

# Meet LG AUTOMATION

## Automation Solutions for Industrial Process Control



# Our team







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Col. Parque Industrial.  
Hermosillo, Son. Mexico.

Telephone: (662) 250-16-00  
Website: [lgautomation.com.mx](http://lgautomation.com.mx)

# Suppliers

Our suppliers are vital to our continued success. We create on-going and longlasting partnerships with our suppliers, some dating back to our very first project. Our suppliers are our partners in serving the interest of each and every client.

**FESTO**®

**TURCK**®

**BALLUFF**®

**COGNEX**®

**SIEMENS**®

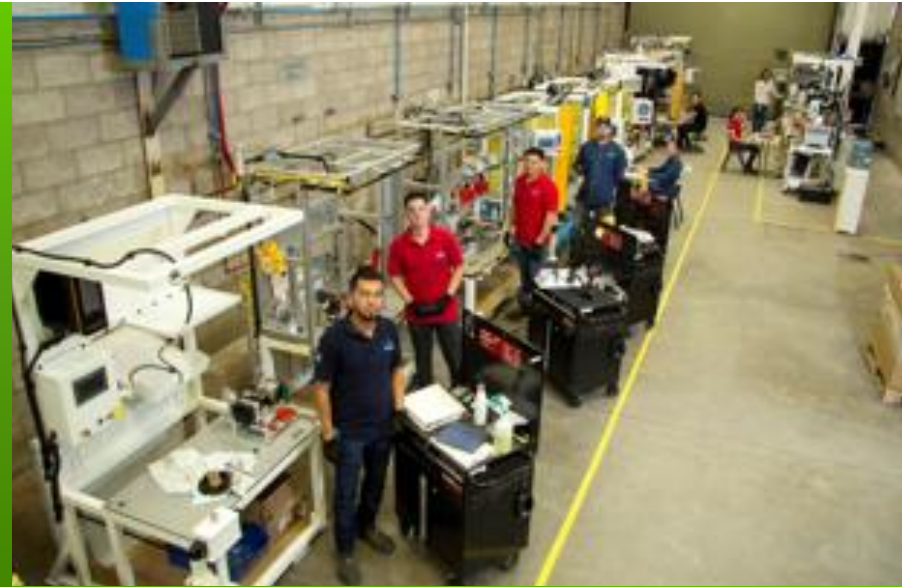
**SMC**®



**Allen-Bradley**®

**KEYENCE**®

# Our resources





# Manufacturing

Our facility has a full complement of tools and equipment for any job, including:

- (2) CNC Vertical Machining Center, 30" x 16" x 20".
- (1) CNC Vertical Machining Center, 55" x 22" x 25".
- (2) Metal Lathe.
- (4) Milling Machine.
- (3) Arc Welders.
- (1) MIG Welder.



# Engineering

We bring together a diverse team of talented individuals across the disciplines of design, software and electrical engineering. What we offer:

## Mechanical Design:

- (8) Workstations.
- (1) 3D Printer (300 x 300 mm)

## Controls:

- Design.
- Software Development.
- Panel Building.
- Robot Programming.





# Our facilities





# Our facilities

- (45 m<sup>2</sup>) Raw material storage and preparation process.
- (25 m<sup>2</sup>) Welding area.

