INFINITY AUTOMATION SYSTEMS PVT LTD

We Are Pushing The Limits In Machine Building & Automation!
About Us

- **Year of Establishment**: 2006
- **Locations**: 3
- **Employees**: 120+
About Infinity Automation Systems Pvt Ltd

We, "Infinity Automation Systems Private Limited", started our journey as a Pvt. Ltd. Firm in the year 2006 at Pune, (Maharashtra, India). In a very short span of time, we have earned recognition of a renowned manufacturer of Assembly Lines, Andon System, Leakage Testing Machine, Traceability System, Vision System and more. These are developed in strict compliance with the well-defined industrial standards and are appreciated for their precision design, excellent finish. Our products find applications in Auto Component Industry, Automobile Industry, Rubber Industry and Nylon Industry. We are offering an excellent quality of CMM Inspection Services and more.

From the beginning, Infinity Automation’s mission has been to provide cost-effective automated solutions that give our customers a competitive advantage through increased productivity, lower costs, greater flexibility and better quality. We use proven, state-of-the-art technology to design, develop and build quality solutions that meet our customers’ specifications.

Infinity Automation works with customers of all sizes, in all industries and for any application. We work with our customers from concept to installation, and beyond, to ensure innovative solutions to meet their current needs and provide them with the flexibility to accommodate expanding needs in the future. Our Solution Infinite™ is one such innovation that allows our customers to maximize their investment in their automated solution by allowing them to retool product lines without having to discard and then repurchase capital equipment.

Our commitment to quality ensures continuous improvement in all areas of our business, including project management, quality, technology, cost control and customer support.
At a glance

- Full in-house capabilities from concept and design to installation and service
- From table-top fixtures to Multi-Core Robotic assembly lines
- A large variety of customers including OEM, Tier 1 and Tier 2 Automotive Companies
- 120+ Full-time employees
- Annual sales capacity: 30-35 Cr (2020)
- 28,500 sq. ft. manufacturing floor space in 2 Units in Pune and 1 Office in Delhi.
- Full Sales & After-sales support across India

Culture

As listeners, we understand our client's goals, by viewing the world through their eyes first. As problem solvers, we understand that success is never a handout. It's earned. At Infinity Automation, we craft effective assembly solutions, born from ingenuity, collaboration and transparency. This has been the foundation of our organization since our inception. Never resting on yesterday's achievements, a commitment to our client's success drives us to innovate. From an initial brainstorm to the final build on a shop floor, our goal is constant. To earn our client's trust by exceeding expectations, while building partnerships that endure.
This may be the age of automation, but love is still made by hands…

An efficient team of 120+ engineers & technicians, they are ones we care for
Our Expert Teams

Mechanical Design Team

Electrical Design Team

Assembly & Integration Team
Sales Team

**Dependable**
Meeting all requirements

**Technical**
Engineered based solutions

**Innovative**
Creative solutions tailored to your needs

**Responsive**
Personal attention to details and follow up

**Budget**
Careful consideration of cost parameters

**Ethical**
Strive for relationships-based sales

**Focused**
Detailed quotes with concept drawings
Design Team

Over twenty in house designers with an average of 12 years’ experience in machine and fixture design.

**Software:**

- Solid Works (3D Mechanical Design)

Yearly software classes covering updates and quarterly in-house discussions focusing on best practices within engineering team.

**Design focus:**

- Lessons Learned / History
- Safety (OSHA)
- Reliability and Maintainability
- Ergonomics (HSE)
- Ease of Manufacture
- Robust Process
- Ease of Serviceable Components

**Engineering Process:**

- Customer Specs
- Scope
- Schedule
- Budget
Controls Engineering Design Team:

Seventeen in house Controls Engineers and Designers with an average of 12 years of experience in automotive Controls Design (Electrical and Pneumatic), Software Design, Robot Programming, Vision Programming and HMI Development.

