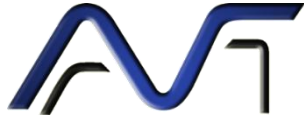




AuVitronics Limited.....People for polymers.



AuVitronics Limited

- AuVitronics was established in 1983 as an Audio & Video Cassette manufacturing facility. Cognizant of the fact that cassette is dying business, Strategic decision to diversify into auto parts was made in year 2000. In 2010 cassette manufacturing business was fully closed.
- Another strategic decision was made in the year 2013 to further diversify into packaging business catering Pharma & FMCG sectors.
- AVT has over 900 employees and take pride on providing significant employment to female which is around one third of the work force.
- Our corporate motto is customer trust, based on prompt service and consistent high quality.

Manufacturing Plant 01 : HUB



- 5 acres of land
- Covered area is 200,000 sq./feet

Manufacturing Plant 02 : Port Qasim



- *25 acres of land*
- *150,000 sq feet of covered area.*

AVT, a HUB of Technologies spinning around injection molding

- *Injection Molding*
- *Injection Blow Molding*
- *PET pre form molding*
- *Stretch Blow Molding*
- *Clean room Molding.*
- *Spray Coating.*
- *Short wave infra red baking*
- *Hydrographic Printing.*
- *Integral skin PU foaming*
- *Expanded Poly Propylene*
- *Vacuum Metalizing*
- *Vibration Welding*
- *Hot plate welding*
- *Hot melt joining*
- *Ultrasonic Welding*
- *Precession Assembling*
- *Climatic Testing*
- *Vibration testing*
- *Continuous clean room particle counting*
- *Bio burden counting*

