

**WELCOME
TO**

**Synergetic Automation
Pvt. Ltd**

COMPETENCIES

ASSEMBLY LINE AUTOMATION

PALLETISED CONVEYOR LINE AUTOMATION

(Conveyor used Bosch, Transept, Flexlink etc.)

SPECIAL PURPOSE MACHINES

LEAK TESTING MACHINE (AIR & HELIUM)

FIN MILL MACHINE

CORE BUILD MACHINE

SERVO PRESSES

HYDROPNEUMATIC PRESSES

HYDRAULIC PRESSES

DISPENSING – SILICON, OIL, GREASE AND LOCTITE

CONTROLLED SCREWING

CAMERA SYSTEMS

RIVETING

HYDRAULIC RIVETING GUN

FORMING/CRIMPING/CURLING MACHINES

DRILLING AND TAPPING SPM

SPM – LUG BENDING

**NAME OF CUSTOMER – LAMA-NILRAJ ENGINEERING PVT LTD.
(AN INDO ITALIAN JOINT VENTURE)**



1. Hydro pneumatic Presses with precision Ram Guided and Stoke Adjustment facility
2. Cam indexer
3. Manual Loading
4. Automatic unloading by Pick and Place
5. PLC Controls
6. Output – 80 parts/minute.

HELIUM LEAK TESTING MACHINE

NAME OF CUSTOMER – MAHLE BEHR INDIA PVT. LTD.



HELIUM LEAK TESTING MACHINE – CONTROL PANEL



TAPPING SPM (END CUSTOMER – FORD CHENNAI)

NAME OF CUSTOMER – NIRMITI PRECISION PVT LTD (PRAGATI UDYOG)



Station 1 – Manual Loading/Unloading

Station 2 – Hole presence checking

Station 3 – Tapping with Pneumatic slide for 2 positions

Station 4 – Tapping with Servo X-Y axis

Station 5 – Tapping with Pneumatic slide for 2 positions, Tapping from Top and Bottom.

Station 6 – Thread presence checking

Total variants – 10 (5LH+5RH)

Output – 8 parts/minute

TAPPING SPM



TAPPING SPM - FIXTURES



TAPPING SPM - CONTROL PANEL



5 TON HYDRAULIC PRESS FOR STAMPING ON BRAKE PAD ASSEMBLY (END USER – FOUATION BRAKES LTD.)

NAME OF CUSTOMER – SAGAR AND ROHIT INDUSTRIES



25 TON HYDRAULIC PRESS FOR COLD FORMING

NAME OF CUSTOMER – INNOVA RUBBER PVT. LTD



Total Variants – 2
Output – 10 parts/minute



FIN MILL MACHINE

NAME OF CUSTOMER – MAHLE BEHR INDIA PVT. LTD.