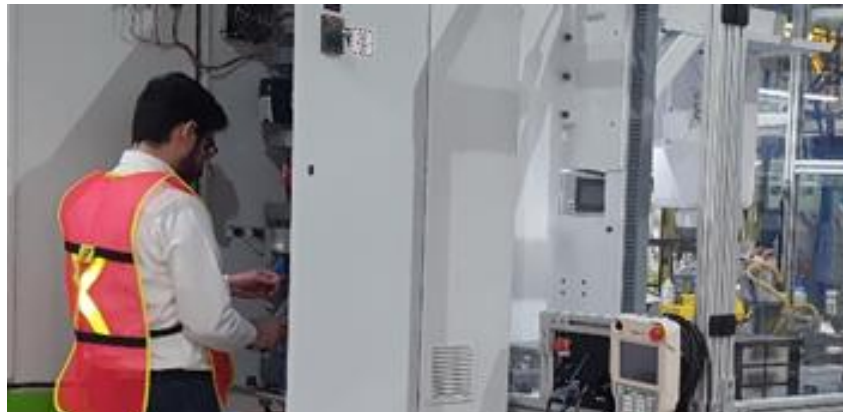
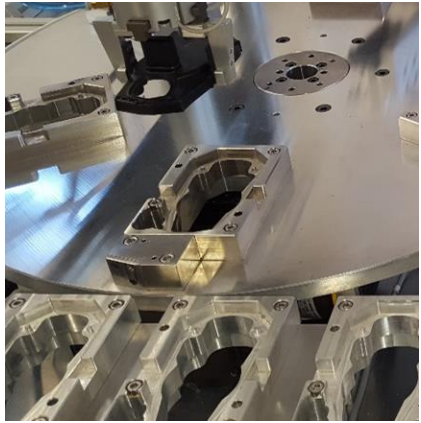
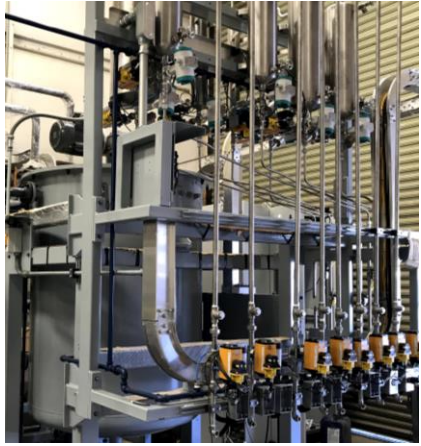




# Our facilities

- (85 m<sup>2</sup>) Final Assembly area.
- (60 m<sup>2</sup>) Testing and final approving area.





