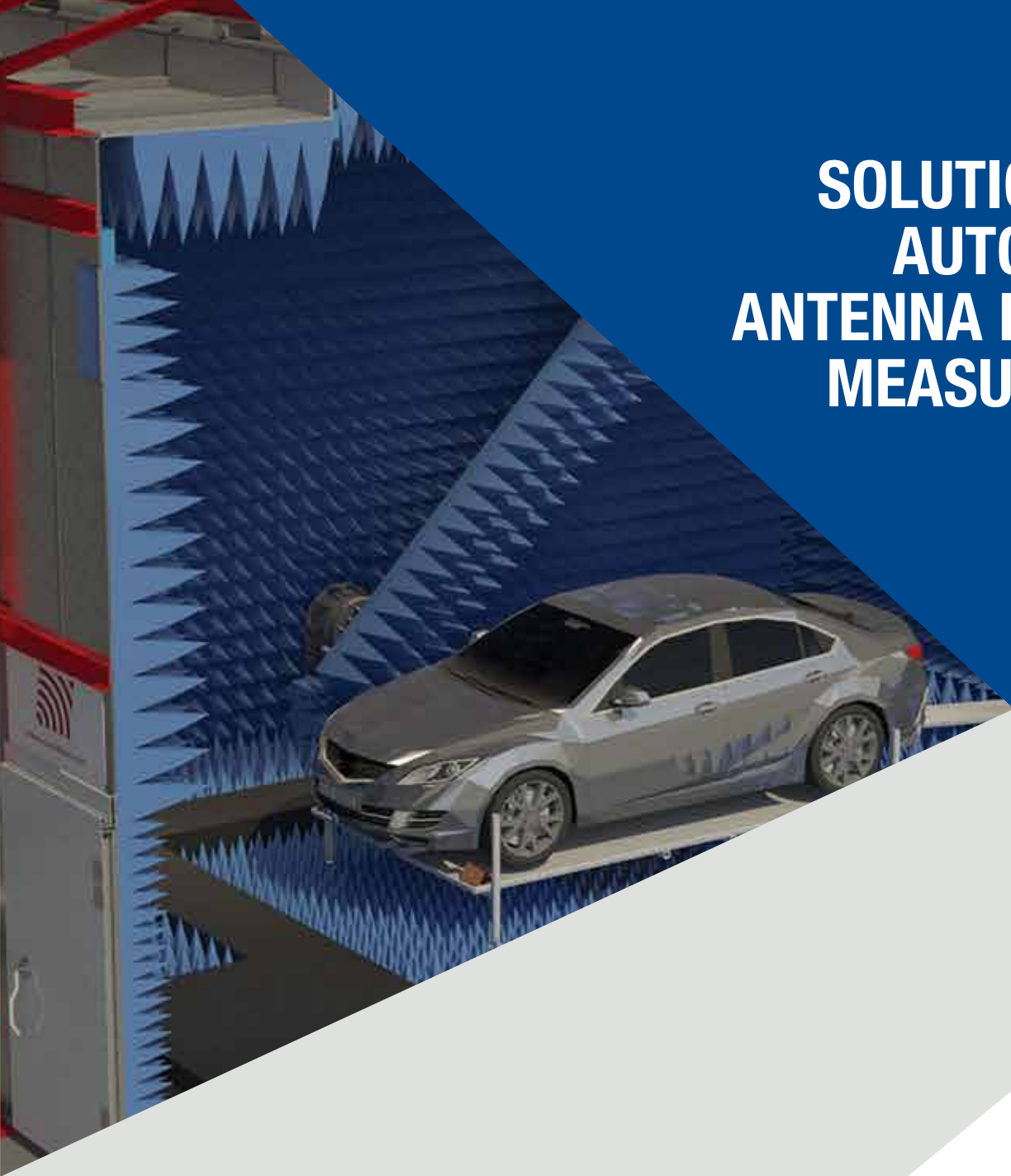


SOLUTIONS FOR AUTOMOTIVE ANTENNA PATTERN MEASUREMENT (APM)



BEYOND MEASURE.™

 **ETS·LINDGREN**[®]
An ESCO Technologies Company



AUTOMOTIVE ANTENNA PATTERN MEASUREMENT TEST SPECIFICATIONS

TYPICAL CONFIGURATION

ETS-Lindgren's antenna measurement solutions cover a wide range of vehicle sizes and frequency bands. Chamber system designs are available for antenna pattern measurements from 70 MHz to 6 GHz for the standard communication bands, with options for extension to 40 GHz for 5G and 90 GHz for RADAR. A typical system for "Passenger and Small Commercial Vehicles" is described below. Should you have different testing requirements, please contact your ETS-Lindgren representative for a customized solution.

Physical Specifications

Item	Description
RF Shielding	Modular RF Shielded Enclosure <ul style="list-style-type: none"> – Inside Shield Dimensions: 10.36 m x 7.32 m x 6.3 m (33.99 ft x 24.02 ft x 20.67 ft) – Estimated Overall Dimensions: 10.85 m x 7.92 m x 7.3 m (35.60 ft x 25.98 ft x 23.95 ft)
Test Volume	5.00 m x 2.00 m x 1.50 m+ 16.40 ft x 6.56 ft x 4.92 ft+
Maximum DUT Weight	2,500 kg 5,511 lb
Frequency Measurement Range	150 MHz to 6000 MHz, Optional Higher Frequency Available
Measurement Type	Near-field Hemispherical 3D Antenna Pattern (Theta Over Phi)
Absorber Treatment	Walls, Ceiling: EHP-24PCL Floor: EHP-24PCLWW
Near-field Scanner	NSI-MI Technologies' Automotive Antenna Test System to Include: <ul style="list-style-type: none"> – Spherical Near-field Measurement System – 3-Dimensional Near-field Swing Arm System – Over Hemisphere (> ± 95°) Spherical Scan Area – High Capacity Version of NSI-SC-5638 Turntable Positioner (Phi Axis) – NSI-SC-5638 Rotation Stage (Theta Axis) – NSI-SC-5633 Rotation Stage (Pol Axis) – 25 MHz to 6 GHz Probe Antennas – Three (3) 26.5 GHz Rotary Joints – Spherical Alignment Tool Kit – Measurement Workstation Computer with Large LCD Monitor – System Controller, Electronics, and Motor Cables – Antenna Measurement Software – System Documentation – Keysight 8.5 GHz ENA Based RF System – H Platform and Multiple-section, Removable Ramps

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