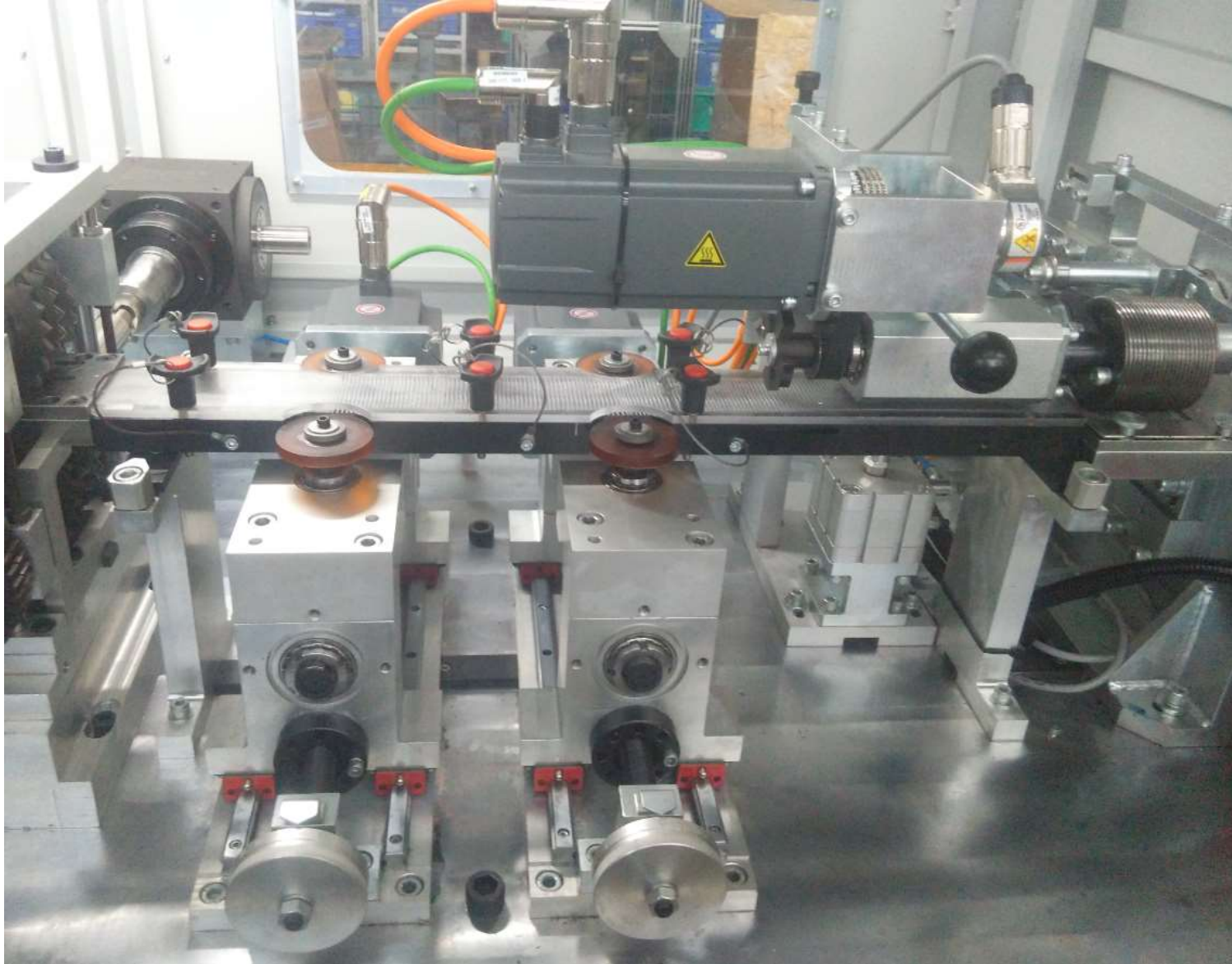
FIN MILL MACHINE

NAME OF CUSTOMER – MAHLE BEHR INDIA PVT. LTD.



FIN MILL MACHINE

NAME OF CUSTOMER – MAHLE BEHR INDIA PVT. LTD.



SHOCK ABSORBER BASE CAP PRESSING SPM

NAME OF CUSTOMER – MAGNETI MARELLI.



SHOCK ABSORBER BASE CAP PRESSING SPM

NAME OF CUSTOMER – MAGNETI MARELLI.



Station 1 – Manual Loading of Tube

Station 2 – Tube Height checking

Station 3 – Automatic feeding and loading of Eyelet.

Station 4 – Servo Pressing

Station 5 – Automatic Unloading for NOK Part.

