

WHERE TO REACH US



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INTRODUCTION

We are into the fabrication of Aircraft fuelling equipment such as Refuellers, Dispensers, Pit cleaners & Additive injection trollies. Trading, supply & manufacturer of components used in Aircraft fuelling equipment. Design, consultancy & development of Special Purpose components & Vehicles



Aircraft Refueling System Manufacturer



www.hrautosolutions.com

WHO ARE WE?

HR Auto Solutions is a trusted Indian manufacturer of aircraft refueling systems, established in 2017. Backed by a passionate team from the aviation fueling industry, we specialize in delivering reliable and efficient refueling solutions for both civilian and defense sectors.



WHY US?



HR Auto Solutions stands out for its industry expertise, quality craftsmanship, and commitment to global standards. With over 100 refueling trucks delivered, we ensure efficient, reliable, and cost-effective solutions for both civil and defense sectors.



MANUFACTURER

HR Auto Solutions manufactures reliable, high-performance aircraft refueling systems for both civilian and defense use. Our products are built to meet international standards, with a focus on quality, safety, and cost-efficiency.

Maintenance & Services

We offer complete maintenance, repair, and support services to ensure your refueling equipment operates smoothly. Our responsive team is committed to minimizing downtime and maximizing performance.

LET'S US HELP.

Aircraft Refueller

01.

When you've decided on your cover story.

02.

Hydrant Dispensers

Come up with a list of topics for your feature.

03.

Pit Cleaner

This can range from interviews, product reviews.

04.

Trading & Design

Think about what your audience would be.



HR AUTOSOLUTIONS

Precision in Every Connection



Aircraft Refuelling Designing



Trade /Supply and Manufacturing Product

Introduction

We offer complete 2D Drawing/Drafting & 3D Assembly/Modeling services along with Fabrication and Consultancy for Special Purpose Vehicles. In addition, we trade in all kinds of Aircraft Fuelling related equipment and raw materials, including post-processing solutions for any development requirements



Objective

- Deliver aircraft refuelling trucks that meet global aviation safety standards.
- Manufacture durable and efficient fuel handling components that integrate seamlessly with field operations.
- Provide clients with ready-to-install systems and OEM-compatible parts, reducing downtime and cost.
- Support MSMEs and aviation service providers with accessible, high-quality engineering solutions made in India.

Methodology

- 01 ➤ Design & Concept Development - Detailed 2D drafting and 3D modeling of aircraft refuelling trucks and fuel handling systems, ensuring optimized performance, safety, and maintainability.
- 02 ➤ Prototype & Simulation Testing - Virtual and physical prototypes are tested for pressure, flow rate, vibration, and endurance to validate design efficiency and operational reliability.
- 03 ➤ Precision Manufacturing - In-house fabrication of key components such as FDF valves, hose reels, swivel joints, and interlock panels using advanced machinery and strict quality protocols.
- 04 ➤ System Integration & Assembly - Mechanical and electronic subsystems - including PLC and relay interlock systems - are integrated and calibrated to ensure seamless coordination and safety in real operations.
- 05 ➤ Validation & Field Testing - Final systems undergo multi-stage inspections, endurance tests, and live field trials to confirm compliance with aviation and industrial performance standards.



Results

Our integrated design and manufacturing approach delivered refuelling systems with improved reliability, safety, and efficiency. Field-tested PLC and relay interlocks ensured zero-incident operations, while optimized fuel flow reduced downtime and maintenance. With over 100 refuelling trucks deployed across 21+ states, HR Auto-Solutions continues to deliver trusted, high-performance solutions that meet global aviation standards.



Analysis

- As part of our commitment to engineering excellence, we conducted a detailed analysis of the aircraft refuelling process and its supporting systems.
- Our study focused on performance, safety, and reliability challenges faced in both vehicle-mounted fuelling systems and individual components such as hose reels, swivel joints, valves, interlock systems, and control units.
- We analyzed operational data from airside environments, assessing pressure variation, flow loss, safety interlocks, and material durability under real-world conditions.

Conclusion

- Our systems deliver higher operational efficiency, reduced maintenance, and superior safety performance.
- With over 100 refuelling trucks built and delivered across 21+ states, and a comprehensive portfolio of 40+ engineered components, we continue to push boundaries in precision, reliability, and innovation.
- This continuous cycle of analysis, development, and improvement drives our mission -
- To engineer world-class fuelling solutions that empower safe and efficient aviation operations.

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