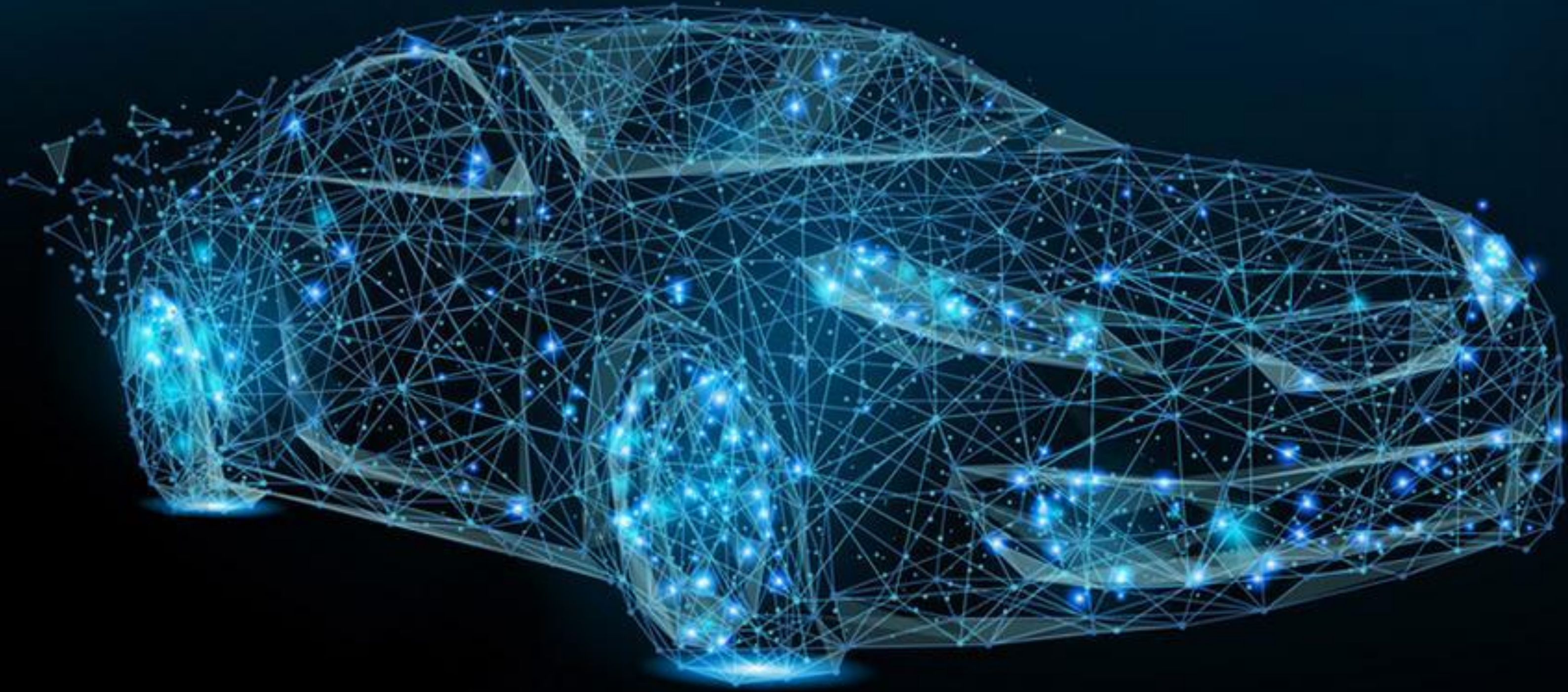




Challenge Fixtures India Pvt Ltd

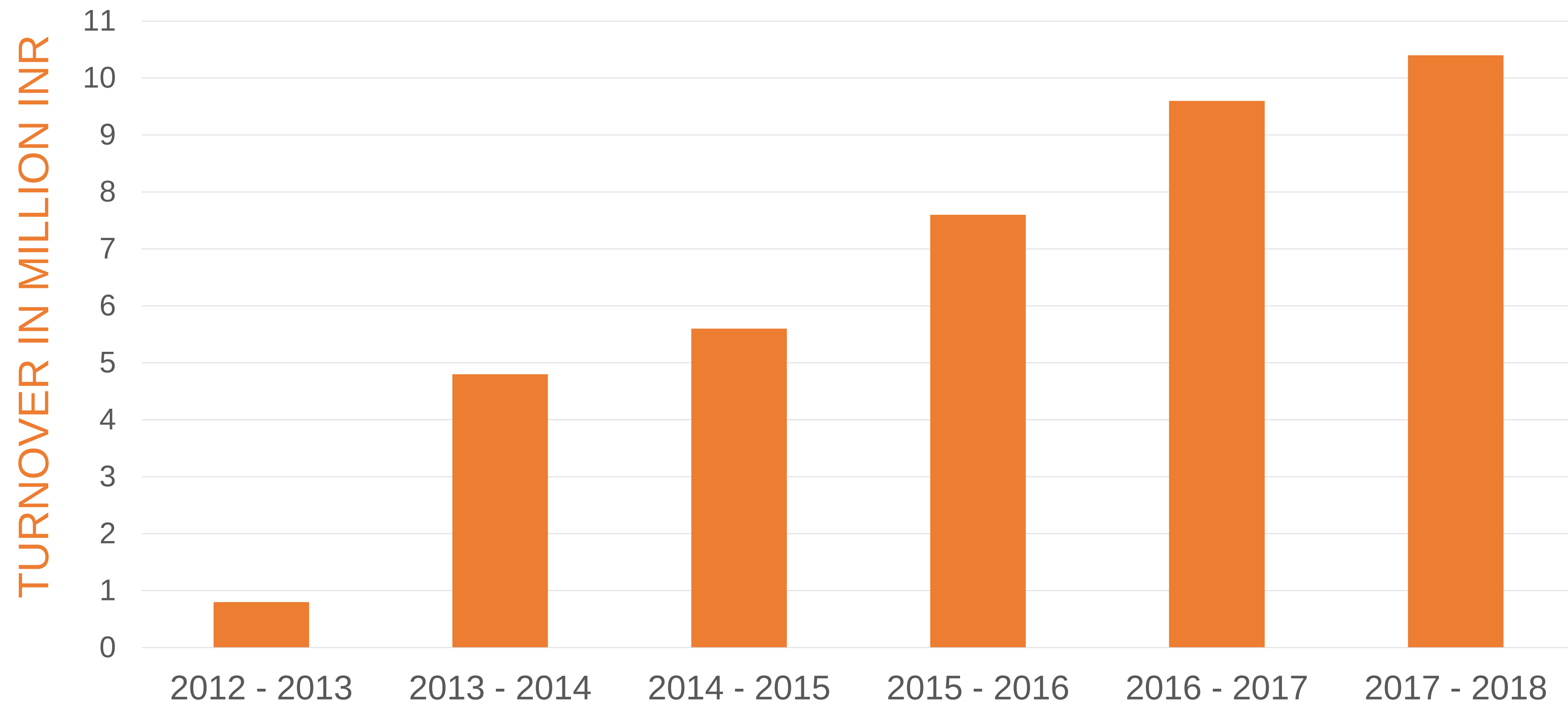


# Challenge Fixtures India At a Glance

|                  |                                                                                                   |
|------------------|---------------------------------------------------------------------------------------------------|
| Established      | 2013 Pune, India                                                                                  |
| Business         | 2 & 4-Wheeler Plastic & Sheet metal component checking fixture, Holding Fixture & Testing fixture |
| Working Area     | 12000 Sq. Feet                                                                                    |
| Certification    | ISO 9001:2015                                                                                     |
| Global Customers | Customers from- Europe (Romania), China, Korea & Brazil                                           |
| Customers        | Tier-1 & Mold Maker suppliers across 2 & 4-wheelers parts                                         |
| Customers        | 107 Million INR                                                                                   |
| Employees        | 65 Workforce                                                                                      |



## TURNOVER





## Vision

- To become the Leader in providing Engineering Solution in checking fixtures manufacturing to global specifications
- To become one of the most Renowned and Respected Companies in our Line of Business
  - Renowned for : Engineering Talent, Consistency, Dependability and Service Qualities
  - Respected for : Values, Ethics and Growth

## Mission

- Delivering value to our customers will be our daily Mantra---We will understand each customer's needs and fulfill them accordingly
- We will have highly competent, motivated and committed team
- We will achieve our vision by proactively identifying the customers & integrating their requirements as our primary targets

## Strengths

- Strong Engineering Team
- Exclusive Attention at each stage of Project
- Value of Money





## Products Include:

### Checking Fixtures for

- IP Assembly & Child-Parts
  - Console Assembly & Child-Parts
  - Bumper Assembly & Child-Parts
  - Door Assembly & Child-Parts
  - Pillars Trims
  - Lamp Fixtures
- BIW Fixtures
- Testing Fixtures