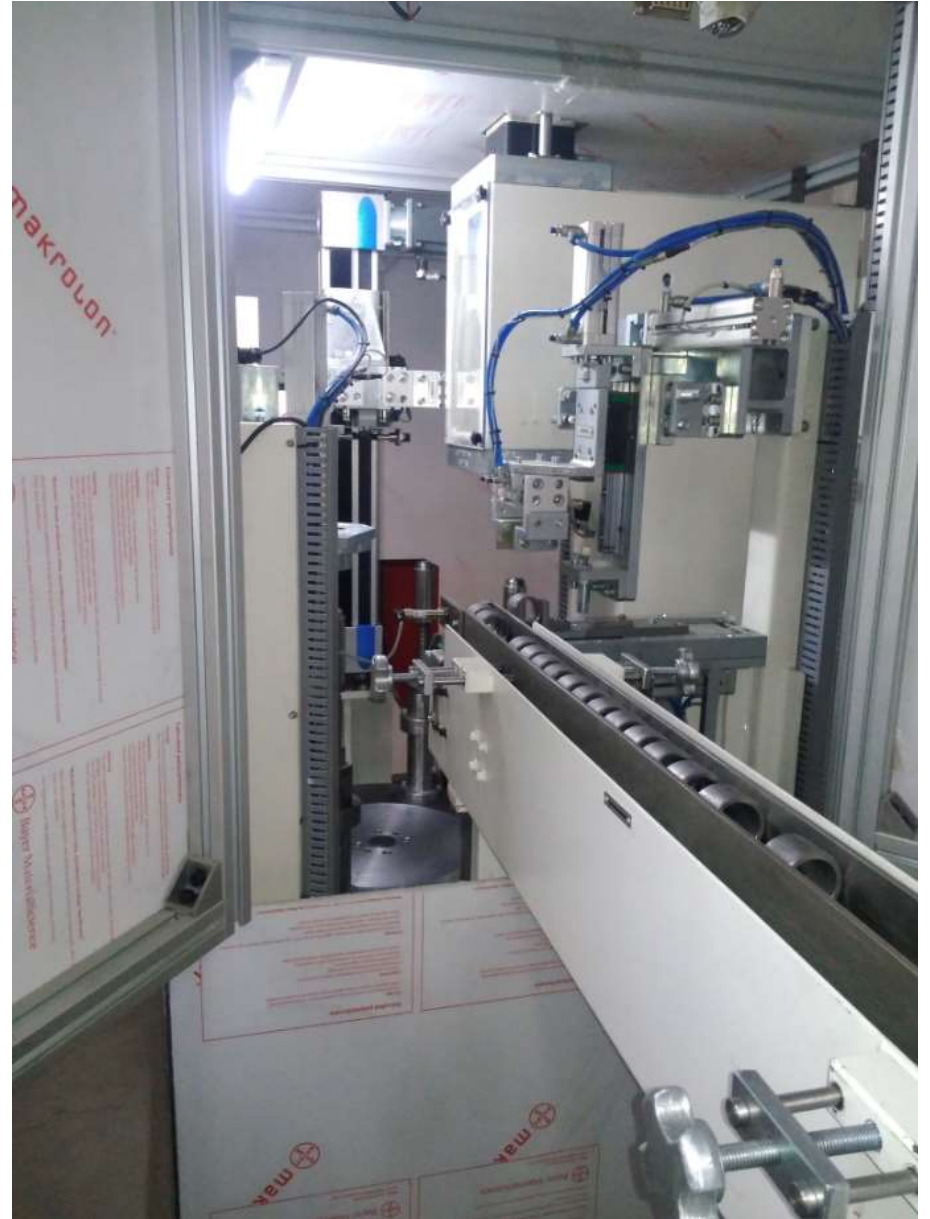
Station 6 – Automatic Unloading for OK Part.

Total variants – 24 variants.

Output – 8 parts/minute

SHOCK ABSORBER BASE CAP PRESSING SPM

NAME OF CUSTOMER – MAGNETI MARELLI.



COINING SPM

NAME OF CUSTOMER – MAGNETI MARELLI.



COINING SPM

NAME OF CUSTOMER – MAGNETI MARELLI.



Station 1 – Idle

Station 2 – Automatic feeding and loading of Piston by Rotary Feeder and Belt Conveyor.

Station 3 – Piston Height checking.

Station 4 – Servo Pressing/Coining.

Station 5 – Automatic Unloading for NOK Part.

Station 6 – Automatic Unloading for OK Part.

Total variants – 12 variants.

Output – 15 parts/minute

COINING SPM

NAME OF CUSTOMER – MAGNETI MARELLI.



COINING SPM – CONTROL PANEL

NAME OF CUSTOMER – MAGNETI MARELLI.



