

Bocar Group Company Profile



About us



Business Units

Aluminum High-Pressure Die Casting



Development and manufacture of high quality and precision aluminum components.

Aluminum Semi-Permanent Mold



Development and manufacture of aluminum automotive components through gravity casting technology.

Plastics



Complex plastic components developed and produced through high precision plastic injection.

History





- **Mexico City**
- ### AFISA: Manufacture of parts in automatic lathes
- Mexico City
 Carburetors and gasoline, oil and water pumps
- Mexico City
- AUMA: aluminum die cast and trimmed parts
- **Mexico City** PLASTIC: plastic injection components
- **Mexico City**

AFISA changes its name to BOCAR (Bombas y Carburadores, Pumps and Carburetors)

- Chihuahua

 AUMA
- E BOCAR
- Lerma (Toluca)
 FUGRA
- Queretaro
 AUMA TEC
- Wixom, MI, US
 - **AUMA Engineered Products:** Sales and Project Management office
- Lerma (Toluca)
 PLASTIC

- Saltillo
 AUMA SALTILLO
- Manchester, TN, US
 AUMA Engineered Products: Logistic Center
- Yokohama, Japan **AUMA Engineered Products:** Sales, Engineering and Project Management office
- San Luis Potosi
 AUMA SLP
- San Luis Potosi
 PLASTIC

- **Stuttgart, Germany**
- BOCAR GmbH: Sales, Engineering and Project Management office
- **Lerma (Toluca)**PLASTIC IMD

- Mexico
 Growth of Chihuahua, Lerma, Queretaro and San Luis Potosi facilities
- **Lerma (Toluca)**"Centro de Excelencia FB" (Training Center)
- Waldmössingen, Germany
- 8 Bocar Technical Center

- Shenzhen, China
 Bocar Trading Office Huntsville, Alabama Bocar US
- San Jose, CA, USA
 AUMA Engineered Products

Footprint - Facilities



High-Pressure Die Casting

Chihuahua (1985)

Huntsville (2020)

Lerma (1991)

Mexico City (1958)

Queretaro (1995)

Saltillo (2004)

San Luis Potosi (2009)

Semi-Permanent Mold

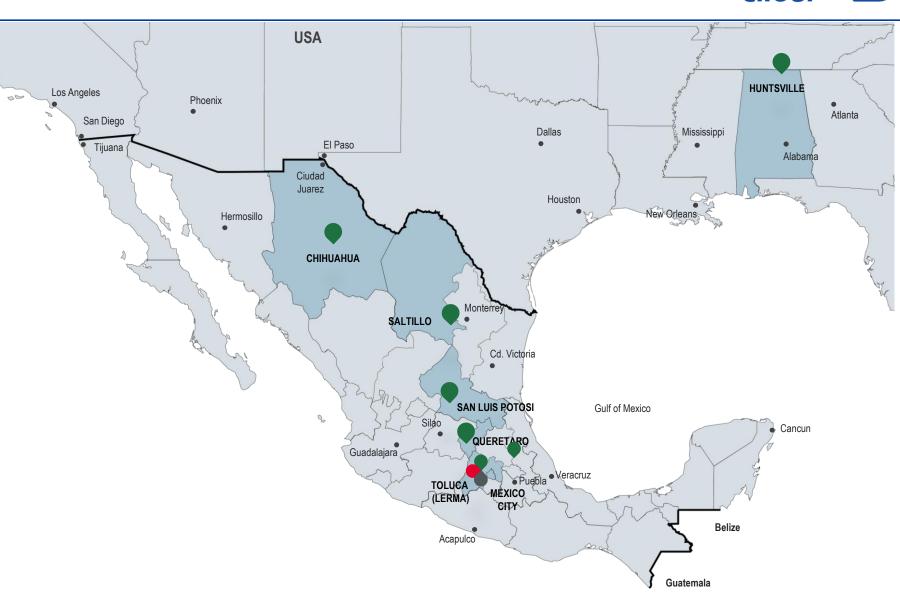
Lerma (1992)

Lerma (2017)

Lerma (2018)

Plastic

Lerma (1997)



Footprint – Global Services





Successful Partnerships





































































High Pressure Die Casting

Manufacturing Processes





Automated casting cells

- Holding furnace
- Casting machine
- Lubrication system
- Handling robot
- Trim press

Machining

- Milling and Lathe CNC machines
- Vertical and Horizontal CNC
- In process CMM
- 5 Axis Machining
- Multi Spindle Machining

Assembly

- Lean manufacturing concept
- Automated process control
- In line Poka-yokes
- Modular assembly lines
- In-house and supplier's expertise

