



EXPERIENCE  
OUR PASSION  
FOR PRECISION

**LIASON INC**  
PASSION FOR PRECISION

OUR MANUFACTURING CAPABILITIES

# ABOUT US



- ▣ WE ARE A TEAM OF COMPETENT PROFESSIONALS COMMITTED TO MANUFACTURING HIGH QUALITY PRODUCTS WHILE DELIVERING EXCEPTIONAL CUSTOMER SERVICE
- ▣ WE BELIEVE IN BUILDING LOYAL CUSTOMER RELATIONSHIPS ON A FOUNDATION OF TRUSTWORTHY COMPETENCE
- ▣ WE HAVE PROVEN CREDIBILITY OF TECHNICAL EXPERTISE THROUGH THE SUPPORT OF OUR ESTEEMED REPEAT CUSTOMERS



# OUR VALUES



## Commitment

We are committed to providing exceptional customer satisfaction



## Integrity

Our work ethics and interactions are bound by our Integrity



## Passion

We have a deep rooted Passion for precision



## Innovation

Our ethos of continuous improvement sparks our innovation



## Teamwork

This is how we consistently deliver Zero Defect products through employee loyalty



## Investment

We invest our efforts to gain State of the art Technology for sustainable growth

# OUR NEW PLANT



**SIPCOT Industrial Park**  
**Vallam Vadagal, Near Yamaha Plant,**  
**Sriperumbudur (near Chennai)**  
**Tamil Nadu, INDIA**

