

# **Manufacturing Management Solutions Engineering Services**

## 2012

- Establishment of PVG Technology Product Design Training
- On site project support
- Auto Component Trading



## 2015

- Machining process standard documents to BAJAJ AUTO -
- Development of Plastic component off shore. -
- Trained over 200+ engineers - Product Design



## 2017

- Manufacturing Services
- Wiring Harness, Plastic Molding
- Design Competencies Developed
- Automotive Lamps CAD Support - 4 wheelers (TATA ACE)
- Design Support for Grommets to Tata Technologies-Volvo Project
- Design & Development initiated for PCB Based Fuse & Relay Box.
- Battery Mounted Fuse boxes
- Authorized Distributor
- For SUN BOW (Wiring Harness Protections)



## 2013

- Offshore Project Development
- Electrical component Development for TATA MOTORS
- On-Site Design Support – MAHINDRA TECH
- Developed CATIA Off shore Lab



## 2016

- On - Site Design Support-TATA Technologies
- PVG Tech into Pharmaceutical containers Design
- Electrical Design for-DC Sports Car-Avanti
- Offshore Team of 40+ Engineers
- Authorized Distributor - GURDIAN RELAYS



2018

- Certification for IATF16949:2016



2019

- Wiring harness manufacturing of e-vehicles includes 2wheelers, 3wheelers, 4wheelers, bus & truck
- Study & development of EV components like dc-dc converter, electronic throttle, BLDC motor, electrical switches etc



2020

- 2020- Development of EV components like Junction Box, Throttle, DC-Dc Converter



2021

- Plant Capacity increased 6K to 16K. sqft.
- Development of inductive throttle.



2022

- Side stand sensor development.
- Cluster development



## Certification For IATF16949 : 2016



# CERTIFICATE

Reg. Number	16735 - T		
First issue date	2022-06-21	Last change date	2022-06-21
Valid Until	2025-06-20	IATF Number	0452708

### Quality Management System Certificate IATF 16949:2016

We certify that the Quality Management System of the Organization:

#### **PVG AUTOMOTIVE PVT. LTD.**

Is in compliance with the standard IATF 16949:2016 for the following products/services:

Design and manufacture of plastic molded components, Wiring Harness and Manufacture of Electrical Aggregates through the processes of Molding, Cutting, Crimping, Tinning, Sub-Assembly, Assembly and Printing.

President  
Giampiero Belcredi



**Exclusions:** None

This certificate is issued in conformity with IATF Rules – Fifth Edition.  
Maintenance of the certification is subject to annual survey and dependent upon the observance of Kiwa Cermet Italia contractual requirements.

This certificate is composed of 1 page.

Kiwa Cermet Italia S.p.A.  
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#### **PVG AUTOMOTIVE PVT. LTD.**

##### **Certified Sites**

- Plot No. 54/15 & 54/16, D 2 Block, MIDC, Chinchwad, 411019 Pune, Maharashtra - India

##### **Support Functions**

##### **PVG TECHNOLOGY (H.O)**

- Plot No. 54/15 & 54/16, D 2 Block, MIDC, Chinchwad, 411019 Pune, Maharashtra - India  
(Marketing, Product design)



## VISION

**Our Vision is to create a global brand image of being the most preferred and reliable Partner to provide 'One-Stop Complete Solution' for all our clients by continuously investing in new technologies and development of our Human resources.**

## MISSION

**Our aim is to thrive to achieve and maintain complete customer satisfaction by providing zero defect products and unmatched customer support. To create value for all our employees by investing in their overall professional development and ensuring their work-life balance.**



