

Spartan Light Metal Products





STATEMENT OF CONFIDENTIALITY

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General Overview



Founded: 1961 [60th Anniversary in 2021]

Manufacturing Plants: Sparta, Illinois, USA

Mexico, Missouri, USA

- Mexico Facility

- LMP Facility

Hannibal, Missouri USA

<u>Structure</u>: Non-Union, Family-Owned Corporation

President & CEO: Tom Messner

No. of Associates: Approx. 1,000

<u>Certifications</u>: ISO9000/QS9000 Certification, ISO 14001 Certification,

IATF 16949 Certification - 2018

Spartan Corporate Guidance





Mission Statement

Develop long-term strategic relationships with significant customers who can benefit from the value Spartan provides.

Vision Statement

Be the Global Value Leader in Light Metals Technologies through customer focused, engineered solutions at competitive costs.

Why Customers Consistently Rely on Spartan





Die Casting Technology Experts

60 years of company history as industry leading supplier of sophisticated aluminum and magnesium components, including alloy and manufacturing process development.



Flexibility of Tooling and Product Design

Spartan's experience, automotive industry focused services, and collaborative engineering provide the necessary conditions to ensure the highest degrees of product design flexibility.



Collaborative and Responsive Product Development Support

Leveraging extensive experience, training, and localized customer service, Spartan continually strives to provide the industry's best customer service and technical support.



Full-Service Manufacturing Capabilities to Match Customer Needs

Spartan LMP can provide a wide range of products, from raw die cast components to machined, assembled, and validated product solutions.



Financial Security

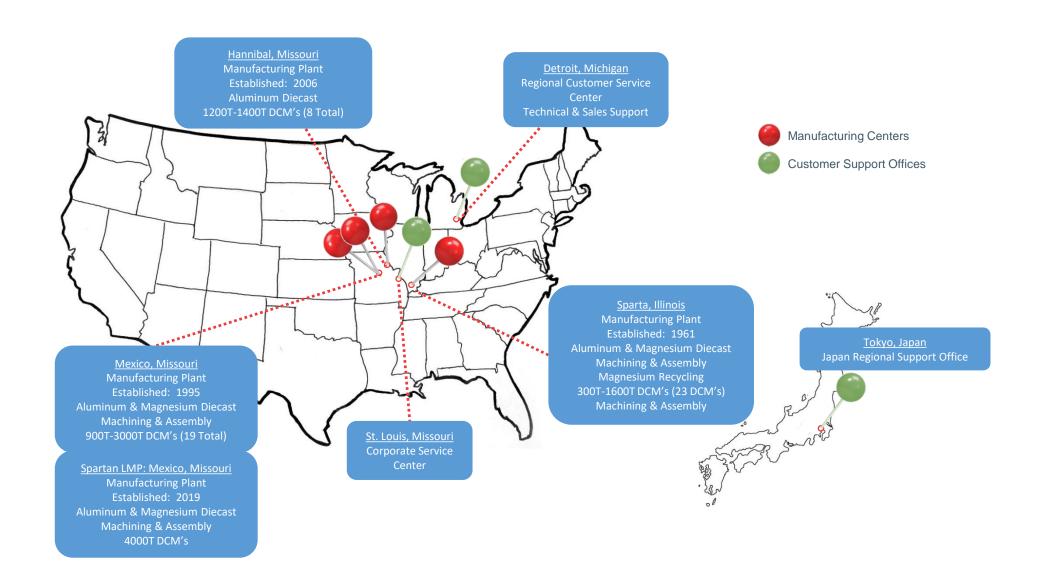
Spartan has recently persevered through difficult times thanks to its private ownership, sound business planning, and corporate and social responsibility practices.



Safety and Consistency

Spartan's safety record demonstrates its dedication to keeping employees safe and minimizing disruptions in production, while using its central location for quick distribution of parts.





