

# ADVIKA

**AUTOMATION AND  
ENGINEERING  
SOLUTIONS**

# ABOUT US....



**ADVIKA**  
Automation and  
Engineering Solutions



We have 33+ Years of Experience in Industrial Automation, Maintenance and Engineering Solutions.

We are MSME, GST, GeM and IEC Registered Company



NPC BEE Certified Energy Manager (Govt, of India)

CII Certified Six Sigma Black Belt

ISO Certified Company



Key Products: Industrial Automation, PLC HMI VFD based Control Panels, Test Rigs, SPMs, Spares & Service support. IoT Data Extraction and DAQ, ERP, CMMS, SaaS and CRM Software, SCADA Projects, Energy Audit, Electrical and Fire Safety Audits, Energy Management System

# OUR VERTICALS



Industrial Process Automation, Customised SPMs and Test Rigs.  
PLC-HMI-VFD based panels  
IIoT enable applications with Cloud /Server based storage  
PLC-CNC Retro-fitment and System Up-gradation  
CNC Solutions, Maintenance and AMCs

Energy Audits, Renewable Energy Projects  
Energy Management System  
Electrical and Fire Safety Audits  
Power Factor Correction  
Open Access Solutions  
Energy Saving Products and Spares

IoT based applications for Data Extraction, Data Management, DAQ Systems  
SCADA based Projects  
CMMS for Asset Management,  
CRM and SaaS  
Machine Data Management, OEE Monitoring  
ERP Software development

Home Automation, Office Automation,  
Building Management System  
Provision of PA Systems  
Fire Panels  
Flameproof Applications  
Process Equipments supply  
Technical Consultation

# 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
- Material Handling Automation, Automated Conveyors and Loading Systems.
- CNC Maintenance, Retro-fitment, Reconditioning work and AMCs

# INDUSTRIAL AUTOMATION



## IOT based Projects

- IOT Industry 4.0 Based Data Extraction from Machines and Equipment
- Using IOT devices for Data Management, OEE Monitoring, Maintenance Management, Energy Management with Data Storage on Cloud or Server
- Data Acquisition Systems and SCADA Based Projects
- IOT enabled Sensors and Data Generating Equipment.

# OUR ONGOING PROJECTS : IOT 4.0 BASED DATA EXTRACTION PROJECT



Presently we are working on Data Extraction Project, Data Generating OBE Projects using IOT Enabled Devices and Data Management over Server with Customised Dashboard and Interface with ERP across various MIL Plants pan INDIA


Benefits:

Real Time Data Measuring, Monitoring and Analysis of various Process Parameters

No Manual Intervention / Manipulation

Interface with ERP and Report Generation

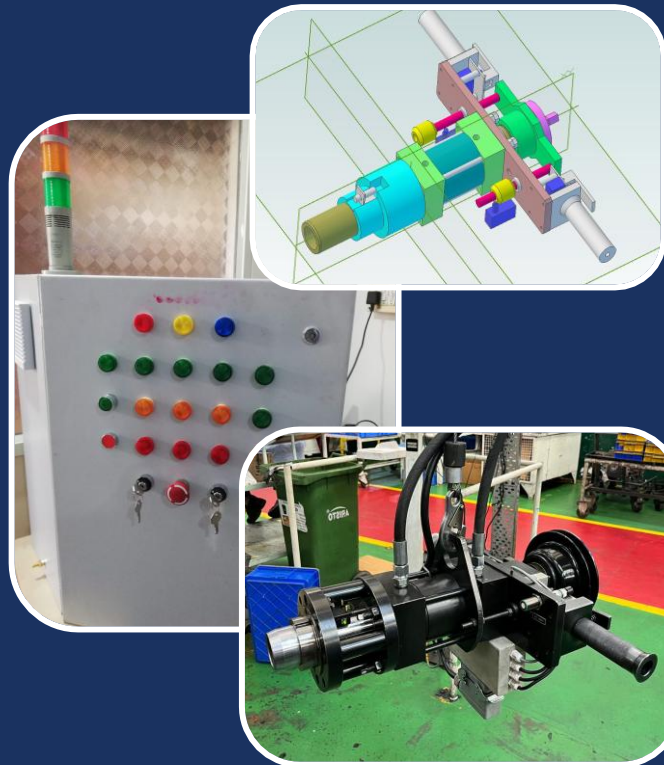
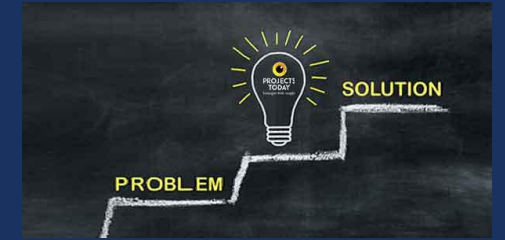
# AUTOMATION AND ENGINEERING SOLUTIONS