# PLANT AREA



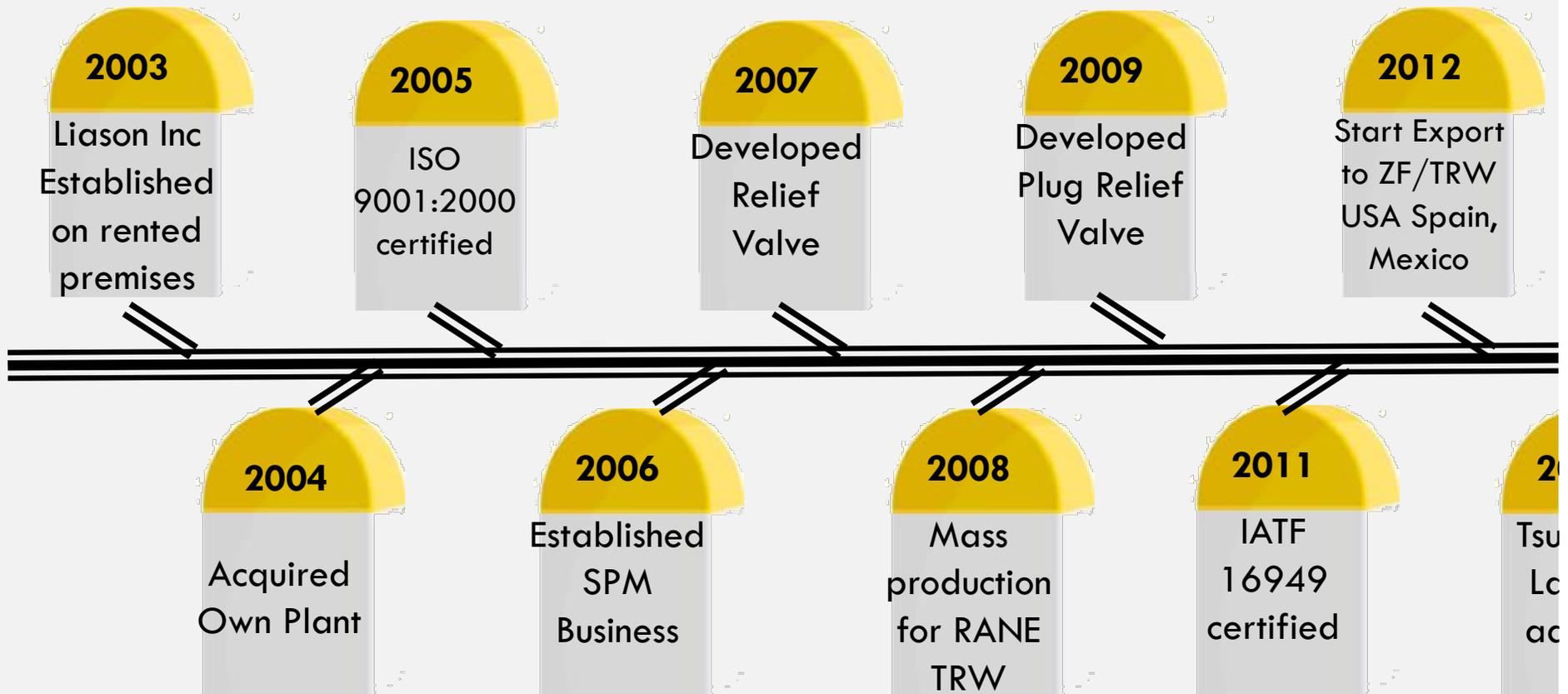
**SITE AREA : 90,000 sq ft**

**BUILT UP AREA : 55,000 sq ft**

**ADVANTAGE : Sufficient Space for Rapid Expansion  
Industrial Hub, and Well connected Logistically**

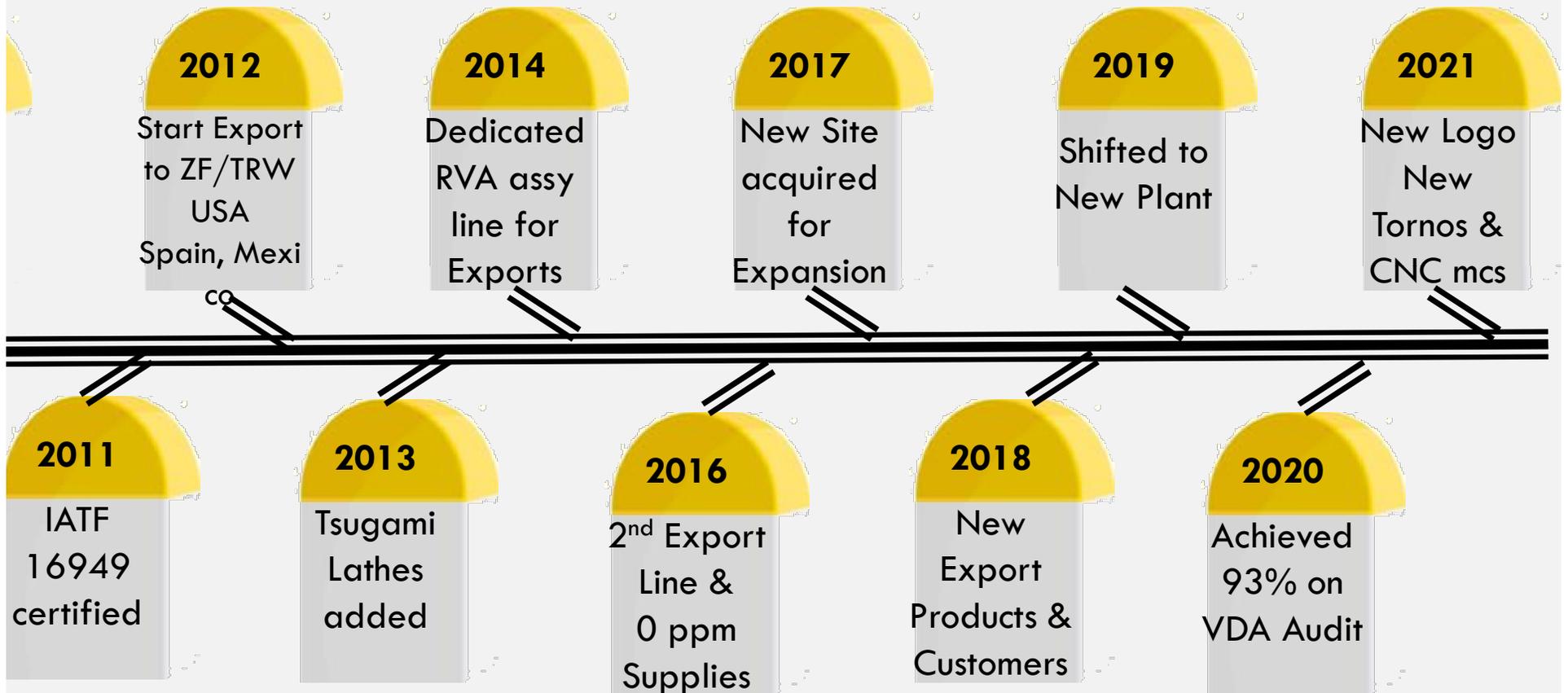


# GROWTH MILESTONES

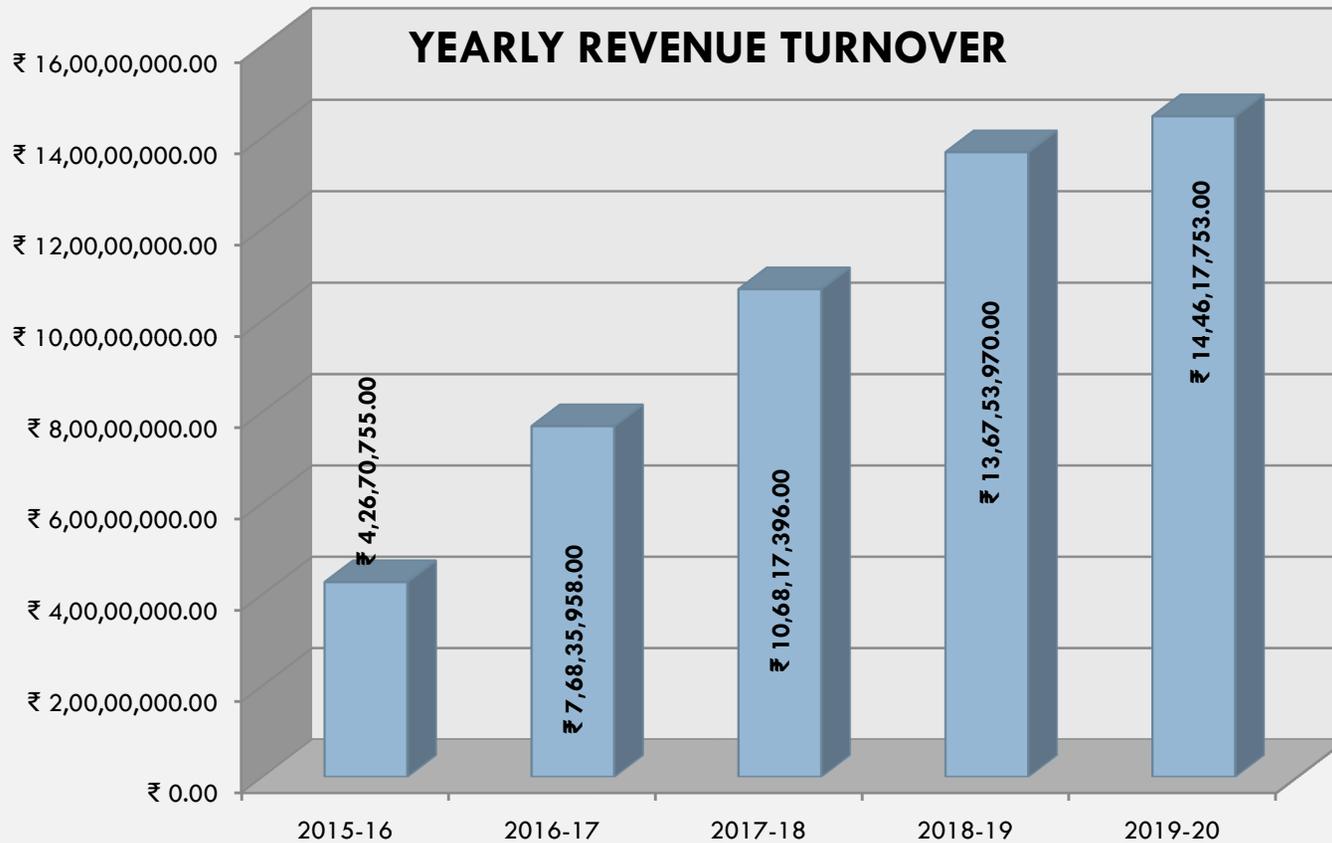




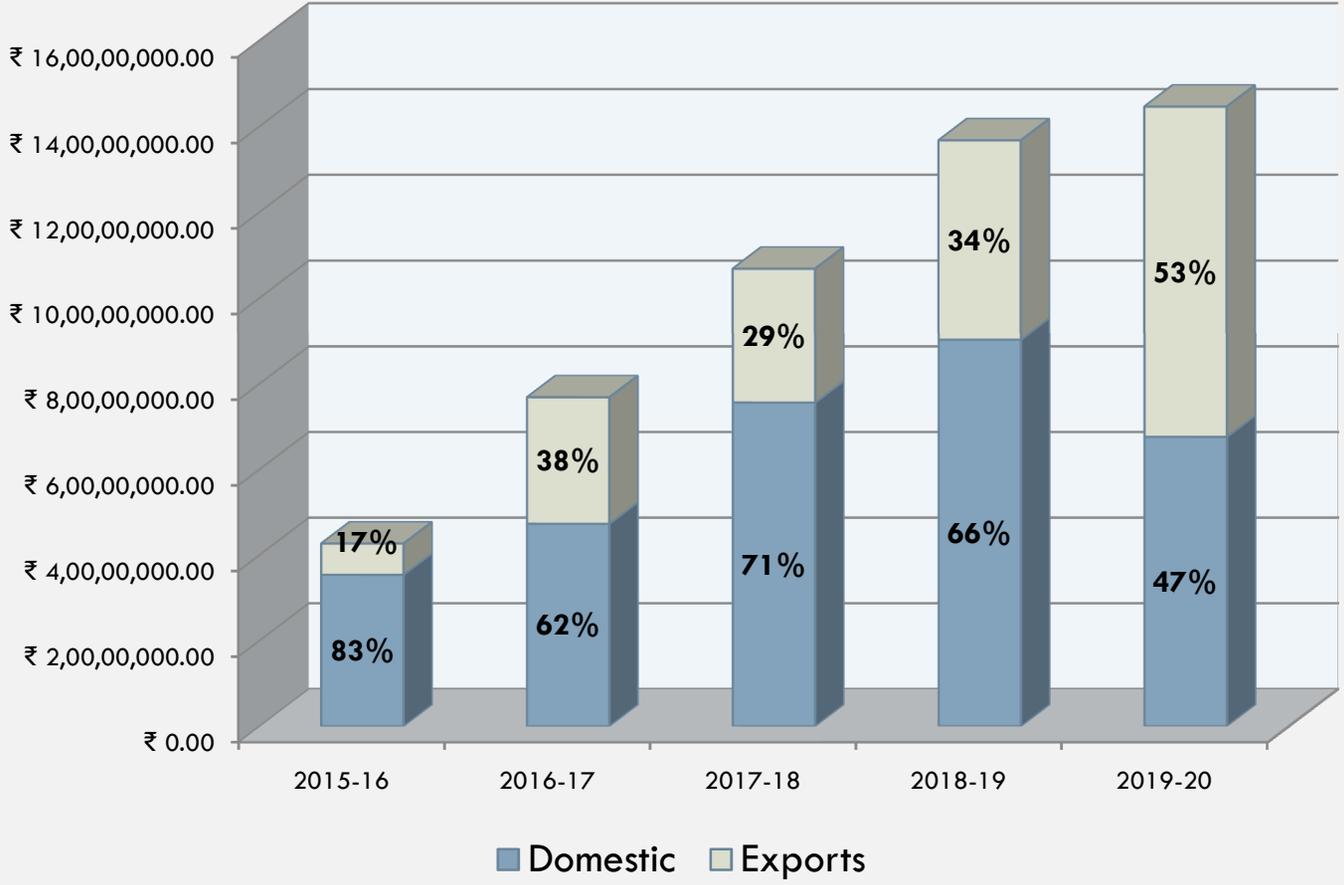
# GROWTH MILESTONES



# PAST 5 YR REVENUE TREND

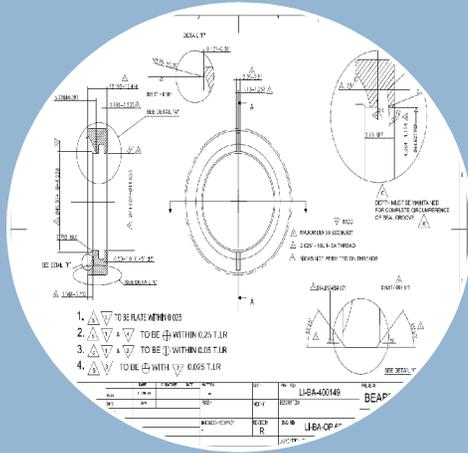


# SHARE OF EXPORTS REVENUE





# COMPETENT EXPERTISE IN



Design



Production



Quality

Fully Equipped & Capable Departments

# ADEQUATE SKILLED RESOURCES



...and growing.

# SUFFICIENT MACHINERY



Sl no	Production Machines/Instruments	Make	Qty
1	CNC Precision Lathe-DT26, QTP100, BM165, B0205	TORNOS-Swiss MAZAK, TSUGAMI – Japan	8
