

Tekpro Automation LLP

Your Engineering Partner



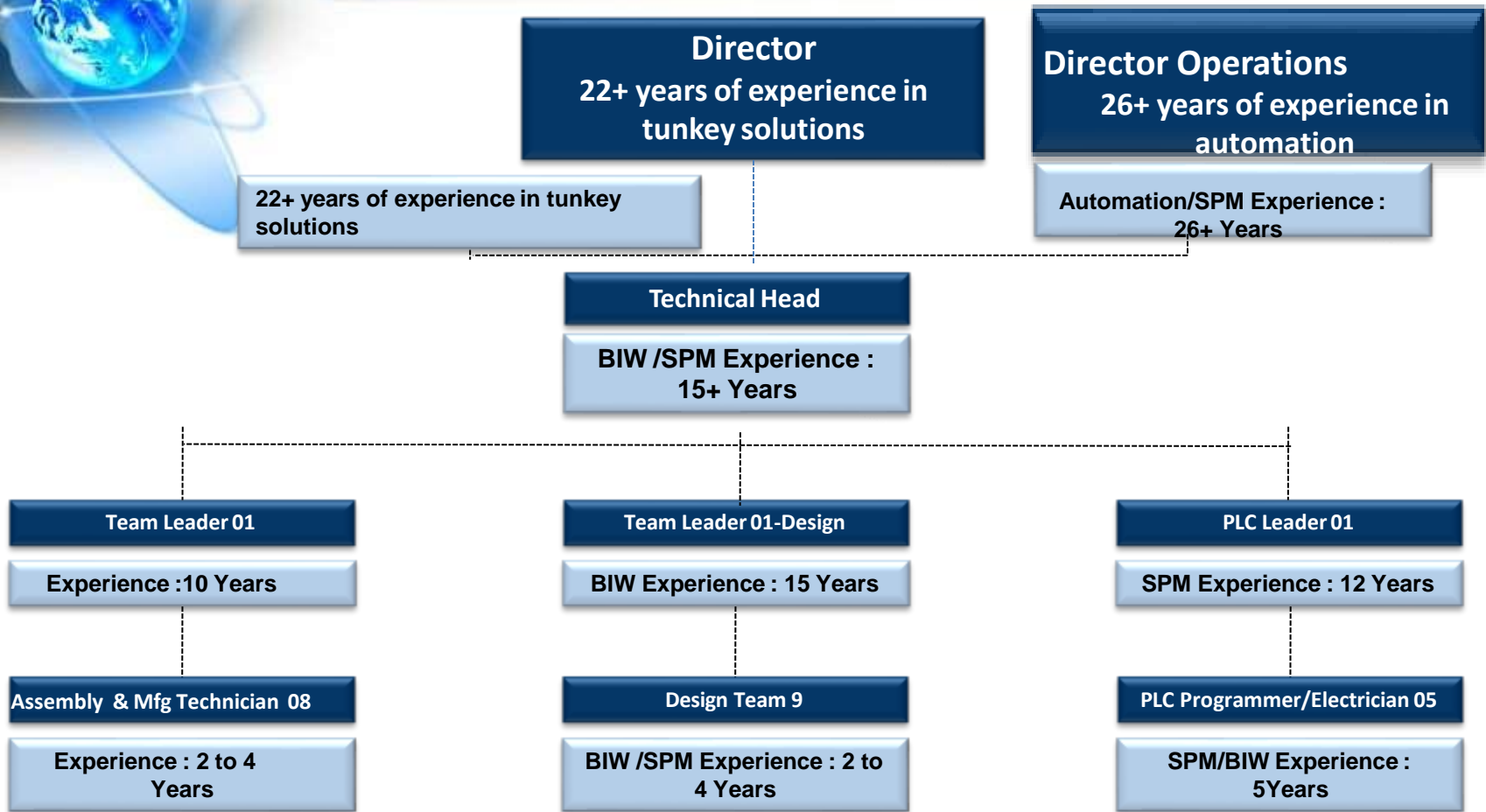


Mission Statement

To be a ***customer focused organization***, to provide ***Quality Engineering, Services & Turnkey Solutions*** with ***Value for Money***.



Current Organisation Structure- Engineering & Turnkey



Inhouse Total Team
strength= 28

Contractual Team
strength= 12



Portfolio-Turnkey Supply

- ❖ Holding, checking ,welding Jigs & Fixtures- Turnkey supply for Automotive/Non-Automotive Tier 1 suppliers.
- ❖ Assembly line SPM
- ❖ Material Handling Equipment Turnkey Supply-Trolley, Pallets, Conveyors, Manipulator, Tackle, Automatic carts Assembly Conveyors etc.
- ❖ Contract Manufacturing of parts & large fabrications
- ❖ SPMs: Bush Pressing, Greasing SPM, Rotary tables etc.



Portfolio-Engineering

Design Engineering projects for Powertrain Solutions & SPM

3D Design/ 3D Finish for Powertrain Solutions

2D Detailing (Process/Production drawings/BOM)

Quality Checking of 2D drawings

Technical Documentation

Material Handling Equipment Design & Supply-Trolley, Pallets, Assembly
Conveyors etc.