## Team Strength

- ✓ Our organization runs in 3 shifts
- ✓ 7 Designers & 3 CAM Engineers

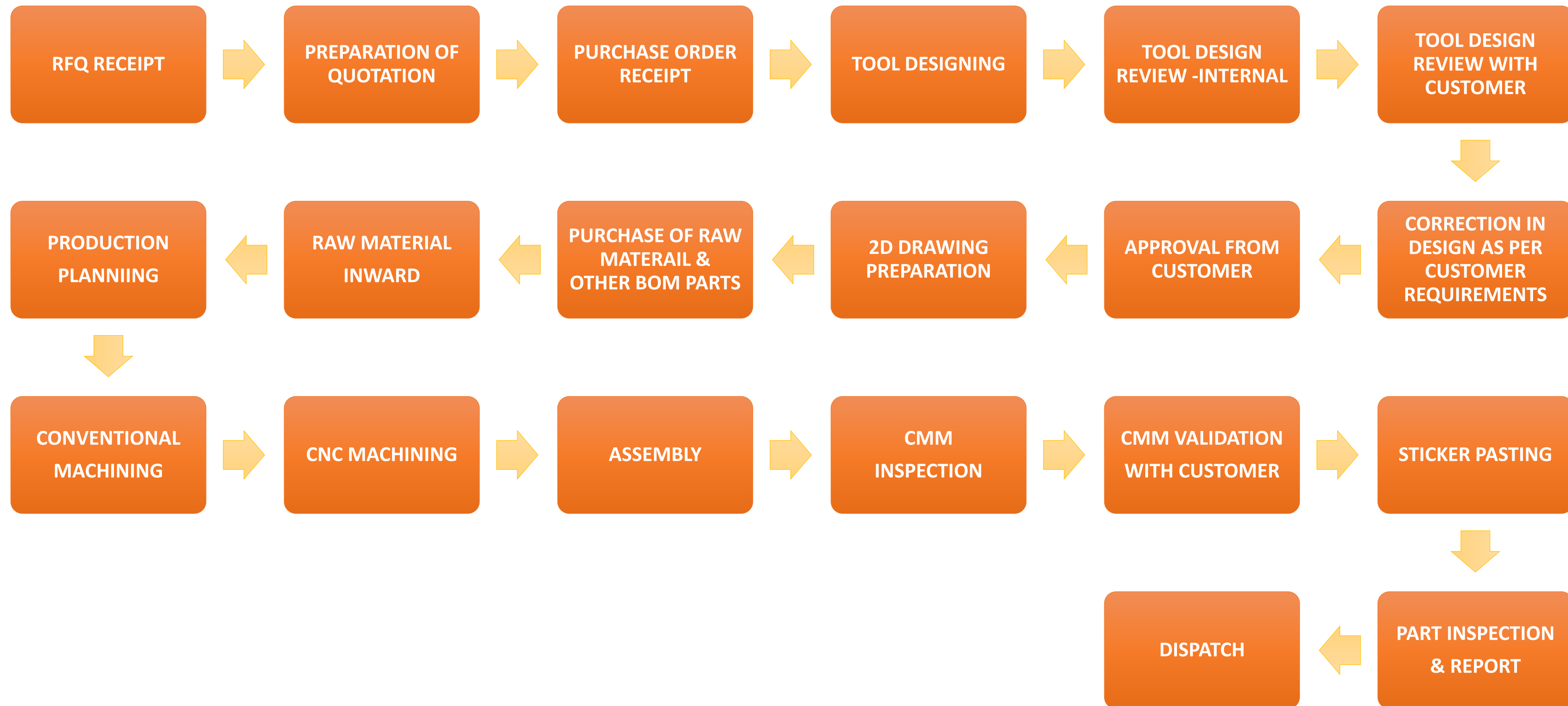


## Integrated software:

- Catia-V5
- Ideas
- Auto-CAD
- Del-Cam
- Power Inspect



## Work Flow Process:





## Production Facilities:

In order to meet bulk requirements of clients, we have established a state-of-the-art infrastructural set-up. Our infrastructural set-up is installed with requisite machines, equipment and tools that enable us to maintain international standards in our entire product range.



### **CNC – Vertical Machining Center (Chakra)**

Machine Make :- BFW (India)

Machine Travel :- 1000X600X450

CAM Software :- Power Mill (Delcam)



### **CNC – Vertical Machining Center (Sooraj)**

Machine Make :- BFW (India)

Machine Travel :- 1500X700X550

CAM Software :- Power Mill (Delcam)



## Production Facilities:



### **CNC – Vertical Machining Center (Agni+)**

Machine Make :- BFW (India)  
Machine Travel :- 800X450X400  
CAM Software :- Power Mill (Delcam)



### **CNC – Vertical Machining Center (LVC-755)**

Machine Make :- Charles (Taiwan)  
Machine Travel :-800X450X400  
CAM Software :- Power Mill (Delcam)



### **CNC – Vertical Machining Center (1000L)**

Machine Make :- Hision (China)  
Machine Travel :-1000X600X600  
CAM Software :- Power Mill (Delcam)



### **Machine Travel :-350X350X200**

CAM Software :- Power Mill (Delcam)



## Production Facilities:



**Milling Machine**

Machine Travel :- 250X600X300



**Lathe Machine**

Machine Travel :-4"  
Quantity:- 2 Nos.



**M1TR Machine**

Machine Travel :- 750X300X250  
Quantity:- 2 Nos.



**Surface Grinding**

Machine Travel :- 300X150X150



## Inspection Facilities:



### Co-ordinate Measuring Machine(Seagull)

Machine Make :- Accurate (India)  
Type :- Cantilever  
Machine Travel :- 3000X2000X1600mm  
Validation Software :- Power Inspect (Delcam)



### Portable Co-ordinate Measuring Machine(Romer)

Machine Make :- Hexagon  
Machine Travel :- 2.5 Meter (Radial) & 2 Meter (Radial)  
Validation Software :- Power Inspect (Delcam)

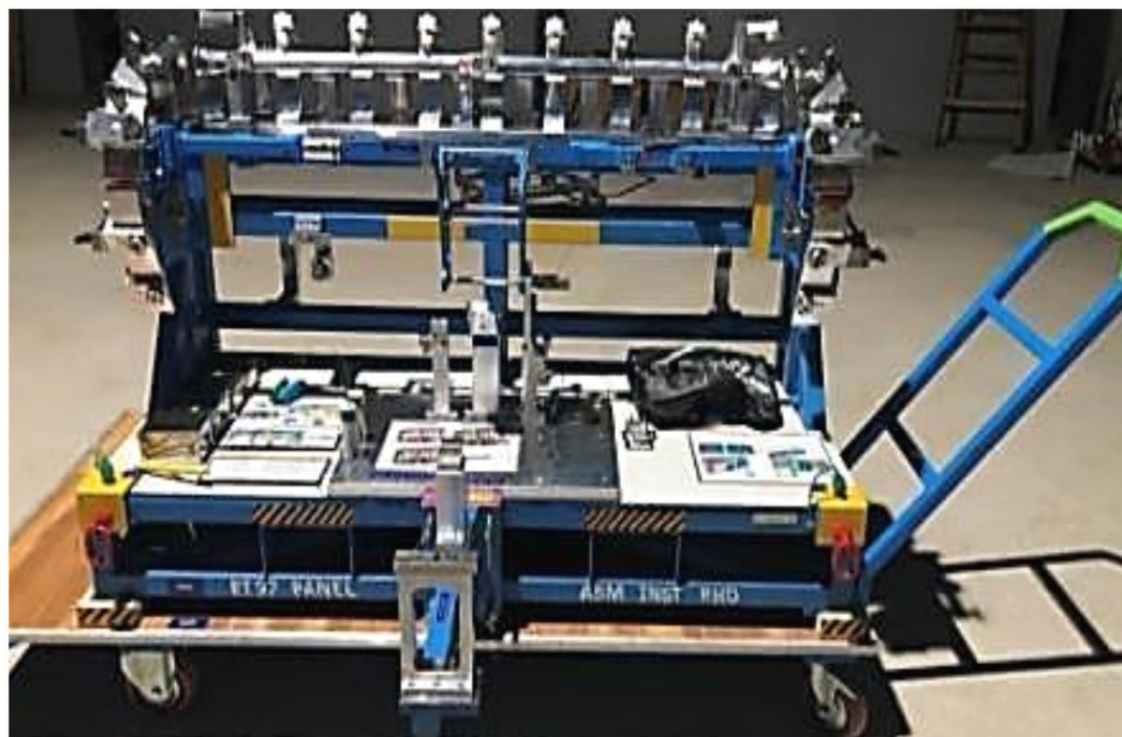


### Co-ordinate Measuring Machine(Spectra)

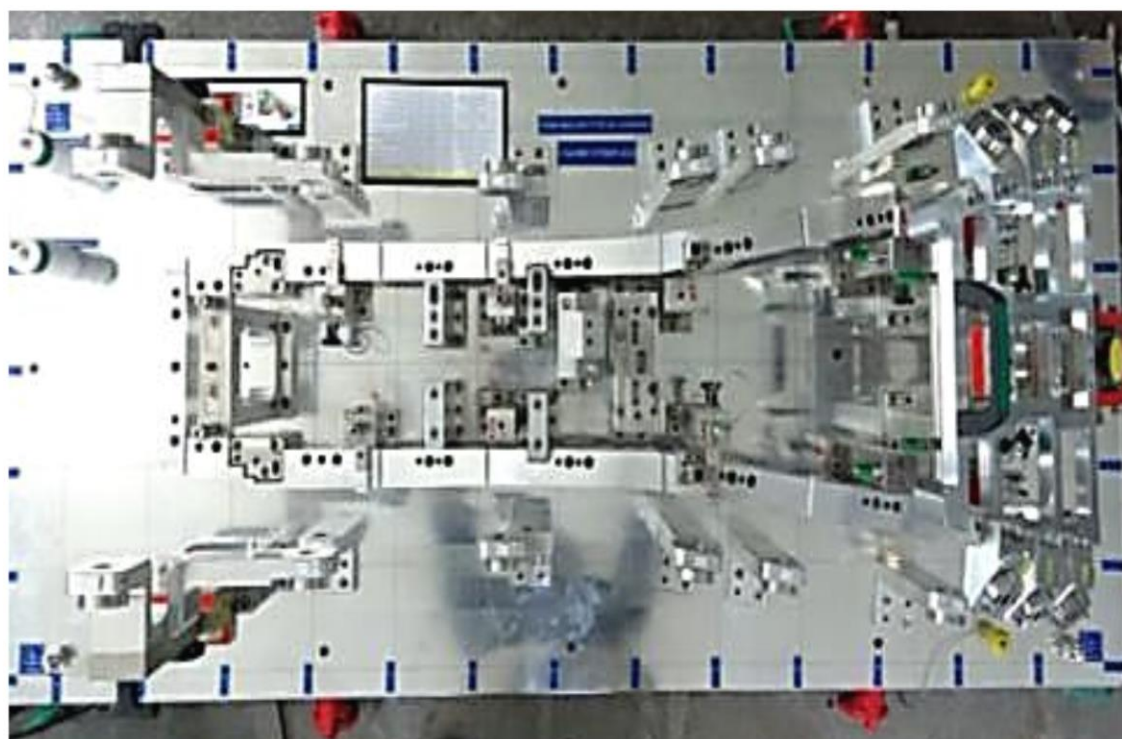
Machine Make :- Accurate (India)  
Type :- Bridge  
Machine Travel :- 800X600X500mm  
Validation Software :- Power Inspect (Delcam)

