CONSTRUCTION VEHICLES

Advanced Sensing Technologies

Boom/Stick Tilt

- Hall-effect position sensor
- Inertial measurement unit
- Limit switch

Hydraulic/Pneumatic **System**

- Pressure switch
- Pressure sensor

Wheels and Suspension

- Speed sensor
- Magnetic sensor



Operator Controls

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

Cabin Environment

- Air quality
- Magnetics
- Basic switch

Engine, Fuel and **Transmission**

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

	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	y switches	Magnetics	D
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Operator controls			\checkmark	✓		✓		✓	\checkmark				\checkmark		
Cabin environment		\checkmark										\checkmark		\checkmark	✓
Wheels & suspension	✓			✓			✓							✓	
Engine management	✓	✓		✓	✓		✓			✓				✓	
Braking systems		\checkmark			✓		\checkmark		\checkmark	\checkmark				\checkmark	
Hydraulics/ pneumatics		✓			✓					✓					
Boom/stick position	✓			✓					✓		✓			✓	✓

MACHINE OPERATION AND RELIABILITY							
Application		Growth Factor	Primary Products	Secondary Products			
Cabin management		Provide a clean, safe operating environment with reliable control interface	Key switchesToggle switchesPushbutton switchesShiftersTemperature sensors	Magnetic ICsTurn signalsTransportation IMUAir quality sensors			
Engine management		Implementation of means to monitor and control engine operation and performance	Pressure switchesPressure sensorsSpeed sensors	Temperature probesTemperature switches			
Tracks and suspension		Development of improved monitoring and reliability	Speed sensorsRotary position sensors	AMR magnetic IC			
Braking systems		Preventative maintenance routines to monitor effectiveness to reduce downtime	Pressure sensorsSpeed sensors	AMR magnetic IC			

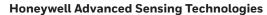
FUNCTIONAL PERFORMANCE AND SAFETY								
Application		Growth Factor	Primary Products	Secondary Products				
Boom and stick systems		Increased machine monitoring to maintain safe operation for greater levels of automation	Magnetic position sensors	Transportation IMURotary position sensorsBasic switches				

MACHINE INTERFACE								
Application		Growth Factor	Primary Products	Secondary Products				
Operator controls		Reliable performance even exposed to vibration and shock in wet or dusty environments	Toggle switches	Pushbutton switches				

WARRANTY/REMEDY

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