BUSH PRESSING SPM

NAME OF CUSTOMER – MAGNETI MARELLI.



CAPACITOR SEALING SPM

NAME OF CUSTOMER – ALCON ELECTRONICS PVT. LTD.



Station 1 – Manual Loading

Station 2 – Wrong Component Detection.

Station 3 – Capacitor Cap Pressing 1

Station 4 – Capacitor can height check.

Station 5 – Capacitor Cap Pressing 2.

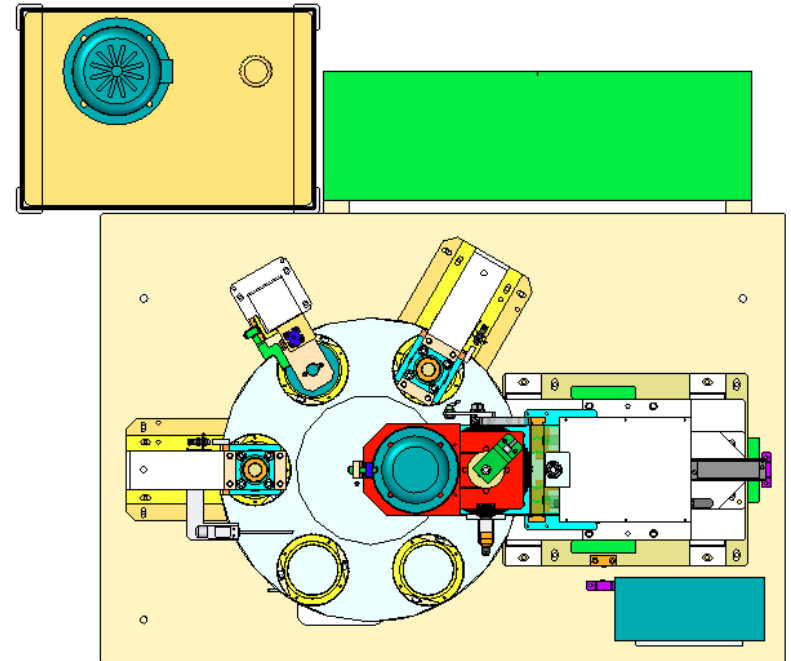
Station 6 – Capacitor Sealing

Total variants – 8 variants.

Output – 10 parts/minute

CAPACITOR SEALING SPM

NAME OF CUSTOMER – ALCON ELECTRONICS PVT. LTD.



HELIUM LEAK TESTING MACHINE

NAME OF CUSTOMER – MAHLE BEHR INDIA PVT. LTD.



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CORE BUILD MACHINE

NAME OF CUSTOMER – MAHLE BEHR INDIA PVT. LTD.



SHOCK ABSORBER GAS FORCE MEASURING SPM (EOL)