## Checking fixture:

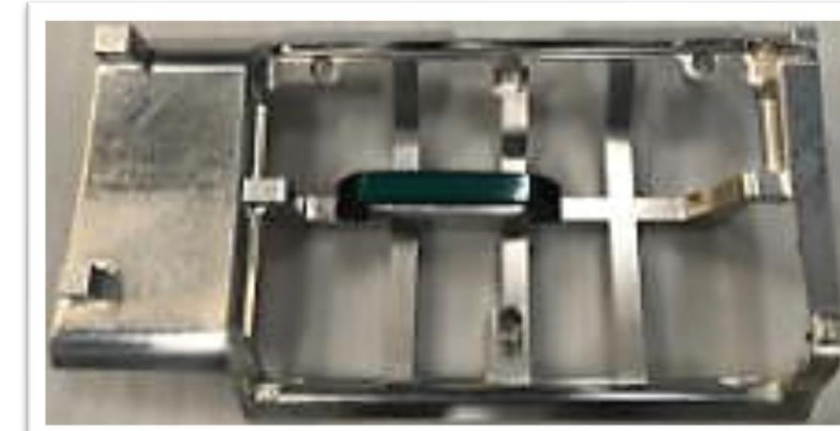
IP ASSEMBLY



CONSOLE ASSEMBLY



CALIPERS

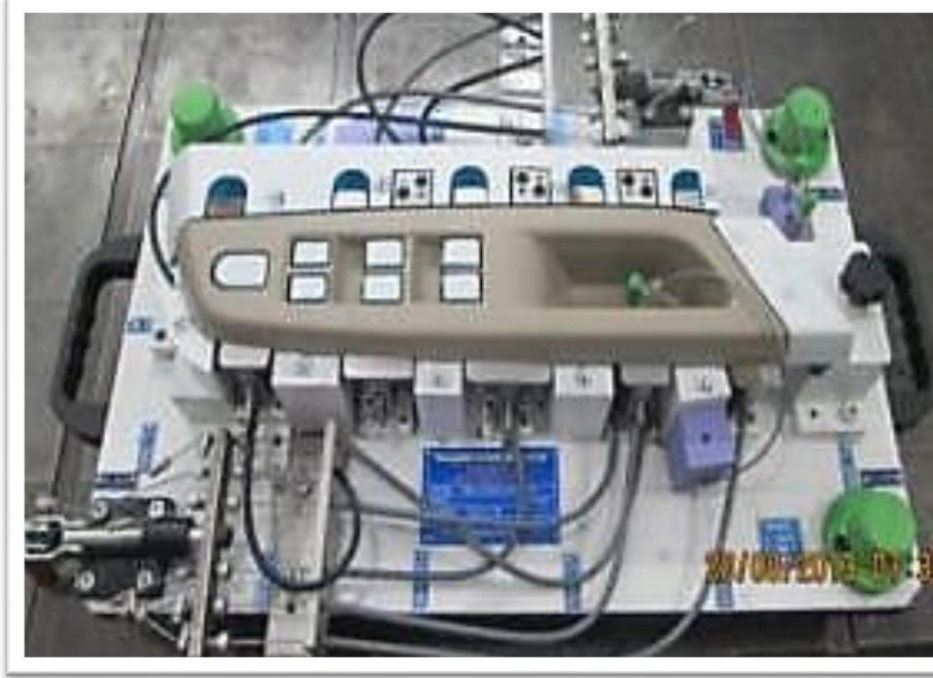


## Checking fixture:

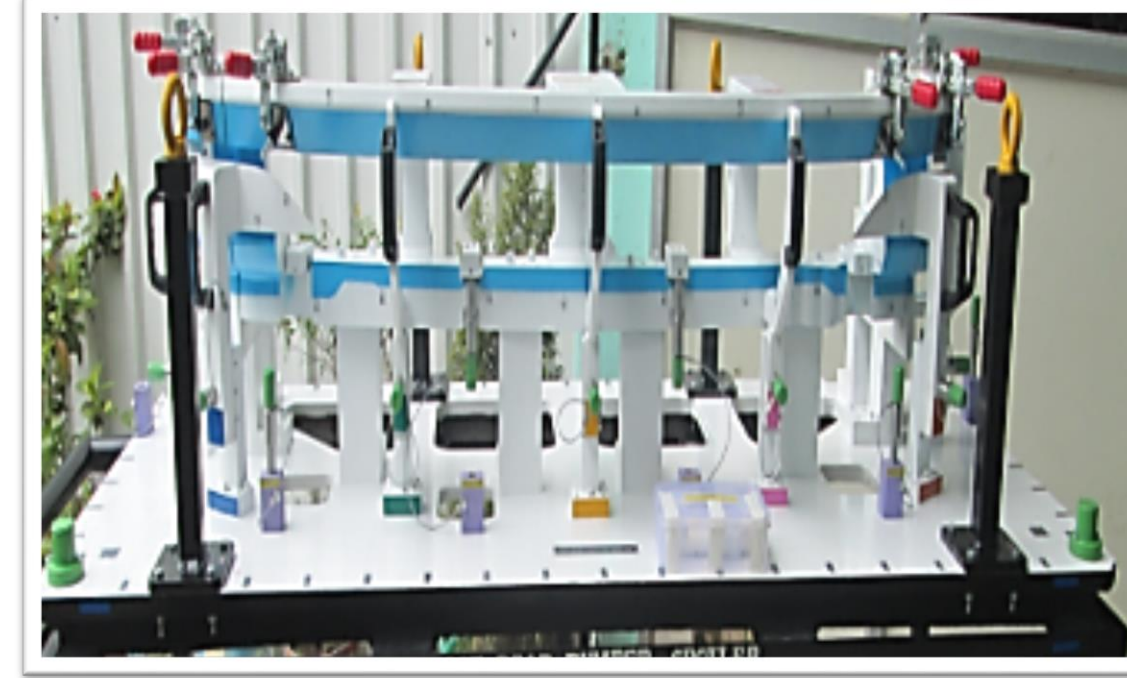
CONSOLE ASSEMBLY



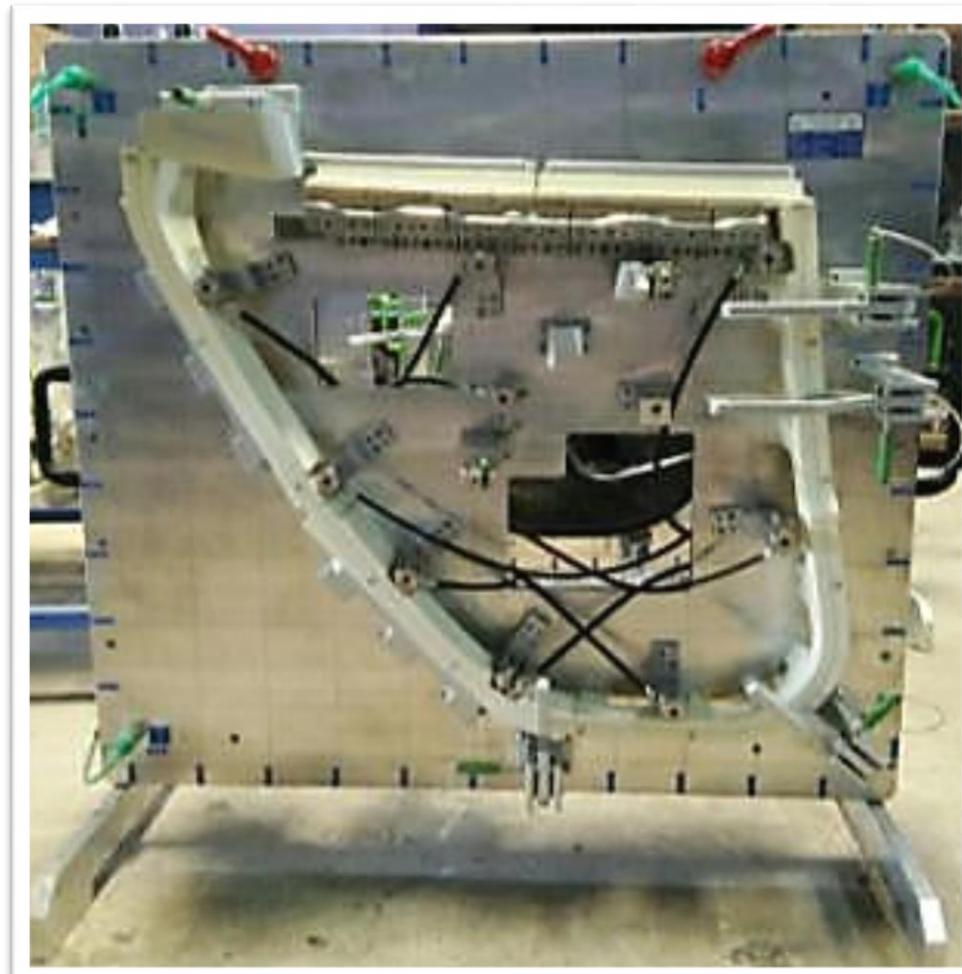