Design Optimization/Re-Engineering

Data Conversion

Analysis/FEA



Engineering Software's

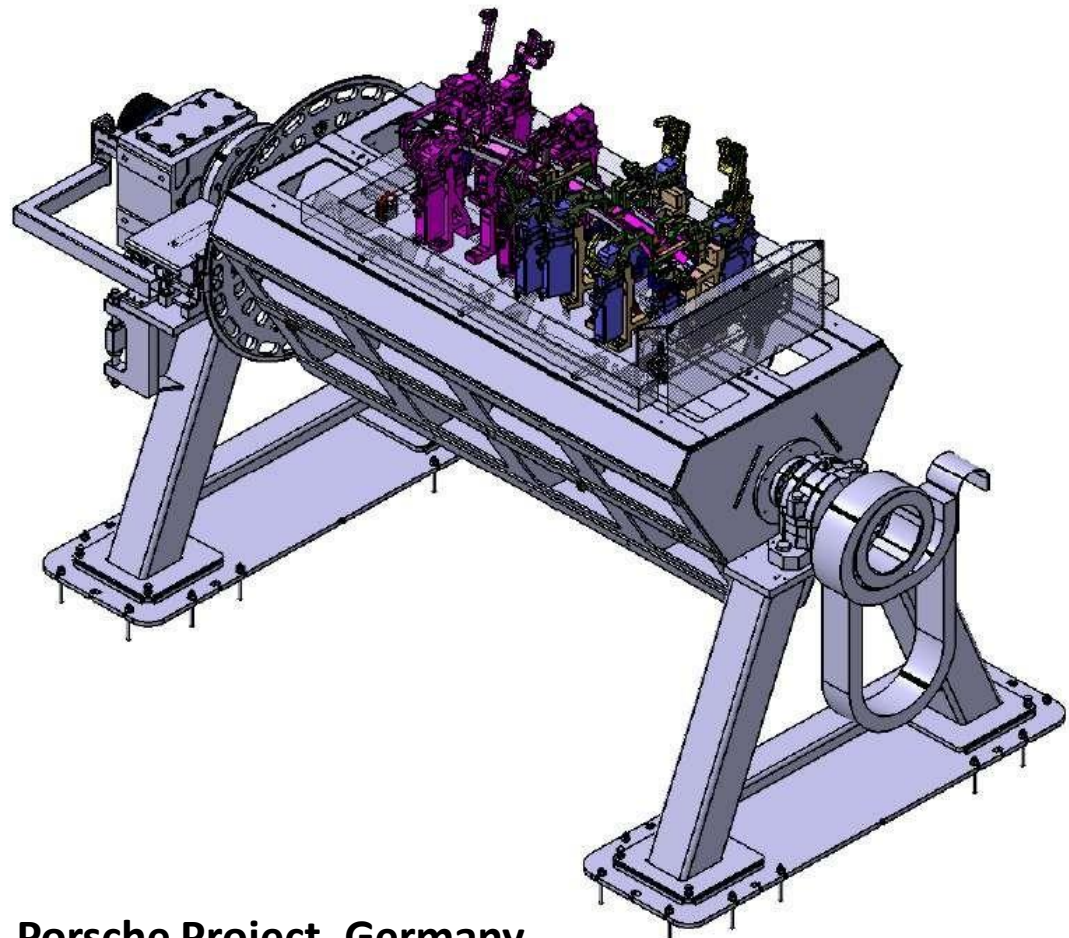
Design platform

NX
Catia V5
Autocad/Solidedge
Fides
Pro E
Solidedge
Solidworks

Analysis Platform

Ansys
Adams
Hypermesh
Nastran

Engineering Projects



Scope of work:

- 3D Design
- 2D Detailing
- Bill Of Material

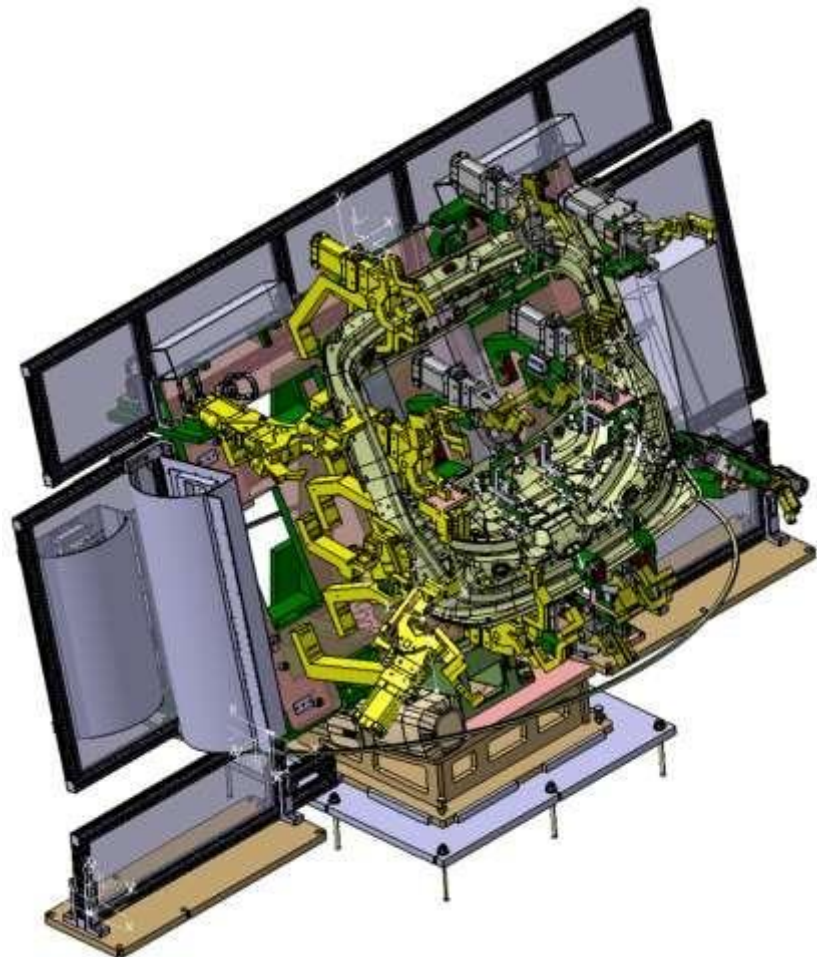
Porsche Project- Germany

Engineering Projects

- **Geo Fixture for PO512 HKL INNENTEIL with turntable**

Scope of work:

