Welcome To

YANTRNA SYSTEMS
Introduction

Yantrna Systems is an Industrial Automation solution provider and Engineering design/Development company.

We have strong background of Process Automation and Electronic/Electro-mechanical development and various mfg processes, end to end solutions.

Our Vision is to satisfy our client by providing one step ahead solutions of their requirements.

We believe in simplicity and most advance technology adoption in any of our Developments, Engineering and automation solutions.

Ensures that our client can depend and rely on us for all their aspects towards foolproof, cost effective and Productive solutions.
Our Core Capabilities

- Automation
- Process Control & Monitoring
- Zig And Fixtures, Gauges
- Material Handling systems
- Customized Product development
- Product Marketing
- Component validation and testing
Automation

- **Industrial, Plant, Process Automation.** (Process control systems / Process monitoring systems)

- **SPM** (Special purpose Machines)

- **Robotics** (Assembly And Test Equipment)

- **Assembly Fixtures** - Zigs And Fixtures, Gauges, System Interlock & Poka Systems.

- **Material Handling Systems and Conveyors.**

- **Existing instruments**, test setup, machine automation – (retrofit solutions)

- **Lab view based** Controls and automation systems

- **PLC, SCADA, Embedded** based instruments. Panel assembly and panel wiring.
Industrial, Plant, Process Automation.

Assembly Line Design Solution

PLC SCADA Solutions

Remote Monitoring Solution

Front End PC Software solution
SPM
Customized systems and machinery

ELECTRICAL
MOTORIZED
AUTOMATION MACHINES

PLC SCADA
Systems Solutions

PNEUMATIC
AUTOMATION MACHINE
SOLUTIONS

AUTOMATIC FEEDING
SYSTEMS
Robotic arm and systems (under development)

- Robotic arm for assembly
- Customized solutions
- ROBOTIC ARM
- CUSTOMIZED SOLUTION
- SMALL ROBOTIC
- XY AXIS MATRIX SYSTEM
- ROBOTIC ASSEMBLY LINE
- CUSTOMIZED SOLUTIONS
PLC SCADA Embedded Systems

PLC SCADA Complete end to end solution

SYSTEM SOFTWARE

SYSTEM HARDWARE

Embedded Monitoring systems
Conveyor systems

- ROLLER CONVEYOR
- CUSTOMIZED PVC LINK CONVEYOR
- CHAIN CONVEYOR
- PVC BELT CONVEYOR
Andon Display

Production Monitoring Display

LCD Based Monitoring Display
Zigs and Fixtures

- Semi Automatic Assembly Fixtures
- Manual Assembly Fixtures
- Inspection Fixtures

All Kind of Fixture Designing and Manufacturing
Material Handling Systems

Over head cranes, push pull trolley systems

ALL KIND OF TROLLYS MATERIAL STORAGE RACKS, LIFTING EQUIPMENT

Assembly Tables
Component Validation and Testing

- Environmental testing
- Endurance testing
- Life cycle / performance test

Facility

Environmental testing
- Thermal Shock
- Accelerated life testing
- Vibration test with environmental temperature -40°C to +120°C
- Cyclic environmental testing Hot chamber
- Cold Chamber
- Dust test
- Water spray test
- Vibration test
- Salt spray
Valuable Customers

- Mahindra
- Mahindra Rise
- TVS Sundram Fasteners Limited
- WINDAL AUTO
- Honeywell Turbo Technologies
- NEPTUNE ENTERPRISES
- Reliable Mechatronics Ltd
- Tata Motors
- Tata Autocomp Systems Ltd
- Hendrickson - The World Rides On Us
- Honeywell Automation & Control Specialist
- Lumax Automotive Parts
- Enercon - Energy for the World
- Essem Srinisons Systems Pvt. Ltd
- Volkswagen
Our successes stories
Robotic combination switch reliability test system

List Of customers:
- Tata Motors
- MindaRica
- Varroc Engg.
- Reliable Mechatronics.
Our successes stories
Robotic combination switch reliability test system

PATENT FILED NO. 105/MUM/2013

Features : Specifications
- 3 switch(same type) testing mechanism
- HMI based system
- PLC control panel
- Load max 50Amp each switch
- Power supply for load - 03v50amp
- Voltage drop tester for each point of switch contact (PANEL MOUNTED METER SIZE 90*90)
- Operating Temperature rang -30Deg C to + 85 Deg C.
Our success stories
Robotic combination switch reliability test system

PC BASED SYSTEM

List of customers:
- Tata Motors
- MindaRica
- Varroc Engg.
- Reliable Mechatronics.

