

ADVIKA

**AUTOMATION AND
ENGINEERING
SOLUTIONS**

@ADVIKAAES WE BRIDGE THE GAPS...

ABOUT US....

About us



We have 30+ Years of Experience in Industrial Automation, Maintenance and Engineering Solutions

We are MSME and GST Registered Company



NPC BEE Certified Energy Manager

CII Certified Six Sigma Black Belt

Pan India Authorised Partner for InnoMaint Software



Industrial Automation, Control Panels, Test Rigs, SPMs, Spares supply and Service support

Energy and Electrical Safety Audits, CMMS, SaaS and CRM Software

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OUR VERTICALS



Industrial Process
Automation, SPMs
and Test Rigs.
Retro-fitment and
System Up-
gradation
CNC Solutions
Fabrications

Energy Audits,
Renewable Energy
Projects and
Energy
Management
System
Electrical and Fire
Safety Audits

InnoMaint CMMS
for Asset
Management,
CRM and SaaS
Machine Data
Management
I4.0 Support

Home and Office
Automation,
Building
Management
System

INDUSTRIAL AUTOMATION



PROCESS AND FACTORY AUTOMATION

- Test Rigs, Equipment and SPM - Design and Development as per requirement.
- Control Panel Building, Retro-fitment and Up-gradation using PLCs (Programmable Logic Controllers), HMIs (Human Machine Interfaces), VFDs (Variable Frequency Drives) and Servo System of various makes like Mitsubishi, Siemens, Allen Bradley, Delta, Schneider, etc
- Process Automation and Factory Automation, SCADA Based Projects
- IIoT – Industry 4.0 Based Applications
- Material Handling Automation, Automated Conveyors and Loading Systems.
- CNC Maintenance, Retro-fitment, Reconditioning work and AMCs

INDUSTRIAL AUTOMATION



FABRICATED EQUIPMENT AND FABRICATION SUPPORT

- SS, MS, Copper, Brass Fabrications
- Fabricated Enclosure Panels, Enclosures for Electrical application
- Heavy Fabrication Equipments like Pressure vessels, Heat Exchangers, Distillation Columns, Vapour Liquid Separators, Falling as well as Forced Circulation Evaporators, Bag Filters and Allied Equipments with Erection and Commissioning.
- Fabricated Sheds

AUTOMATION AND ENGINEERING SOLUTIONS

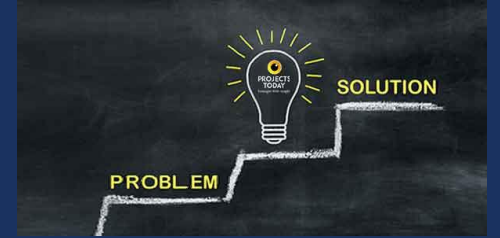


Machine Up Time and Idle Time Monitoring Panel with Data Logging Facility using Mitsubishi PLC HMI System in MNC

Benefits:

Exact monitoring and control of OEE
No Manual Intervention / Manipulation
Real Time Data Monitoring and Analysis

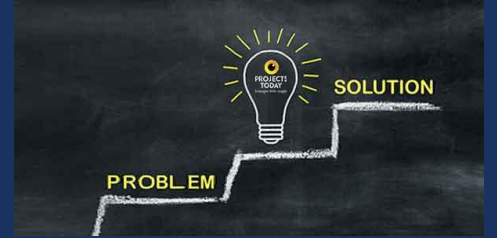
AUTOMATION AND ENGINEERING SOLUTIONS



Oil Seal Pressing Unit Poka Yoke using PLC
Control Panel for Engine Assembly Line in
Engine Manufacturing MNCs

Benefits:
Quality Issues were resolved
Reduced Operator Fatigue
Tact Time Reduced

AUTOMATION AND ENGINEERING SOLUTIONS

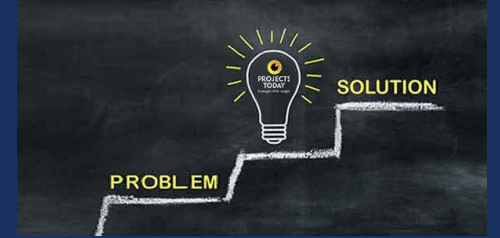


PLC HMI based Control Panel for Engine
Coolant Temperature Thermal Shock Unit for
Engine Testing in Automobile MNC