BEZEL RR DOOR



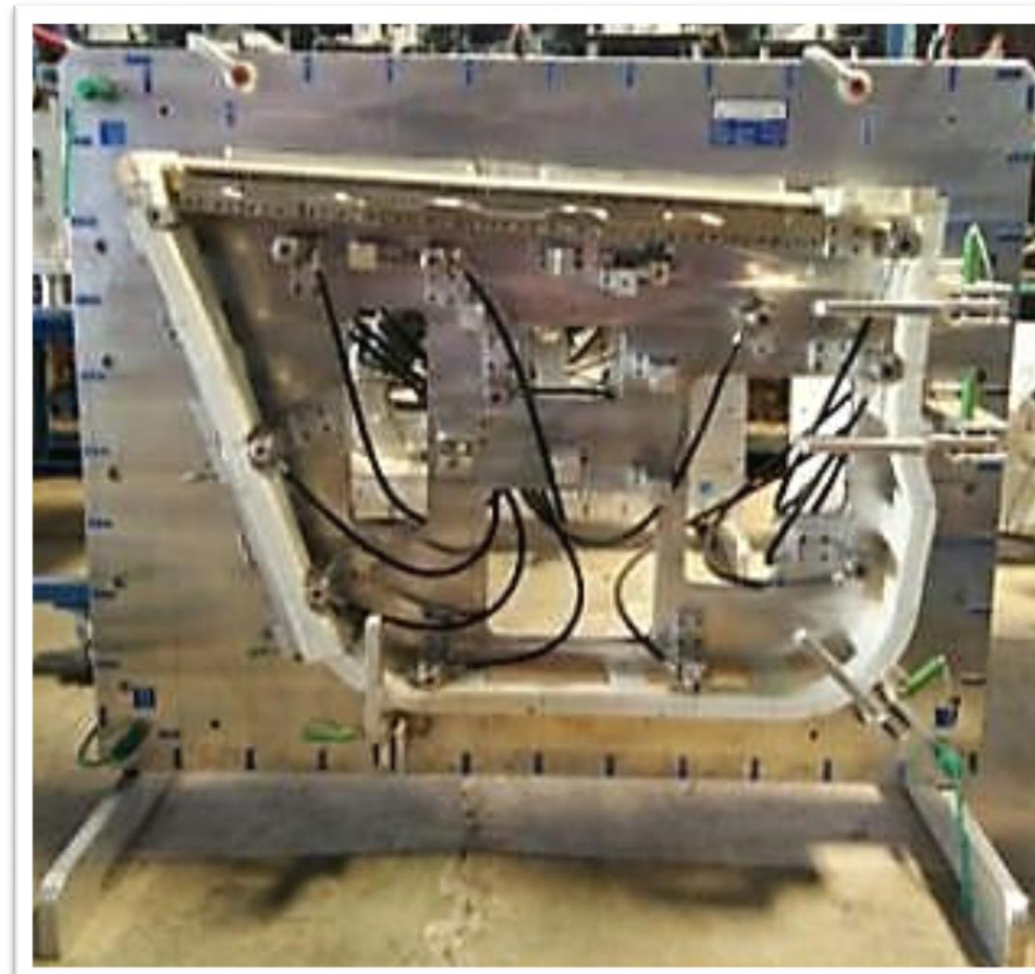
RR BUMPER SPOILER



REAR DOOR ASSY.



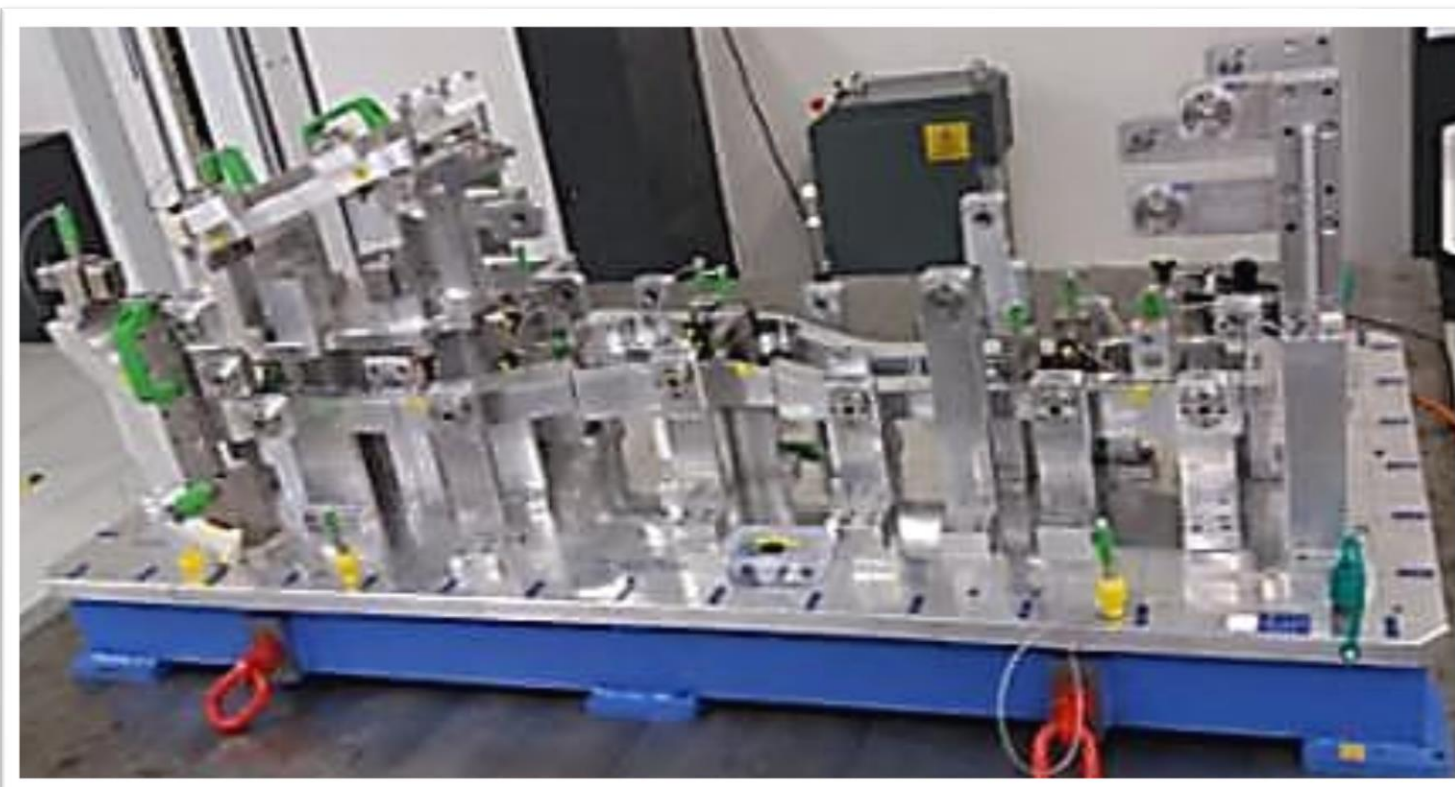
FRONT DOOR ASSY.



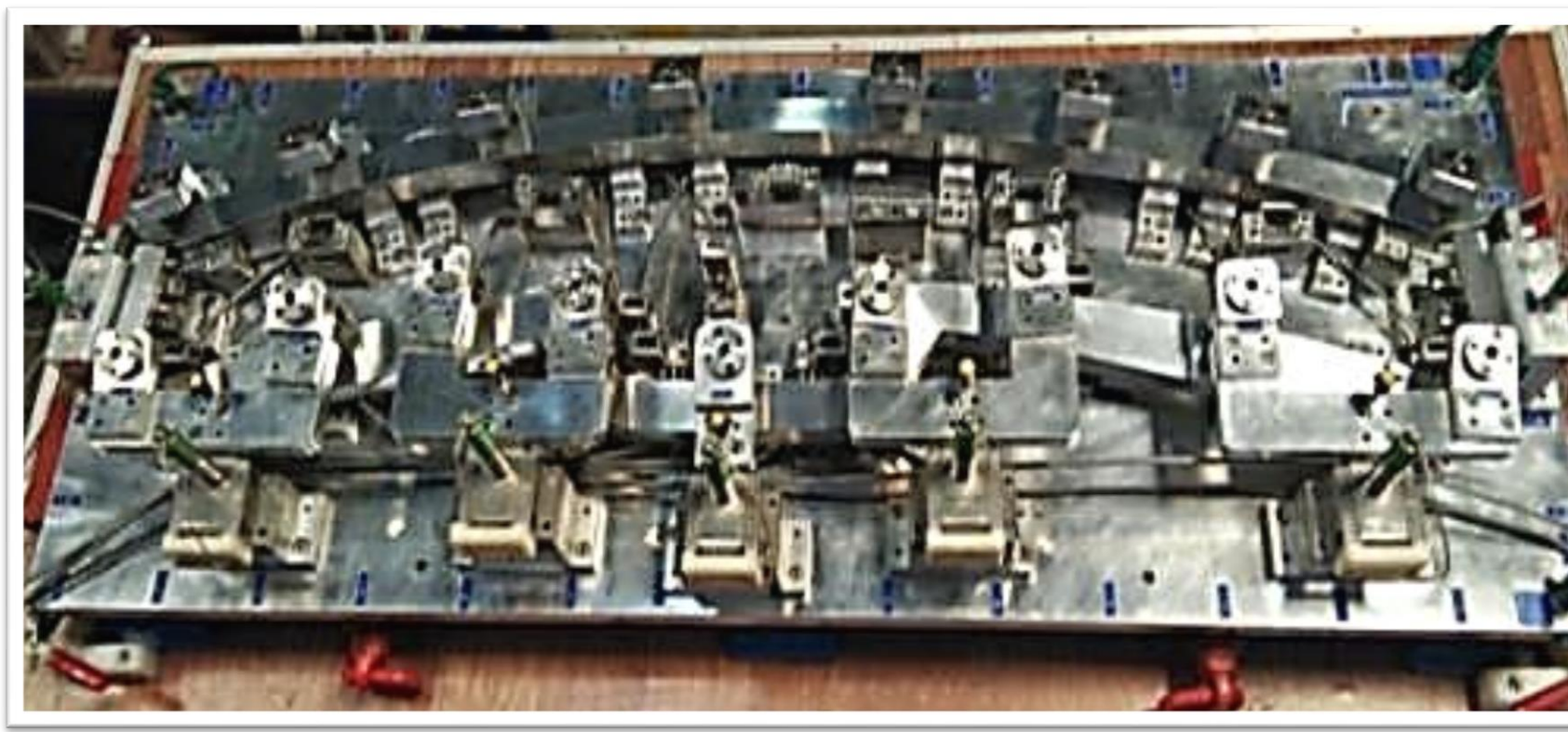


## Checking fixture:

FLOOR CONSOLE ASSY



DEFROSTER GRILLE



BEZEL ASSY.