Auto

Building Materials

Packaging

Toyota-Corolla



Honda-Civic



Suzuki-Swift



Toyota-IMV



Honda-City



Suzuki-WagonR



Land Rover- Defender



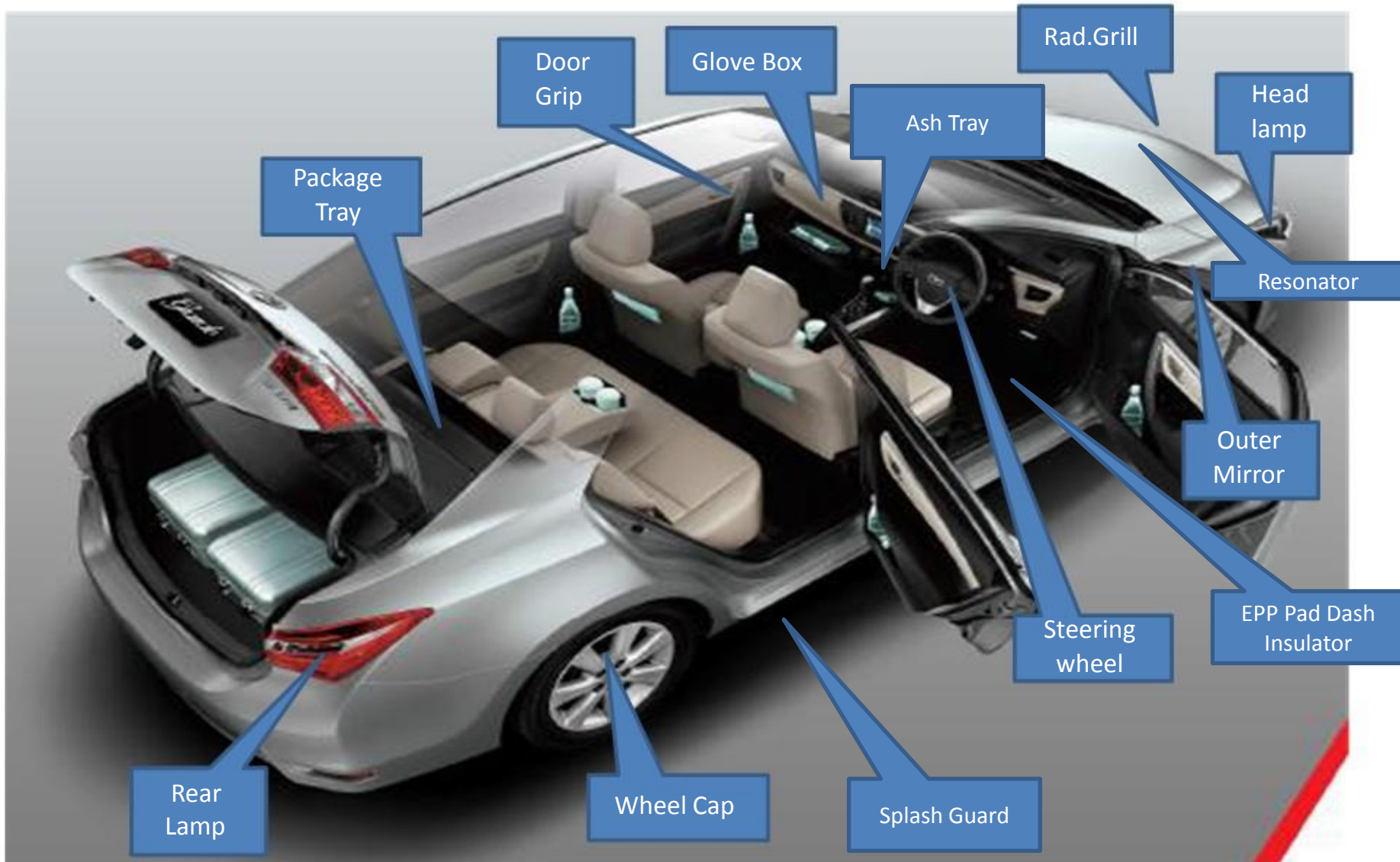
Hyundai-Shehzore



Suzuki-Celerio



Products : Automotive



Range of Products - LAMPS



Range of Products - MIRROR



Range of Products – STEERING WHEEL



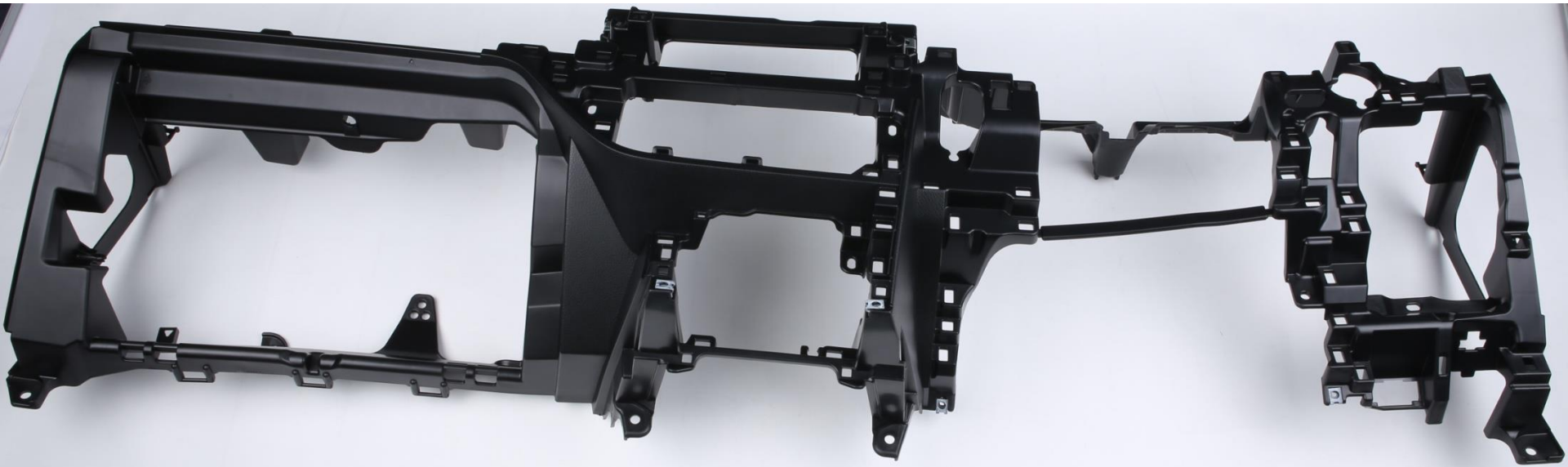
Range of Products – CUBIC PRINTING



Range of Products - INTERIOR



Range of Products - INTERIOR



Range of Products - INTERIOR



Range of Products - INTERIOR



Range of Products - INTERIOR



Range of Products - INTERIOR



Range of Products - EXTERIOR



Range of Products - EXTERIOR



Range of Products - EXTERIOR



Range of Products – ENGINE COMPARTMENT



Range of Products - ENGINE COMPARTMENT



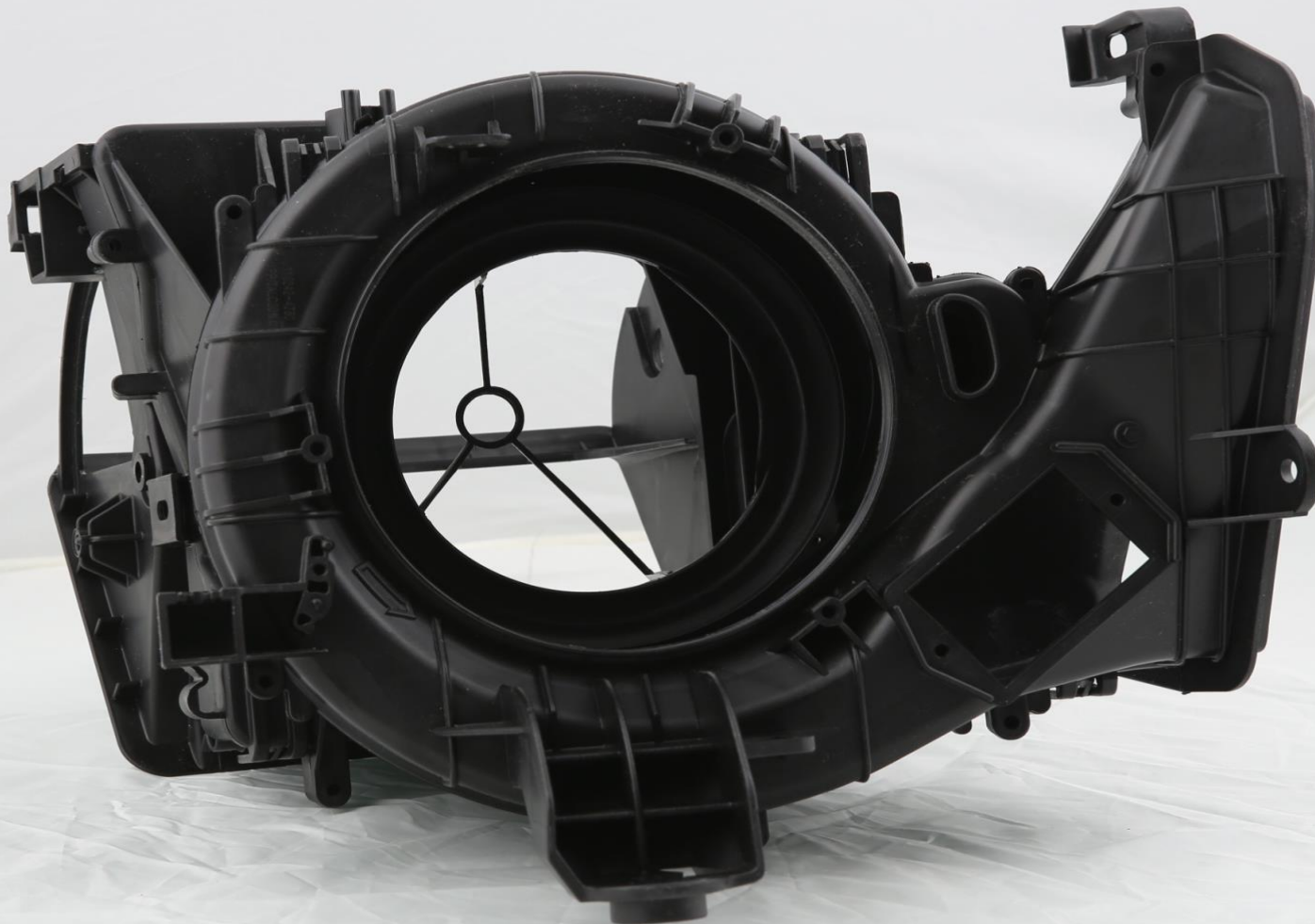