Sparta, Illinois Manufacturing Facility





Sparta, IL

- 205,000 sq-ft of manufacturing
- 13,000 sq-ft of office
- 90,000 sq-ft of warehouse
- ~450 employees
- First SLMP facility, 1961 (warehouse Q1 '17)
- 23 Die cast Machines 300T-1600T
- Specialties:
 - Die casting
 - Machining
 - Assembly
 - Al & Mg recycling, alloying, and metallurgy
 - Corporate product engineering center
 - In-house complete tool maintenance services



Hannibal, Missouri Manufacturing Facility







Hannibal, MO

- 55,000 sq-ft of manufacturing
- 5,000 sq-ft of office
- ~75 employees
- Bought in Q2, 2006, opened in Q1, 2007
- Specialties:
 - Ultra-low porosity critical component aluminum die casting
 - Collaborative custom machining process development



	Certificate of Achievement	Excellent Award for Quality
// 	2010 - 2011	2012 – 2018



Supplier Quality Excellence

2018 - 2020

Mexico, Missouri Manufacturing Facility





Mexico, MO

- 260,000 sq-ft of manufacturing
- 29,000 sq-ft of office
- ~250 employees
- Built in 1994 as a dedicated Mg production facility
- 1st 3k ton fully-automated DC cell producing dual cavity parts
- 2nd 3k ton fully-automated DC cell arrived Q2 2019 for new programs
- Specialties:
 - Die casting production, Mg & Al
 - Capable of quick material changes
 - Specializing in large tonnage and dual cavity production
 - Tight-tolerance CNC Machining
 - Surface treatment & advanced cleanliness development



Spartan LMP, Our Newest Facility



- Greenfield investment announcement Jan 19th 2018
- Large tonnage machine focus
- Four 4,000T Die casting cells in initial footprint
- Provisions for five additional 4,000T die cast cells in initial footprint
- Facility designed to be modular for rapid expansion capability
- Independent business unit, immediately adjacent to current Mexico, MO facility
- Specializes in large structural Aluminum and Magnesium die-casting
- Safety Prioritized with firewall surrounding furnace





NEWS RELEASE

For Immediate Release

Friday, January 19, 2018

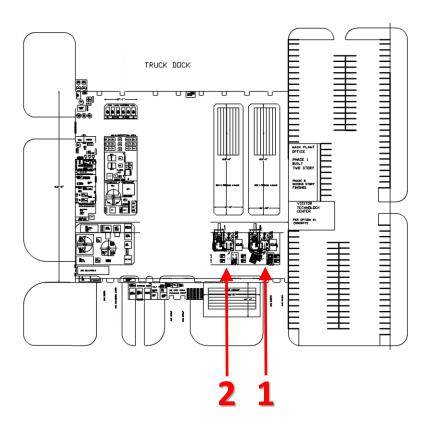
Spartan Light Metal Products, Inc. announces the planned construction of a new standalone die cast manufacturing facility to be located in Mexico, Missouri. The new multimillion dollar investment in this manufacturing facility is another substantial example of Spartan Light Metal Products commitment to the city of Mexico, Missouri and the surrounding communities. This facility will operate as a separate business unit and is being built on an existing site owned by Spartan in Mexico, Missouri. Spartan expects to break ground sometime in the 2nd Quarter, 2018 with completion in the 3rd Quarter, 2019.



Scalability of Expansion Plans



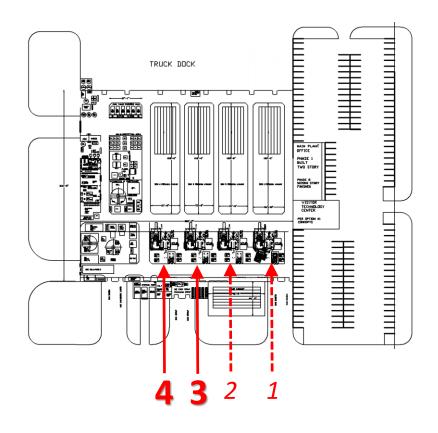
Phase 1



Initial Build Plan
(2) 4,000 ton die cast cells

1st Die Cast Production ready January 2020 2nd Die Cast Production ready April 2020

