



## MsS Guided Wave System Specifications

Equipment/Component	Specifications
<b>MsSR3030R and MsSRv5R Equipment</b>	<ul style="list-style-type: none"><li>- Frequency range: 5 to 350 kHz</li><li>- System band pass filter: 16, 32, 45, 64, 90, 128, 180, 250 kHz</li><li>- Operation modes: pulse-echo, pitch-catch</li><li>- Battery operation: 2 days (normal conditions)</li><li>- Features: Time-corrected gain (TCG) function in hardware, lightweight</li></ul>
<b>MsS Probe</b>	<ul style="list-style-type: none"><li>- Operating center frequencies: 8 to 16 kHz, 20, 32, 45, 64, 90, 128, 180, 250 kHz</li><li>- Coupling methods: Dry coupling, shear couplant, epoxy bonding</li><li>- Installation: Any pipe diameter, minimum install clearance 1-inch</li><li>- Temperature: Pipeline inspection up to 500°C surface temperature</li><li>- Dead zone length: 4-11 inches</li><li>- No near field length</li></ul>
<b>MsS GIM Software</b>	<ul style="list-style-type: none"><li>- Multi-frequency analysis: Up to 8 different center frequencies</li><li>- Features: Amplitude, velocity, attenuation calibration, threshold level setting, indication finding, reduction of false calls, ultrasonic image generation, remaining wall loss calculation</li></ul>
<b>MsS Sector Probe</b>	<ul style="list-style-type: none"><li>- Application: Sectional focusing inspection (SFI) for pipe, plate, vessel, tank wall</li><li>- Increases defect detection sensitivity: Up to 40 times (depending on pipe diameter)</li></ul>
<b>Short-Range Inspection</b>	<ul style="list-style-type: none"><li>- Dead zone length: 4 inches (128 kHz), 7 inches (64 kHz), 11 inches (32 kHz)</li><li>- Wave modes: Shear-horizontal in plate, torsional in pipe</li></ul>



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	<ul style="list-style-type: none"><li>- Spatial resolution: High, with 1 cycle for pure modes</li></ul>
<b>High Temperature</b>	<ul style="list-style-type: none"><li>- FeCo strip Curie temperature: 938°C</li><li>- Inspection capability: Up to 500°C surface temperature</li></ul>
<b>CUI and PMI Inspection</b>	<ul style="list-style-type: none"><li>- Probe width: 2 inches</li><li>- Dead zone length: 4 inches (360° continuous probe, no near field)</li><li>- High-frequency waves: 64, 90, 128, 180, 250 kHz for increased inspection range and sensitivity</li></ul>
<b>MsS Permanently Installed Monitoring Sensor (PIMS)</b>	<ul style="list-style-type: none"><li>- Ferromagnetic strip thickness: 0.004 inches</li><li>- Center frequencies: 32, 45, 64, 90, 128, 180, 250 kHz</li><li>- Features: Pure torsional mode in cylindrical, pure shear-horizontal mode in plate, short dead zone, high sensitivity, low profile, easy installation, low cost</li></ul>