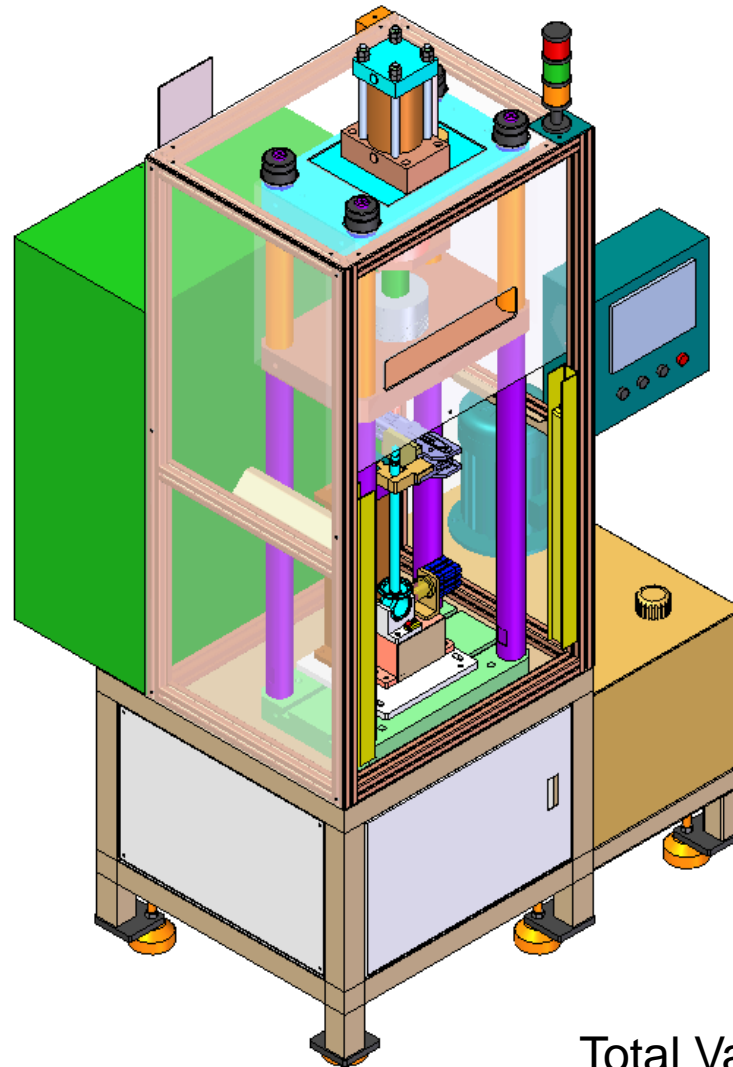
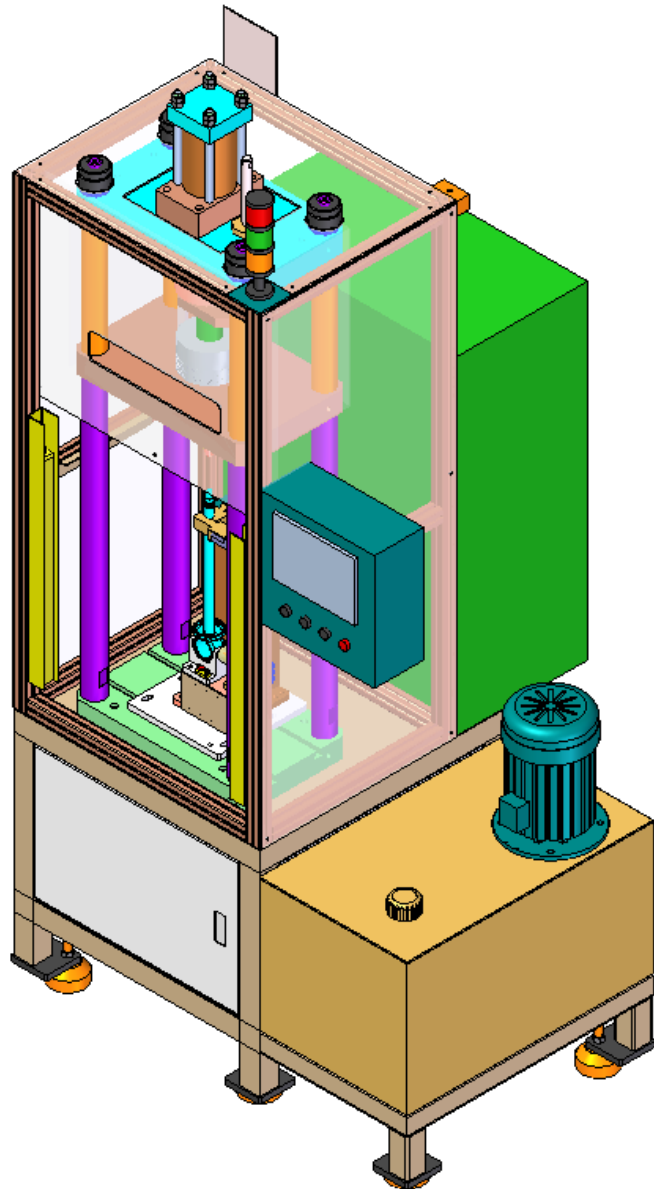
NAME OF CUSTOMER – MAGNETI MARELLI.