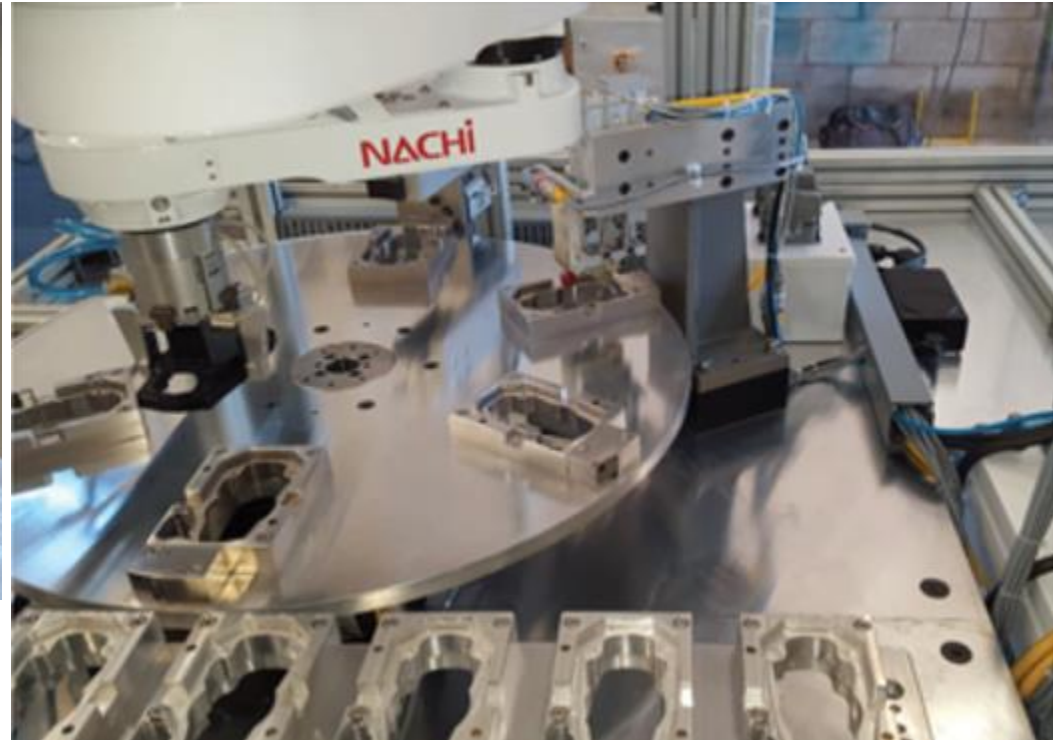
# Solutions Portfolio

Automation Solutions  
for Industrial Process Control



# Solutions

## Electric Test Machine



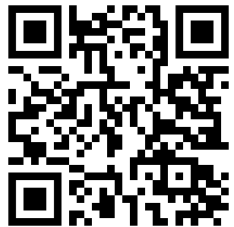
# Solutions

## Electric Test Machine



This machine integrates many state of the art technologies, such as:

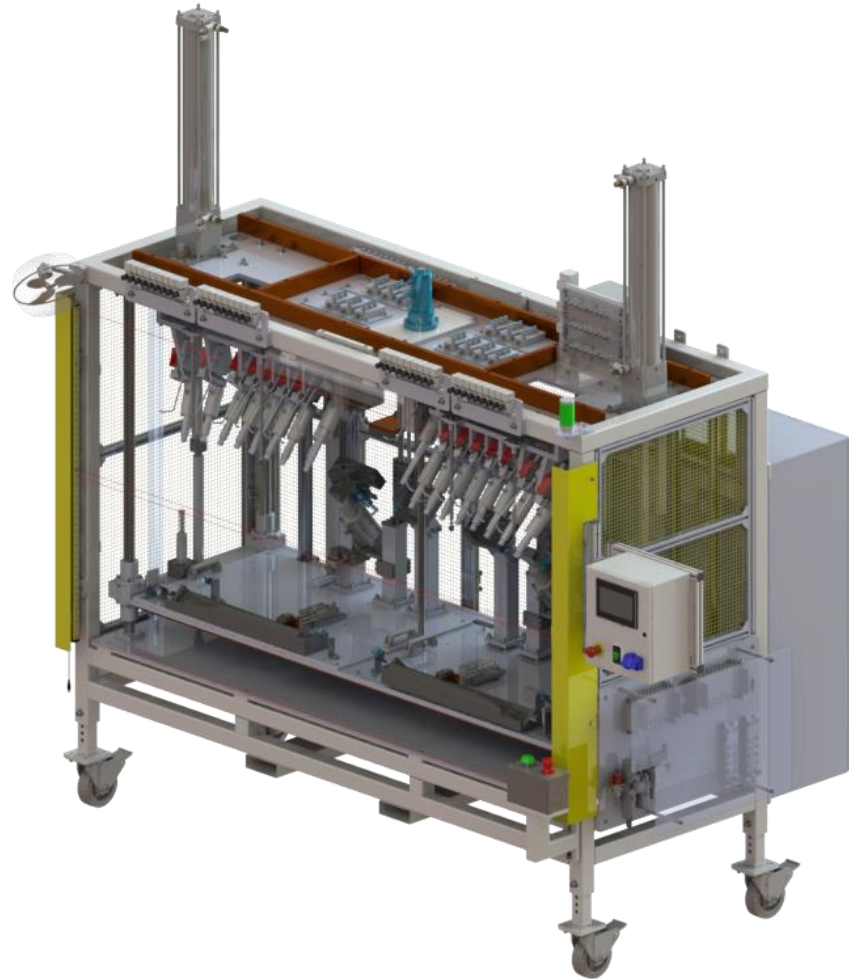
- Robot SCARA Nachi EZ03.
- Cirris System 1100+, automatically performing:
  - Low voltage connection resistance test.
  - High-voltage (Hipot) test.
  - Opens circuits.
  - Short circuits.
- Keyence laser engraving.
  - Marks a QR Code with information of every part, such as:
    - Production time.
    - Pass or Fail result.
    - Additional traceability information.