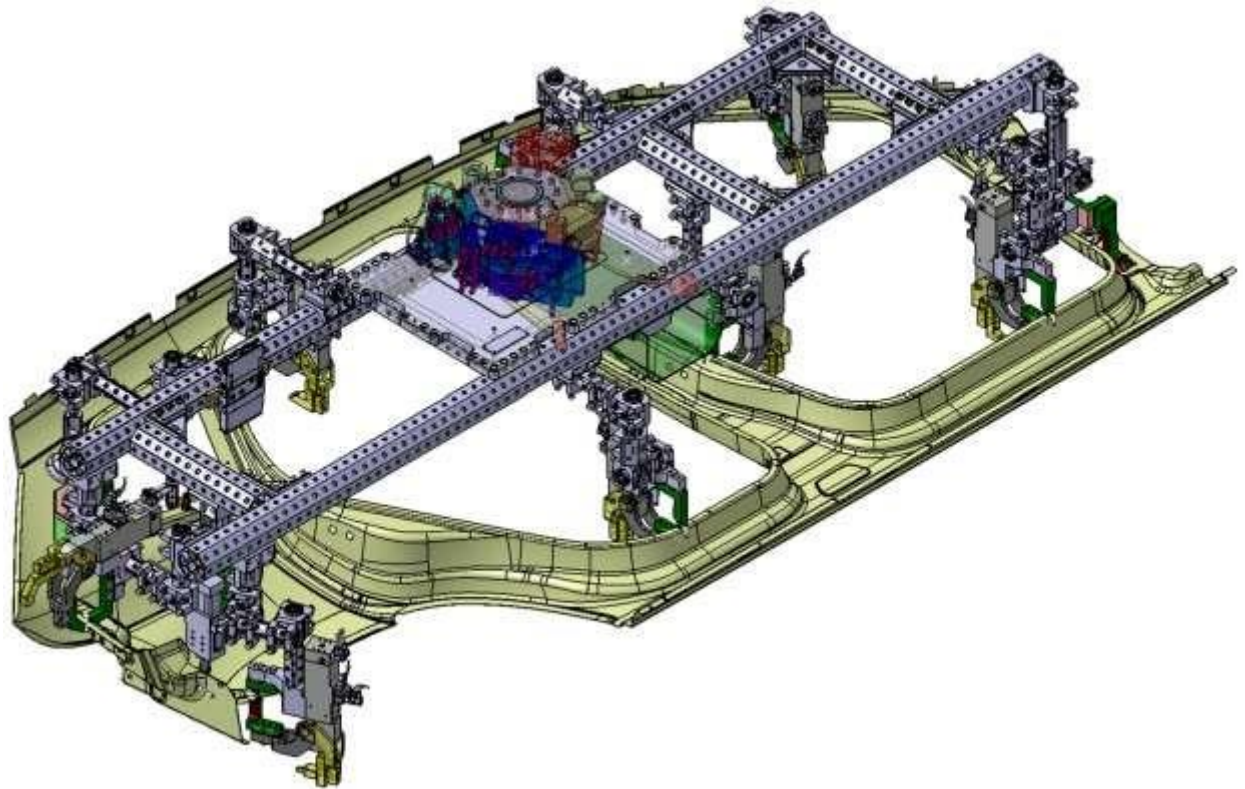
- 3D Design
- 2D Detailing
- Bill Of Material & Documentation





Engineering Projects

- **SK326 Bodyside**

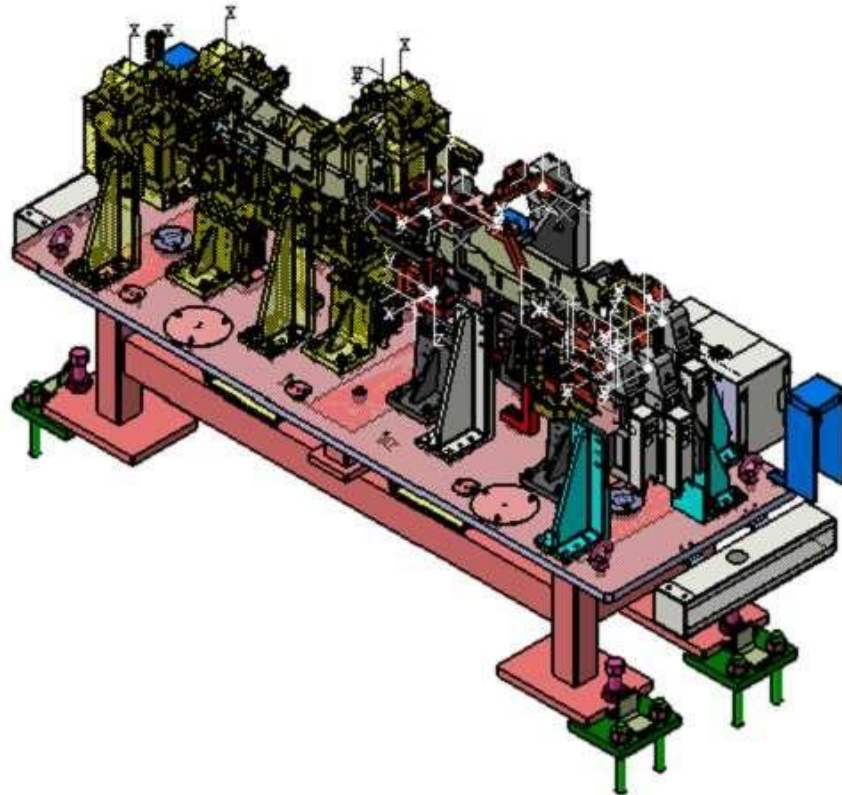


Scope of work:

- 3D Design
- 2D Detailing
- Bill Of Material

Engineering Projects

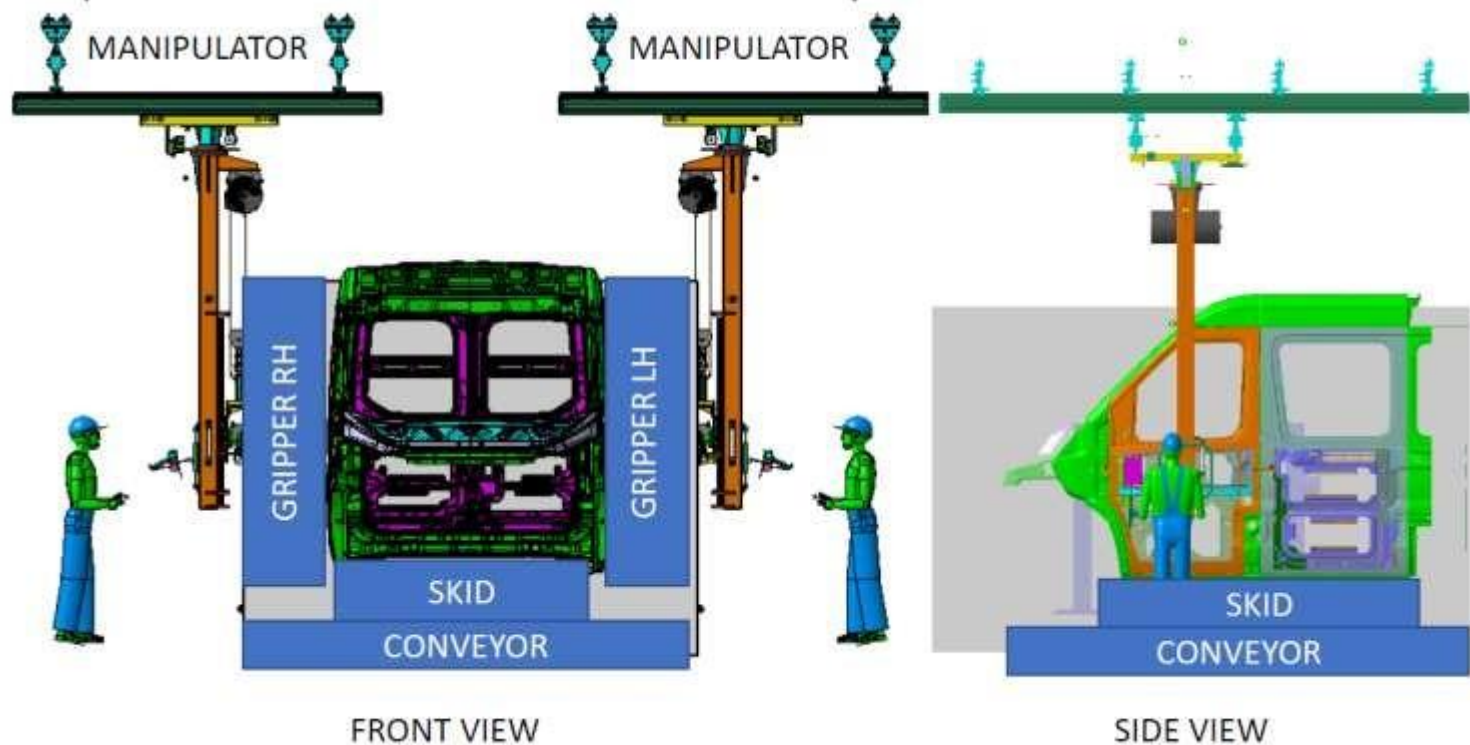
- **VDL_MAGNA TTX445BS027N**



Scope of work:

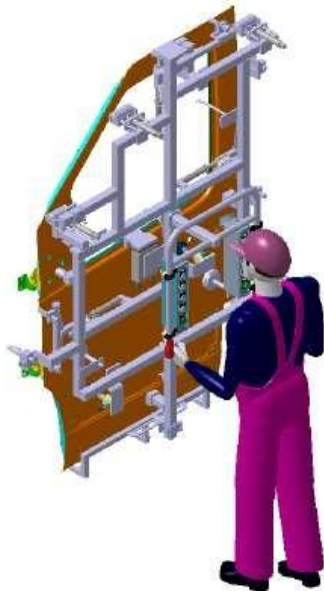
- 3D Design
- 2D Detailing
- Bill Of Material

Material Handling-Tackle & Manipulator

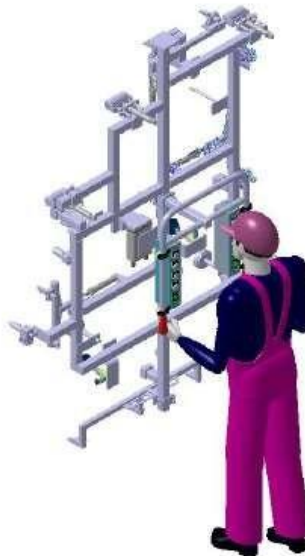




Material Handling- Cab door Gripper



Gripper With Panel



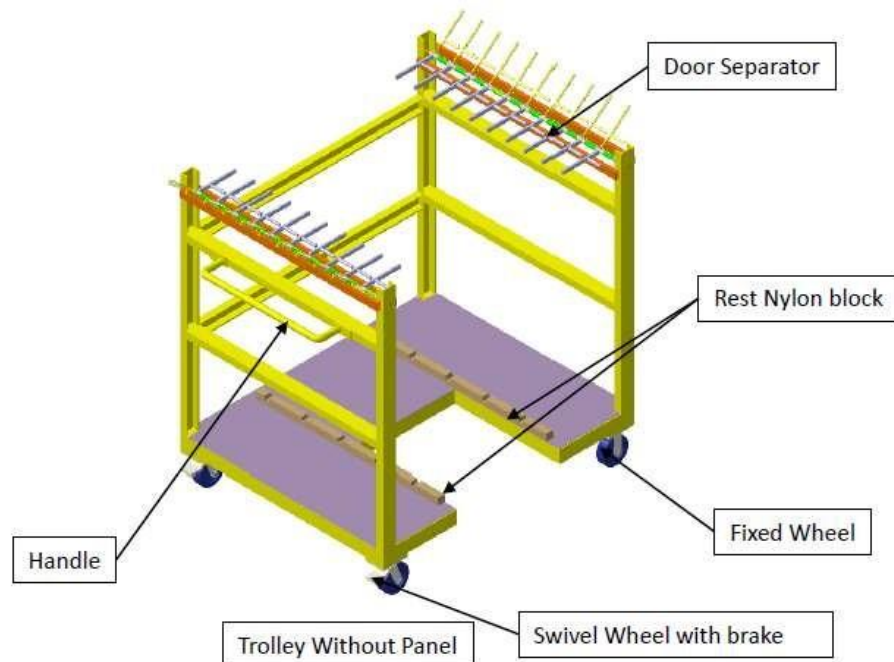
Gripper Without Panel

- Total tool weight= 95 kg
- Total weight with panel = $95+39$ (Panel) = 134Kg
- Frame material: MS
- Roller Material: Nylon
- All Rest mylar :Nylon
- Mounting blocks & Plate : MS
- Pin : 20MnCr5
- Clamp Cylinder : Festo
- Suction Cup : Schmalz

Material Handling-Trolley



Trolley With Panel



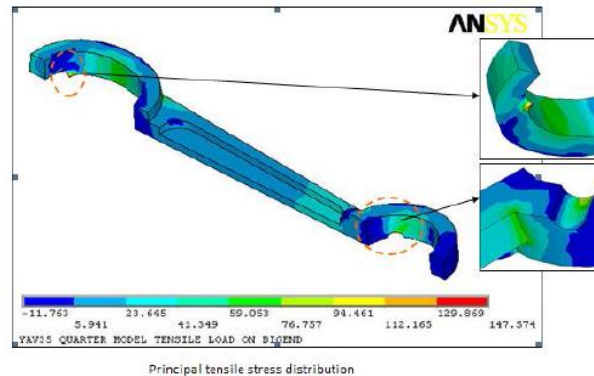
Trolley Without Panel

- Total Panels : 5 Nos.
- Frame material: MS
- All Rest block: Nylon
- All mounting blocks and plates: MS

Engineering Projects-Structural Analysis

1. Fatigue Analysis and Optimization of Connecting Rod

The objective of this work was to optimize the forged steel connecting rod for its weight and cost. Optimized connecting rod is intended to be a more attractive option for the OEM. Opportunities for reduction in weight and cost are explored here