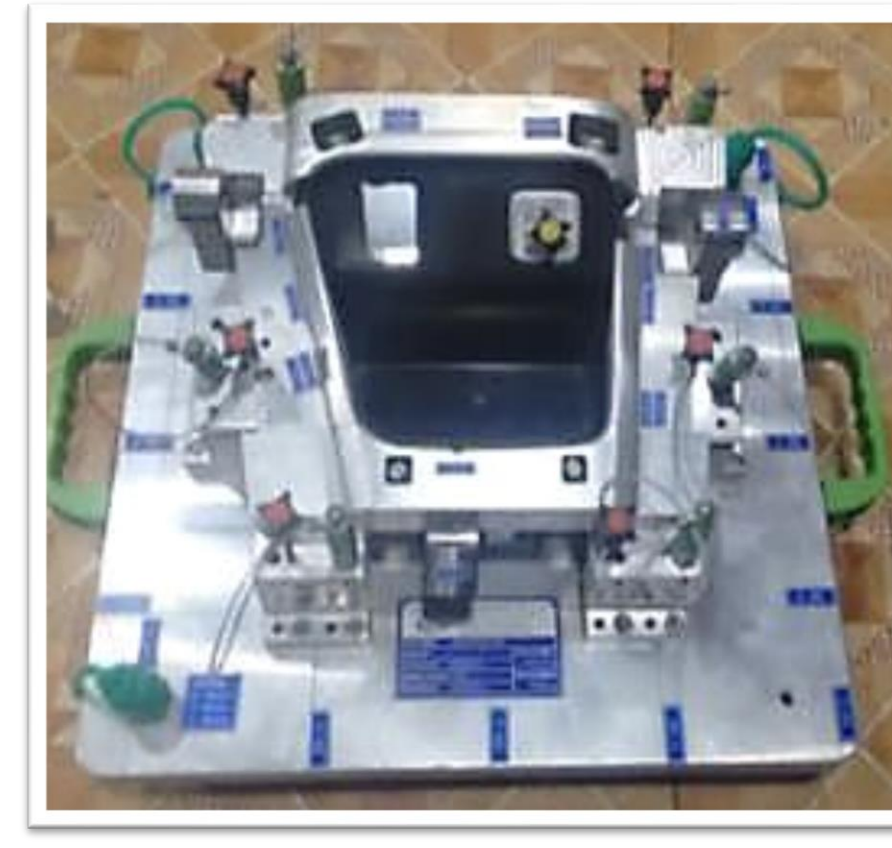
ARMREST ASSY



IP END CAP



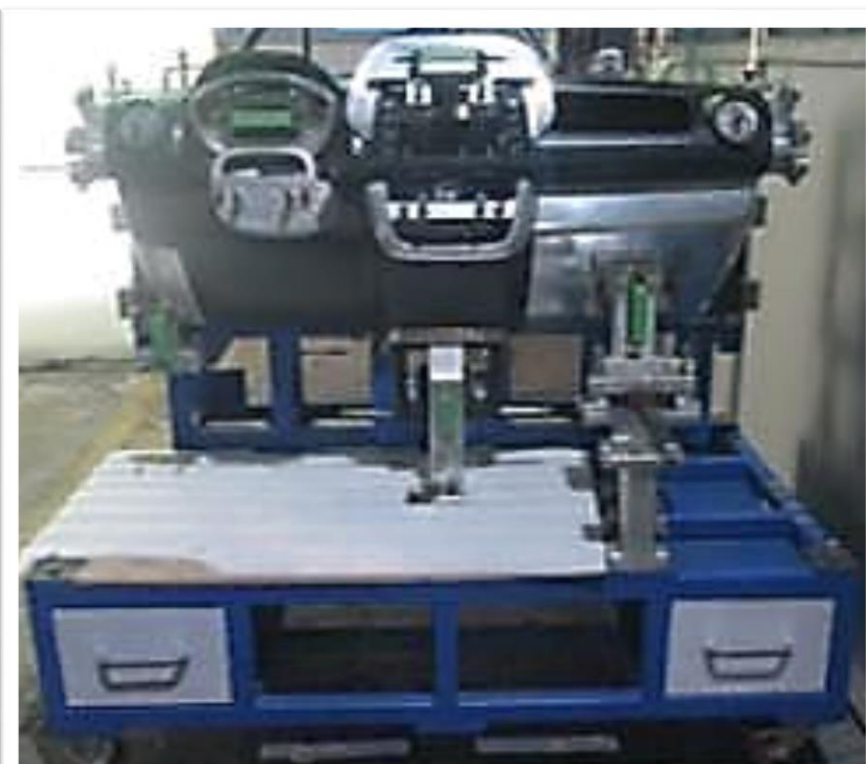
4X2 MEDIA BIN



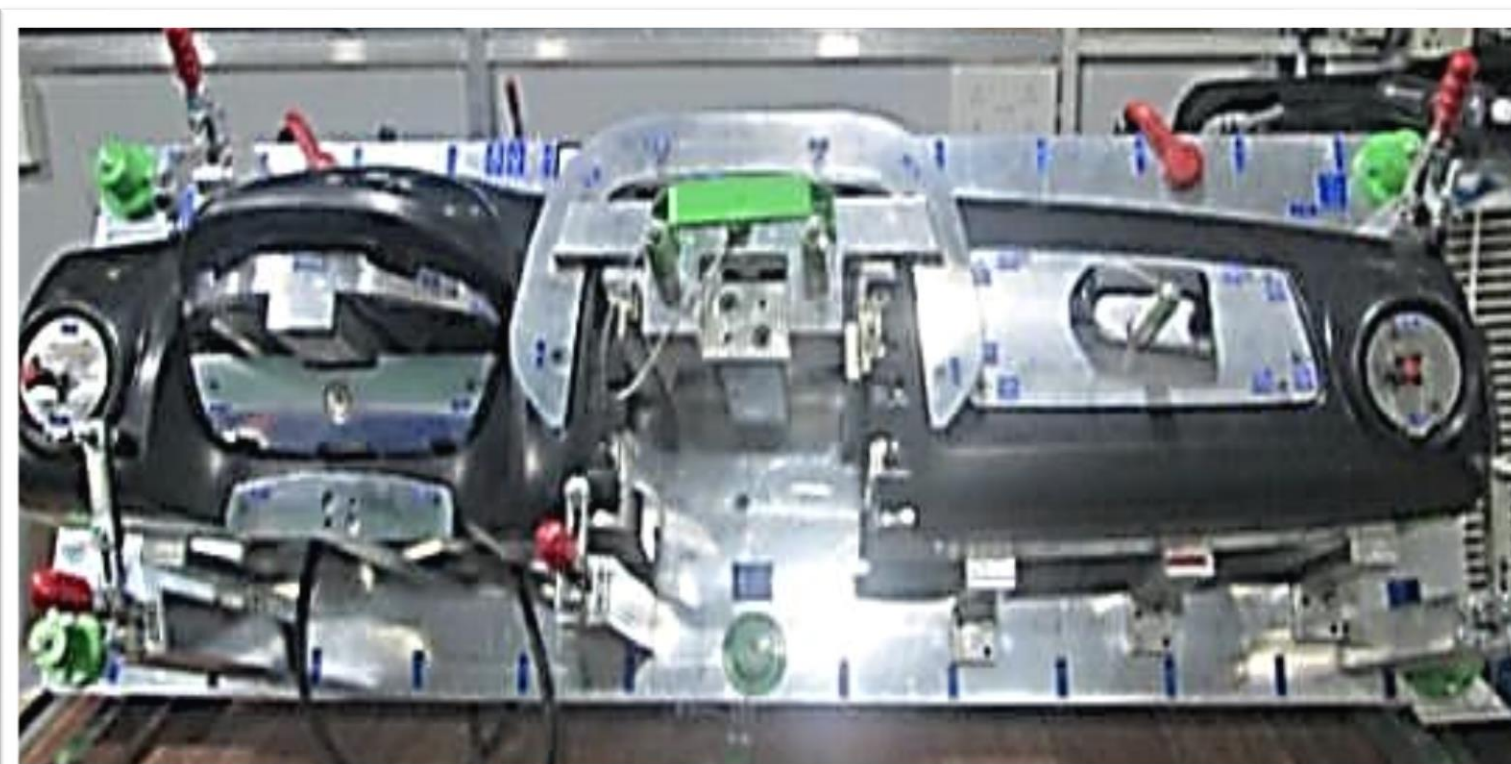


## Checking fixture:

IP ASSY



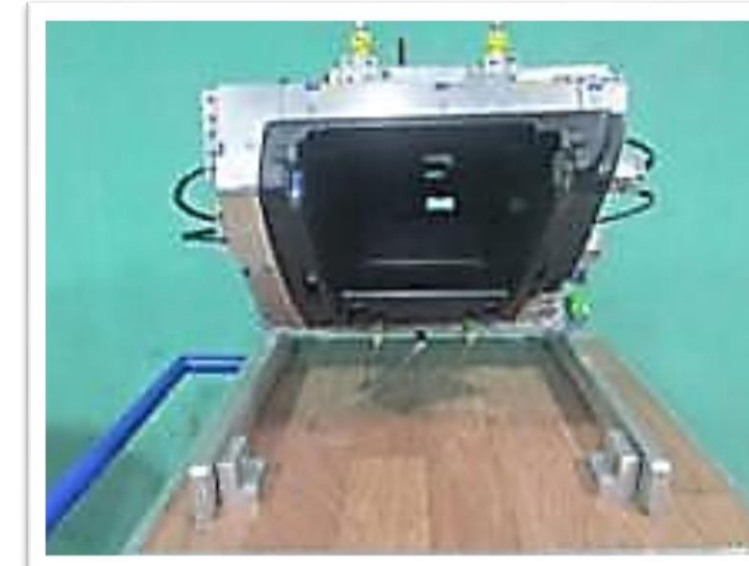
TOPPER PAD.



GLOVE BOX ASSY.



