

KSM Castings

Counter Pressure Casting (CPC) Facility



SSOE's "one-stop shop" advantage is helping KSM efficiently design and construct a 53,000 SF addition to the existing plant (photo before addition)

Following a highly successful partnership with SSOE on their first U.S. facility — a greenfield high-pressure aluminum castings plant — KSM Castings again called on SSOE to provide design and engineering expertise for a second U.S. facility, a 53,000 SF state-of-the-art counter pressure casting (CPC) facility. The new facility expands KSM's U.S. operations and provides a novel cutting-edge casting technology for automotive components manufacturing.

SSOE provided professional civil, architectural, structural, mechanical, and electrical design services for the CPC facility, incorporating efficiencies developed during the design and carrying those through construction of the aluminum castings plant.

Acting as Owner's Representative, SSOE is planning and coordinated construction activities for the new CPC facility to meet KSM's facility milestones. To streamline project progress, SSOE leverages proven communication strategies based on Virtual Design and Construction (VDC) tenets and used clash coordination within the model to avoid delays during construction.

Early and ongoing communication with all involved parties, including construction contractors, creates a fluid workflow with fewer interruptions, early buy-in, proactive solutions to potential schedule or construction conflicts, and a more successful project overall. KSM is positioned to easily expand in the future.

Size 53,000 SF addition

Location North Carolina

Client Profile

KSM Castings, based in Germany, is a global supplier of lightweight cast products for the automotive industry

Highlights

SSOE was selected for this project based on excellent service on a prior KSM project, where SSOE's intensive value engineering helped KSM reduce estimated completion costs by 33%

Provided architectural and civil, structural, mechanical, and electrical engineering services

Leveraged early and ongoing "whole team" communication and strategizing

"SSOE knows us as a company, so they meet our technical needs. It's very uncomplicated to work with SSOE. They offer us a whole scope, from site selection to architecture and engineering, into construction management. Dealing with only one consultant is very lean and straight forward."

Jan-Christoph Schwarck

*President / Plant Manager
KSM Castings USA*