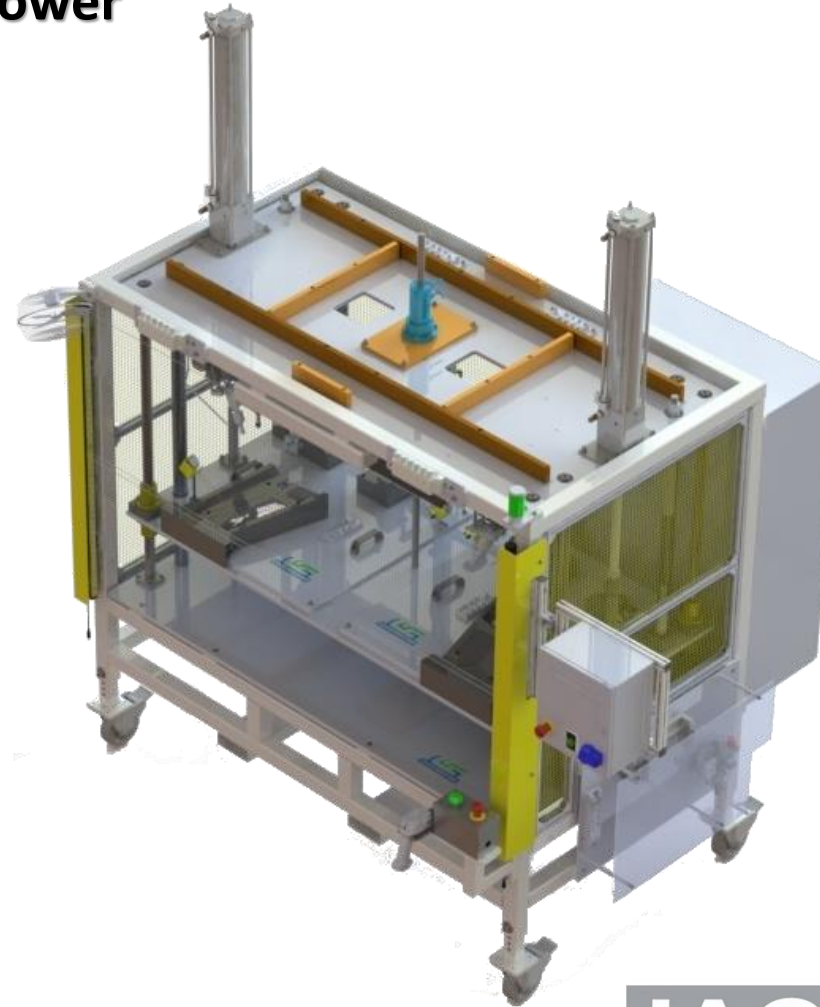


# Solutions

**Sonic weld for Hardtrim Door  
Reinforcement**

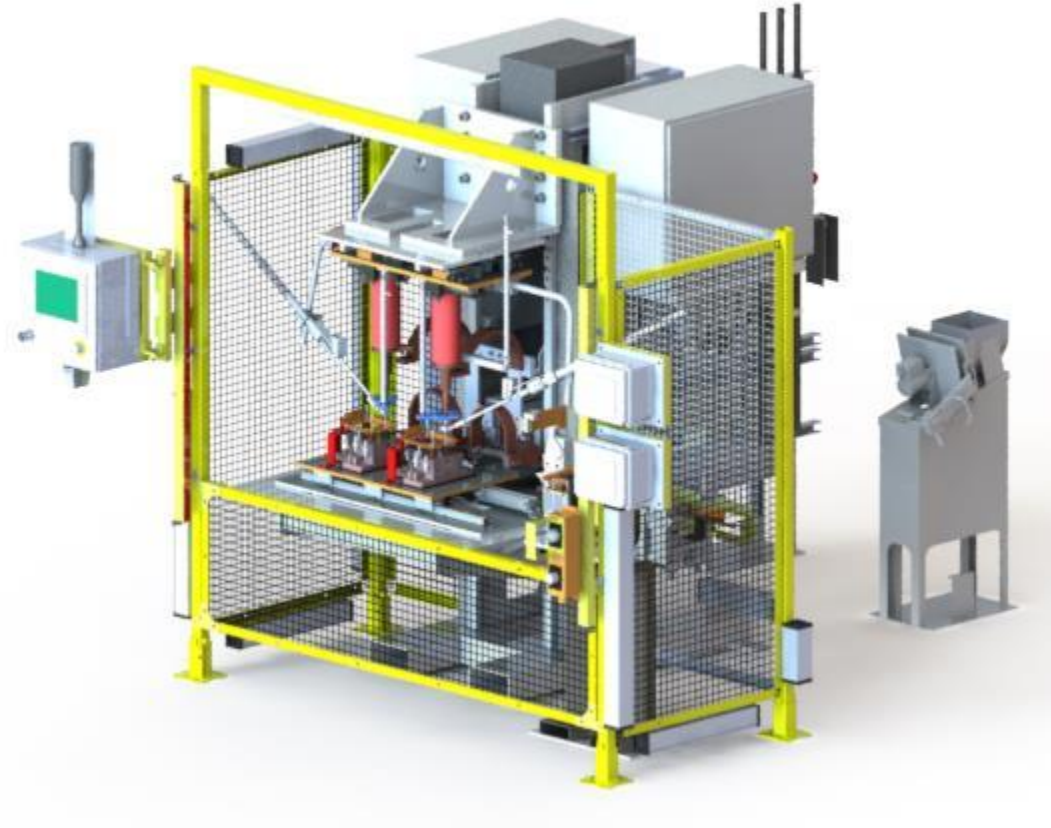


**Sonic weld for Hardtrim B-Pillar  
Lower**



# Solutions

## Projection Welder RCM



This