## **Heavy Engineering Solutions**



Your End to End Engineering Partner



#### Construction Excavators | Loaders | Dozers | Largest ESP for a major Compactors | Batching Plants | construction equipment Pavers | Concrete Pumps | Mixers 3+ Decades **Agricultural Material Handling** of Experience Part of core NPD and Planting Equipment | Tractors | Balers Cranes: Mobile, Port, Crawler, Sustenance programs | Pickers | Harvesters | Cultivators | All Terrain, Tower Aerial Work Platforms | Scissor Thrashers | Post-Harvesting Concept stage Detail Design Equipment | Loggers Lifts | Conveyor Systems Validation & Testing End - End Productionization Engineering phase After Start Production **Heavy** Engineering IT & PLM **Engineering** Structures & CAB **Product** • Engines & Powertrain • Electrical, Lube & **Experience** Hydraulic systems Autonomous, Machine Focus Area control, Off board & Safety systems, Telematics, Fleet management Digital Manufacturing Mining Specialized Shearers | Dump Trucks | Entry Snow Mobiles | Turf Maintenance • ISO 9001:2015 OEM Design Developers | Dozers | Drills | Equipment | Refuse Trucks | Certification Long Wall | Shovels | Continuous Waste Compactors | Gold Carts methodology & Ecosystem Manufacturing and Miner Supply chain Premier Institutions

## **METRICS DELIVERED**



**Saved \$1M** a year for a large and medium engine manufacturer through VME, tooling and VDRA projects.



Improved quality of hydraulic valve and pump assemblies by increasing **first time right** from 87% to 90%.



Delivered **75000+ drawings** per annum for a major Construction Equipment OEM.



**Improved utilisation** of transmission assembly line from 70% to 80%.



**Reduced setup time** in loader frames machining shop from 60 mins to 30.



**Reduced cycle time** in a fabrication shop by 20%.



Achieved **zero recordable injuries** in a manufacturing unit.



Implemented line balancing & time standard techniques in axle and radiator sub assembly units, increasing unit efficiency by 10%.

Analysis (Static, Linear, Non-Linear, Dynamic, Fatigue, Durability, Impact, CFD) Design Verification Homologation

Harness Installation
System Integration
Mechanical / Electrical Routings
Tubing & Piping
Hydraulics & Drivelines
Large Fabrications

VAVE
Localization
Reliability & Life Extension
Failure and Fatigue Analysis
Warranty Analysis
After Market Part Design

Manuals (Maintenance, Service, Operator, Installation & Setup Guides) AMM, IPC, CMM, IPL, etc.

Product Design & Definition

> Engineering Analysis & Certification

Certification

Embedded and Electronics

> Mechanical 8 Electrical System Installation

Manufacturing Engineering Services

> After Sales Product Support Services

Product Lifecycle Management

> Technical Publications

System Engineering
DFMA / DFMEA
Design Automation
Configuration & Assembly
Continuous Product Development
Value Engineering

Telematics
Instrument Cluster
Operator Assistance
Base machines
Machine Control
Autonomous / Semiautonomous

Digital Manufacturing Prototyping Tool Design CNC Programming Jigs, Fixtures, etc Engineering Software Development
Teamcenter Customization
Legacy Application Migration
Engineering application development & maintenance
Support for Digital Initiatives

## **COMPETENCY OVERVIEW**





AXISCADES is a leading, end to end technology solutions and product company. We bring expertise that caters to the digital, engineering and smart manufacturing needs of large enterprises. With decades of experience in creating innovative, sustainable and safer products worldwide, AXISCADES delivers business value across the entire engineering lifecycle.

Our deep domain expertise and engineering solution portfolio covers the complete product development lifecycle from concept evaluation to manufacturing support and certification for the Aerospace, Defense, Heavy Engineering, Automotive & Industrial Products, Energy and Medical Devices.

AXISCADES is headquartered in Bangalore and has offices across India, North America, Europe and the Asia Pacific region.

## Global Footprint, a step closer to customers

### Multinational teams

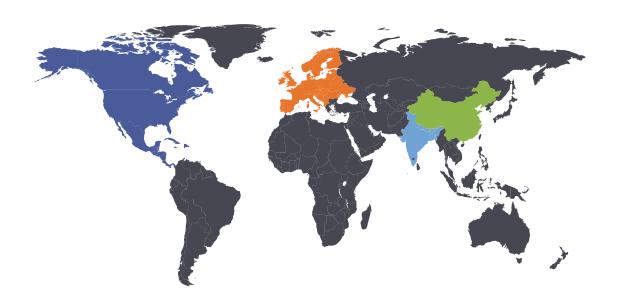
Engineers delivering customer delight



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### Global Engineering Centers

State of art Global Engineering Centers to reduce the program risk & time to market



### North America

Peoria, Illinois - USA Columbus, Indiana - USA Tucson, Arizona - USA Greenville, SC - USA SFO, California - USA Montreal - Canada

### Europe and UK

Leicestershire, Saltney - UK
Toulouse, Saint Nazaire - France
Hamburg, Donauworth, Augsburg - Germany
Copenhagen - Denmark

### India

Bengaluru (3) Chennai Hyderabad Noida

### China

Wuxi City