GLOVE BOX BIN



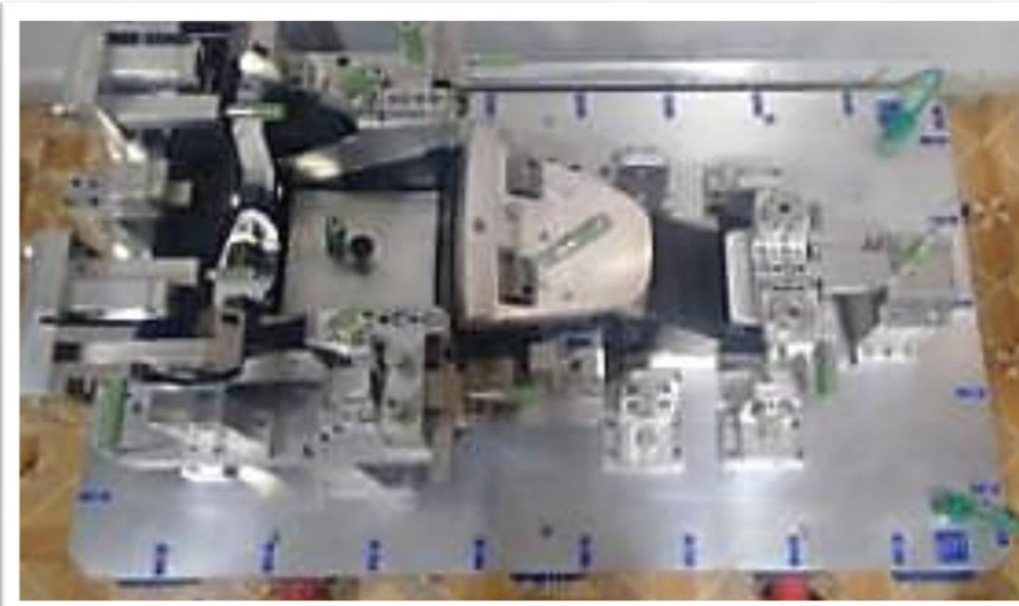
UPPER SHROUD



CONSOLE SIDE PANEL



CONSOLE STRUCTURE



GLOVE BOX OUTER



HMI PANEL ASSY





## Checking fixture:

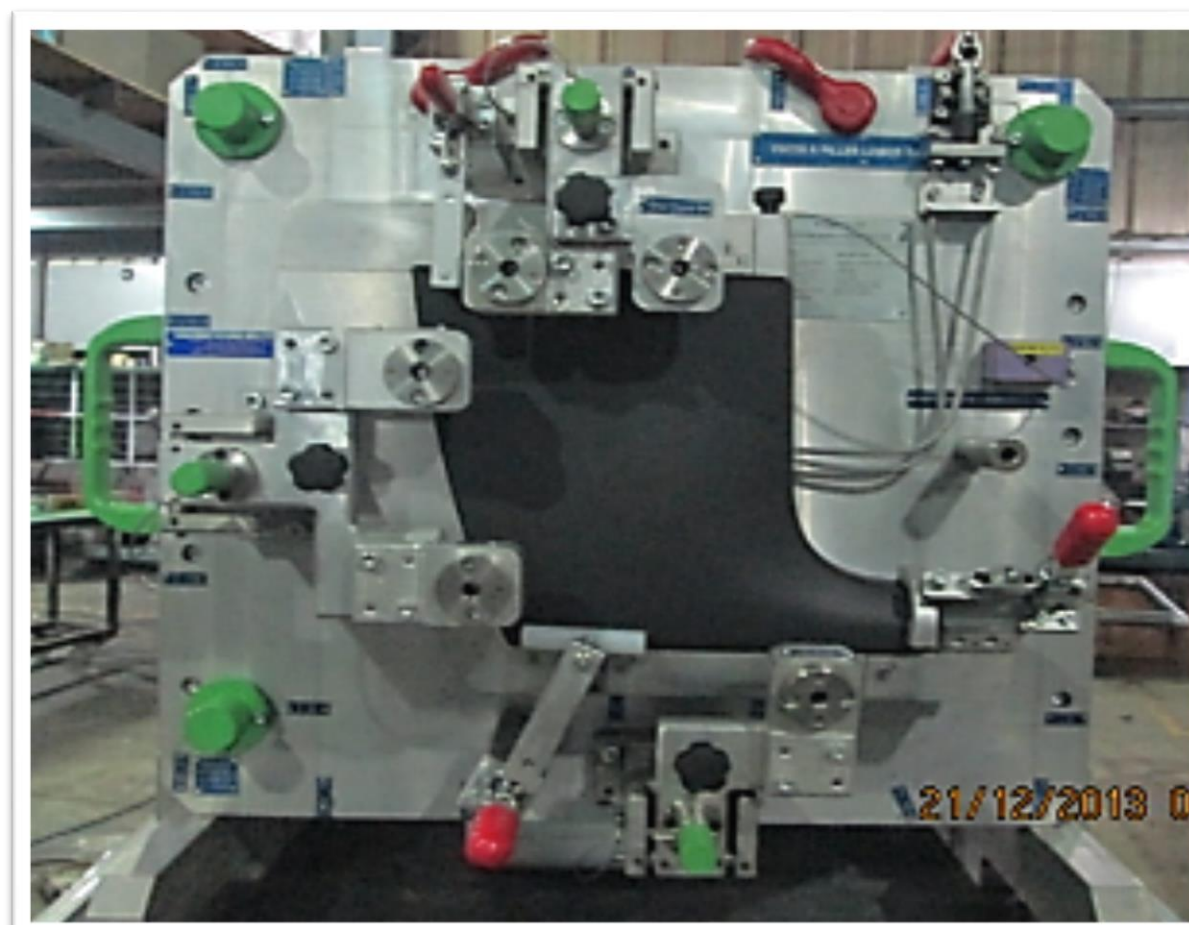
IP ASSY.



REAR BUMPER



A PILLAR LOWER



FRONT BUMPER





## Testing Fixture:

QTR ASSY



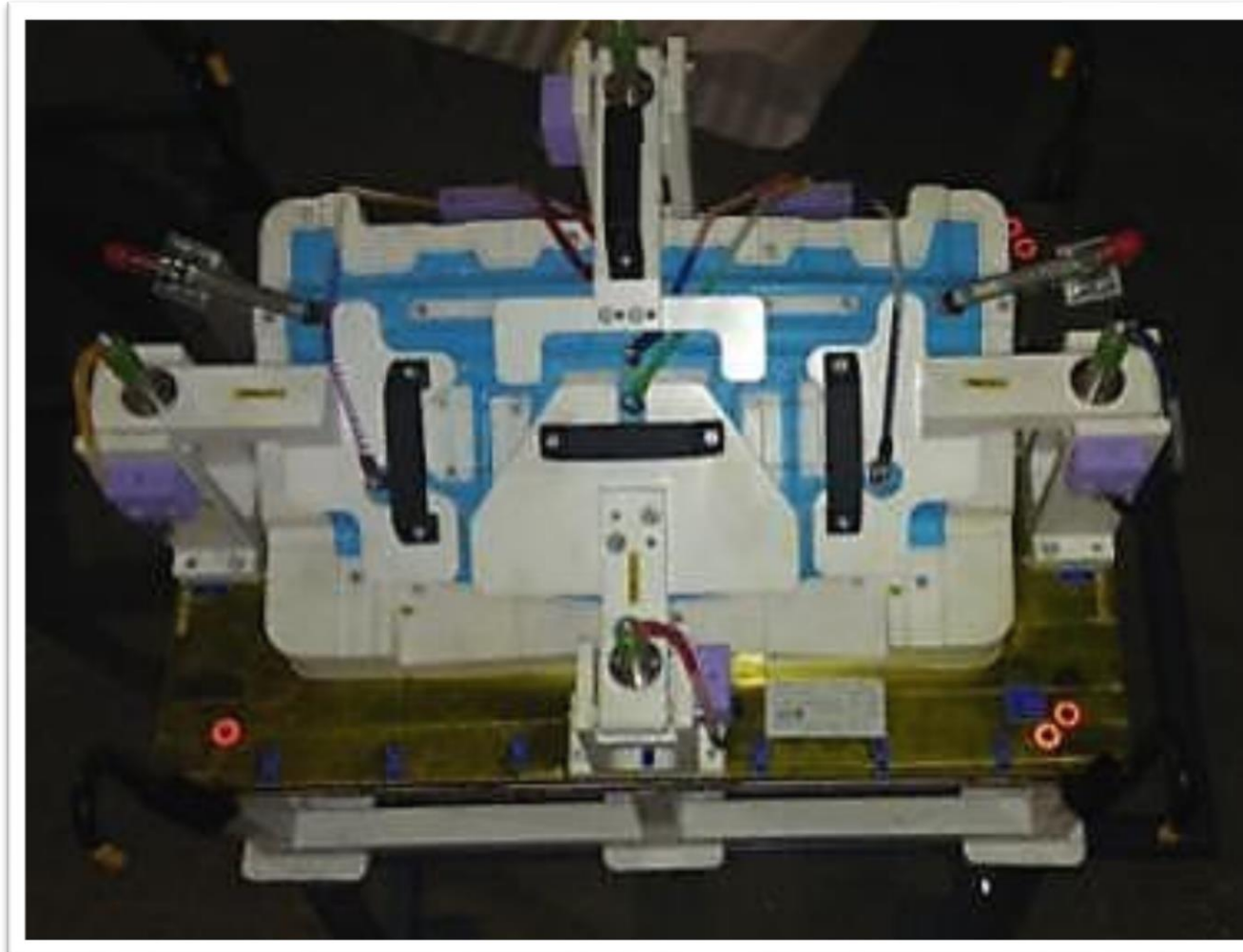
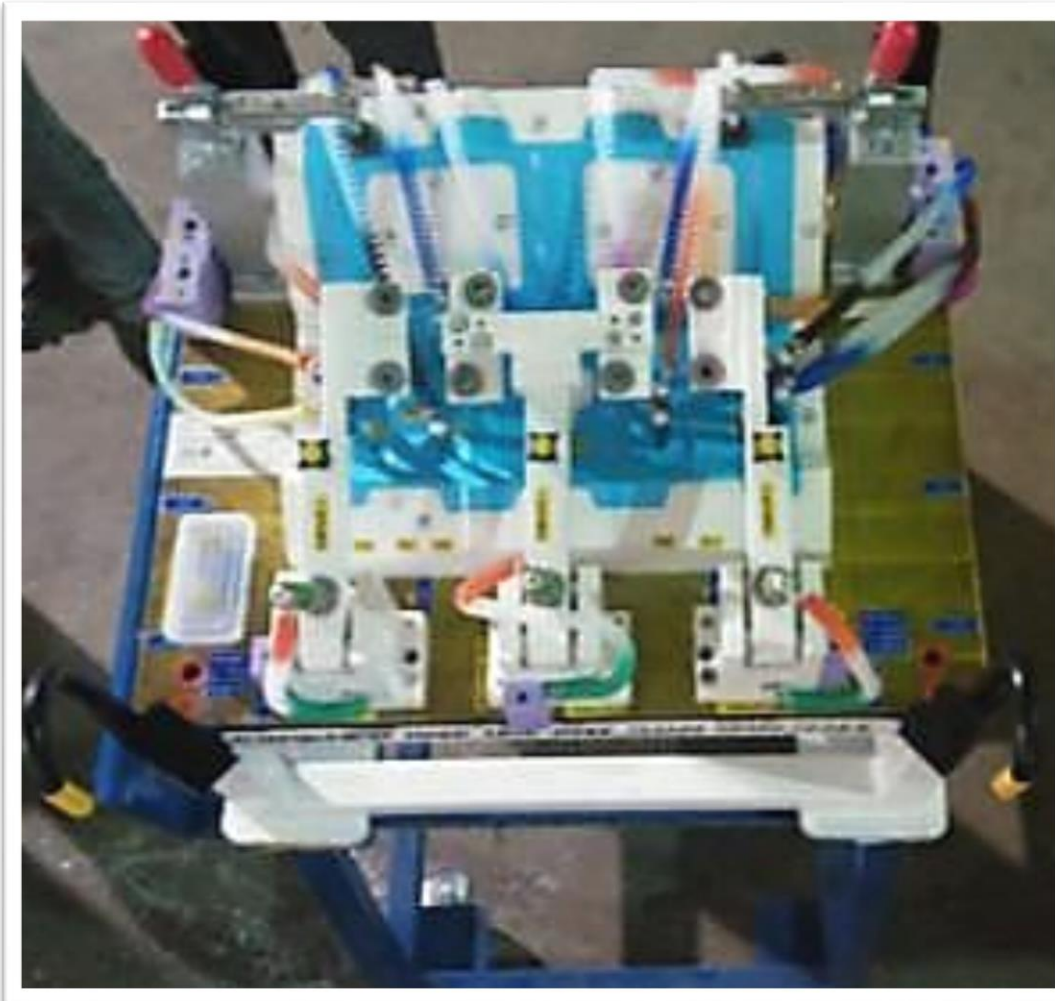
REAR DOOR ASSY