2	CNC Lathe - 165 mm	ACE / GD Weiler, India	5
3	VMC Machine - 600 mm	AMS, India	1
4	Relief Valve Assembly line	In House Automation	2
5	Thread Rolling machine – MTR 15	MTE, India	1
6	Contour Tracer - XC2-M	MAHR, Germany	1
7	Power/Cross-shaft Presses -160 Ton / 50, 30 Ton	MANKOO, India	3
8	Mitutoyo make high performance 2D measurement system	Mitutoyo, Japan	1
8	Projection welding – 35 kva	ARTECH, India	1
10	Hydraulic Press – 200 Ton	BEMCO, India	2
Sl no	Tool Room / Utilities	Make	Qty
1	Universal Milling machine -DRO	Esteam	1
2	Heavy duty center Lathe	Turner	1
3	Surface grinding machine – NH 750	Alex Machine tool	1
4	Air compressor – GX7	Atlas Copco / Elgi	2
5	Universal Milling machine -DRO	Esteam	1
6	Heavy duty center Lathe	SM systems	1

# MACHINE & EQUIPMENT IMAGES



# MACHINE & EQUIPMENT IMAGES



Climate controlled Production Area

# MACHINE & EQUIPMENT IMAGES



Climate controlled Production Area

# MACHINE & EQUIPMENT IMAGES



# MACHINE & EQUIPMENT IMAGES



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# MACHINE & EQUIPMENT IMAGES



# MACHINE & EQUIPMENT IMAGES



# OFFICE SPACE IMAGES



# OFFICE SPACE IMAGES



Design Department

# OFFICE SPACE IMAGES



# QUALITY CREDENTIALS



**LIASON INC**  
P A S S I O N F O R P R E C I S I O N

## Quality Policy

LIASON INC is committed to achieve TOTAL Customer satisfaction by understanding Customer requirements and providing them Quality Machined, sub-assemblies and Sheet Metal Components on time through continual improvement of our process and effective Implementation of QMS.