Controls design:

- AutoCAD

PLC Software:

- Rockwell/Allen Bradley RSLogix5000, RSLogix500
- Siemens Simatic Step 7
- Mitsubishi GX Works
- Omron
- Delta

Control Network Design:

- Ethernet IP
- Device Net
- Profinet and Profinet
- Modbus

HMI Software:

- Rockwell/Allen Bradley FactoryTalk (PanelView Plus)
- Siemens WinCC
- Mitsubishi GT Works

Other Expertise and Experience:

- Motion Control (VFDs, Servos, Steppers)
- Pin Stamping, Laser Marking, Heat Stamping
- Zebra and IMAX Industrial Printing
- Bar Code Scanners, RFID
- Atlas Copco, desoutter, kilews, Kolver Screw Driving Systems
- Hot plate Welding, Clip Placement and Snap Machines
- Final Part QC (LVDTs measurements, force measurements, color check, part installation and more)

Robot Systems:

- Motoman
- Epson

Vision Systems:

- Cognex
- Banner
- Keyence
- Basler
Controls Engineering focus:

- Lessons Learned / History
- Safety, Control Reliable, per requirements
- User Friendly HMI Interface
- Operator Annunciation
- Reliable and Maintainable Software
- Robust Robot and Vision Implementation

Commissioning Process:

- Debug PLC and HMI Designs
- Manual Functions
- Automatic Functions
- Finish Robot Programs with final programming (Teaching Points)
- Implement Vision Plan
- Operate Machine with Parts
- Prepare Deliverables (Format to customers spec)
  - Electrical / Controls Documentation
  - PLC Program
  - HMI Program
  - Robot Programs
  - Vision Documentation
Fabrication
Programmable Vertical Mills
5 Axis VMC
Auto cut Saws
MIG + TIG Welding
Surface Grinders

Paint Booths
- Liquid/Wet Paint

Machining and Fabrication
- Full machining capability including (1) 3-axis CNC mills (1) 5-axis CNC mills
- Capable of CNC machining directly from part data.
- 24 hour run capable
- 15+ skilled machinists

Manufacturing
- Highly skilled, experienced electricians and build teams
- Full panel build
- Dedicated field service and installation teams
- 15+ Machine Tool Electricians
- 30+ Skilled Machine Builders
- 28,000+ Sq ft of manufacturing floor space
Our Journey

Facility Developed

2006 TO 2008

2009 TO 2010

2011 TO 2016
- Turn Key Assembly Lines for Nylon & Rubber Hoses Assemblies, Automotive Head Lamp, AC Shroud Assembly, Automotive Tail Lamp & Fog Lamp, Automotive IRVM, ORVM & Fuel Lines, Plastic Welding for Automotive Tail Lamp Hotplate, Automotive PBL, PBA Unit & Vacuum Harnessing, Hot Plate Welding Machines for Washer Tank & Tail Lamp, ANDON System

2017 TO 2018
- Turn Key Robotized Assembly Lines for Actuators Like CMC (Clutch Master Cylinder & Concentric Slave Cylinder)
- Turn Key Assembly Lines for Automotive Fuel Filler Pipe Assemblies, Tail Lamp, AIM, Adaptor, ANDON System, Traceability & Digital Assembly Lines (IOT)
- Turn Key Assembly Lines for Automotive Fuel Filler Pipe Assemblies, Tail Lamp, AIM, Adaptor, ANDON System, Traceability & Digital Assembly Lines (IOT)

2019 TO 2020
- Turn Key Robotized Assembly Lines for Actuators Like CMC (Clutch Master Cylinder & Concentric Slave Cylinder)
- Turn Key Assembly Lines for Automotive Fuel Filler Pipe Assemblies, Tail Lamp, AIM, Adaptor, ANDON System, Traceability & Digital Assembly Lines (IOT)

PLC & Scada Based Projects for Sugar Factories, Co-gen Plant, Powder Coating Plant, Water Treatment Plant.

2006 TO 2008
- Unit 1 Formation
  - Conventional Machining Setup Established
  - 15 Employee

2009 TO 2010
- Unit 2 Formation along with Tool Room Setup & Fabrication Setup
  - 25 Employee

2011 TO 2016
- 3 Axis VMC Machining Facility along with CMM Facility Fabrication Setup
  - 45 Employee

2017 TO 2018
- 5 Axis VMC Machining Facility along with CMM Facility
  - 65 Employee

2019 TO 2020
- Unit 2 Formation along with Tool Room Setup & Fabrication Setup
  - 120 Employee
How we handle our Projects?