Total Variants – 4
Output – 6 parts/minute

SHOCK ABSORBER PISTON ROD END FLARING

NAME OF CUSTOMER – MAGNETI MARELLI.



Total Variants – 1
Output – 10 parts/minute

METAL TIGHTENING MACHINE

NAME OF CUSTOMER – SHOWA INDIA PVT. LTD. (FARIDABAD)



PROJECT HANDLED

We have about 20 years of Experience in previous company in handling SPM's, Assembly Line Automation, Palletised Conveyor Assembly Line Automation and EOL.

- PROJECT NAME – Assembly Line For Shifter Cable Assembly for NISSAN
CUSTOMER – Dura Auto Systems India Pvt. Ltd.
- PROJECT NAME – Assembly Line For Shifter Cable Assembly for FORD
CUSTOMER – Dura Auto Systems India Pvt. Ltd.
- PROJECT NAME – Assembly Line For Shifter Assembly for FORD
CUSTOMER – Dura Auto Systems India Pvt. Ltd.
- PROJECT NAME – Assembly Line For Parking Brake cable Assembly for FORD
CUSTOMER – Dura Auto Systems India Pvt. Ltd.
- PROJECT NAME – Assembly Line For Car Seat track Assembly for TOYOTA
CUSTOMER – Toyota Boshoku India Pvt. Ltd.

- PROJECT NAME – Assembly Line For Door Latch Assembly for TOYOTA
CUSTOMER – Aisin India Pvt. Ltd.
- PROJECT NAME – Assembly Line For Door Latch Assembly for RENAULT
CUSTOMER – Inteva Products. Romania (Europe)
- PROJECT NAME – Assembly Line For Door Latch Cable Assembly for RENAULT
CUSTOMER – Inteva Products. Romania (Europe)
- PROJECT NAME – Assembly Line For Door Latch Assembly for FORD
CUSTOMER – Inteva Products. Pune
- PROJECT NAME – Assembly Line For Door Latch Assembly for NISSAN
CUSTOMER – Magna Closures India Pvt. Ltd. Chennai
- PROJECT NAME – Assembly Line For Turbo charger for COGEME
CUSTOMER – Cogeme India Pvt. Ltd. Pune

- PROJECT NAME – Palletised Conveyor Assembly Line For Piston Rod (Shock Absorber) Assembly
CUSTOMER – Magneti Marrelli India Pvt. Ltd. Pune
- PROJECT NAME – Palletised Conveyor Line for Car Door Latch Assembly
CUSTOMER – Inteva Products. Romania (Europe)
- PROJECT NAME – Palletised Conveyor Line for Car Door Latch Assembly
CUSTOMER – Inteva Products. France (Europe)
- PROJECT NAME – Window regulator Assembly (Cable winding and Crimping) for NISSAN
CUSTOMER – IFB Automotive Pvt. Ltd., Bangalore
- PROJECT NAME – Palletised Conveyor Line for Suspension Valve Assembly
CUSTOMER – ITT., Netherland
- PROJECT NAME – Palletised Conveyor Assembly Line for Guide Block Assembly for Window regulator for TESLA
CUSTOMER – Inteva Products. USA

PAST EXPERIENCE IN EOL (END OF LINE TESTING) IN PREVIOUS COMPANY

- PROJECT NAME – EOL For Shifter Cable Assembly for FORD
CUSTOMER – Dura Auto Systems India Pvt. Ltd.
- PROJECT NAME – EOL and End of Transferring for Parking Brake cable Assembly for FORD
CUSTOMER – Dura Auto Systems India Pvt. Ltd.
- PROJECT NAME – EOL for Car Door Latch Assembly for RENAULT
CUSTOMER – Inteva Products. Romania (Europe)
- PROJECT NAME – EOL for Window Regulator Assembly for TESLA
CUSTOMER – Inteva Products. USA
- PROJECT NAME – EOL for MCB Assembly for ANCHOR
CUSTOMER – Anchor

REFERENCE CUSTOMERS



Nashik Works:

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Nasik – 422007
INDIA

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THANK YOU