## CERTIFICATE

Management system as per  
**IATF 16949:2016**  
(1<sup>st</sup> edition, 2016-10-01)

Evidence of conformity with the above standard has been furnished and is certified for

**Liason Inc.**  
Plot No. G-15, 3rd Cross Street,  
SIPCOT Industrial Park, Vallam Vadagal,  
Silerpumbudur - 602 105, Tamilnada,  
India

Scope

**Manufacture of Machined Parts, Sub-Assemblies and Sheet Metal Pressed Components**  
without product design responsibility (according to section 8.3)

IATF Registration No. 0367518  
Certificate Registration No. 44 111 200089

Issue date: 2020-04-24  
Expiry date: 2023-04-23

*V. Brahma*  
Liason body  
at TÜV NORD CERT GmbH

Essen, 2020-04-24

This certification was conducted in accordance with the IATF „Rules for achieving and maintaining IATF recognition“.

TÜV NORD CERT GmbH    Langenwankofelstraße 26    46141 Essen    www.tuv-nord-cert.de

02IAO-QMC-01921    page 1/1    A13F26he Rev. 01/03.19

# CLIENT CERTIFICATION



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# VDA CERTIFICATE

01-12-2020

### Audit report VDA 6.3 Evaluation of quality capability

Date (yyyy-mm-dd): 2020-11-30  
 Supplier name: M/s. Liason Inc  
 ZF Supplier ID: ZF553101  
 Production site (location/city): Chennai  
 Country: India

Commodity: FF05 - Turned Parts  
 Audit Reason: Monitoring of Serial Production  
 Product: Bearing Adjuster  
 Comparable with ZF part: Yes  
 Audit scope: Series production

Evaluated process elements	Evaluation Index	EQ (%)	Rating
P2, P3, P4, P5, P6, P7	E <sub>EQ</sub>	93%	A
Evaluated product group			
Bearing Adjuster	E <sub>EQ</sub>	93%	A
	E <sub>EQ</sub>		
	E <sub>EQ</sub>		
	E <sub>EQ</sub>		

Classification scale: A = 90 - 100% quality capable, B = 80 - 90% conditionally quality capable, C = 5 - 78% not quality capable

Certificate / Audit No.	Issue Date	Conducted by	Result
LIATF 169432076	04-11-2020	TLV	Certified

ZF	At the supplier
Central Audit Management System (ZAMS)	

ZF		At the supplier	
Name	Department	Name	Department
Senthil Kumaran	CSM	Prabudass	Head Quality QMS
		Ezhumalai	Production
		Karthikey Kumar	QA
		Mohana Sundaram	In-Process Quality

Lead Auditor: Auditor: Senthil Kumaran 01-Dec-2020

**Summary / Documents**

**Summary of the audit carried out:**

Previous Audit (Feb 20) result 76 C. Further corrective action and self assessment received. As per consequence matrix re-audit conducted in Dec 20. Product Management verified for 4800089, Ball return guide -RH. Production audit conducted for Bearing Adjuster.

During the audit the following significant findings were identified:

- + CNC precision Latches Thegandi and Pizakki - 7 Nos
- + Power Presses 56T/56T/56T/56T/56T
- + Financial year 2018-2019 sale 140 Million
- + Spaces for new line setup.
- + Internal ppm targets to be reviewed.
- + Carriage for autotransferring (external process) to be ensured.
- + Capacity to be ensured for whole supply chain.
- + Supplier performance - Internal ppm targets based on commodity industries.
- + Incoming Storage to be improved.
- + Normality values not meeting ZF requirements.

**Conclusion:**  
Same as above

**Schedule of action plan**

Confirmation of measures	16-12-2020	Effectiveness check	23-01-2021

Corrective Actions see "Actionplan-Maßnahmenplan"

