



# 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 longstanding 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 10**  
AUTOMOTIVE PLANT

A Top 10 Automotive Plant Design Firm for the past decade (*ENR*)



**173%**  
FEE SAVINGS

SSOE designs have returned 173% of our fee to automotive clients in cost savings



**3,900+**  
AUTOMOTIVE PROJECTS

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





## CLIENTS

### OEMS

BMW  
 Caterpillar  
 FCA US LLC  
 Daimler  
 Ford  
 General Motors  
 Honda  
 Hyundai / Kia  
 Kenworth  
 Nissan  
 Paccar  
 Toyota  
 Volkswagen

### TIER SUPPLIERS

American Axle  
 Manufacturing  
 Bridgestone / Firestone  
 Continental Tire  
 Cummins  
 Dana  
 Detroit Diesel  
 Durr Systems  
 Gallagher-Kaiser  
 Guardian Industries  
 Magna International  
 TKS  
 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 representative
- Pipe stress analysis
- Plant and infrastructure design
- Rail spurs
- Security systems
- Sequencing centers
- Site selection and planning
- Stress analysis
- Tank farms
- Wastewater treatment