



## DEVELOPMENT OF SLIDING AXLE TRAILER

### About Our Client

The client is a highly reputable North American company that has made a name for itself as a leader in the corporate trailer business. The client's reputation is built on its commitment to world-class product development, which has allowed it to stay ahead of the competition in the trailer industry.

The client's area of expertise spans various kinds of trailers, designed for different applications such as agriculture, defense, and road paving industries. Their extensive range of trailers ensures that they can meet the unique needs of customers in different sectors.

### Scope / Challenge

The scope of this project required the development of a sliding axle trailer from the initial concept phase through to detailed design, prototyping, and ongoing support in line with the customer's purchase order and benchmarked design. The design process was guided by established standards, processes, and specifications to ensure compliance with the relevant industry regulations and customer requirements. With a focus on cost-effectiveness and quick assembly time, the team has the process data from existing parts and assemblies to optimize the design and develop a sustainment plan to ensure ongoing support for the trailer. The project was to be completed in close collaboration with the customer to ensure that their requirements were met and that the final product met the highest industry standards.





## Solution

The TAAL Tech team initiated the project by conducting a comprehensive input study and analysis of the customer's requirements. This involved gathering detailed information about the specifications, parameters, and performance expectations for the product. The team then proceeded to perform a sizing analysis on the actual parts to determine the optimal dimensions for the design.

Using CATIA V5/3D-Experience, the team developed a conceptual design for the product, which was then presented to the customer for evaluation. Upon receiving approval from the customer, the team proceeded with the detailed design and detailing phase, following the established standards, guidelines, and libraries available to them.

The main model comprised individual parts, sub-assemblies, and assemblies, which were all meticulously designed and documented with manufacturing drawings. This included creating DXF and procurement details that could be used for manufacturing. The team ensured that the deliverables met the highest quality standards, including self, peer, and final quality control checks.

## Results Delivered

The TAAL Tech team was able to execute the project within a tight timeline thanks to their ability to rapidly mobilize resources, provide hands-on training, and work extended hours. The team leveraged their extensive experience and technical expertise to ensure that the design met the customer's exacting standards for quality and performance.

By optimizing resource allocation and implementing efficient workflows, the team was able to deliver high-quality results in a timely manner. This enabled the customer to meet their own deadlines and stay ahead of competitors in the marketplace.

Through their expert handling of the project, the TAAL Tech team demonstrated their deep understanding of the industry and their commitment to delivering outstanding results.



## About TAAL Tech

TAAL Tech is a niche Engineering and Technology solutions provider serving global corporations in their pursuit for faster innovation. Our vision is to be a leader in providing innovative, high value engineering & technology services to global corporations. Meet our team and learn more about us.

