					


## MACHINE OPERATION AND ENVIRONMENT

Application		Growth Factor	Primary Products	Secondary Products
Cabin and chassis leveling		Allow the cabin to be maintained at a level position for the operator, even on uneven terrain	<ul style="list-style-type: none"> <li>• Transportation IMU</li> </ul>	<ul style="list-style-type: none"> <li>• Packaged magnetics</li> <li>• Linear position sensors</li> </ul>
Cabin environment		Provide a clean, safe operating environment with reliable control interface	<ul style="list-style-type: none"> <li>• Magnetic ICs</li> <li>• Basic switches</li> <li>• Air quality sensors</li> </ul>	<ul style="list-style-type: none"> <li>• Packaged magnetics</li> </ul>
Operator controls		Reliable performance, even when exposed to vibration and shock with potential of wet or dusty environments	<ul style="list-style-type: none"> <li>• Pushbutton switches</li> </ul>	<ul style="list-style-type: none"> <li>• Toggle switches</li> </ul>

## OPERATIONAL PERFORMANCE AND SAFETY

Application		Growth Factor	Primary Products	Secondary Products
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>• AMR magnetic IC</li> </ul>
Braking systems		Preventative maintenance routines to monitor effectiveness to reduce downtime	<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>

## FUNCTIONAL PERFORMANCE

Application		Growth Factor	Primary Products	Secondary Products
Harvesting and cutting		Increased machine monitoring to maintain safe operation for greater levels of automation	<ul style="list-style-type: none"> <li>• Speed sensors</li> </ul>	<ul style="list-style-type: none"> <li>• Transportation IMU</li> <li>• Rotary position sensors</li> <li>• Limit switches</li> </ul>

### WARRANTY/REMEDY

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