FRONT DOOR ASSY.



## Panel Checker:





# ISO 9001:2015 CERTIFICATE





# OUR PRESTIGIOUS CLIENTS

## OEM'S



## EXPORTS

SHIN-HO  
KOREA



## TIER -1



## TOOL MAKER





## OUR PROJECTS

| OFFSHORE CHECKING FIXTURES PROJECTS |         |                                      |                                                                                       |                                                                                                                                                                                                                                                                  |                  |
|-------------------------------------|---------|--------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| SR. No.                             | Project | Customer                             |                                                                                       | Commodity                                                                                                                                                                                                                                                        | Country          |
| 1                                   | K52_BST | Faurecia Interior Systems            |    | C- PILLAR LH/RH, D-PILLAR LH/RH, TRIM SIDE PANEL, SCUFF PLATE, BACK DOOR.                                                                                                                                                                                        | EUROPE (ROMANIA) |
| 2                                   | X104    | ZHEJIANG TAOSHI GROUP HUALONG CO.LTD |   | CONSOLE SIDE PANEL RH/LH, EXTENTION PANEL RH/LH, CONSOLE UPPER PANEL(BASE), CONSOLE UPPER PANEL (HIGH), CONSOLE SIDE GARNISH RH/LH, CONSOLE REAR FINISHER HIGH.                                                                                                  | CHINA            |
| 3                                   | Q501    | ZHEJIANG TAOSHI GROUP HUALONG CO.LTD |  | DEFROSTERT CHANNEL , IP UPPER SUBSTATE INJECTED (HARD), CENTRAL TRIM FINISHER LH/RH, INSTRUMENT CLUSTER HOOD (HARD), GLOVE BOX OUTER LID, GLOVE BOX INNER LID, END COVER LH/RH, CENTRAL LOWER PANEL, DRIVER LOWER PANEL , CHUTE CHANNEL, INSTRUMENT PANEL LOWER. | CHINA            |
| 4                                   | Q501    | SHIN HO                              |  | SAV HOUSING LH/RH, SAV CHROME_BEZEL LH/RH, CAV HOUSING LH/RH                                                                                                                                                                                                     | KOREA            |
| 5                                   | X451    | SHIN HO                              |  | SIDE A/V ASSY. RH/RH, CENTRE A/V MOUNTING, SAV HOUSING LH / RH, SAV BEZEL LH / RH, CAV HOUSING, CAV CHROME RING BEZEL                                                                                                                                            | KOREA            |
| 6                                   | VECV    | HAN JIN DIE & MOLD Co. LTD           |  | FRONT PANEL 1.8 METER & FRONT PANEL 2.0 METER                                                                                                                                                                                                                    | KOREA            |



## VALUE ADDITION

- Sustained Quality & Consistency
- Strong Design experience >40 years cumulative experience
- Young, capable TEAM in place
- New MACHINES/Equipment, “used machines” not taken
- Customer Support/Proactive Responses
- Project Management expertise



## CASE STUDY FOR CRITICAL TOOL DEVELOPED

Preamble: **M/s. Faurecia** approached us to develop a DUMMY CCB for RT97 IP Assy Gauge

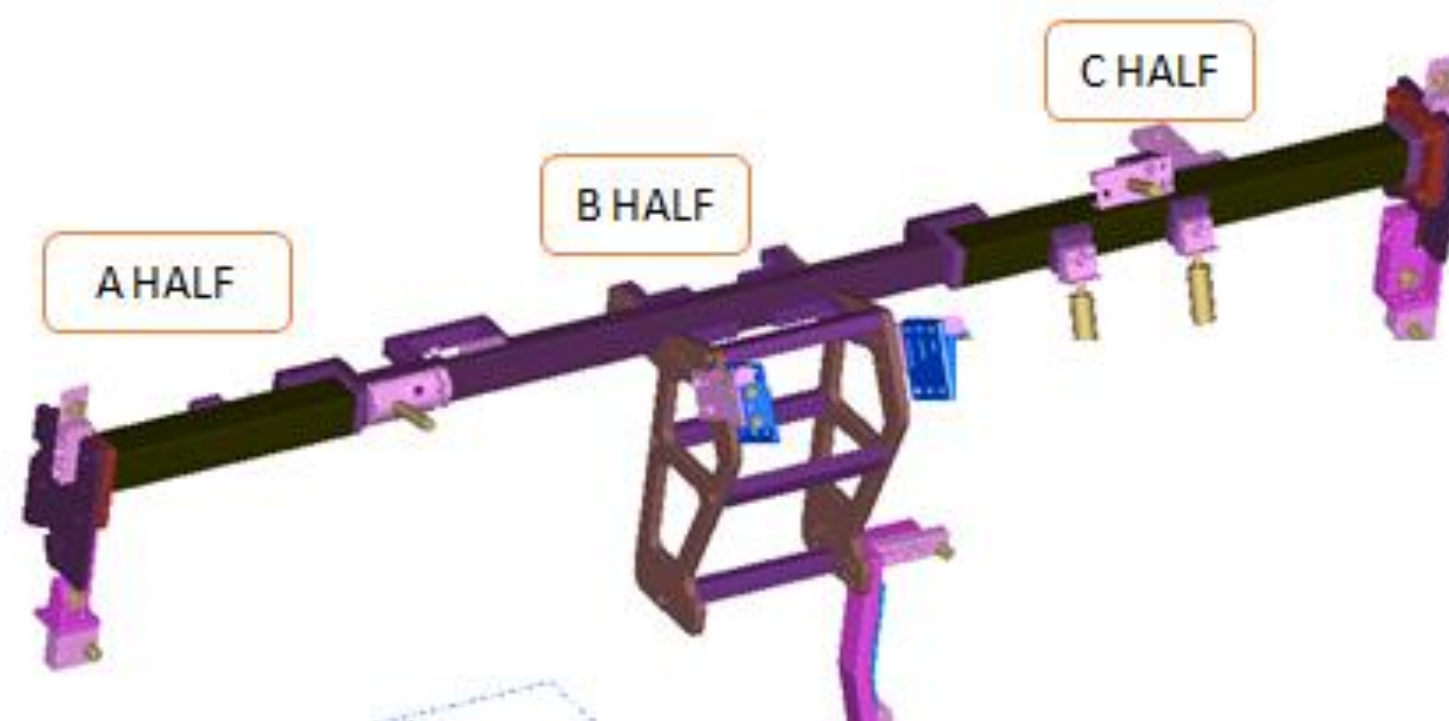
This part was being developed for Faurecia India first time Indigenously

Special value-addition by CHALLENGE

Faurecia explained the processes used overseas

Overseas supplier made the MS welding structure & then do the 5 Axis machining.