machine integrates many state of the art technologies, such as:

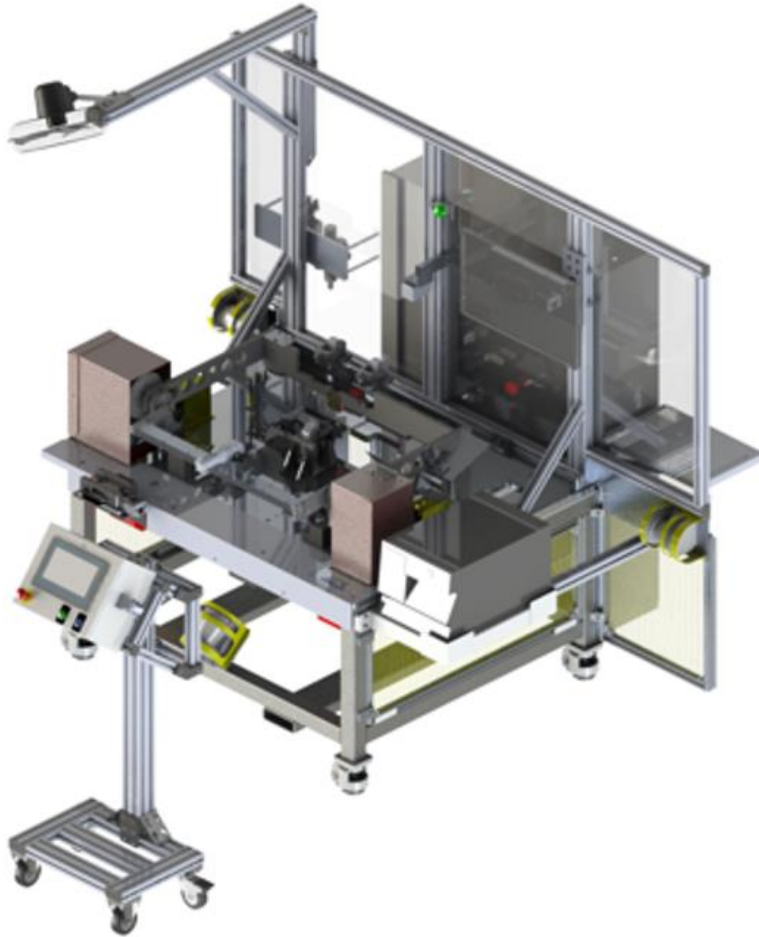
- WTC Welding Controllers.
- MILCO Welding Cylinders.
- SEKI Stud Feeders.
- Allen-Bradley PLC and HMI:
- Keyence Safety Light Curtains.