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

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

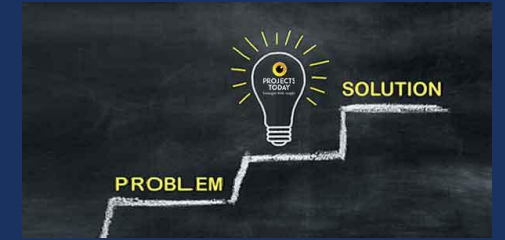
# AUTOMATION AND ENGINEERING SOLUTIONS



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

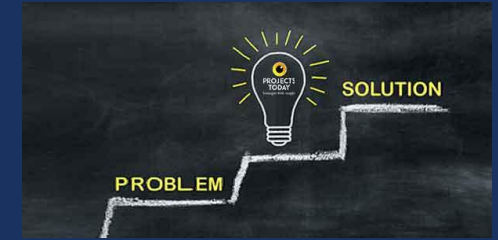
# AUTOMATION AND ENGINEERING SOLUTIONS



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

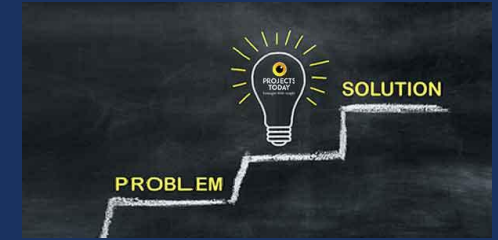
# AUTOMATION AND ENGINEERING SOLUTIONS



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 Thermal Soaking Chamber for  
Endurance Testing of EV Motor Testing  
Automobile MNC

Benefits:

Quality Issues were resolved  
Precise Control and Testing  
Easy Setting

# ENDURANCE AND DURABILITY TEST RIGS



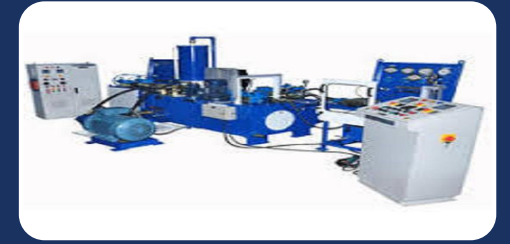
## TESTRIGS FOR ENGINE COMPONENT VALIDATION

### 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



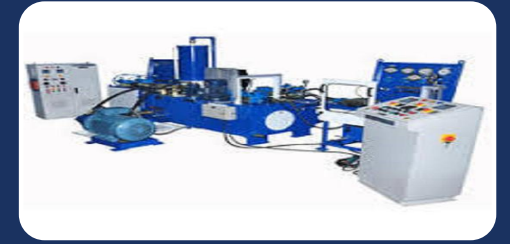
## TESTRIGS FOR ENGINE COMPONENT VALIDATION

### 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)



- Retro-fitment 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 Up-gradation, 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 projects 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 AND ELECTRICAL SAFETY AUDITING



## 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)

# ENERGY AND ELECTRICAL SAFETY AUDITING



## ELECTRICAL AND FIRE SAFETY AUDIT

- Electrical & Fire Safety Audit of entire Plant
- Power Quality Analysis at all Incomers Distributions
- Thermography of Electrical Installations and Heat Treatment Section
- Leakage Current Test
- Earth Tests of Earth Pits
- Training and Awareness Program for Department Heads and Section Supervisors
- Educating Team to Enhance their knowledge for Electrical Safety and Fire Safety, PM Process etc. Helping them to close their previous Audit findings.

# CMMS, SAAS AND CRM



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

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

## OUR DELIGHTED CUSTOMERS



- MUNITIONS INDIA LIMITED AND DEFENCE RELATED VARIOUS PLANTS ACROSS INDIA
- C4I4 – SAMARTH Udyog Technology Forum
- BAJAJ AUTO LIMITED – PUNE
  - TRIMARS ENGINEERING
- MAHINDRA AND MAHINDRA -  
SWARAJ ENGINES LIMITED,  
CHANDIGARH, PUNJAB
- PENTASTRA ENGINEERING LLP PUNE
- RAJIV PLASTICS PVT LIMITED PUNE
- AMERICHEM POLYMERS INDIA PVT LTD.  
PUNE
- MALGUDI CRANES AND ASSOCIATES,  
PUNE
- PDEA COLLEGE OF ENGINEERING, PUNE
- FENIX PROCESS TECHNOLOGIES LTD  
PUNE
- COOLING SYSTEMS INDIA PVT LTD.  
PUNE
- BG AUTOMATIONS. BENGALURU
- TOR.AI, PUNE
- JAI BHAWANI MATA ENGITECH PRIVATE  
LTD, PUNE

WE ASSURE CUSTOMER'S DELIGHT



REACH US AT....



**ADVIKA**  
Automation and  
Engineering Solutions

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

# ADVIKA

## AUTOMATION AND ENGINEERING SOLUTIONS

Call us on +91 9689904607, 8208112842, 9822035501, 9850602521

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Visit us at **Registered Office:** J-105, Ganga Aashiyana, Near Aditya Birla Memorial Hospital, Opp. Lemon Tree Hotel, Chinchwad - Thergaon Link Road, Chinchwad, Pune – 411033, Maharashtra.

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

**Area Offices: Software:** Baner Pune, **Hardware and Software:** Ahilyanagar, **Workshops:** Pune and Kolhapur.

Website [www.advikaautomations.com](http://www.advikaautomations.com)

Our GST No. 27BSGPK2777R2ZT

[WWW.ADVIKAAUTOMATIONS.COM](http://WWW.ADVIKAAUTOMATIONS.COM)

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THANK YOU....

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