Patent filed no.: 105/MUM/2013
Our successes stories
Robotic combination switch reliability test system

Features : Specifications
- 3 switch (same type) testing mechanism
- PC based system
- PLC control panel
- Encoder based system for more accuracy
- Load max 50a each switch
- Power supply for load - 03v50amp
- Voltage drop tester for each point of switch contact (PANEL MOUNTED METER SIZE 90*90)
- Operating Temperature rang -30Deg C to + 85 Deg C.
Our successes stories

Automatic heat shrink chamber

Features : Specifications

- Temperature range 20DegC to 400DegC
- IR Heater used for instant and fast heating
- System to reduce process time
- Save Electricity
- Increase production

List Of customers :

- Essem Shrinisons Pune.
- Essem Shrinisons Rudrapur.
- Neptune Enterprises
- Star Engg.
Our successes stories
Neutral switch endurance test rig with hot oil bath

Features: Specifications

- Temperature range 20DegC to 400DegC

List Of customers:

- Varroc
Our successes stories
Rear brake switch endurance test rig

Features: Specifications

- Temperature range 20DegC to 400DegC
- IR Heater used for instant and fast heating
- System to reduce process time
- Save Electricity
- Increase production

List Of customers:

- Essem Shrinisons Pune.
- Essem Shrinisons Rudrapur.
- Neptune Enterprises
- Star Engg.
Our successes stories
Starter Motor Life cycle test rig

Features : Specifications

- Temperature range 20DegC to 400DegC
- IR Heater used for instant and fast heating
- System to reduce process time
- Save Electricity
- Increase production

List Of customers :

- Essem Shrinisons Pune.
- Essem Shrinisons Rudrapur.
- Neptune Enterprises
- Star Engg.
Our successes stories

Force measurement (Spring tension)

Contact Force Testing Machine

• Features:
  • Indigenized design.
  • PC Based Online testing.
  • Single point contact testing measurement.
  • Force range 0 to 400 gm.
  • 1% Accuracy
  • Operating temperature normal environment +20 +50 Deg C.
  • Monitoring and data storage of each contact load measurement through PC (PC based system),
  • Store history and faults data with alarm.
  • Monitoring parameters – Force 0 gms. To 400 gms. , I/P and O/P voltage 12v per operation single point at a time.
  • Count Number of operation and number of cycles/ parts done.
  • Total number of operation 5 contact points individually tested in one cycle/ part.
  • Force Curve respect to contact graph provided

List Of customers:

➢ MindaRica

➢ Varroc Engg.
Our successes stories

Force measurement (Spring tension)

Endurance (Fatigue) Testing Machine

• Features of Test Rig:
  • Indigenized Electro mechanical design.
  • Spring OD can be checked - Min 2 mm Max 50 mm
  • Spring Length can be checked – Min 5mm Max 200 mm
  • Spring load 5 gm Min up to 5000 gm
  • Number of cycles set at a time Max 5 Lac
  • Cycle Per Min – 100 Max
  • Detachable load cell (disassembly of load cell)
  • Number of cycle display to be provided
  • Spring adjustable displacement
  • Maximum 10 spring to be test at a time
  • Load digital display
  • Displacement Physical display (Mechanical)
  • Cycle hold time programming MIN & MAX
  • PLC, HMI based system (PC based optional)

List Of customers:

➢ Industrial Springs LTD.
➢ Varroc Engg.
Our successes stories
4 wheeler Door Lock Testing with force monitoring

Features of Test Rig:

- Indigenized Electro mechanical design.
- Check the door lock LH and RH at same time
- Check for the Lock and Unlock operation
- Pneumatic pressure controlled system.
- Number of cycle display provided
- Load / Pressure digital display indicator
- Displacement physical display (Mechanical adjustment)
- Cycle hold time programming MIN & MAX
- PLC, HMI based system (PC based optional)

List Of customers:

- Volkswagen
Our successes stories
25 / 40 feet motorized conveyor systems

List Of customers :
- Essem Shrinishons
- RD Electronics
- Reliable Mechatronics
- Neptune Enterprises

Features :
- Indigenized Electro mechanical design.
- Motorized conveyor
- Speed Adjustment.
- length 42 Feet (As per Requirement can be made)
- Width 500mm (As per Requirement can be made)
Our successes stories
Assembly Tables

List Of customers:
- Essem Shrinisons
- RD Electronics
- Reliable Mechatronics
- Neptune Enterprises

Features:
- Indigenized Electro mechanical design.
- Manual Assembly Table
- PLC Controlled
- Process Control And monitoring Assembly Tables
- Any Size as per requirement
Our successes stories

Tiny conveyors

List Of customers:

- Essem Shrinisons
- Neptune Enterprises

Features:

- Indigenized Electro mechanical design.
- Motorized conveyor for small application
- Speed Adjustment.
- Length 42 Feet (As per Requirement can be made)
- Width 500mm (As per Requirement can be made)
Our successes stories

Visual Verification TQC (Touch Quality check ) system

Features

• System is to Mark & Verify all the specified visual points has been covered / checked as per sequence.