2. FE Analysis of Crankshaft – Dynamic Analysis of Crankshaft



Engineering Projects-FEA

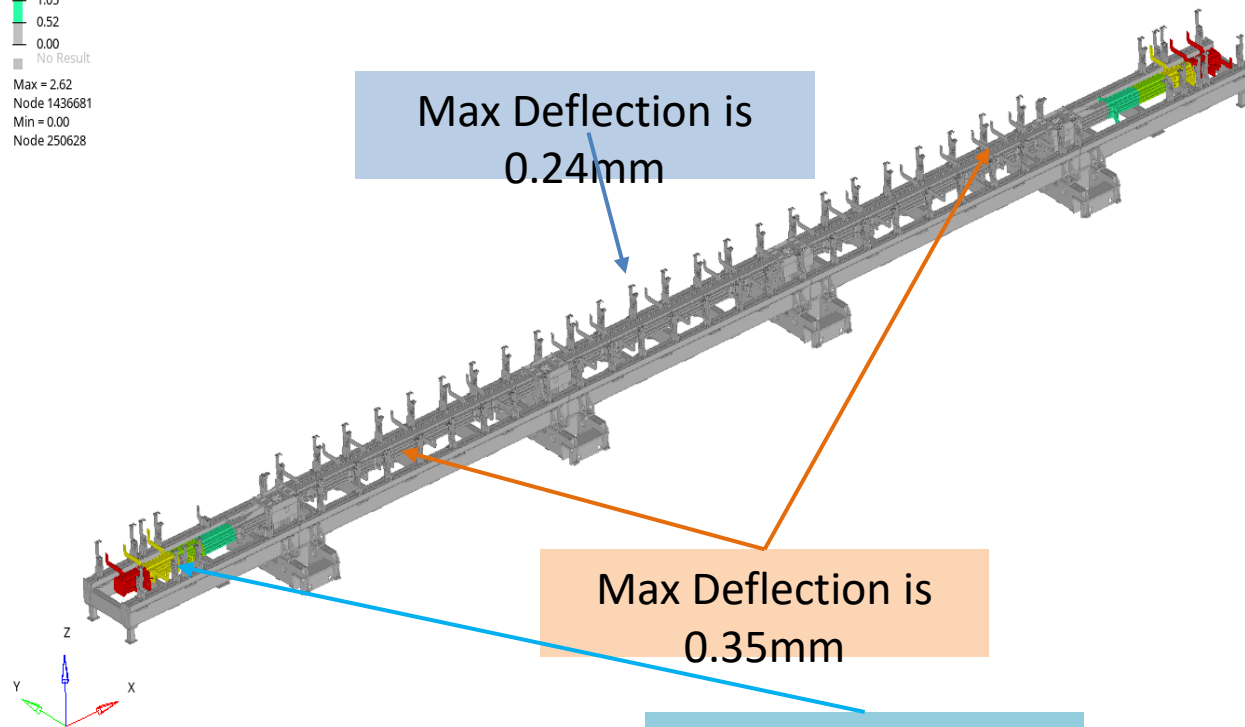
Contour Plot
Displacement(Mag)
Analysis system



2.62
2.10
1.57
1.05
0.52
0.00
No Result

Max = 2.62
Node 1436681
Min = 0.00
Node 250628

1: D:\PROJECT\C-109\18\RUN\01.fem
SUBCASE 2 = Gravity + Base Position : Simulation 1 : Frame 22



Scale factor Of 20 is
used for visualizing
the deflection
pattern

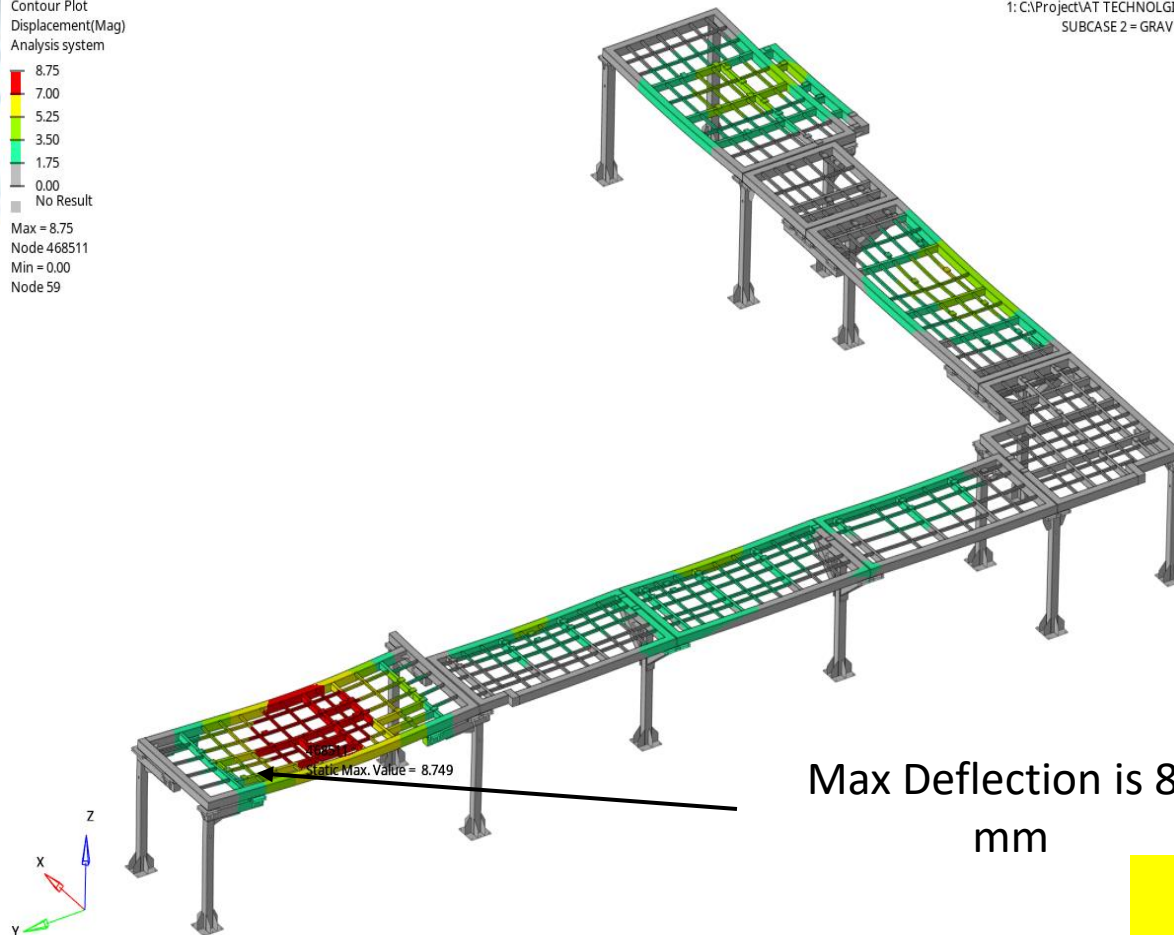
Engineering Projects-FEA

Contour Plot
Displacement(Mag)
Analysis system

8.75
7.00
5.25
3.50
1.75
0.00
No Result

Max = 8.75
Node 468511
Min = 0.00
Node 59

1: C:\Project\AT TECHNOLOGIES\VC-109 Global Eng\IP-22\RUN\05.bdf
SUBCASE 2 = GRAV 1G :GRAV 1G : Simulation 1 : Frame 25

