

CONSTRUCTION VEHICLES

Advanced Sensing Technologies

Boom/Stick Tilt

- Hall-effect position sensor

Smart Position Sensors

- 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	Key switches	Magnetics	IMU
Operator controls			✓	✓		✓		✓	✓				✓		
Cabin environment		✓										✓		✓	✓
Wheels & suspension	✓			✓			✓							✓	
Engine management	✓	✓		✓	✓		✓			✓				✓	
Braking systems		✓			✓		✓		✓	✓				✓	
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 switches - Toggle switches - Pushbutton switches - Shifters - Temperature sensors	- Magnetic ICs - Turn signals - Transportation IMU - Air quality sensors
Engine management		Implementation of means to monitor and control engine operation and performance	- Pressure switches - Pressure sensors - Speed sensors	- Temperature probes - Temperature switches
Tracks and suspension		Development of improved monitoring and reliability	- Speed sensors - Rotary position sensors	AMR magnetic IC
Braking systems		Preventative maintenance routines to monitor effectiveness to reduce downtime	- Pressure sensors - Speed 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 IMU - Rotary position sensors - Basic 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

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Honeywell Advanced Sensing Technologies

830 East Arapaho Road
 Richardson, TX 75081
sps.honeywell.com/ast

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