• Indication for each check point after checked.

• Foolproof system – even if any point is missed by operator it should arrest at in-house visual stage , should not pass to customer. (Interlock)

• System Can be used for multiple Product Line by selection , User friendly software easy to operate

• Data for checking can be modify online - Offline through customized software

List Of customers :

➢ Honeywell Turbo Technology
➢ TVS (Chennai)
➢ Precision Cam shaft (EOU)
➢ Windal Auto LTD.
Our successes stories

PLC controlled Pneumatic based SPMs

- Pneumatic Press with hot air control
- Checking gauge systems Value engineering SPP
- Special purpose parts as cost saving solutions

Automatic Printer
Our successes stories

Special purpose parts as cost saving solutions

Voltage Connector
Earlier Importing from Koria
Developed in India and Implement in a month’s time with 50 % Cost reduction
Less Lead Time

PCB Routing Fixture
Earlier Importing from Germany
Developed in India and Implement in a month’s time with 30 % Cost reduction
Less Lead Time
Our successes stories
Special purpose parts as cost saving solutions

Spring Loaded Pin Fixtures
For German made BBT Test System machine
Developed in India
Our successes stories
Assembly line set up & automation (sub assembly line)

End Of line test with Poka-yoke and interlocks

Customers:
Windal Auto - Rudrapur
Our successes stories
Assembly line setup & Automation (press shop)

Automated press

Customers:
- Windal Auto - Dharwad
Testing And Component Validation LAB
Testing And Validation Facilities
List Of Equipments

Environmental chamber  3 axis vibration system  Cold chamber

Salt Spray Chamber
Testing And Validation Facilities

List Of Equipments

- Water Spray chamber
- Dust Chamber
- Hot air chamber
Pipeline Projects

- FS Curve Measurement System
- Vision based Inspection System
- End Of Line Test System
- Automatic Thickness Measurement
- Torque Measurement
Pipeline Projects Workout
FS Curve System

Link - Concept and Presentation
Pipeline Projects Workout
Vision based Inspection System

Link - Concept and Presentation
Pipeline Projects Workout
End Of Line Test System

Link - Concept and Presentation
Pipeline Projects Workout
Torque Measurement

Link - Concept and Presentation
Pipeline Projects Workout
Automatic Thickness Measurement

Link - Concept and Presentation
Product Marketing (Parent company)

- GSM / GPRS based Control and monitoring systems
- LED Lighting / Solar Lighting (Out door & Indore application)
- RFID Products / Inventory Management system
- Timer, Counters, Relay modules, Andon display
- PCB (Printed circuit boards)
- Wiring Harness
- EMS (Electronic Manufacturing services)
In-house Facilities

Machine Shop:

List of machines:
- Milling Machine (conventional) – 3Nos.
- Jig Boring Machine (conventional) – 1Nos.
- M1TR – 1 number
- Wire Cutting Machine – 1 number
- Drilling Machine – 1 number
- Jig Saw – 1 Number
- Bench Grinder – 1 Number.

Measuring Equipment:

List of measuring equipment:
- Oscilloscope (Agilent make) – 1 Number
- Multimeter (Fluke Make) – 2 Nos.
- Current Meter (Fluke make) – 1 Number.
- Digital Vernier – 1 number
- Vernier Caliper – 1 number
- Micrometer – 1 Number
- Height Gauge – 1 Number.
Segment wise Business

Yantrna Systems customer segment

- **Automotive**: 85%
- **Consumer**: 9%
- **Defence**: 1%
- **Other**: 5%

*Yantrna Systems customer segment*
TEAM

Machine Shop:
- HOD
- Engineer - 1
- Supervisor 1
- Operator 3

Software Programming:
(PLC, Embedded, Lab view)
- HOD
- Engineer
- Field application Engineer - 3

QA:
- Engineer 1

Assembly and Testing Shop:
- HOD
- Engineer - 1
- Worker - 2
Thank you

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