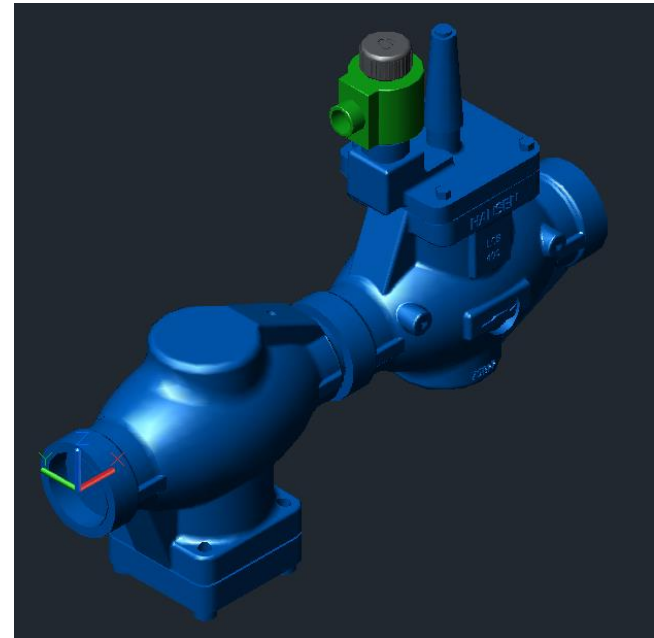


Max Deflection is 8.7
mm

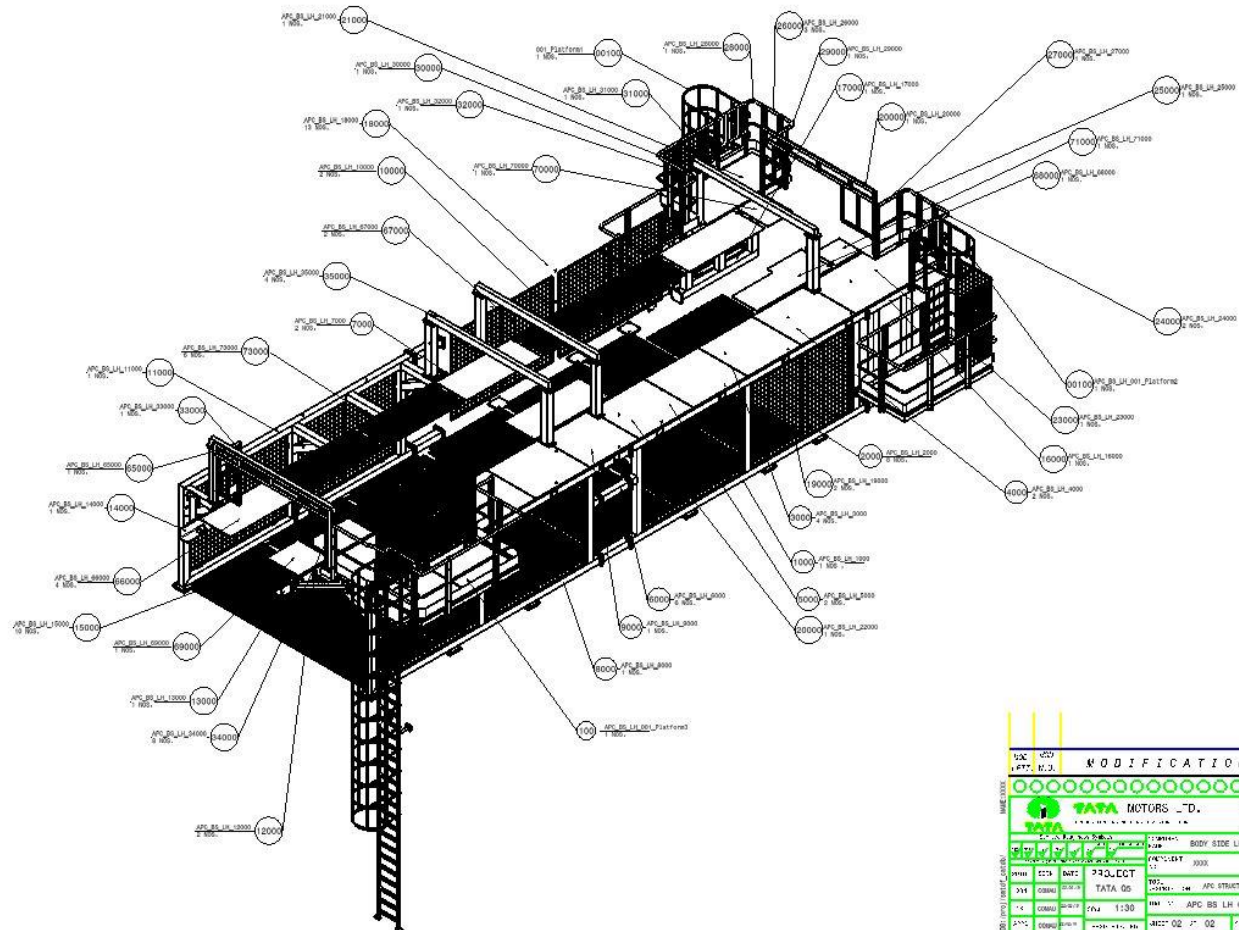
Scale factor Of 20 is
used for visualizing
the deflection
pattern

Engineering Projects-Data Conversion

Legacy Data Conversion: Autocad



Tata Q5_APC Structure_BS Detailing



Scope of work:

2D Detailing Bill Of Material

DATE: 01/01/2000

TIME: 11:11

MODIFICATION

ITEM: 001

DATE: 01/01/2000

TIME: 11:11

DESCRIPTION: BODY SIDE LH APC

REMARKS: XXXXX

ITEM: 002

DATE: 01/01/2000

TIME: 11:11

DESCRIPTION: TATA GS

REMARKS: APC STRUCTURE

ITEM: 003

DATE: 01/01/2000

TIME: 11:11

DESCRIPTION: TATA GS

REMARKS: APC BS LH 001

ITEM: 004

DATE: 01/01/2000

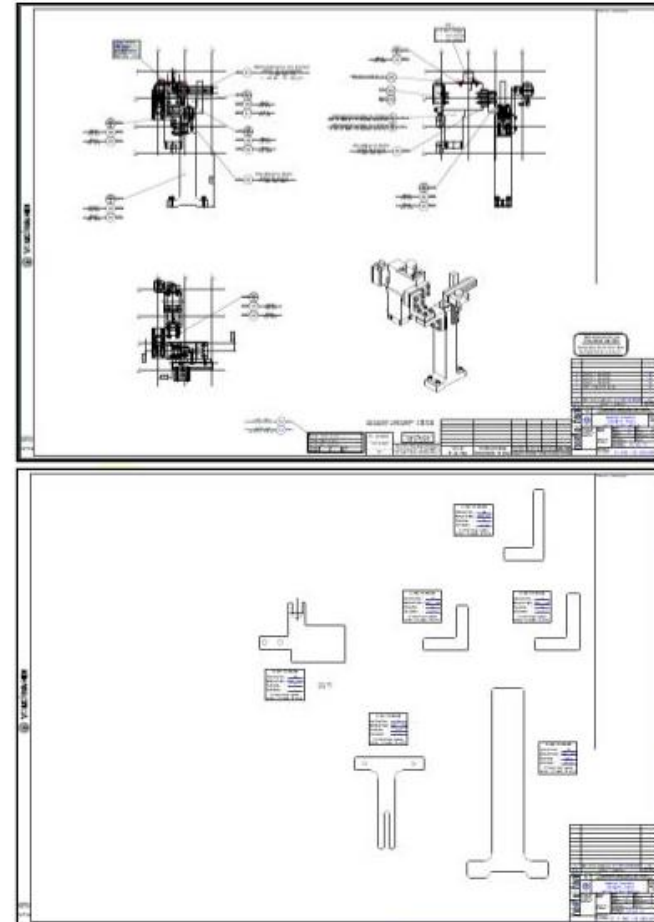
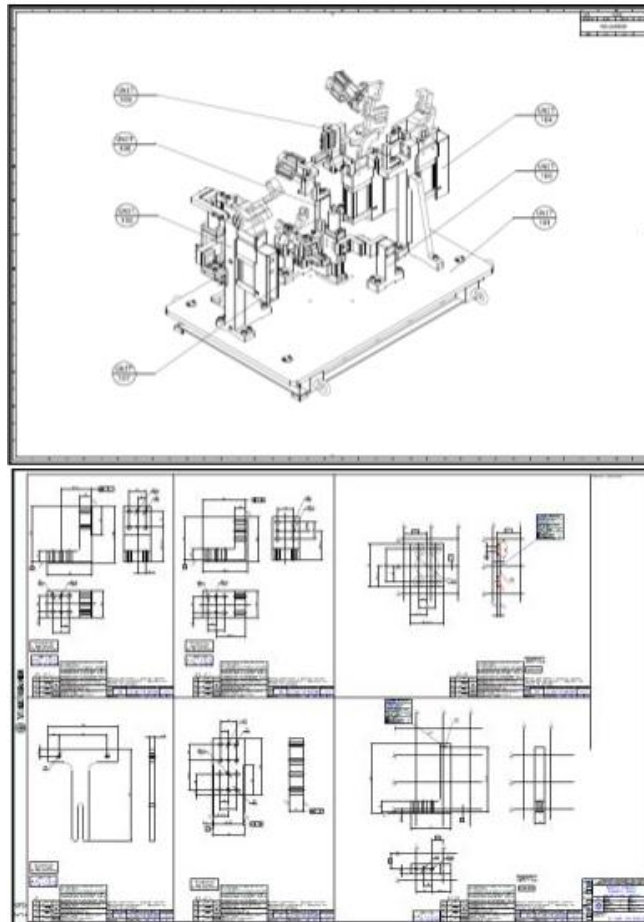
TIME: 11:11

DESCRIPTION: TATA GS

REMARKS: APC BS LH

Engineering Projects

2D Detailing /Drafting



[illegible]

NO	NO. OF STUDENT	NAME	SEX	DOB	DOB (DD/MM/YY)	GRADE	STATUS
01	1	CHANDRAN KESAVAN	M	1987-07-10	10/07/87	10	REG
02	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
03	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
04	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
05	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
06	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
07	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
08	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
09	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
10	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
11	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
12	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
13	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
14	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
15	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
16	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
17	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
18	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
19	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
20	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
21	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
22	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
23	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
24	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
25	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
26	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
27	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
28	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
29	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
30	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
31	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
32	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
33	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
34	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
35	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
36	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
37	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
38	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
39	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
40	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
41	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
42	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
43	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
44	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
45	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
46	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
47	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
48	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
49	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG
50	1	PRITHVIRAJ PRASAD	M	1987-07-10	10/07/87	10	REG



Manufacturing Capabilities

- CNC Parts: From 5 dia to 100 dia x 800mm
- Cylinder grinding 5 dia x 800 mm
- Vmc from 50 x 50x 50 to 2000 x 2000x 1000mm
- Hmc 500 x 500x 500 mm
- Fabrication upto 200 to 300 tones per month
Fabrication machining Upto 4000 x 2000x 1000mm
- Casting FG SG CI upto 700 kg
- Aluminium castings as per 55 kg