# Solutions

## Seat Frame Assembler Tester



This machine integrates many state of the art technologies, such as:

- Siemens Servo Mechanisms.
- Siemens PLC and HMI:
- Load cells for effort measuring.
  - Measures effort to recline the seat and tests lock assurance of the recliners.
- National instruments processor to connect effort signals.
- Keyence Safety Laser Scanner.



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# Solutions

## Conveyor In-Line Seat Frame Assembler Tester



This machine integrates many state of the art technologies, such as:

- Conveyor lines.
  - Glide Line & Itoh-Denki Rollers.
- Siemens Servo Mechanisms.
- Siemens PLC and HMI.
- Load cells for effort & torque measuring.
  - Measures effort to recline the seat and tests lock assurance of the recliners.
- National instruments processor to connect effort signals.
- Bruel & Kjaer accelerometers for vibration testing.
- Pneumatic vibration dampeners.
- Keyence Safety Laser Scanner.





# Solutions

## Seat Recliner Mechanism Tester



This machine integrates many state of the art technologies, such as:

- Siemens Servo Mechanisms.
- Siemens PLC and HMI:
- Load cells for effort measuring.
  - Measures effort to unlock the recliner and tests lock assurance of the recliners.
- National instruments processor to connect torque signals.
- Keyence Laser Marker



# Solutions

## Backrest Assembly



This machine integrates many state of the art technologies, such as:

- Siemens PLC and HMI:
- Keyence and Balluff Laser & Inductive sensors.
- Zebra Label Printer.

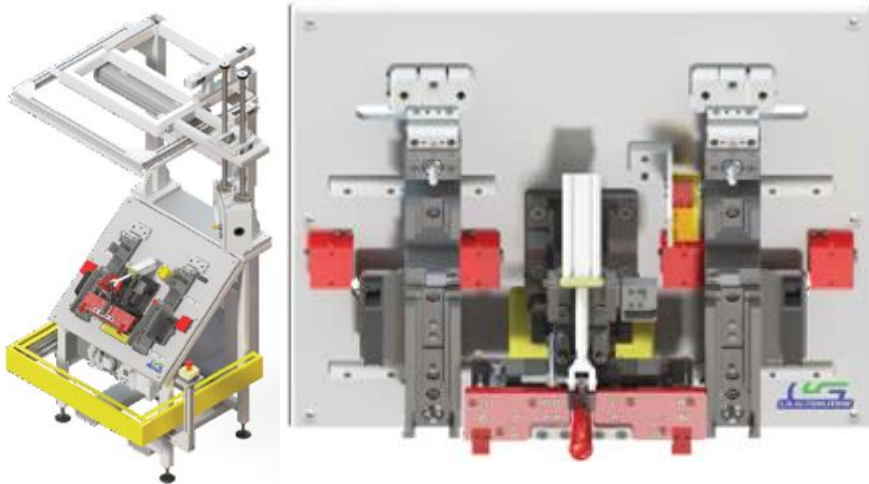


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# Solutions

## H-Frame Assembly



This machine integrates many state of the art technologies, such as:

- Siemens Servo Mechanisms.
- Siemens PLC and HMI:
  - Load cells for effort measuring.
    - Measures effort to unlock the recliner and tests lock assurance of the recliners.
- National instruments processor to connect torque signals.
- Keyence Laser Marker



# Solutions

## Seatbelt Assembly



These are some of the required machines to assemble a complete seatbelt. Included in this line are:

- Web cutter.
- Web Pin Puller.
- Bracket Rivet I.
- Component Assembly Fixture (CAF).
- Manual Press.
- E-Check.
- Bracket Rivet II.

Some of the functions of this line include webbing cutting, verifying the correct assembly of components in webbing and retractor, join brackets and retractor structure by rivets and electrical tests for the retractor's connector.