Range of Products - HVAC



Range of Products - HVAC



Range of Products - HVAC



Range of Products – VACUUM METALIZING



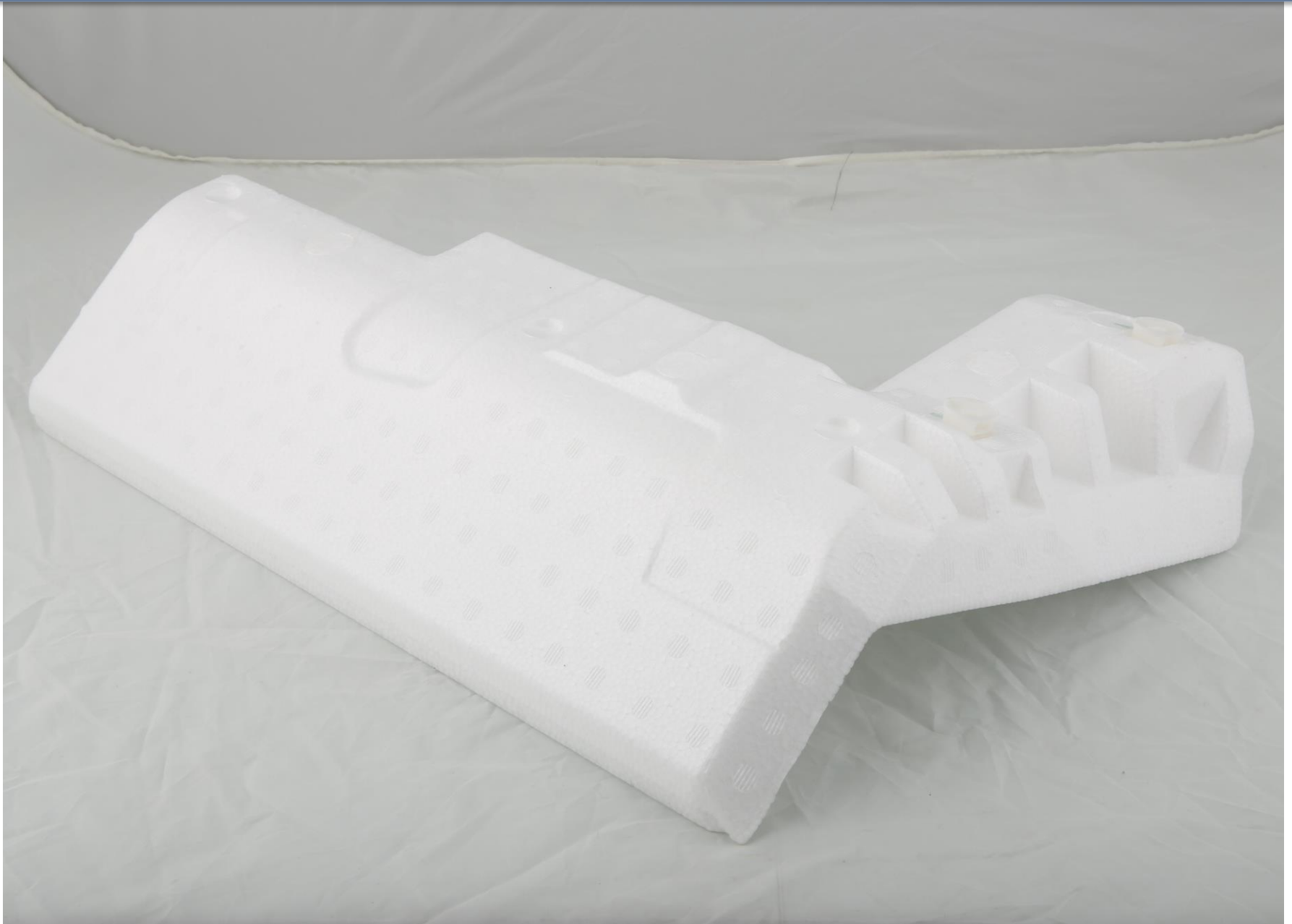
Range of Products - VACUUM METALIZING



Range of Products - VACUUM METALIZING



Range of Products - EPP



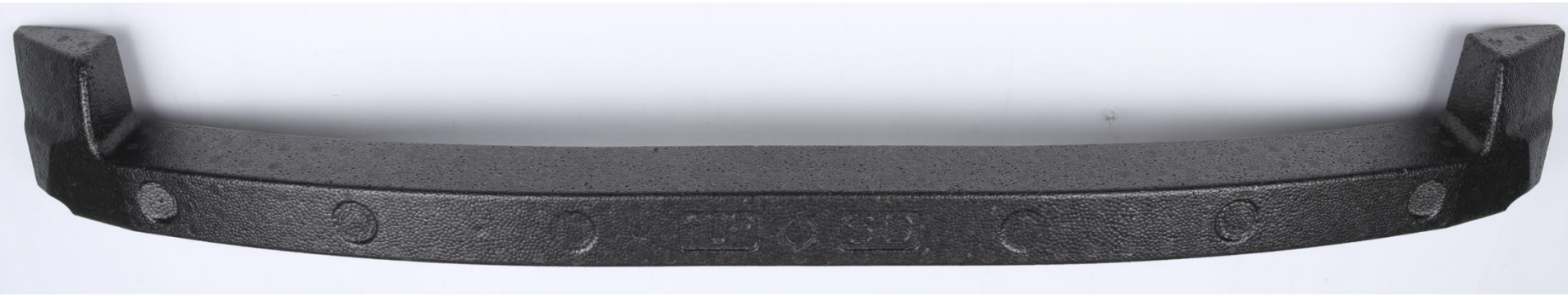
Range of Products - EPP



Range of Products - EPP



Range of Products - EPP



Technical Assistance / Collaboration

AVT is taking technical assistance from world renowned organizations, which are as under :

- *Koito Manufacturing Co. Ltd. Japan*
- *Toyoda Gosei Co. Ltd. Japan*
- *Cubic Company Limited Japan*
- *Murakami Corporation Japan*
- *EP Moulds & Dies Malaysia*
- *Krauss Maffei Germany*
- *Auto Korea- Korea*
- *OH Sung Plastic Co. Ltd. Korea*

The logo for Koito Manufacturing Co. Ltd. features the word "Koito" in a bold, red, sans-serif font.The logo for Toyoda Gosei Co. Ltd. consists of a red stylized "TG" monogram above the words "TOYODA GOSEI" in a smaller, blue, sans-serif font.The logo for Cubic Company Limited features a blue stylized "C" monogram above the word "CUBIC" in a bold, blue, sans-serif font.The logo for Murakami Corporation includes a red stylized "M" monogram followed by the word "Murakami" in a bold, black, sans-serif font.The logo for Krauss Maffei Germany features the company name "Krauss Maffei" in a bold, blue, sans-serif font.The logo for AutoKorea Co., Ltd. consists of a blue stylized "A" monogram followed by the text "AutoKorea Co.,Ltd." in a bold, black, sans-serif font.The logo for OH Sung Plastic Co. Ltd. features a blue stylized "OH" monogram followed by the text "UNG (주)오성프라스틱" in a bold, black, sans-serif font.