## Our Key Customers



BHARAT FORGE





## PVG Technology

### Design & Development

Electrical  
Projects

Mechanical  
Projects

### Training

Electrical  
Product Design

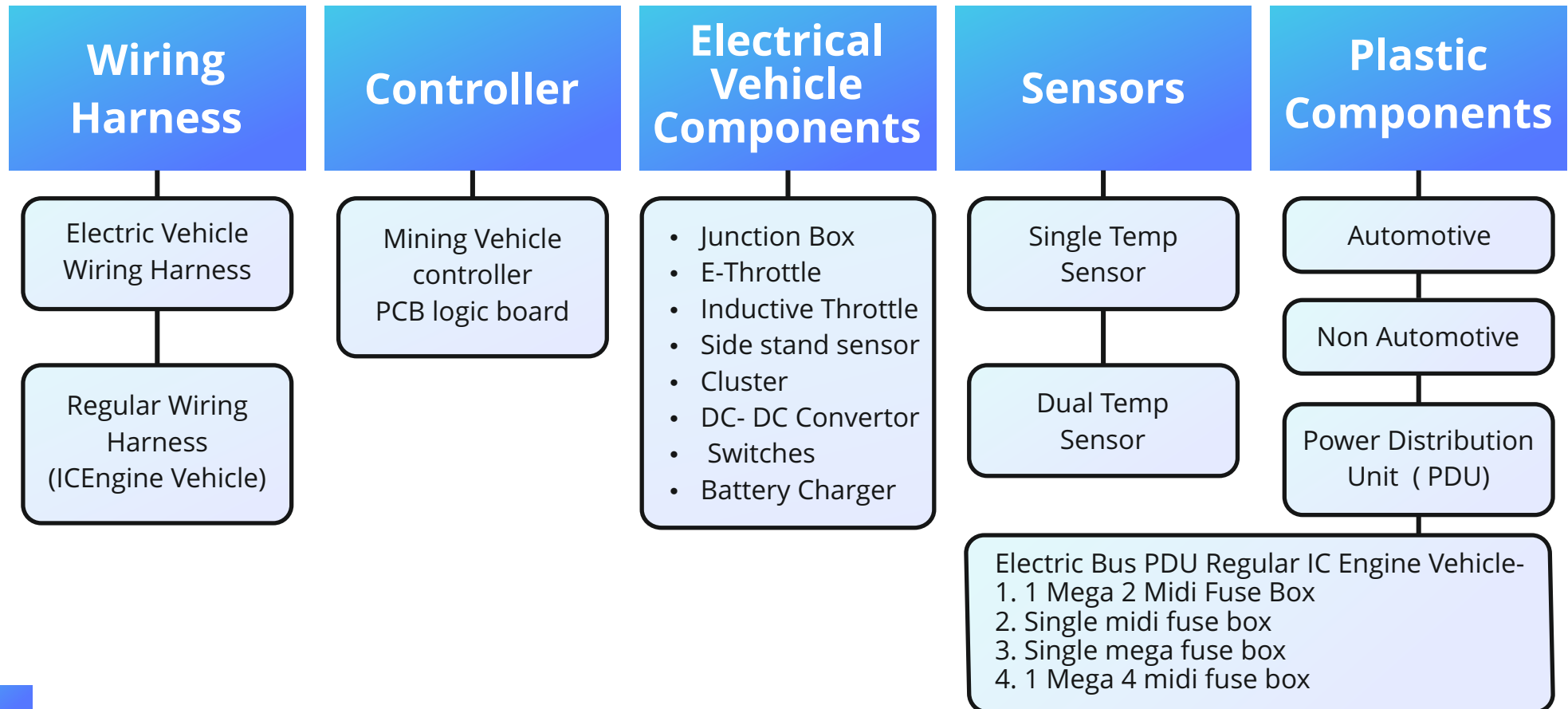
Mechanical  
Product Design

### Talent Acquisition

Resources  
recruitment  
for  
automotive  
customers



## PVG Automotive Pvt Ltd



## PVG's Automotive Capabilities

- Electrical Harness Flattening and drafting.
- Reverse engineering of wiring harness EV and Non EV
- Lab car wiring harness supports
- Selection of wire size and types for various applications.
- Selection of wiring harness protection for various applications.
- Creating the Electrical harness 3D routing in CATIA V
- 5Component selection (fuse, relay, terminal, connector, wires) depending on Load requirement.
- Circuit schematic preparation for all EV and Non EV application.
- Plastic parts injection molding.

