MORE THAN A DECADE OF EXCELLENCE IN AUTOMOTIVE IC PACKAGING AND TEST MANUFACTURING

- 20% CAGR of Automotive Volume Since 2014
- 50% of Automotive Business is Full Turnkey
- Highly Regarded Automotive Assembly and Test Sites
- Leadership in Smart Manufacturing, Assembly Automation

LEADERSHIP IN SMART MANUFACTURING IMPROVES QUALITY AND REDUCES CYCLE TIME

- Hands-free Process Enhancements
- Automated Defect Detection and Screening
- Automated 3rd Optical Inspection
- Automated X-ray Inspection
- Enhanced Material Handling using Automated Guided Vehicle (AGV)
- Customized Software to Enhance Existing Manufacturing Systems
- Barcode System
- Die Traceability
- Office Automation

“A” RATING BY AUDITORS FROM AUTOMOTIVE TIER 1 CUSTOMERS
Customer Complaint < 3.7 Case per Billion Units

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SiP
Size Reduction through
Increased Component
Density
- Leadframe-based
- Laminate-based
- Power Modules

MEMS AND SENSORS
- Camera Sensors
- Radar Sensors
- Sensor Fusion
- IR Sensors
- Pressure Sensors
- Accelerometers
- Accel + Gyro

ANALOG & DISCRETE
- AECQ101 Grade 0
  Capable for Select
  Packages
- Cu Clips
- Au and Cu Wires

TEST
- Full Tri-Temperature
  Range
- Wafer Probe: Including
  Thin and/or Diced
  Wafers
- Final Test: Including RF,
  Power
- Handlers: All Package
  Types
- Burn-in: Static and
  Dynamic

SIDE WETTABLE FLANK FOR AUTOMOTIVE OPTICAL INSPECTION (AOI).
A REQUIREMENT FOR AUTOMOTIVE QFN
- Side-Lead Plating
  (SLP)
- Special Filletting
  Solution (SFS)

IN-HOUSE LEADFRAME ROUGHENING FOR DELAMINATION PERFORMANCE
- MSL 1 Packaging Capability
- Proprietary Roughening
  Process for Ag-plated
  Leadframes

AUTOMOTIVE BEST PRACTICES
- Experienced, Automotive
  Certified Operators and
  Technicians
- Re-certification of These
  Authorized Personnel
  Every 6 Months
- Designated Line for
  Automotive
- 20 Years Record Retention

AUTOMOTIVE GROWTH

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<tr>
<th>Year</th>
<th>Volume (Mil)</th>
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CAGR 40%