We do have systematic process for execution of any project. We are having core professional for Project Management.
Manufacturing Setup

VMC - MORI-SEIKI
VMC - JYOTI
Milling-Pioneer
Lathe-Crown
Assembly Lines

1) Push Brake Lever (Handbrake)
2) Rear Lamp
3) Head Lamp
4) Fog Lamp
5) Vacuum harnessing
6) PBA Assembly
7) IRVM
8) ORVM
9) Rubber Hose Assembly
10) Nylon Pipe Assembly
11) AC Shroud Assembly
12) AC Hoses Assembly
13) Gear Shifter Assembly
14) Fuel Filler Pipes Assembly
15) CMC
16) CSC

Standard Machines, Controller & Tools

Hotplate Welding Machine (Servo / Pneumatic) Heat Insertion Machine
Hot Plate Tools
Heat Stacking Machine
Forming Machine Leak Test Machine Leak
Test Equipment Color Light Sensor Sleeve
Cutting Unit
Vision Based Inspection Machine

Software Systems

Andon System Part Traceability
Data Acquisition & Reporting
Assembly Automation

PES MODULE ASSY LINE

H79 ASSY LINE STATIONS – AWARD WINNING
### Dura: Shifter assembly line (20170114) on Siemens and NI Systems

<table>
<thead>
<tr>
<th>Station No.</th>
<th>Station Name</th>
<th>Key Process</th>
<th>Cycle time in sec</th>
</tr>
</thead>
<tbody>
<tr>
<td>OP-10</td>
<td>Housing Assembly</td>
<td>Child part assy. &amp; Greasing system</td>
<td>60</td>
</tr>
<tr>
<td>OP-20</td>
<td>Shift Lever Assembly</td>
<td>Child part assy. &amp; Greasing system</td>
<td>60</td>
</tr>
<tr>
<td>OP-30</td>
<td>Select Lever Sub Assembly</td>
<td>Child part assy. &amp; Greasing system</td>
<td>60</td>
</tr>
<tr>
<td>OP-40</td>
<td>Shifter Sub Assembly</td>
<td>Sub assembly</td>
<td>50</td>
</tr>
<tr>
<td>OP-50</td>
<td>Adaptor Assembly</td>
<td>Adaptor assy. &amp; screwing system</td>
<td>30</td>
</tr>
</tbody>
</table>
# Dura: Shifter assembly line (20170114) on Siemens and NI Systems

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</tr>
</thead>
<tbody>
<tr>
<td>OP-60</td>
<td>Gaiter, Trigger &amp; Retainer sub assy.</td>
<td>Assembly With pressing</td>
<td>45</td>
</tr>
<tr>
<td>OP-80</td>
<td>Knob Assembly</td>
<td>Screwing with Assembly</td>
<td>60</td>
</tr>
<tr>
<td>OP-90</td>
<td>Camera Inspection</td>
<td>Orientation checking</td>
<td>90</td>
</tr>
<tr>
<td>OP-100</td>
<td>Reverse Block Sub Assembly</td>
<td>Assembly</td>
<td>30</td>
</tr>
<tr>
<td>OP-110</td>
<td>Bracket Assembly</td>
<td>Assembly</td>
<td>30</td>
</tr>
</tbody>
</table>
Vision Systems

We have a dedicated team of developers who excel in machine vision technology.

- **Software used: NI-LabVIEW, TIA**
  
  Our expertise in Machine Vision and LabVIEW software development enables us to provide complete solutions in automated testing.

- **Industrial cameras used: Baumer, Basler, FLIR**

  High performance GigE Vision, USB3 Vision industrial cameras give excellent image quality & high frame rate which allows us to perform critical operations with high speed.
Rivet Presence Check System for Tata Ficosa Automotive Systems Pvt. Ltd.
O-Ring Inspection System
Leak Test

Infinity Make Indigenous Leak Test Controller
- Differential Pressure
- Flow
- Absolute Pressure
- Vacuum
- helium based

Leak Test Machines
IoT Solutions

ProdNx - A Smart Connected Factory Platform

A leap towards Industry 4.0
ProdNx, a full-fledged digital enterprise suit by Infinity Automation which expedites your journey to Industry 4.0 in a hassle-free manner. With ProdNx, you will always be ahead of your competition by harnessing substantial benefits out of IIoT.

Our Products:
ProdNx Traceability, ProdNx Andon, ProdNx Reports, ProdNx Cloud
Our Clients
Your Application, Our Integration

Contact us

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