



## CLIENT CASE STUDY



Global automotive parts manufacturer wants to start manufacturing and sales for the local market



## About Jost India Auto Components

Jost India Auto Components Pvt. Ltd. is a 100 % Owned subsidiary of the Jost Group, Frankfurt, Germany. Manufacturer of safety critical systems for trucks & trailers.

## Project Summary

**Project: Industrial Manufacturing Plant to Produce Fifth Wheel Couplings for Tractor-Trailers, located at Adityapur Industrial Area, Jamshedpur, Jharkhand**  
**Land Area: 15 Acres Built-up Area Factory Buildings : 8000.00 Sq.Mtrs**  
**Office Building : 1800.00 Sq.Mtrs**



### Challenges

They were looking for Flexi-Layout design to encrease production and speed up delivery



### Solution

Delivered a single-view holistic design for flexi-Layout and maximum mobility of machines in shop floor



### Impact

Ambient production areas and ergonomic designs for people at work

# ABOUT THE PROJECT



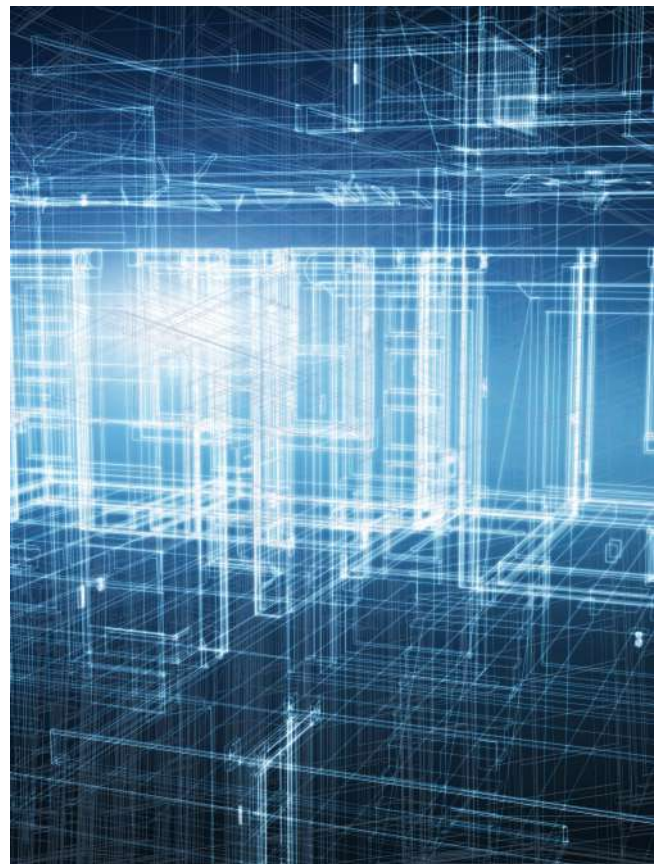
About the Project: The main factory is constructed in PEB structure, multi-span, 72 Mtrs wide x 90 Mtrs Long with crane bays, mezzanine office for plant offices. The Utility and Services building is 75 Mtrs Long. The factory flooring is suitable for flexible layout and is fibre reinforced. The flooring is provided with colour hardener and sealed using concrete thickener sealer so that water and lubricating oil shall not penetrate in to the flooring. The factory houses heavy duty hydraulic presses up to 2000 Tons capacity, Automated paint shop, welding robot stations and assembly stations. The office building is constructed in multi-story PEB structure, and centrally air-conditioned.

## SOLUTION DELIVERY

- Master Planning
- Infrastructure Design
- Architectural Design
- Structural Design
- MEP Design
- Detailed Engineering
- Plant Engineering
- Equipment Foundations
- Procurement and Tendering Support
- Contract Administration
- Commissioning and Qualification of Utilities and Services
- Statutory Approval Drawings and Documentation for Local Authorities and PESO

### Utilities and Services

- Compressed Air
- Electrical System
- Welding Fume Extraction System
- Effluent Treatment
- Fire Protection System
- Sewage Treatment
- Water Treatment
- Fire Risk Management System
- Central Air-conditioning
- LPG Storage and Distribution System
- Raw Water Collection, Storage, Treatment and Distribution System
- Rainwater Harvest System



## BUSINESS IMPACT

Delivered high performing sustainable sites with  
 Increased Water Efficiency,  
 Increased Indoor Environmental Quality  
 and Increased Energy Efficiency  
 with best management practices such as  
 Energy-efficient glazing and lighting,  
 operable windows in both the  
 manufacturing plant and office locations  
 Higher satisfaction overall with the  
 building, especially the daylight, windows,  
 electric lighting, air quality, and  
 connection to nature.

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 THE SITE FINALLY  
 HAD A WORK  
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## ABOUT BESTEN

**Besten is a 25 years old design house specializing Industrial designs, Industrial factory layouts and production plants.**

**As design specialist for Industrial architecture, our industrial design solutions cover green energy design, lean manufacturing and robotic productions.**

**Besten provides innovative design solutions to both green field and brown field industrial projects for optimised design, save cost and increased production capacity.**

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