Fabrication of AGV Frames



Fabrication of AGV Farmes



Pneumatic Welding Fixtures



Pneumatic Welding Fixtures



Pneumatic Welding Fixtures



Pneumatic Welding Fixtures



Assembly Line trolley's



Inspection Gauge Station





Turnkey Conveyor line structure

Structure for Conveyor Line-Engine Assembly line





Turnkey Conveyor line structure

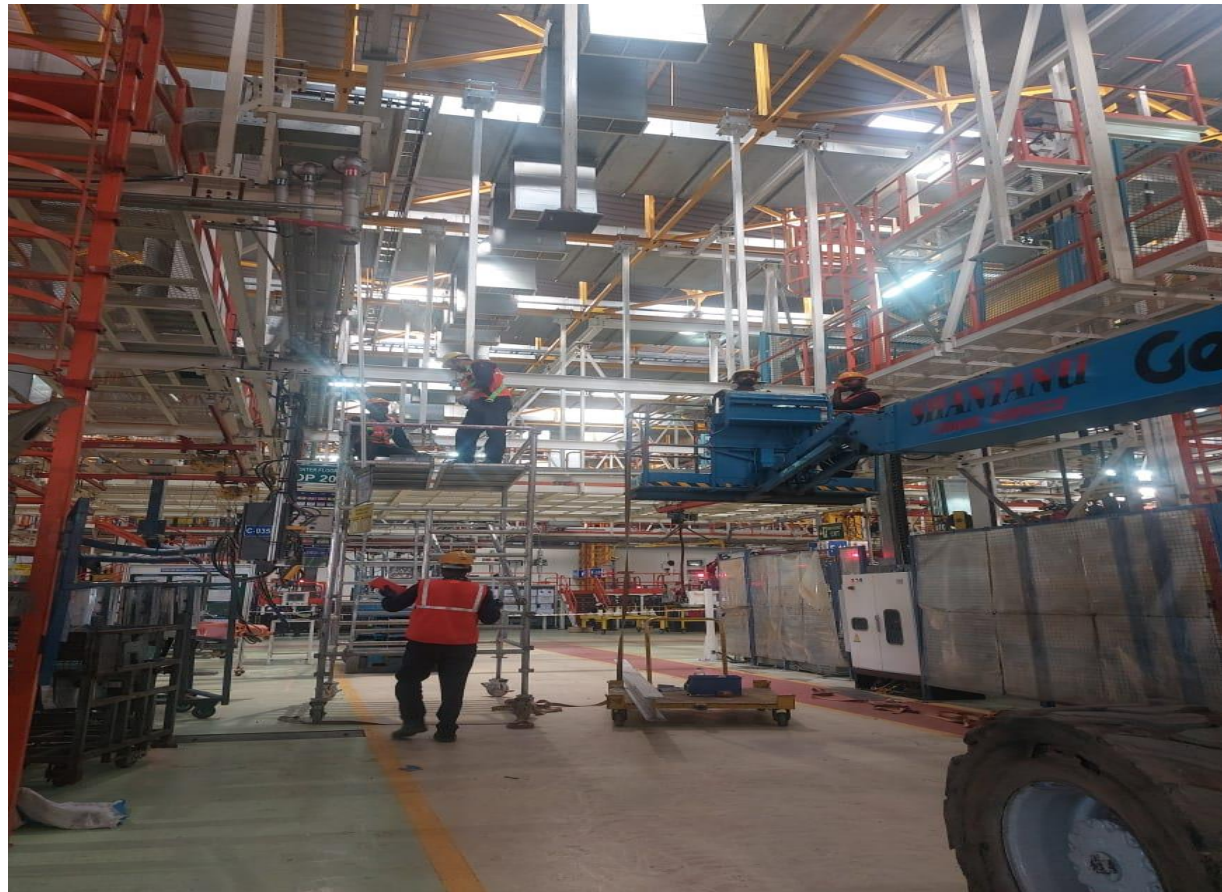
- Conveyor Line





Manufacturing & Engineering Projects

Installation For FIAT- Underbody Line



Material Handling Manipulator





Material Handling trolley & Conveyor



Machined Parts for Fixtures





Leadership Team

SUNIL THORAT - Director

- 23+ years of rich experience in the field of Business Development & Turnkey Projects for Weld shop/Bodyshop & Automation.
- A demonstrated record of setting up of new divisions , identifying opportunities for increasing capacities, reducing costs and creating successful business teams.
- Demonstrated year-on-year growth in business ensuring profitability. Strong business acumen.
- Entrepreneur with startup in SPM & Automation

Lutz Rosenloecher– Senior Consultant Germany

- Innovative and performance driven entrepreneur with a deep passion for technology & business.
- Over 30 years of experience in the Industrial Automation & Engineering solutions.
- Expertise in managing all aspects of business.
- Expertise in establishing operation of foreign companies in India from the scratch.
- Experience of successfully executing domestic & international projects.
- Spearheading complete operation cycle and working in every phase of the project lifecycle.
- Through knowledge of all international standards & specifications of automation equipment

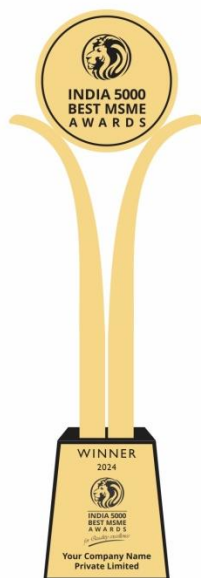


Customer List

- ❖ 1. Dana India Pvt. Limited
- ❖ 2. Škoda Auto Volkswagen India Private Limited
- ❖ 3. TMF – Romania
- ❖ 4. OLCI Engineering Pvt. Ltd
- ❖ 5. Tuenkers India Pvt. Ltd
- ❖ 6. ERMAFA - Germany
- ❖ 7. HLS - Germany
- ❖ 8. TATA MARCOPOLO, Dharwad
- ❖ 9. VDL Pinnacle India Pvt. Ltd.
- ❖ 10. Carl Zeiss India (Bangalore) Pvt. Ltd.
- ❖ 11. Grauer & Weil Ltd
- ❖ 12. Faith Automation India Pvt. Ltd.
- ❖ 13. Mahindra & Mahindra , Chakan
- ❖ 14. TATA Motors, Pune
- ❖ 15. LG, Pune
- ❖ 16. Benteler Automotive India Pvt Ltd

Awards

CERTIFICATE OF NOMINATION



Presented to

Tekpro Automation Llp

For successfully being part of Nomination Phase at

**INDIA 5000 BEST MSME
AWARDS**



**INDIA 5000
BEST MSME
AWARDS**

for Quality excellence



Organized by

**BENCHMARK
TRUST**

Knowledge Partner

TQV

Supporting Partner

BSE

Magazine Partner

Udyamee.
BUSINESS MAGAZINE

www.india5000.com



THANK YOU



Our Office Locations

- ❖ **Design Office**: 401, 4th floor ,V9 Landmark, Pune 411019, Maharashtra, India
- ❖ **Manufacturing & Assembly plant**: Gat 1202,Moshi, Sonawane Vasti, Pune

For further queries please write to us at

Email : sales@tekproautomation.in

Contact; [+91 9545450559](tel:+919545450559)