Signed by organization

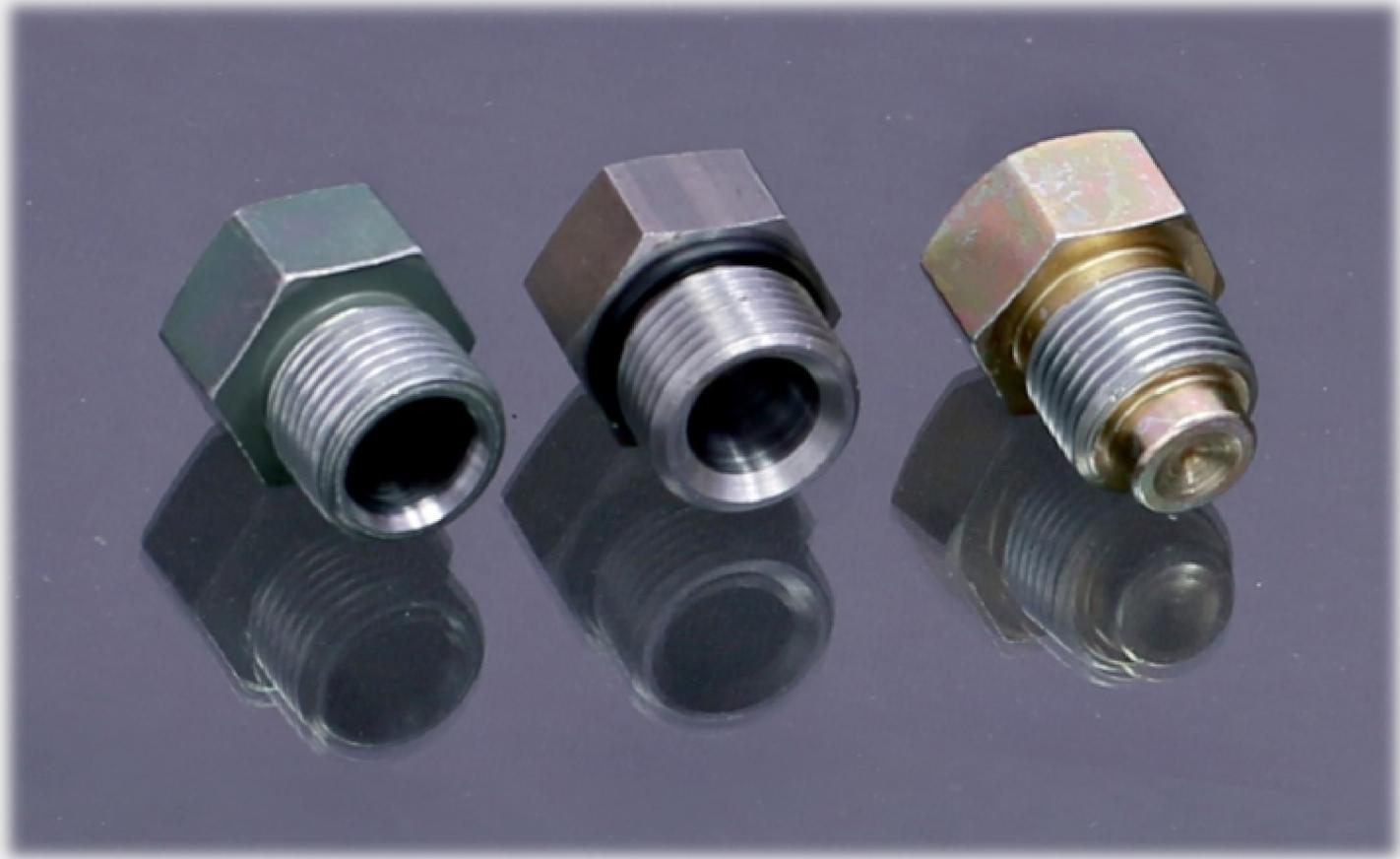


## Rating : A with 93%

# PRODUCTS MANUFACTURED



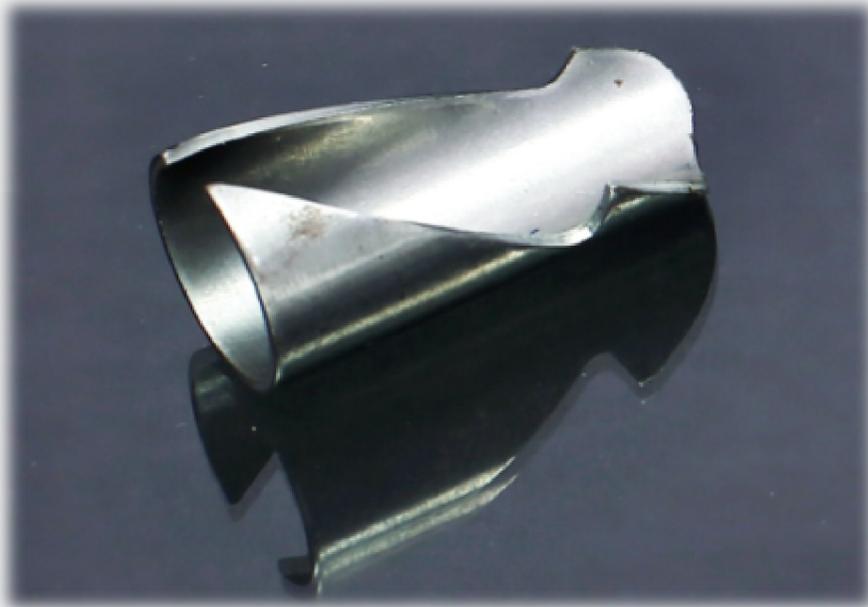
# PRODUCTS MANUFACTURED



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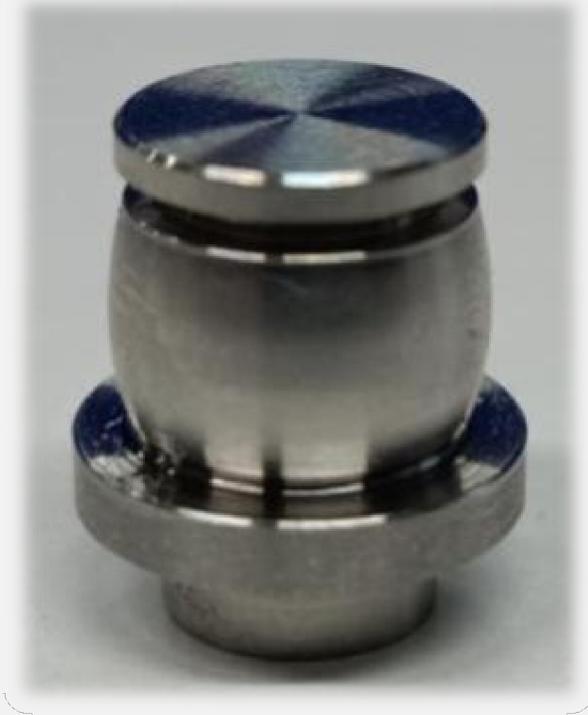