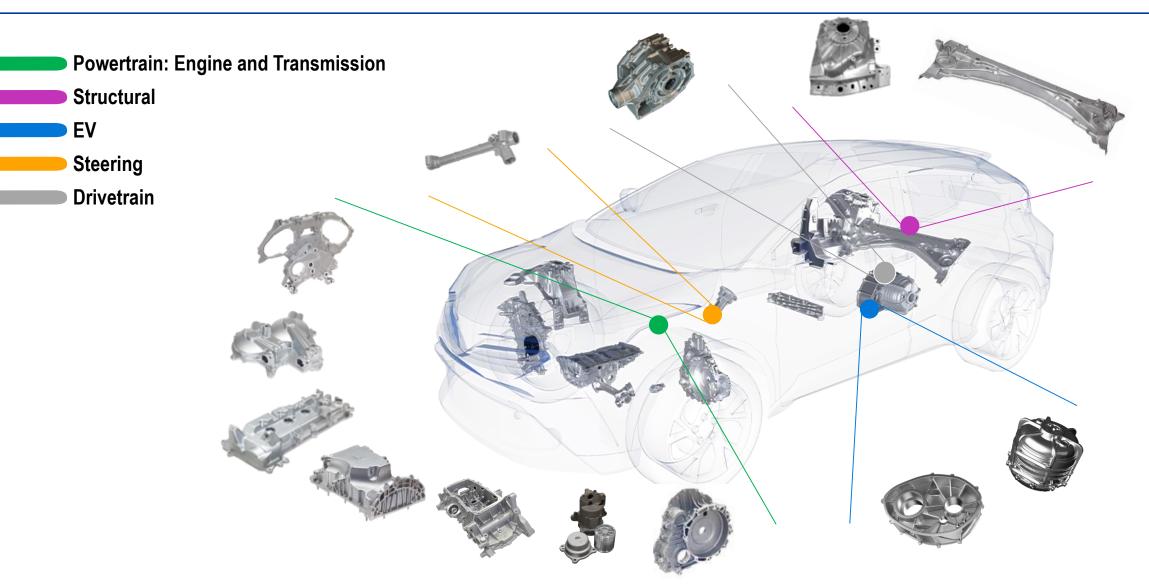
Additional processes

- In process X-Ray capabilities
- Heat treatment capabilities
- Polishing and straightening
- Dye Penetrant Testing

High Pressure Die Casting

Products





Semi Permanent Mold

Manufacturing Processes





Gravity Casting

- Automated and manual pouring cells
- Organic Shell, Cold Box and Inorganic core processes
- Automatic degassing process
- Process development and tooling debugging
- Fully equipped Metallurgy Lab

Machining

- Milling and Lathe CNC machines
- Vertical and Horizontal CNC
- In process CMM
- 5 Axes Machining
- Multi Spindle Machining

Assembly

- Lean manufacturing concept
- Automated process control
- In line Poka-yokes
- Modular assembly lines
- In-house and supplier's expertise

Additional processes

- In process X-Ray capabilities
- Heat treatment capabilities
- Dye Penetrant Testing
- Impregnation
- Polishing and straightening

Semi Permanent Mold

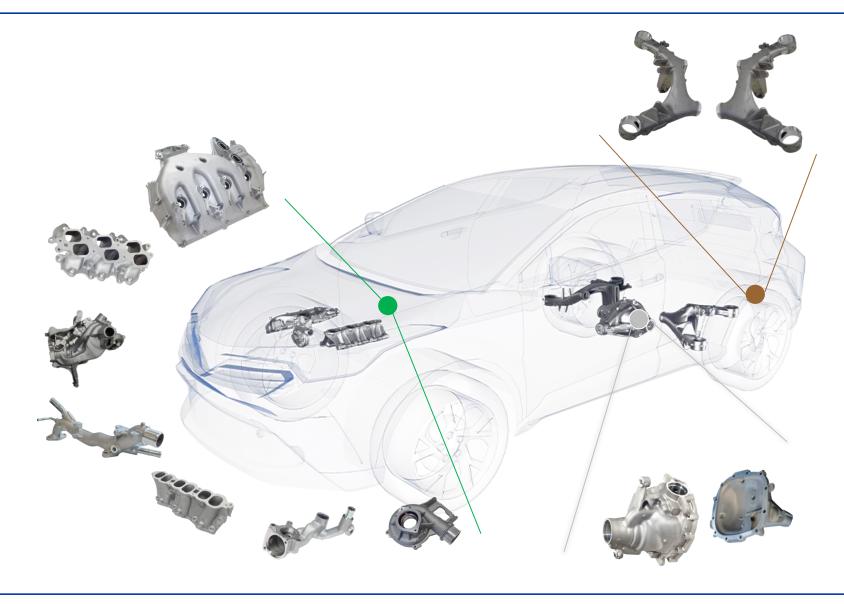
Products



Powertrain

Drivetrain

Suspension



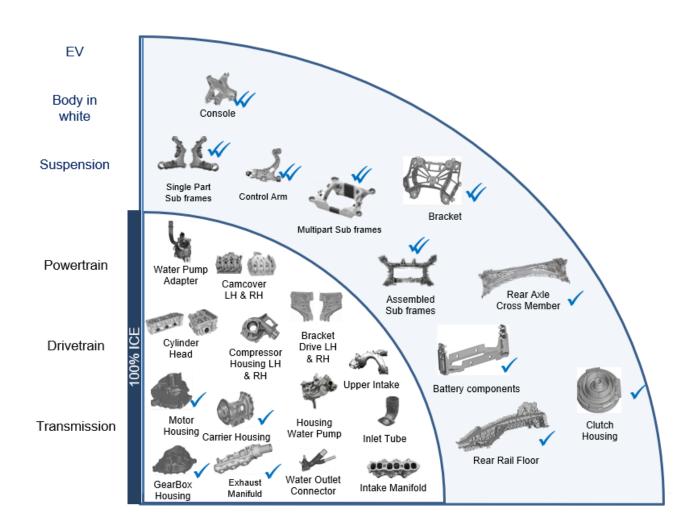
BOCAR GROUP Aluminum Products Evolution



Over 60 years of experience in the automotive industry, always adapting to the changing requirements of our customers to remain a reliable partner **New Tech** Note: Components include sample photos, public domain sources **New Core** Core 1982 1958 2000 2010 2017 2023

BOCAR GROUP SPM & LPDC Aluminum Products Evolution





- ✓ Low Pressure Die Cast (Security parts)
- ✓ Low Pressure Die Cast



THANK YOU

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