Benefits:

- Quality Issues were resolved
- Precise Control and Testing
- Easy Setting

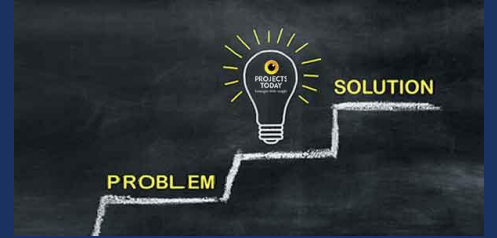
AUTOMATION AND ENGINEERING SOLUTIONS



Engine Coolant Temperature Conditioning Unit using PLC HMI based Control Panel for Engine Testing in Automobile MNC

Benefits:
Quality Issues were resolved
Precise Control and Testing
Easy Setting

AUTOMATION AND ENGINEERING SOLUTIONS



Mitsubishi GOC PLC based Control Panel
for EV Motor Testing and Soaking
Chamber for Automobile MNC

Benefits:
Quality Issues were resolved
Precise Control and Testing
Easy Setting

ENDURANCE AND DURABILITY TEST RIGS



TESTRIGS FOR ENGINE COMPONENT VALIDATION

Low Pressure Durability Test Rigs:



- **Hydro Pulsation Test Rigs for Engine Fuel Filter**
 - Pressure 0 to 25 bar based on ISO 4548 -5-2013(E) standard
- **Hydro Pulsation Test Rigs for Low Pressure Fuel Circuit**
 - Pressure 0 to 25 bar based on ISO 4548 -5-2013(E) standard
- **Hydro Pulsation Test Rigs for Engine Oil and Coolant Filters**
 - Oil Pressure 0 to 25 bar and Coolant Pressure 0 to 10 bar with 55 deg C
- **Hydro Pulsation Test Rigs for Engine Oil Coolers**
 - Oil Pressure 0 to 15 bar based on ISO 4548 -5-2013(E) standard

ENDURANCE AND DURABILITY TEST RIGS



TESTRIGS FOR ENGINE COMPONENT VALIDATION

High Pressure Durability Test Rigs:

- Hydro Pulsation Test Rigs for Engine Crank Case and Liner
 - Hydraulic Pressure 0 to 350 bar based on ISO 4548 -5-2013(E) standard
- Hydro Pulsation Test Rigs for High Oil Pressure Testing
 - Hydraulic Pressure 0 to 400 bar based on ISO4548 -5-2013(E) standard
- Hydro Pulsation Test Rigs with Low Viscous Oil for Cylinder Heads
 - Hydraulic Pressure 70 bar based on ISO4548 -5-2013(E) standard



ENDURANCE AND DURABILITY TEST RIGS



TESTRIGS FOR ENGINE COMPONENT VALIDATION



- **Hydro Pulsation Test Rigs for Engine Rocker Covers using Air**
 - Air pressure 0 to 7 bar based on ASTM F-37 Standards
- **Test Rigs for Engine Lubrication Oil Pump Durability Test**
 - Flow and Pressure was measured, relief valve was tested for opening. ISO4548 -5-2013(E) standard was referred for designing the test rig
- **Test Rigs for Engine Coolant Pump Durability Test**
 - Flow and Pressure was measured, ISO4548 -5-2013(E) standard was referred for designing the test rig

CNC AND SPM FOR MANUFACTURING PLANTS



MANUFACTURING LINE AND ASSEMBLY LINE (CNCs and SPMs)



- Retrofitment of CNC machines for Crankcase Boring, CNC Lathe for Cylinder Head machining, Crankshaft Induction Hardening etc
- Various SPMs for Grinding, Boring, Milling, Drilling, Pressing. Centering and Facing operations, Oil filling, Pump Testing, Angular Torque and Tightening, Conveyor Lines, Tilters, Indexers, Lifters etc
- Over Head Cranes remote operated, automatic loading and unloading system, Facility Services and AHUs Automation
- Machine Reconditioning, System Upgradation, Poka Yoke activities on SPMs and Assembly Lines

OTHER EQUIPMENTS AND TEST UNITS



OTHER TESTs and ASSEMBLY LINE EQUIPMENT



- Coolant Passage Leak Test Units
- Lub Oil Passage and Air Passage Leak Test Units
- High Pressure and Low Pressure Hydraulic Power Packs
- Automatic Component Loading in Furnace
- Control Panels for EOT Cranes, Hammer Press Machines etc
- Training Centres and Laboratory Equipments and Up-gradations

INDUSTRIAL SPARES AND SERVICES....



