

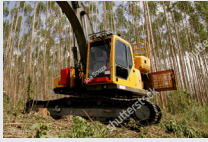
FORESTRY VEHICLES

Advanced Sensing Technologies

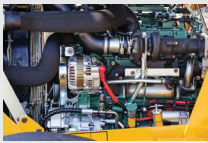


	Non-contact position sensing	Temperature sensing	Pushbutton switches	Rotary position	Pressure switches	Toggles and rockers	Speed sensors	Shifters and turn signals	Basic switches	Pressure sensors	Limit switches	Air quality monitors	Key switches	Magnetics	IMU
Chassis leveling	✓			✓										✓	✓
Cabin environment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

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	Transportation IMU	- Packaged magnetics - Linear position sensors
Cabin environment		Provide a clean, safe operating environment with reliable control interface	- Magnetic ICs - Basic switches - Air quality sensors	Packaged magnetics
Operator controls		Reliable performance, even when exposed to vibration and shock with potential of wet or dusty environments	Pushbutton switches	Toggle switches

OPERATIONAL PERFORMANCE AND SAFETY

Application		Growth Factor	Primary Products	Secondary Products
Engine management		Implementation of means to monitor and control engine operation and performance	- Pressure switches - Pressure sensors - Speed sensors	AMR magnetic IC
Boom/Stick Position		Integrate the ability to monitor and control the reach, position and sweep stroke for articulated arms or booms	- Arc sensor - IMU	- Packaged magnetics - Limit switch

FUNCTIONAL PERFORMANCE

Application		Growth Factor	Primary Products	Secondary Products
Harvesting and cutting		Increased machine monitoring to maintain safe operation for greater levels of automation	Speed sensors	- Transportation IMU - Rotary position sensors - Limit switches

WARRANTY/REMEDY

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