



# Automotive

SSOE's roster of clients manufactures more than 50% of the cars sold in the world.



## ACEC GRAND AWARD FOR ENGINEERING EXCELLENCE

**Volkswagen's \$1 Billion+  
Automotive Assembly  
Facility**

Full design  
and construction  
management

2.7 million SF facility

First and only LEED®  
Platinum automotive  
manufacturing plant  
in the world

First LEED Platinum  
industrial campus in  
the U.S.

Put simply, there is no other choice when it comes to automotive facility design. We are the firm of choice for the world's most successful and innovative automotive manufacturers. Our performance speaks for itself, and historically our design pays for itself—literally returning hundreds of millions of dollars to our clients in the form of cost savings.

**Seasoned Professionals.** Our staff averages nearly 20 years of experience serving the automotive industry. They have designed 12 new automotive plants in the last 20 years.

**Efficiency and Value.** Through value engineering, scope modifications, and innovative design and material usage, we find ways to meet needs while driving out cost and compressing the schedule.

**An Institution in the Industry.** Our storied history of working with automotive manufacturers, whom we count among our most loyal and long-standing clients, dates back to 1948. Case in point? Ford Motor Company, our first client, is still with us today.

**Diversity of Services.** We're experts in site selection, the planning and design of greenfield plants, and the renovation and maintenance of older facilities—plus, everything in between.

## TOP 5 AUTOMOTIVE PLANT

A Top 5 Automotive Plant  
Design Firm for the past two years  
(ENR)



## \$250M COST SAVINGS

SSOE has documented more than  
\$250M in savings for automotive  
clients over the past decade.



## 3,900+ AUTOMOTIVE PROJECTS

3,900+ automotive  
projects executed  
in the last 25 years





## CLIENTS

### OEMs

BMW Group  
Caterpillar  
Daimler  
FCA Group  
Ford  
General Motors  
Honda  
Hyundai / Kia  
Kenworth  
Nissan  
PACCAR  
Toyota  
Volkswagen

### TIER SUPPLIERS

American Axle  
& Manufacturing  
Bridgestone / Firestone  
Continental Tire  
Cummins  
Dana Incorporated  
Detroit Diesel  
Dürr Systems  
Gallagher-Kaiser  
Guardian Industries  
Magna International  
TKS Industrial Company  
TRW Automotive  
ZF Friedrichshafen AG



## PROJECT TYPES

### MANUFACTURING

- Body / Weld
- Die casting
- Final trim / assembly
- Foundry
- Frame / Chassis
- Machining
  - Heat treatment
  - Mist collection
  - Scrap handling
- Paint shops
- Plastics injection molding
- Press / Stamping
- Subassembly
  - Scrap handling
  - Frame / Chassis
  - Engine
  - Transmission

### SUPPORT FACILITIES

- Automatic Storage and Retrieval Systems (ASRS)
- Bridges
  - Conveyance
  - Pedestrian
  - Vehicle
- Data centers
- Distribution centers and parts warehouses
- Fire stations
- Logistics centers
- Offices, locker rooms, and cafeterias
- Paint / Mix storage
- Security buildings
- Utility centers
- Visitors centers

### R&D AND TESTING

- Advanced vehicle design
- Anechoic chambers
- Coordinate measuring machines
- Dynamometers
- Emission soak rooms
- Environmental chambers
- Model / Machine shops
- Noise, Vibration, and Harshness (NVH) rooms
- Radio frequency interference chambers
- Scaled wind tunnels
- Test sleds
- Test tracks
- Test labs
  - Electrical, fuel test, HVAC, instrumentation, material, metrology, vehicle analysis



## TECHNICAL SPECIALTIES

- Air permitting
- Arc flash studies
- BIM
- Central plant utilities
- Cleanrooms
- Design studios
- Data systems
- Factory automation
- Fire alarm
- Interior and landscape design
- Laser scanning
- LEED certifications
- On-site owner's representation
- Pipe stress analysis
- Plant and infrastructure design
- Rail spurs
- Security systems
- Sequencing centers
- Site selection and planning
- Stress analysis
- Tank farms
- Wastewater treatment