## Advanced Sensing Technologies

### Boom/Stick Control
- Arc sensor
- Magnetic sensor
- Limit switch
- Inertial measurement unit

### Harvesting and Cutting Attachments
- Speed sensor
- Magnetic sensor
- Rotary position
- Limit switch

### Leveling and Suspension
- Inertial measurement unit
- Rotary position sensor
- Linear position

### Hydraulic/Pneumatic System
- Pressure switch
- Pressure sensor

### Cabin Controls
- Key switch
- Toggle switch
- Pushbutton switch
- Basic switch

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

### Cabin Environment
- Air quality
- Magnetics
- Basic switch

### Chassis leveling
- Temperature sensing

### Cabin environment
- 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

<table>
<thead>
<tr>
<th>Non-contact position sensing</th>
<th>Temperature sensing</th>
<th>Pushbutton switches</th>
<th>Rotary position</th>
<th>Pressure switches</th>
<th>Toggles and rockers</th>
<th>Speed sensors</th>
<th>Shifters and turn signals</th>
<th>Basic switches</th>
<th>Pressure sensors</th>
<th>Limit switches</th>
<th>Air quality monitors</th>
<th>Key switches</th>
<th>Magnetics</th>
<th>IMU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chassis leveling</td>
<td>✓</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cabin environment</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Panel controls</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engine management</td>
<td>✓ ✓ ✓ ✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Braking systems</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Harvesting and cutting</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydraulics and pneumatics</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boom/stick control</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### MACHINE OPERATION AND ENVIRONMENT

<table>
<thead>
<tr>
<th>Application</th>
<th>Growth Factor</th>
<th>Primary Products</th>
<th>Secondary Products</th>
</tr>
</thead>
</table>
| 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 | • Packaged magnetics
| | | • Basic switches | |
| | | • Air quality sensors | |
| 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

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

### FUNCTIONAL PERFORMANCE

<table>
<thead>
<tr>
<th>Application</th>
<th>Growth Factor</th>
<th>Primary Products</th>
<th>Secondary Products</th>
</tr>
</thead>
</table>
| 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

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship during the applicable warranty period. Honeywell’s standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgment or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items that Honeywell, in its sole discretion, finds defective. The foregoing is buyer’s sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages. While Honeywell may provide application assistance personally, through our literature and the Honeywell web site, it is buyer’s sole responsibility to determine the suitability of the product in the application. Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this writing. However, Honeywell assumes no responsibility for its use.

### FOR MORE INFORMATION

Honeywell Advanced Sensing Technologies services its customers through a worldwide network of sales offices and distributors. For application assistance, current specifications, pricing or the nearest Authorized Distributor, visit our website or call:

- USA/Canada: +1 302 613 4491
- Latin America: +1 305 805 8188
- Europe: +44 1344 238258
- Japan: +81 (0) 3-6730-7152
- Singapore: +65 6355 2828
- Greater China: +86 4006396841

**Honeywell Advanced Sensing Technologies**

830 East Arapaho Road
Richardson, TX 75081

sps.honeywell.com/ast

© 2022 Honeywell International Inc.