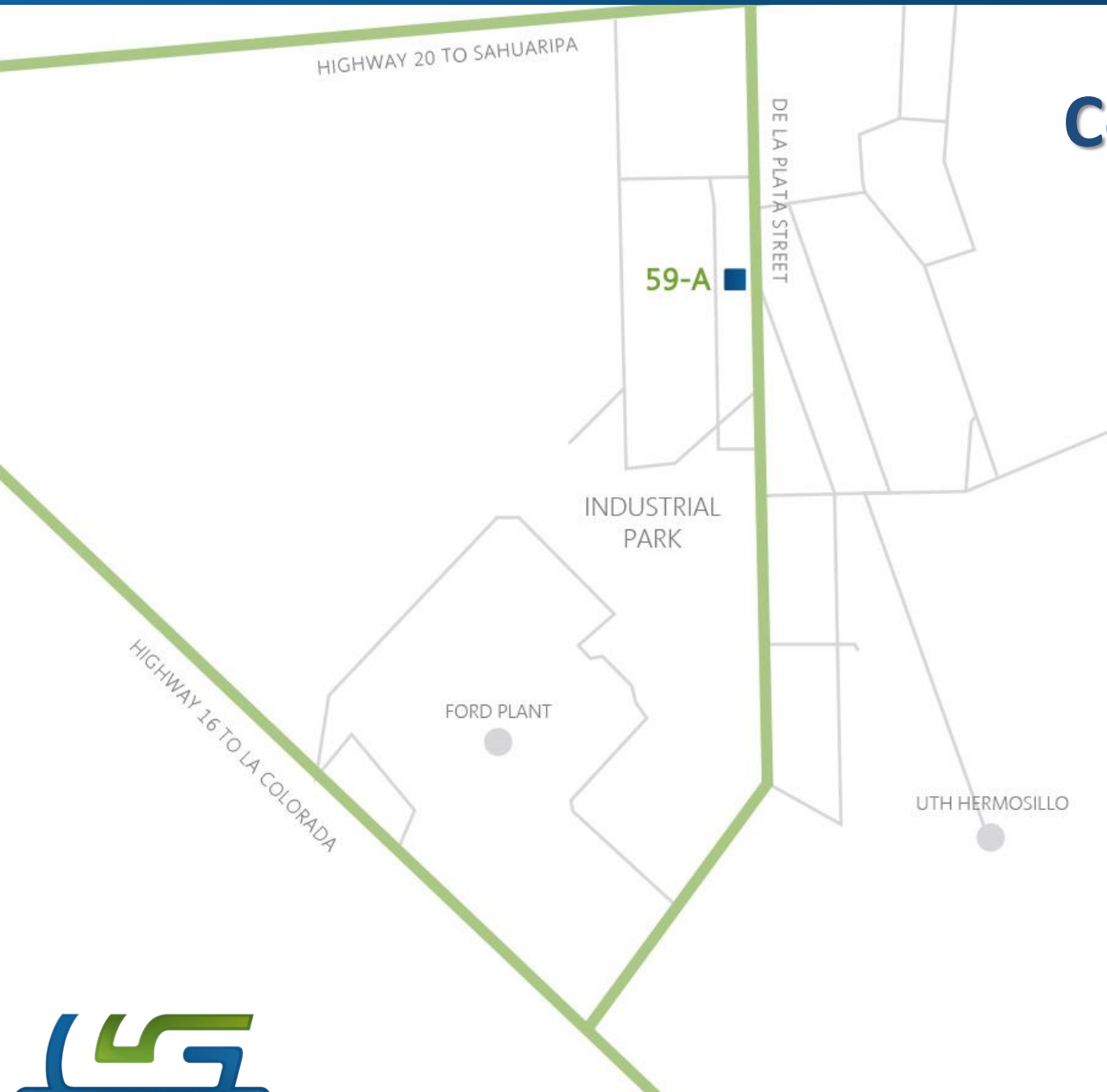


**Autoliv**



# Our Clients





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