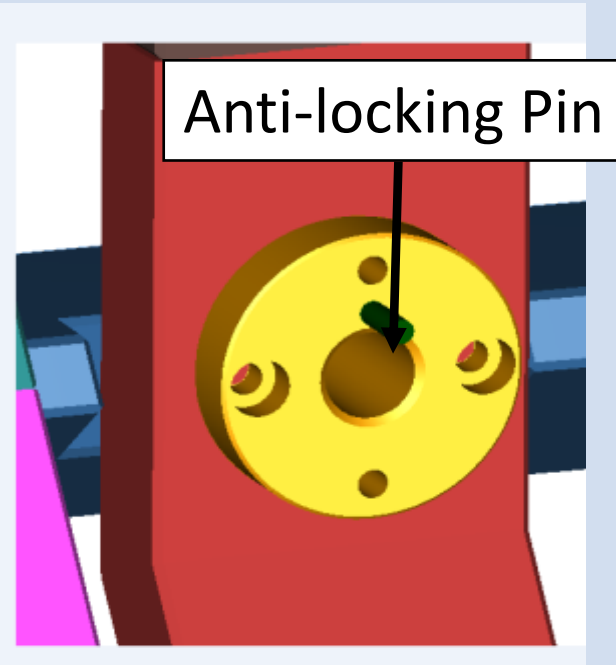
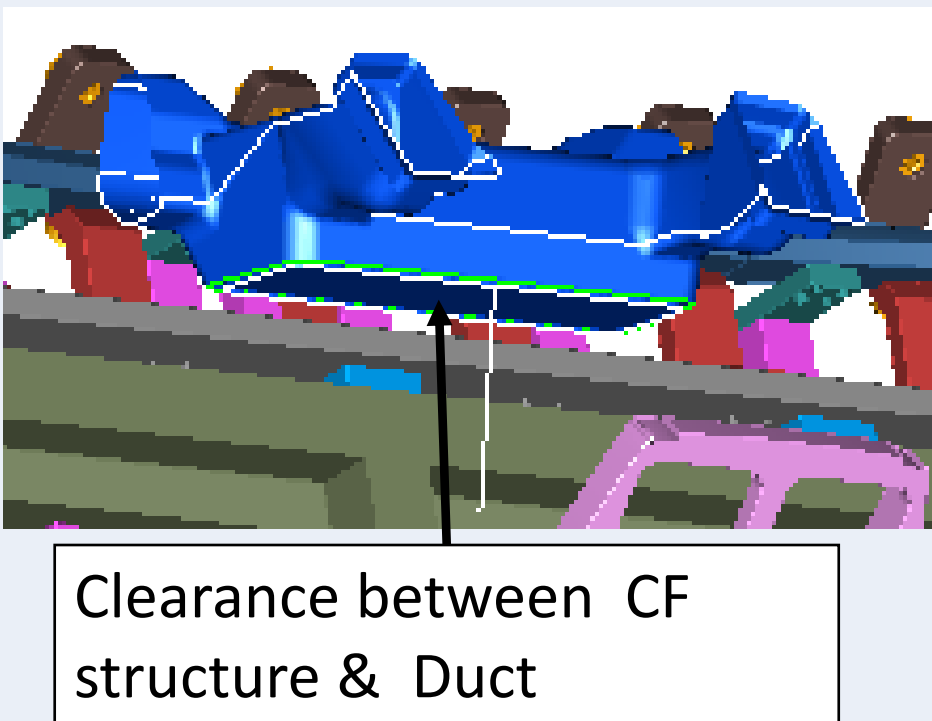
Challenge adopted a different route/method which was helpful to do the ECN, same explained to Faurecia and got approval for the same



Even tough it was a new technology for Challenge, the product was delivered in time

Customer expressed satisfaction on this project by Challenge

## LESSON LEARNT

| SR. NO. | IMAGE                                                                                | CONCERN                                                                                                                                                                           | ACTION                                                                                              |
|---------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| 1       |    | Ant locking pin for Blade Tip Dial Indicator bushing position shift, so while part checking blade tip dial indicator blade not properly hit on the part profile as per CF design. | Blade tip dial indicator anti-locking pin position to be checked on CMM.                            |
| 2       |  | In IP Assy gauge, clearance between Defroster Duct & gauge structure maintained 5mm. But in actual condition due to part behaviour maintained clearance is less.                  | While designing IP Assy gauge maintain minimum 10mm clearance between any duct parts & CF elements. |



## LESSON LEARNT

| SR. NO. | IMAGE | CONCERN                                                                                                                         | ACTION                                                                                                                                                               |
|---------|-------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3       |       | Dummy calipers rejected while doing VMC machining.                                                                              | While designing dummy caliper take care of dummy strength by adding additional support at non functional area.                                                       |
| 4       |       | Door simulation template fouling with each other while opening & closing.                                                       | When split the door template in angle, maintain sufficient gap ( minimum 10mm) between two half OR to check open & close condition in CAD & maintain sufficient gap. |
| 5       |       | Due to less clearance between base wooden trolley & CF structure , not feasible to park the trolley handle as per gauge design. | Maintain nylon guide block height as per CAD.                                                                                                                        |



LESSON LEARNT

| SR. NO. | IMAGE | CONCERN                                                                                               | ACTION                                                                                                                                                                                             |
|---------|-------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6       |       | Play observed in profile Aluminum swing template after certain period due to wear & tear of swing arm | <ol style="list-style-type: none"><li>1. Avoid direct contact of aluminum swing arm &amp; aluminum mounting stand by using SS bushes .</li><li>2. Use SS swing arm &amp; mounting stand.</li></ol> |



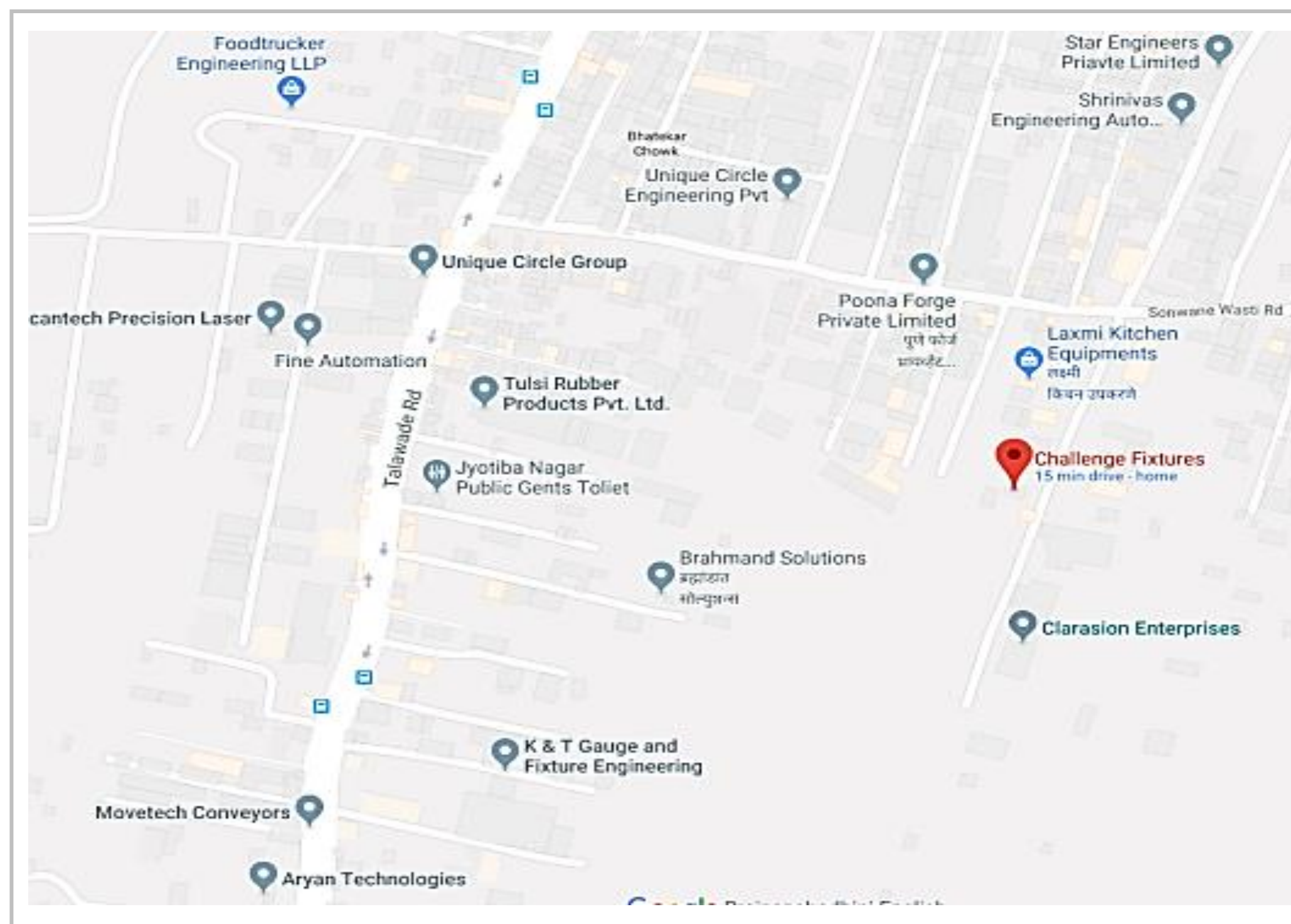
# GROWTH PLANS / EXPANSION

Challenge Fixtures has following GROWTH TREND:

| Annual Sales           | Financial Year |                                                               |
|------------------------|----------------|---------------------------------------------------------------|
| 75 Million INR         | 2015-16 Actual |                                                               |
| 98 Million INR         | 2016-17 Actual |                                                               |
| 107 Million INR        | 2017-18 Actual |                                                               |
| 13 0 Million INR       | 2018-19 Plan   | 2 Product Ranges – Plastic CF, Sheet Metal CF                 |
| 195 Million INR        | 2019-20 GOAL   | 3 Product Ranges – Plastic CF, Sheet Metal CF, Proto-Type Mfg |
| New Facility at Chakan |                |                                                               |



## LOCATION MAP



### Driving Distances

- Tata Motors – 7.5 km
- Fiat India – 60 Km
- Reydel Automotive India Pvt. Ltd., Hinjewadi – 26 km
- Mahindra Vehicle – 6.5 Km
- Volkswagen – 10 Km
- Faurecia Interior Systems India Pvt. Ltd, Bhosari – 11 Km



# CONTACT US

## CHALLENGE FIXTURES INDIA PRIVATE LIMITED

GAT NO 1534,PLOT NO 4, SONAWANE  
WASTI,CHIKHLI,, PUNE, Maharashtra.

**Mobile:** Mr. Mahesh +919922915953  
Mr. Pankaj +919922915954

**Email:** [challenge.fixturesindia@gmail.com](mailto:challenge.fixturesindia@gmail.com)





Challenge Fixtures India Pvt Ltd

THANK YOU!