Phase 2



Rapid Capacity Expansion Capability (2) Additional 4,000 ton die cast cells

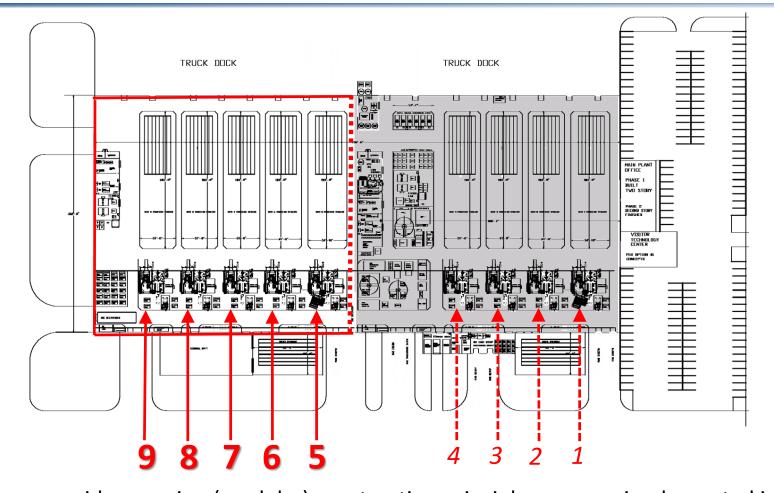
3rd and 4th 4,000 ton die cast cells can be implemented with as little as 12 months notice

Max Build-Out Plans of New Facility



Phase 3+

Max Build-out Shown



Spartan deployed the same rapid expansion (modular) construction principles as were implemented in the current Mexico, MO facility. The initial construction was built to fully support the future state footprint, and has a removable end wall to reduce future expansion timing and costs.

The facility has been designed to house (9) fully automated 3.5k-4.5k ton die casting cells, and all required support equipment for the large machines and tooling.



A supplier to (alphabetically listed):

















Corporate Awards and Recognition





2012-2019 - Toyota Excellent Quality Performance Award

2017 - Toyota Excellent Launch Award

2010-2011- Toyota Quality Performance Certificate of Achievement



2013 – Honda Challenging Spirit Award – Mexico, MO

2013 – Honda Challenging Sprit Award – Sparta, IL

2013 – Honda Excellence in Delivery – Mexico, MO

2013 – Honda Excellence in Delivery – Sparta, IL





2013 - Volkswagen Global Group Award (1 of 21, within ~2,000 suppliers)



2004 - Licensing agreement with NASA for the use of aluminum/silicon hypereutectic alloy





GENERAL MOTORS

2019 & 2020– GM Supplier of the Year Award

2019 - GM Supplier Quality Excellence Award - Sparta, IL

2019 – GM Supplier Quality Excellence Award – Hannibal, MO

2018 - GM Supplier Quality Excellence Award

2016 - GM Platinum Certificate of Excellence Supplier Status

2007 - GM Quality Performance Achievement Certificate



2011-2018 - NADCA Outstanding Safety Award 2009 - 2011 - NADCA Perfect Safety Award



2003 – Ford Worldwide Excellence Award (1 of 24)



- Timing Chain/Cam Gear Covers
- Integrated Oil Pans (Upper Castings)
- Bearing Beams (Lower Engine Block)







External Engine Components















- Cam Covers
- Head Covers
- Engine Seals
- Oil Pans
- Transmission Housings
- Intake Manifolds





External Transmission Components



- FWD Automatic Transmission End Covers
- Transmission Pans/Covers









- Channel Plates
- Valve Bodies
- Solenoid Bodies
- Clutch Basket Assemblies
- Sprag Plates
- Pump Covers
- Pump Bodies





Functional Performance Improvements via Spartan Expertise





Improved Performance

- Mass Reduction
- Inertia Reduction
- Improved Wear Resistance
- Part Count/Complexity Reductions





Automatic Transmission Sprag Clutch Body

- Previously produced with powder metal process
- Spartan die cast from B390 wear resistant aluminum alloy
- Mass savings of 60% over previous design (~0.5 kg / ~1.1 lbs.)

Automatic Transmission Clutch Basket Assembly

- Previously was produced from Powder Metal process
- Spartan die cast from B390 wear resistant aluminum alloy
- Dynamically balanced on automated robotic production line for 1,200 RPM service speed
- Mass savings of 4.1 kg (9.04 lbs.)