Manufacturing Facilities : Injection Molding PQA 75 ~ 2000 Ton



Manufacturing Facilities : Injection Molding HUB 150 ~ 3000 Ton



Manufacturing Facilities : Vibration Welding



Manufacturing Facilities : Lamps Assembly Line



Manufacturing Facilities : Robotic Hot Melt Joining



Manufacturing Facilities : Hot Plate Welding



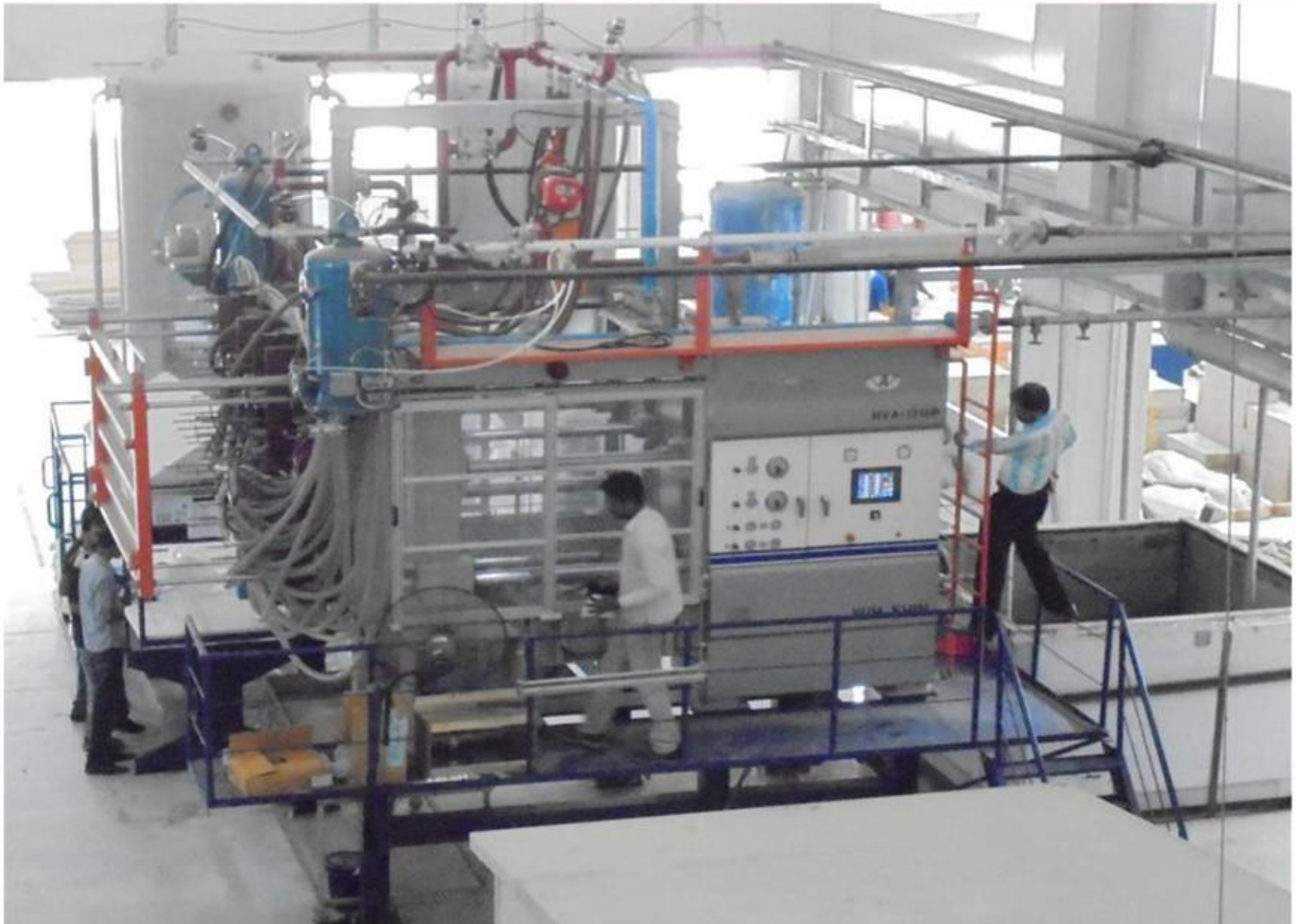
Manufacturing Facilities : Plastic Annealing Oven



Manufacturing Facilities : Integral Skin Foaming



Manufacturing Facilities : Expanded Polypropylene



Manufacturing Facilities : Hydrographic Printing



Manufacturing Facilities : Painting with SWIR curing



Component Assembly - Ladies



Component Assembly - Gents



Testing Facilities

STEERING WHEEL TESTING

GRIP WEAR RESISTANCE TEST



HARDNESS TESTING



ENERGIZING CONFIRMATION TEST

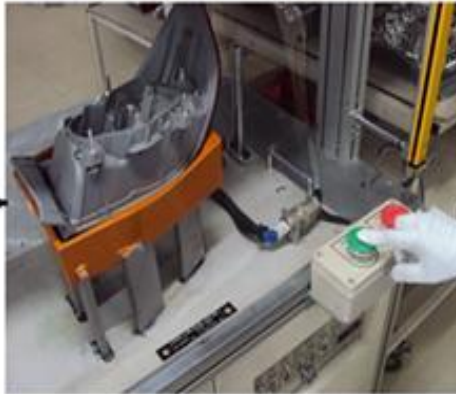


AIR LEAKAGE TESTING

CHL. RCL, BUL & JAR PUMP ASSY WASHER TANK TEST



PART PLACED ON JIG



TEST JIG "ON"