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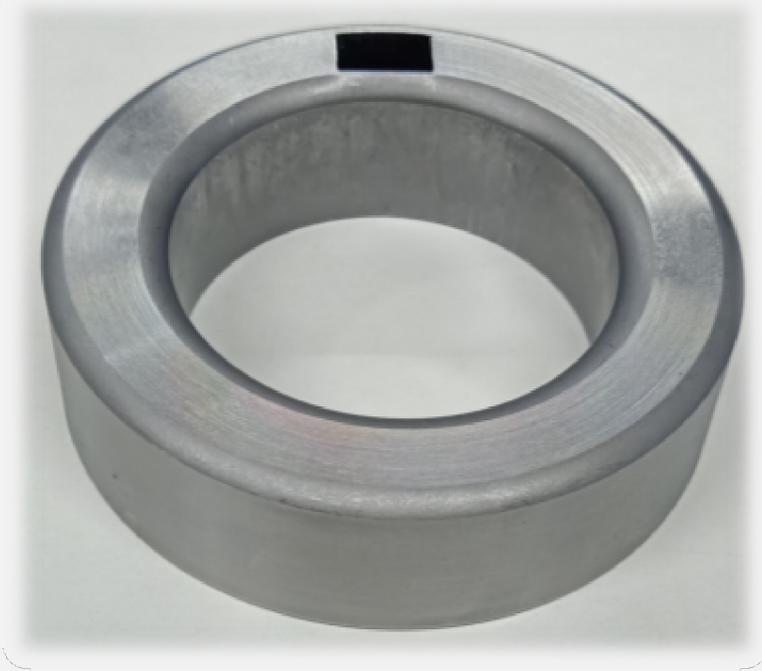
# PRODUCTS MANUFACTURED



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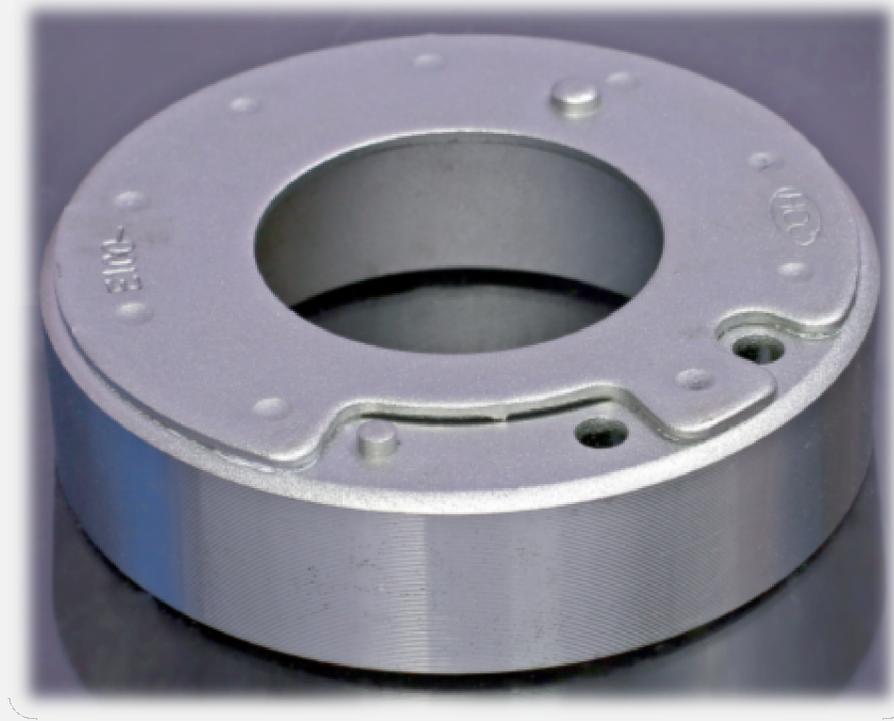