## EV COMPONENTS



**Two Switch Throttle**



**Single Switch Throttle**



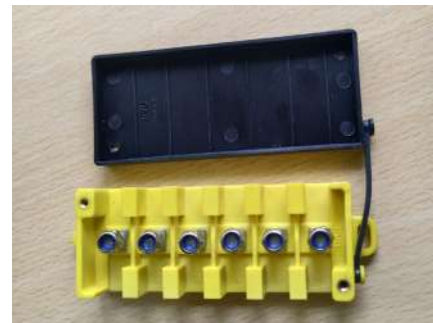
**DC DC Converter IP 67**



**Flasher Relay**



**DC DC Converter**



**Junction Box**



**Instrument cluster**

## IC Engine Vehicle Wiring Harness

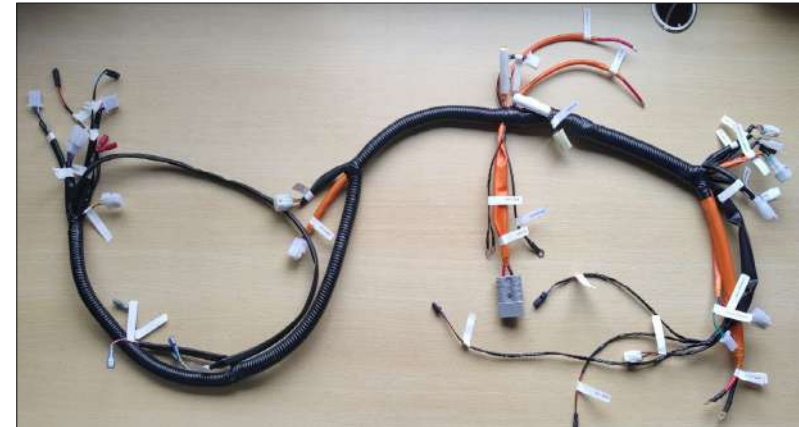




## Hybrid Electric Vehicle Wiring Harness



## Electric Three Wheeler & Two Wheeler Harness





## OBD Cables





## PVG Product Catalogue - Plastic Products

**5 Way Fuse Box  
1 Mega 4 Midi  
Junction Box**



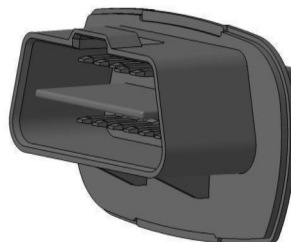
**V-ECU Housing**

**Wheel Speed  
Sensor**



**Back Cover**

**VCI Module  
Connector 16 pole  
Insert Molded**



**2 Pin  
Connector**

## PVG Product Catalogue - Plastic Products



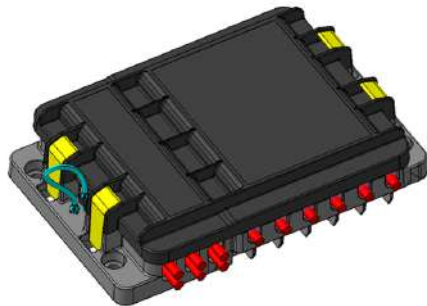
**Duel Temperature  
Sensor**



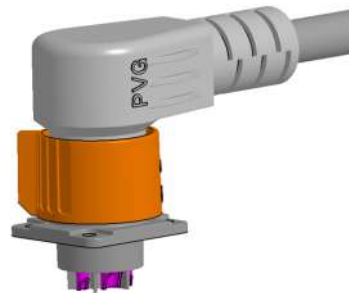
**Adaptor Cap**



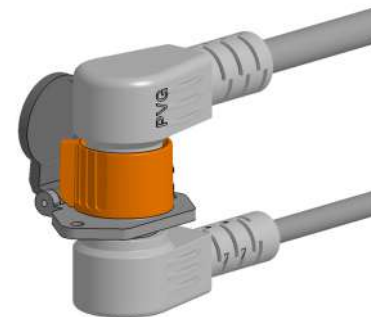
**23 Pin Connector**



**Fuse Box**



**Discharging Connector**



**Charging Connector 50A**

## PDU BOX



## Design Activities

1. Engine Test Bed Harness
2. Battery Monitoring System Harness
3. Electric Vehicle Chassis design for two wheeler & three wheeler
4. Underground Mining Vehicle wiring harness design& manufacturing
5. Controller development for underground mining vehicle
6. Fuse & relay box development for under ground mining vehicle
7. Automotive Wiring Harness design & manufacturing

## Training Activities

1. Seminar son Electrical Vehicle in Engg. Colleges
2. Two Wheeler Conversion to Electric Vehicle
3. Tata ACE Conversion to Electric Vehicle
4. Electrical Wiring Harness Product Design.
5. Automotive Electrical & Electronics Projects For Trainee Engineers Corporate training.



## Manufacturing Facilities - Wiring Harness



**Automatic Wire Cutting Machine**



**Wire Crimping Machine**



**Automatic Cable Cutting Machine**



**E-Throttle Assembly Line**



**Laying Board**



**Assembly Line**



**Wiring Harness Test Board  
& final Inspection**

## KM Digitech - Fully Automatic Crimping Machine



- 2X2 station's
- Both side seal & both sides crimping
- Laser strip sensor
- 4Ton crimping press
- Double crimping
- Digital wire straightener



## Manufacturing Facilities - Molding Machines (Horizontal)



### Milacron Nova Servo 80 Ton

- **Milacron N - Series 80 Ton**
- **Mold Height - 150/405**
- **Tie Bar Area - 405x360mm**
- **Locket Ring Size - 80 Mm**
- **Max Daylight - 710mm**
- **Opening Stroke - 310mm**

## Manufacturing Facilities - Molding Machines (Horizontal)



### Milacron Nova Servo 110Ton

- **Mold Height - 150/480 mm**
- **Tie Bar Area - 435X435 mm**
- **Material Wight - 197 Grams**
- **Locket Ring Size - 100 mm**
- **Max Daylight - 830mm**
- **Opening Stroke - 350mm**

## Manufacturing Facilities - Molding Machines (Horizontal)



### Milacron Nova Servo 200Ton

- **Mold Height - 200/810 mm**
- **Tie Bar Area - 570X570 mm**
- **Material Wight - 452 Grams**
- **Locket Ring Size - 125 mm**
- **Max Daylight - 1320mm**
- **Opening Stroke - 510mm**

## Manufacturing Facilities - Molding Machine (Vertical)



### Advantech-LNS- IN5800 45Ton

Mold Height-200/300mm

Tie Bar Area-380mm

Material Weight-70 Grams

Locket Ring Size-100mm

Max Daylight-360mm

Opening Stroke-360mm



## Manufacturing Facilities - 45 Ton Hand Molding Machine (Vertical)





# Thank you!



## **PVG Automotive Pvt. Ltd. & PVG Technology**

📍 Plot No-54 / 15 & 54 / 16, D 2 Block, MIDC, Chinchwad, Pune - 411019, Maharashtra, India.

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