We provide...

- Various PLCs, HMIs, VFDs like ABB, Mitsubishi, Siemens, Allen Bradley, Delta, Schneider, CG etc. Based Control Panels and Programming Support,
- PLC-SCADA Based Projects. NI LabVIEW based SCADA Projects.
- All types of Electrical and Electronics Spares, Hydraulic and Pneumatic Spares, All types of Sensors and Instrumentations, IIoT based Sensors and IO Modules.
- CNC Maintenance, Retro-fitment, Refurbishing, Plant Maintenance Services and AMCs. Maintenance Software. Plant and Machine Relocation. IIOT 14.0 based support for CNC Machine Plant, Networking Solutions and Spares. MDM- Manufacturing Data Management. Automated Conveyors, Various types of Conveyor Automation, Automatic Component Loading / Unloading System and Automated MH System.

ENERGY



ENERGY AUDITING AND ENERGY MANAGEMENT SYSTEM

- Energy Audit, Electrical & Fire Safety Audit through BEE Certified Energy Auditors
- Renewable Energy Projects, Solar Panels and Solar Parks from Designing to Proving
- Energy Saving Projects and Energy Management System
- Energy Auditing, Power Quality Analysis, Energy Monitoring Systems, EnCon Projects, APFC Panels, Power Distribution Panels, Energy Meters.
- Reactive Power and Harmonics Management Solutions.
- Technical Consultation, Energy Management Consultation, Green Building Projects Consultation by Team of Certified Energy Auditors and Energy Managers from BEE (Bureau of Energy Efficiency – Govt. of India)

INNOMAIN CMMS, SAAS AND CRM



CMMS (Computerized Maintenance Management System), SaaS (Software as a Service) and CRM (Customer Relationship Management) Software for

- Asset Management with OEE-MTTR-MTBF monitoring,
- Spares Management,
- Facility Management,
- Hotel Management,
- Educational Institutes,
- Hospitals and Health Care Centres,
- Visitor Management
- Energy Monitoring System

OUR DELIGHTED CUSTOMERS



- BAJAJ AUTO LIMITED
- TRIMARS ENGINEERING
- MAHINDRA AND MAHINDRA
- SWARAJ ENGINES LIMITED
- PENTASTRA ENGINEERING LLP
- RAJIV PLASTICS PVT LIMITED
- AMERICHEM POLYMERS INDIA PVT LTD.
- MALGUDI CRANES AND ASSOCIATES
- PDEA COLLEGE OF ENGINEERING
- FENIX PROCESS TECHNOLOGIES LTD
- COOLING SYSTEMS INDIA PVT LTD
- BG AUTOMATIONS
- TOR.AI

WE ASSURE CUSTOMER'S DELIGHT



@ADVIKAAES WE BRIDGE THE GAPS...

REACH US AT....



For all types of SPARES, SERVICE and SUPPORT in AUTOMATION , ENGINEERING & ENERGY

ADVIKA

AUTOMATION AND ENGINEERING SOLUTIONS

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Write to us on **advikaaes@gmail.com ; enquiry@advikaautomations.com ; amitkisar.aes@gmail.com**

Visit us at **Registered Office:** J-105, Ganga Aashiyana, Near Aditya Birla Memorial Hospital, Opp Noorya Homotel, Chinchwad - Thergaon Link Rd. Chinchwad, Pune – 411033, Maharashtra.

Work Office: D-3, 'D' Block, World Of Mother Commercial Complex, Behind Jai Ganesh Vision Commercial Complex, Akurdi - Chinchwad Link Rd. Akurdi, Pune – 411035, Maharashtra.

Website **www.advikaautomations.com**

Our GST No. **27BSGPK2777R2ZT**

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