

Advance Mechanical Services Private limited



AMS-India is an Organization established in Bangalore to cater to the increasing needs of the Automation, Additive manufacturing and IOT industry.

The Organization has the infrastructure to deliver quality design services to various customers locally as well as globally. The company has 3 design offices in Bangalore located in Shivajinagar and Peenya with a capacity of 140 design seats. It has regional sales offices across 9 cities in India in addition to offices at Germany and USA.

The Organization has recruited competent Engineers with good background in the field of Mechanical / Electrical design and procured state of the art software and hardware backed up by efficient communication facilities to undertake assignments related to design of Robotic cells , Special purpose machines, fixtures & tooling and other specific requirements of the Robot based automation industry.

AMS-India's Engineering Service Portfolio:

Automotive Body shop Engineering capabilities include BiW Tooling & Fixture Design, Digital Manufacturing, Discrete Event Simulation, Ergonomic Analysis, Factory Layout and Documentation for various OEM standards including GM, Daimler, BMW, VW, FORD, Audi and Volvo.

Automotive Tool Design capabilities include design of various tools such as Load Fixtures, Geometry Fixtures, Re-Spot Fixtures, Passing Tables, Racks, Trunnion Fixtures, Ped Welders, Gun Stand, Glue Stands, Gripper Stands, Stud & Nut Welders, Grippers, Assembly Fixtures, Roller Hemming Fixtures, Hand Tools, Checking Fixtures, Framing Station Fixtures, Conveyor Pallets, Part Hangers, Curing Tools, Pull-off Carts, Laser Application Fixtures, including fixtures for some Special Applications such as Piercing Units, Manual Hoists for various Applications such as Spot Welding, Arc Welding, Laser Welding, Stud/Nut Welding, Roller Hemming, Gluing, Material Handling, Machine Tending, Press Automation and for Curing, Clinching and Measuring applications. We also have the experience on various customer standards such as KBTD, FIDES, Daimler Add-on, Carisma, KVS, KSL etc.

Documentation capabilities include preparing Process Sheets, Clamping Plan, Weld Study/Gun Design, Spot Distribution, Gun Section/Gun Drawings, Operations Sequence, Cycle Time Sheet, Pneumatic Diagram, Cylinder & Switch Sheet, Ergo Sheets, Clamp Validation/Design Calculation Sheet, Robot Payload Analysis, Simulation and OLP Documentation

Introduction to AMS India



Power train Activities include design of various stations for Engine Assembly such as Washing, Leak testing, Pin pressing, Rundown and stations for assembly of Water pump, Oil filter, Crank sprocket, Front cover, Flywheel, Intake manifold etc.

Battery line Engineering include design of various stations for battery packs or battery modules such as Cells for loading & OCV test, Cells for plasma cleaning, Cells for taping & inspection, Cells for grouping, Module stacking, Side plate gluing & inspection, Module heating & curing and pad pasting

Aerospace Tool Design capabilities include design of various tools such as Lay Up Tools , Trim Tools, Drill Templates, Mill Fixtures, Secondary Mill Fixtures, Final Assembly Jigs, Bonding Assembly Jigs, Assembly Jigs, Hydro form Dies, Hand Weld Fixtures, Stretch Form Tools, Profile Tools , Joggle Dies, Form Dies, Die Sets, Trim & Drill Jigs, Assembly Fixtures, Pallet Fixtures, Transport Fixtures and Conveyor Tooling, Dies for composite parts, Riveting Tool and Lift Assist Tools

The company has a team of Controls Engineers and Robot Programmers with the capability of engineering and programming (Online and Offline) Industrial Robots, PLC / HMI's and Drives.

The Software tools that we use include Solid Works, CATIA V5, UG NX, Fides, ProE, and ZW CAD for Design and Check, Delmia, Process Simulate and RobCAD for Simulation, Eplan for Controls, TIA portal for PLC and HMI programming and ATMAS for Program Management.

For further inquiries please Contact:

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