



**WE** LISTEN  
SOLVE

PATVIN IN

# FINAL ASSEMBLY SHOP

AUTOMOBILE MANUFACTURING

**YOUR  
PARTNER  
FOR QUALITY**

In Automotive Assembly Solutions

EXPERTISE OF  
**38+**  
YEARS  
In Automobile  
Manufacturing

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[www.patvin.co.in](http://www.patvin.co.in)

## WHAT WE DO?

We provide **ROBUST ENGINEERING SOLUTIONS** throughout your manufacturing processes in fluid handling, automation and material product application. With a history of innovation spanning more than three decades, we continue to offer new solutions with products of advanced technology and outstanding quality to our customers.

## WHY PATVIN?

We bring out the value others fail to deliver.

Majority of market share in Core areas of Automotive OEM Manufacturing & Technology solutions provider in India.

**38**  
YEARS

3.8 decades of Experience with global Standards and Delivering to OEM's, Including international Markets.

Strong engineering capabilities with vast experience & exposure to a variety of applications and Systems.



Application of advanced designing and simulation software.

### EXPERIENCE CENTER

- Visualize
- Simulate
- Compare
- Choose



Trusted for on-time quality delivery & providing best in industry sustainable solutions.

# EVAC AND FILLING MACHINE

EFFICIENTLY EVACUATES AND FILLS AUTOMOTIVE SYSTEMS

- 01 Coolant Filling Machine**

Efficiently fill radiator coolant and battery cooling circuits in electric vehicles with precision.
- 02 Brake Oil Filling Machine (Online)**

Seamlessly fill brake oil, with features for ABS modulator valve actuation through our innovative neoVI FIRE device.
- 03 Brake Oil Filling Machine (for Repair Station)**

Tailored for repair stations, our machine ensures precise brake oil filling while adhering to ABS specifications.
- 04 Power Steering Oil Filling Machine**

Accurate filling for power steering systems, contributing to smooth vehicle operation.
- 05 Cab Tilt Oil Filling Machine**

Facilitate oil filling in cab tilt mechanisms with our specialized machine, designed for ease of use.
- 06 Clutch Oil Filling Machine**

Ensures the proper functioning of clutch systems with evacuation and pressurization capabilities.
- 07 AC Gas Charging Machine**

Compatible with R134a or HFO/R134yf, featuring options for nitrogen pressure testing and recovery.
- 08 Engine Mounts Filling Machine**

Customizable solutions for engine mounts filling, with optional ball pressing units for enhanced performance.



# METERED FILLING MACHINE

ENSURES PRECISE METERED FILLING

- |           |  |  |
|-----------|--|--|
| <b>01</b> | <b>Diesel (Fuel) Filling Machine</b>               | Efficiently fills diesel fuel tanks                      |
| <b>02</b> | <b>Diesel Exhaust Fluid (Urea) Filling Machine</b> | Ensures proper filling of DEF tanks                      |
| <b>03</b> | <b>Shock Absorber Filling Machine</b>              | Fills shock absorbers accurately                         |
| <b>04</b> | <b>Hydraulic Oil Filling Machine</b>               | Efficiently fills hydraulic systems                      |
| <b>05</b> | <b>Windshield Fluid Filling Machine</b>            | Precise filling for windshield fluid reservoirs          |
| <b>06</b> | <b>Engine /Gear Box/Axle Oil Filling Machine</b>   | With Heating Oil Option (according to oil specification) |



## AUTOMATED FILLING STATION

Automated fuel dispensing system with automatic level indicator of the fuel in the storage tank

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## LEAK TESTING EQUIPMENT

01

AC Circuit Testing with Nitrogen

02

Brake Oil Circuit Testing with Dry Air

03

CNG / LPG Circuit Testing with Nitrogen

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## BULK STORAGE AND TRANSFER SYSTEM

01

With 25/20/4/2 KL Tank capacity

02

For Glycol / AC gas / Brake Oil / Gear Box Oil / Axle Oil / Engine Oil / DEF

03

Glycol and Water Mix preparation with ratio Correction Feature

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## GLASS GLUING SYSTEM

Our complete solution for Robotic Glass Gluing System ensures a flawless bond between glass and the vehicle body. Lets you achieve uniform & precise adhesion and sealing while minimizing errors



# MACHINE FEATURES



## Customizable Design

Machines are designed to fit customer floor space and vehicle parameters.



## Barcode Scanner Integration

Select models or variants via barcode scanning for precise filling parameters.



## Reliable Components

Stainless steel construction ensures durability & reliability.



## Quick Replacement

Minimize downtime with quick replacement arrangements.



## Alarm System

Condition-based and time-based alarms for enhanced monitoring



## Fault Diagnosis

Quickly diagnose faults through intuitive HMI interfaces.



## Data Acquisition

Store filling process results locally and integrate with MES/AMES/VTs systems.



## Energy Consumption Monitoring

Monitor energy usage for efficiency.



## Drip-Free Filling Adapters

Ergonomically designed adapters for one-hand operation.



## CUSTOMIZATION OPTIONS

# 01

### PLC Control

Customizable PLC control according to plant standards.

# 02

### Peripheral Integration

Integrate your systems with barcode scanners, printers, and network connections for enhanced functionality.

# 03

### Control Devices Communication

Can be controlled with various devices for seamless operation.

## MACHINE CONFIGURATIONS

# 01

### Standalone vs. Moving Console Type Machines

Choose between configurations based on assembly line requirements.

# 02

### Combined Equipment Options

Flexibility to combine coolant, brake, AC gas, and oil systems as per customer requirements

# 03

### Cost-Effective Solutions

Affordable options available for low JPH assembly lines.





## EXPERIENCE CENTER

SEE, TRY, BEFORE YOU BUY!

- ✓ Innovative trials for new product development
- ✓ Paint Circulation System Demonstration
- ✓ Robot Paint Application
- ✓ Robotics & Sealant Application
- ✓ Cycle Time Study
- ✓ Material Validation
- ✓ Proof of Concept
- ✓ Application Simulation
- ✓ Research & Development
- ✓ Training

## Our Presence

📍 Mumbai | 📍 Pune | 📍 Punjab | 📍 Gujarat | 📍 Delhi NCR | 📍 Bangalore | 📍 Chennai



**WE LISTEN  
SOLVE**

*Your Partner for Quality*

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