

SSOE Automotive

69 YEARS
of collaboration

SSOE is a top choice for global automotive manufacturers because of the superior service we provide.

Our dedicated and consistently staffed teams of professionals demonstrate an extensive and diverse portfolio of automotive experience. Our services range from site selection guidance and conceptual planning to complete design and construction management.

We're skilled at tackling the complexities of full assembly projects, including identifying and avoiding potential problems and delays, and delivering significant cost savings. We've designed 12 assembly plants in the last 20 years, including the world's first LEED® Platinum automotive assembly plant, and most recently Nissan's 2.2 million SF assembly plant in Mexico. We've managed multiple projects at global locations with budgets of up to \$1 billion.



THE VALUE OF OUR AUTOMOTIVE DIVISION

\$181,601,004

savings returned to our automotive clients

Our clients have enjoyed cost savings of **173%** of our design fee



savings tracked since 2012

WHAT OUR CLIENTS APPRECIATE ABOUT US*

Creative and cost-effective design solutions.

GOOD SERVICE AND VERY CAPABLE PEOPLE.

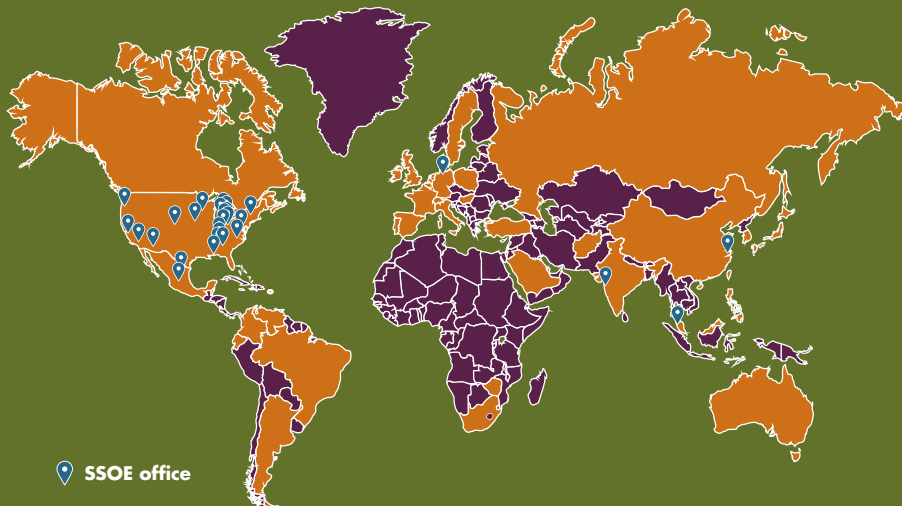
Ability to complete large quantities of work in a fast-paced schedule.

3D BUILDING INFORMATION MODELING ON OUR LARGE PROJECTS.

* in our client satisfaction surveys

WHERE WE'VE WORKED

(highlighted in orange)



SSOE office

40

COUNTRIES WHERE WE'VE WORKED

4,200+

AUTOMOTIVE PROJECTS COMPLETED WITHIN THE LAST 25 YEARS

WHO WE'VE SERVED

American Axle & Manufacturing, Inc.

Beijing Benz Automotive Co., Ltd.

Benteler Automotive Corporation

BMW Group

BorgWarner Inc.

Bosch Braking Systems Corp.

Caterpillar Inc.

Cummins Inc.

Daimler AG

Dana Corporation

Delphi Corporation

Detroit Diesel Corporation

Durr Systems, Inc.

Faurecia USA Holdings, Inc.

FCA US LLC

Filtech, Inc.

Ford Motor Company

Freightliner Trucks

Gallagher-Kaiser Corp.

General Motors Company

Gestamp North America, Inc.

Harley-Davidson, Inc.

Honda Motor Co., Ltd.

Hyundai Motor Manufacturing Alabama, LLC

Inergy Automotive Systems (USA) LLC

Johnson Controls, Inc.

Kenworth Truck Co.

KSM Castings USA, Inc.

KTH Parts Industries Inc.

Lear Corporation

Magna International Inc.

Mercedes-Benz U.S., International, Inc.

Navistar International Corporation

Nissan Motor Co., Ltd.

NK Parts Industries, Inc.

Paccar Inc.

Siemens-Allis

Toyota Motor Corporation

Transportation Research Center Inc.

voestalpine Automotive Body Parts Inc.

Volkswagen AG

Volvo (China) Investment Co., Ltd.

ZF Friedrichshafen AG

WE LISTEN TO OUR CLIENTS

Responses to our Client Satisfaction Surveys are our call to action. When a client identifies an issue that needs improvement, we develop a plan to resolve it. When clients note areas of excellence, we intensify our efforts to continue providing world-class service.

STRENGTHS OUR CLIENTS HAVE NOTED



WHY CLIENTS WORK WITH US*

YOU UNDERSTAND THE WAY WE LIKE TO DELIVER PROJECTS
CUSTOMER FOCUS AND TECHNICAL CAPABILITIES
GOOD COMMUNICATION

TRUST IN YOUR SKILL SET AND YOUR PEOPLE
HIGH QUALITY DESIGN PACKAGES DELIVERED ON TIME
*in our client satisfaction surveys

YOU'RE IN GOOD HANDS WITH A HIGH-RANKING TEAM

SSOE

TOP 5

Automotive Plant Design Firm for the past 9 years (ENR)

TOP 10

Manufacturing Design Firm for the past 5 years (ENR)

TOP 10

International Automotive Assembly Design Firm for the past 5 years (ENR Global Sourcebook)

TOP 100

Green Design Firm for the past 8 years (ENR)

TOP 10

BIM Engineering Firm for the past 5 years (BD+C)

TOP 10

Engineering / Architecture Firm for the past 4 years (BD+C)

TOP 100

Construction Management Firm for the past 4 years (BD+C)

PROJECT TYPES

Support facilities

- Automatic Storage and Retrieval Systems (ASRS)
- Bridges: conveyance, pedestrian, and vehicle
- Data centers
- Distribution centers / parts warehouses
- Fire stations
- Logistics centers
- Offices, locker rooms, and cafeterias
- Paint mix / storage
- Security buildings
- Utility centers
- Visitor centers

Manufacturing

- Body / weld
- Die Casting
- Final trim / assembly
- Foundry
- Frame and chassis

PROJECT TYPES (CONTINUED)

- Machining: heat treatment, mist collection, and scrap handling
- Paint shops
- Plastics injection molding
- Press / stamping
- Subassembly: chassis / frame, engine, and transmission

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 labs: electrical, fuel test, HVAC, instrumentation, material, metrology, and vehicle analysis
- Test sleds
- Test tracks

SPECIALTIES

- Air permitting
- Arc flash studies
- BIM
- Central plant utilities
- Cleanrooms
- Design studios
- Data systems
- Factory automation
- Fire alarm
- Full A/E design services
- Interior design
- 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
- Stress analysis
- Tank farms
- VDC Steel (complete steel detailing)
- Wastewater treatment