

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

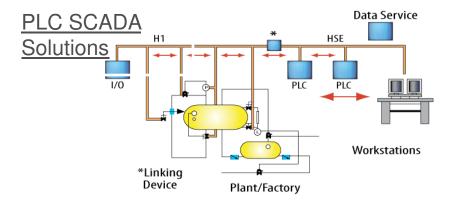
- Industrial, Plant, Process Automation. (Process control systems / Process monitoring systems)
- **SPM** (Special purpose Machines)
- Robotics (Assembly And Test Equipment)
- Assembly Fixtures -Zigs And Fixtures , Gauges, System Interlock & Poka Systems.
- >Material Handling Systems and Conveyors.
- 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.



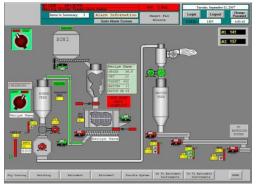


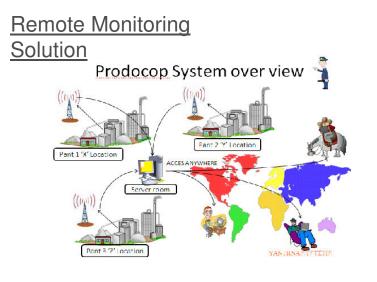
Industrial, Plant, Process Automation.





Front End PC Software solution







> SPM Customized systems and machinery

ELECTRICAL MOTORIZED AUTOMATION MACHINES





PNEUMATIC AUTOMATION MACHINE SOLUTIONS





PLC SCADA

Systems Solutions

<u>AUTOMATIC FEEDING</u> SYSTEMS





Robotic arm and systems (under development)

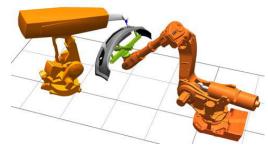
ROBOTIC ARM CUSTOMIZED SOLUTION



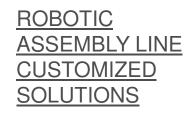
ROBOTIC ARM FOR ASSEMBLY



SMALL ROBOTIC XY AXIS MATRIX SYSTEM





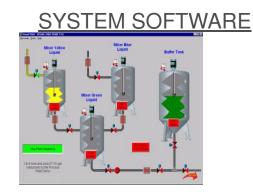




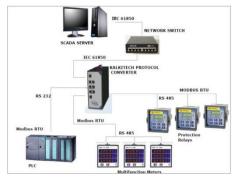


PLC SCADA Embedded Systems

PLC SCADA Complete end to end solution



SYSTEM HARDWARE



Embedded Monitoring systems









Conveyor systems





ROLLER CONVEYOR

CUSTOMIZED PVC LINK CONVEYOR









Andon Display



Production Monitoring Display







LCD Based Monitoring Display





Zigs and Fixtures



ALL KIND OF FIXTURE DESIGNING AND MANUFACTURING



SEMI AUTOMATIC ASSEMBLY FIXTURES

MANUAL ASSEMBLY FIXTURES





INSPECTION FIXTURE





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 Rise.





Sundram Fasteners Limited

WINDAL AUTO

Honeywell



NEPTUNE ENTERPRISES





TATA AUTOCOMP SYSTEMS LTD











Essem Srinisons Systems Pvt. Ltd.

















Our successes stories Robotic combination switch reliability test system

PATENT FILED NO. 105/MUM/2013 HMI Base 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 successes stories

Robotic combination switch reliability test

System <u>PATENT FILED NO.</u> <u>105/MUM/2013</u>

PC BASED SYSTEM

- List Of customers :
- ≻Tata Motors
- > MindaRica
- > Varroc Engg .
- Reliable Mechatronics.





Our successes stories Robotic combination switch reliability test system PC BASED SYSTEM

PATENT FILED NO. 105/MUM/2013

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
- \succ Star Engg .



Our successes stori
Seutral 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
- \succ 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 :

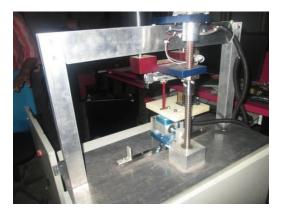
- **>Essem Shrinisons Pune.**
- Essem Shrinisons Rudrapur.
- Neptune Enterprises
- \succ Star Engg .





Our successes stories Force measurement (Spring tension)

Contact Force Testing Machine



List Of customers : ≻MindaRica

> Varroc Engg.

•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. ,
- $\rm I/P$ 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





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 s 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 Shrinisons
- 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 ShrinisonsNeptune Enterprises

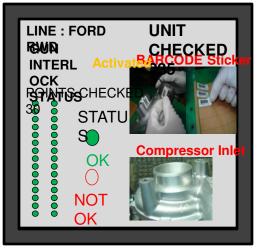
•Features :

- •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 Certified By General Motors QA Department Bangalore Visual Verification TQC (Touch Quality check) System



List Of customers : > Honeywell Turbo Technology > TVS (Chennai) > Precision Cam shaft (EOU) > Windal Auto LTD.

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

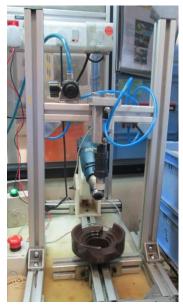
•Data for checking can be modify online - Offline through customized software





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





Spring Loaded Pin Fixtures For Germen made BBT Test System machine Developed in India





Our successes stories Assembly line set up & automation (sub assembly line)



Customers : >Windal Auto - Rudrapur End Of line test with Poka-yoke and interlocks







> 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





Pipeline Projects Workout Vision based Inspection System





Pipeline Projects Workout End Of Line Test System





Pipeline Projects Workout Torque Measurement





Pipeline Projects Workout Automatic Thickness Measurement



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)



ТΜ



In-house Facilities

Machine Shop:



Measuring Equipment :



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.

List of measuring equipment :

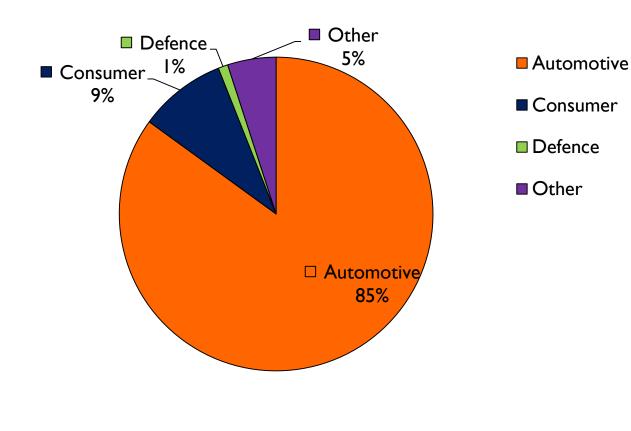
- Oscilloscope (Agilent make) 1 Number
- Multimeter (Fluke Make)– 2 Nos.
- Current Meter (Fluke make)- 1 Number.
- Digital Vernier 1 number
- Vernier Caliper 1 number
- Micrometer 1 Number
- Height Gauge 1 Number.





Segment wise Business

Yantrna Systems customer segment









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

Contact Details:

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