PART IS CHECKED ON AIR LEAK TESTER



ANNEALED PART PLACED
ON AIR LEAKAGE TEST JIG



PART IS TESTED ON JIG



AIR LEAK TESTER



STEAM WASHING RESISTANCE TESTING



PAINT TESTING

CONSTANT TEMPERATURE BATH FOR WET CROSS HATCH TEST



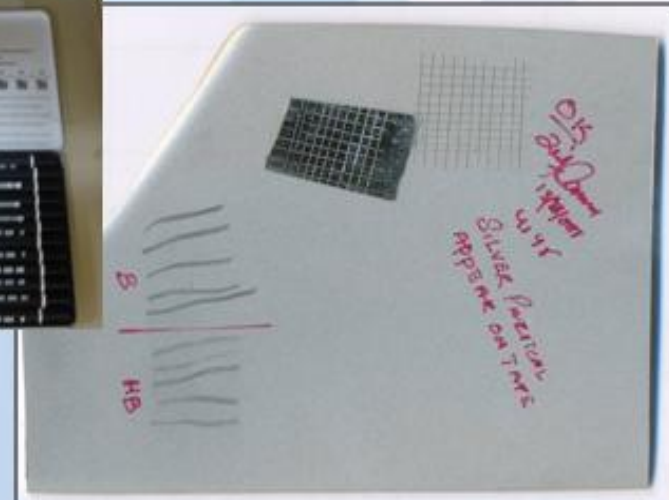
WET CROSS HATCH TEST
SAMPLE



CHEMICAL RESISTENCE TEST



PENCIL SCRATCH HARDNESS TEST



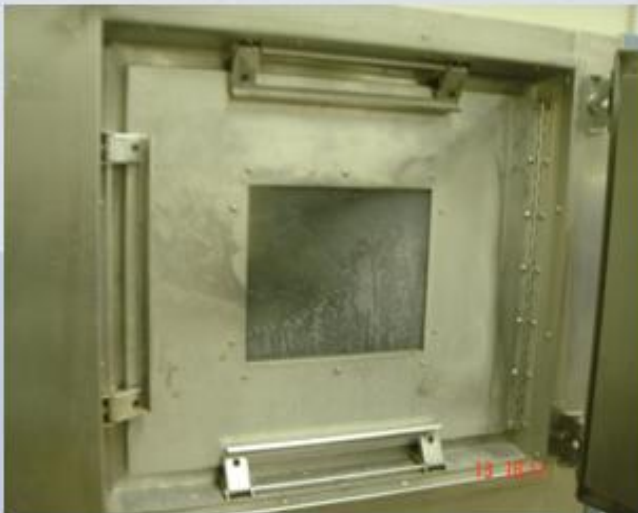
CLIMATE CHAMBER TESTING

JAR AND PUMP ASSEMBLY WASHER

HOT CLIMATE



COLD CLIMATE



➤ *PRODUCTION AND QUALITY CONTROL SYSTEM*

INFO CENTER

YAMAZUMI BASED EFFICENCY TREE

ONLINE OBEYA

SIS

5 S IMPLEMENTATION

INTERACTIVE
FLOW CHART

EFFICIENCY
TREE

PPM TREE

ONLINE
OBEYA

SIS

YAMAZUMI CHART

SR.#	PROCESS		STATUS			OBSERVATIONS (TIME IN SEC)										
	MAIN-PROCESS	SUB-PROCESS	WASTAGE		ACTUAL	1	2	3	4	5	6	7	8	9	10	AVG
			ADDITIONAL	PROCESS												
7	Final Inspection															
		Picking up the Part		●		1.05	1.21	0.95	0.93	1.24	1.23	1.15	0.97	1.26	1.18	1.11
		Final inspection of Part			●	6.03	6.21	5.89	6.66	7.01	6.96	7.26	7.81	6.23	7.96	6.75
		Picking up Luster Spray gun	●			1.18	1.1	1.25	1.56	1.18	1.01	1.22	1.08	1.15	1.23	1.19
		Application of Luster	●			2.04	1.98	3.58	2.09	2.15	3.66	1.88	3.02	2.3	3.25	2.67
		Placement of Luster gun onto the table	●			1.11	0.95	1.12	1.23	0.88	1.22	1.25	1.18	1.41	1.2	1.14
		Picking up the Duster	●			0.98	1.15	1.22	1.03	1.25	0.88	1.13	1.15	1.26	0.98	1.1
		Application of Duster on Part	●			2.8	3.25	5.04	3.56	3.58	2.89	4.01	2.9	4.66	4.89	3.73
		Placement of Duster on table	●			0.88	1.15	1.2	0.86	1.24	1.13	0.96	1.23	0.95	0.98	1.07
		Picking up polish	●			1.12	0.98	1.11	0.86	1.24	1.18	1.16	0.95	1.23	0.98	1.07
		Application of Polish	●			4.58	3.29	5.01	2.34	5.82	2.59	5.88	6.01	5.89	6.89	4.71
		Cleaning of hands	●			2.12	2.44	1.98	2.12	2.15	1.85	1.19	2.85	2.45	1.66	2.18
8	Packing															
		Picking up the Part		●		1.15	1.22	1.18	1.25	1.32	1.24	1.04	1.11	1.21	1.17	1.21
		Picking of Polybag		●		1.02	0.97	1.25	1.33	1.25	0.96	1.12	1.36	0.99	1.28	1.16
		Placement of Part in Poly bag			●	3.01	4.41	3.54	3.29	4.47	4.49	4.85	3.75	3.04	4.03	3.78
		Placement of Part in box			●	1.21	1.25	2.02	1.25	1.89	1.12	1.24	1.36	1.13	1.15	1.38

BREAK UP OF TOTAL TIME (SEC)

Total Time	147.85 (2.46 min)
Actual Time ●	52.05
Process Wastage Time ●	73.31
Addational Wastage Time ●	22.50

BACK

PRODUCTION PLAN

Online Obeya

MOULDING

Click Here



HGTP & PAINT SHOP

STEERING WHEEL

ASSEMBLY

Click here



DISPATCH

Exit



BACK



Print

Last %	Current %	Description	Remarks
-8	0	- CASE BLOWER - CASE, BLOWER(116242-4700)	
-9	0	- CASE BLOWER - CASE, BLOWER(116242-4730)	
-8	-71	- CASE BLOWER - CASE, BLOWER(116242-4780)	PRODUCTION CONTINUE.DELAYED DUE TO HOT RUNNER HEATER PROBLI
-2	-7	- CASE HEATER - CASE, HEATER(116455-7920)	
-3	1	- CASE HEATER - CASE, HEATER(116455-7960)	
1	-54	- CASE HEATER - CASE, HEATER(116455-8170)	PRODUCTION CONTINUE.DELAYED DUE TO MOLD CORE PROBLEM.
-6	27	065A (488W - BOX ASSY INST. PANEL - BOX FR ASH RECEPTACLE	
0	-4	065A (488W - BOX ASSY INST. PANEL - DOOR INSTRUMENT PANEL BOX BF	
0	-13	065A (488W - BOX ASSY INST. PANEL - DOOR INSTRUMENT PANEL BOX GI	COMPLETED TODAY.DELAYED DUE TO MACHINE HEATER PROBLEM
-6	1	065A (488W - BOX ASSY INST. PANEL - PANEL INSTR. CLUSTER FINISH LV	
-3	-5	065A (488W - BOX S/A CONSOLE RR - BOX CONSOLE RR	
-2	-51	065A (488W - BOX S/A CONSOLE RR - COVER CONSOLE BOX HOLE 1	PRODUCTION CONTINUE.DELAYED DUE TO NEW MOLDS TRIALS.
-2	-51	065A (488W - BOX S/A CONSOLE RR - COVER CONSOLE BOX HOLE 2	
1	0	065A (488W - BOX S/A CONSOLE RR - PANEL CONSOLE RR END	
-6	-1	065A (488W - DOOR ASSY GLOVE COMPARTMENT - DOOR GLOVE COMPAI	
-6	-5	065A (488W - DOOR ASSY GLOVE COMPARTMENT - DOOR GLOVE COMPAI	
0	-1	065A (488W - DUCT ASSY QUARTER VENT - DUCT ASSY.QTR VENT	
-2	0	065A (488W - ECU BRACKET - ECU BRACKET	
-8	0	065A (488W - GAR FR DR LWR FRAME BRA. - GARNISH FR DR LWR FRAM	
2	-3	065A (488W - GAR FR DR LWR FRAME BRA. - GARNISH FR DR LWR FRAM	
2	-3	065A (488W - GAR FR DR LWR FRAME BRA. - GARNISH FR DR LWR FRAM	
-6	-2	065A (488W - GAR. ASSY CTR PILLAR - GARNISH ASSY CTR PILLAR LHS	
-6	-1	065A (488W - GAR. ASSY CTR PILLAR - GARNISH ASSY CTR PILLAR RHS	
-1	-3	065A (488W - GARNISHES/PANEL - BOARD COWL SIDE TRIM LHS	
-1	-3	065A (488W - GARNISHES/PANEL - BOARD COWL SIDE TRIM RHS	
-4	-2	065A (488W - GARNISHES/PANEL - BOARD ROOF SIDE INNER GARNISH LH	


 BACK

SIS

SPECIFIED INTERVAL SAMPLING SYSTEM (SIS)

- A system by which samples are collected for inspection *during production after specified intervals and marked accordingly*
- Intervals selected on the basis of process stability
 - Category A product → every 100th piece
 - Category B product → every 50th piece
 - Category C product → every 25th piece
- Production constantly transferred to store and collected sample boxes sent to QA Inspection shooters at the end of production

PREPARATION OF SIS SAMPLE BOXES



TRANSFER OF SAMPLE BOXES TO QA INSPECTION SHOOTERS



INSPECTION OF SIS SAMPLES



5S IMPLEMENTATION

CRUSHING AND MIXING OF RAW MATERIAL

AVT HANDLES MORE THAN 50 ENGINEERING PLASTICS IN 3 TO 4 DIFFERENT COLOURS. 5S IS THE KEY TO CONTROL THIS COMPLEX MATERIAL FLOW.



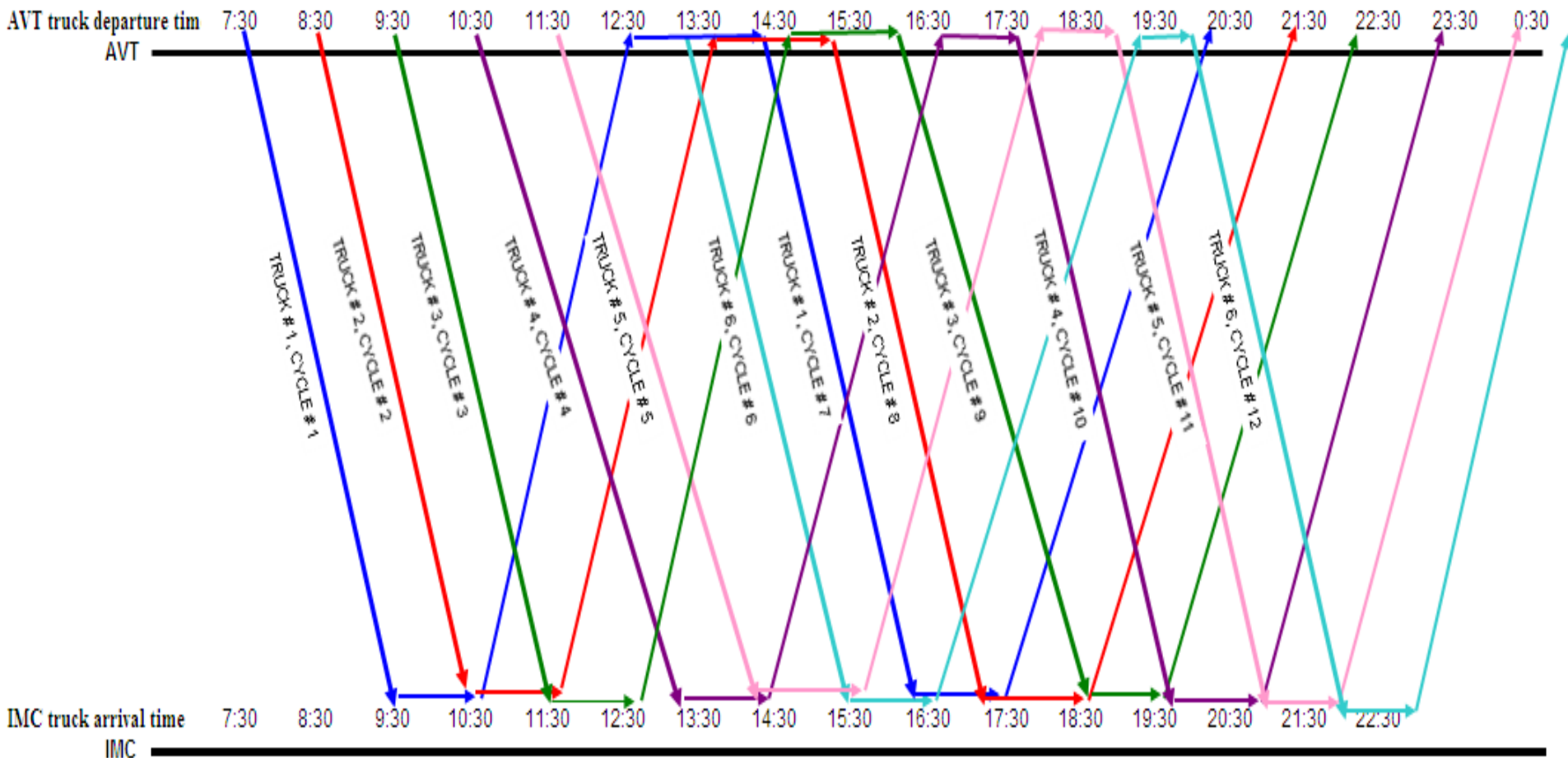
[BACK](#)



➤ *SUPPLIABILITY*

SUPPLIABILITY

KANBAN BASE AVT TRUCK MOVEMENT SCHEDULE



LEGEND

- Truck #1
- Truck #2
- Truck #3
- Truck #4
- Truck #5
- Truck #6

- 235,000 parts dispatch per month
- IMC rating is excellent



Future Plan

Fully Automatic 83 Tanks Chrome Plating Facility with
Technical Assistance of Kanto kasai Japan

PROPOSED CHROME PLATING PRODUCTION FACILITY



PROPOSED CHROME PLATING PRODUCTION FACILITY





Email: avt@auvitronics.com, Ph: 021-34312322, www.auvitronics.com



MANUFACTURING UNIT - 01

Location	Sector " A " - 137, 138, 153 & 154 H.I.T.E., Hub District Lasbella, Balochistan - Pakistan.
Tel:	(92 853) 303014 - (92 853) 302875 (92 853) 302876 - (92 853) 302438
Fax:	(92 853) 303013
Email:	avthub@auvitronics.com



MANUFACTURING UNIT - 02

Location	Plot No. SP-6, nwiz / P-133/C, North West Industrial Zone PORT QASIM AUTHORITY, Karachi, Sind
Tel:	(92 21) 34750601 - 14
Fax:	(92 21) 34750606
Email:	avt@auvitronics.com