# PRODUCTS MANUFACTURED



Assembly

# PRODUCTS MANUFACTURED



Assembly

# PRODUCTS MANUFACTURED



Assembly

# PRODUCTS MANUFACTURED



Assembly

# SPM MANUFACTURED



## FUEL DELIVERY MODULE ASSEMBLY LINE – YV4



### CUSTOMER:

CLIMATE SYSTEMS INDIA  
LIMITED, BHIWADI PLANT, INDIA.

### MAIN FUNCTION:

FUEL DELIVERY MODULE ASSEMBLY  
AND TESTING

### KEY FEATURES:

- 13 ASSEMBLY STATIONS, 3 LEAK TESTING STATIONS AND 1 END OF LINE TESTER.
- PRESURE DROP AND FLOW TESTING
- RESISTANCE Vs HEIGHT CHECKING AND MOTOR CURRENT & DIRECTION TESTING
- TRACEABILITY SYSTEM WITH ASSEMBLY, TESTING DATAS.



# SPM MANUFACTURED



## FUEL DELIVERY MODULE ASSEMBLY LINE – YL6



### CUSTOMER:

CLIMATE SYSTEMS INDIA  
LIMITED, BHIWADI PLANT, INDIA.

### MAIN FUNCTION:

FUEL DELIVERY MODULE  
ASSEMBLY AND TESTING

### KEY FEATURES:

- 5 ASSEMBLY STATIONS, 2 LEAK TESTING STATIONS AND 1 END OF LINE TESTER.
- PRESURE DROP AND FLOW TESTING
- RESISTANCE Vs HEIGHT CHECKING AND MOTOR CURRENT & DIRECTION TESTING
- TRACEABILITY SYSTEM WITH ASSEMBLY, TESTING DATAS.

# SPM MANUFACTURED



## INDUSTRIAL FILTER ASSEMBLY LINE

### CUSTOMER:

**MAHLE FILTER SYSTEMS (INDIA)  
PRIVATE LTD, GURGAON PLANT, INDIA.**

### STATIONS:

1. TRANSFER CONVEYOR (ELEMENT PREPARATION STATION TO SIDE SEALING STATION)
2. SIDE SEALING STATION
3. TRANSFER CONVEYOR (SIDE SEALING STATION TO END CAP SEALING STATION)
4. END CAPS GLUEING STATION
5. END CAP CURING STATION



# SPM MANUFACTURED



## HVAC SYSTEM ASSEMBLY & TESTING LINE

### CUSTOMER:

**VISTEON AUTOMOTIVES SYSTEMS  
INDIA PVT LTD, CHENNAI PLANT, INDIA**

### MAIN FUNCTION:

ASSEMBLING CHILD PARTS OF HVAC  
ASSEMBLY UNIT AND FUNCTIONAL TESTING

### KEY FEATURES:

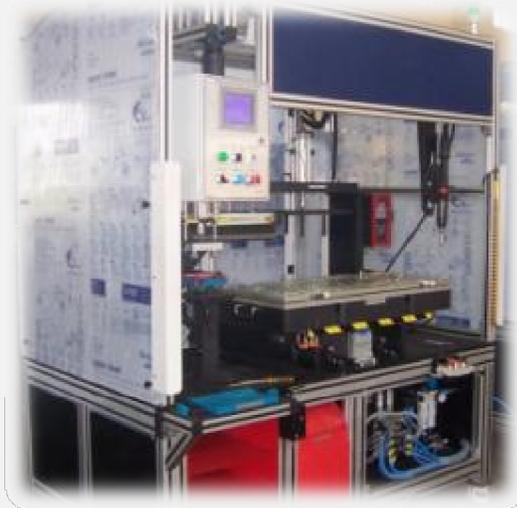
- SIX ASSEMBLY STATIONS AND ONE TESTING STATION
- FOUR PALLET TRANSFER UNIT AND TWO PALLET INDEXING HEAD
- FUNCTIONAL TESTING INCLUDES, VOLTAGE, CURRENT, VIBRATION AND NOISE TESTING
- COMMON FIXTURING FOR FOUR DIFFERENT MODELS



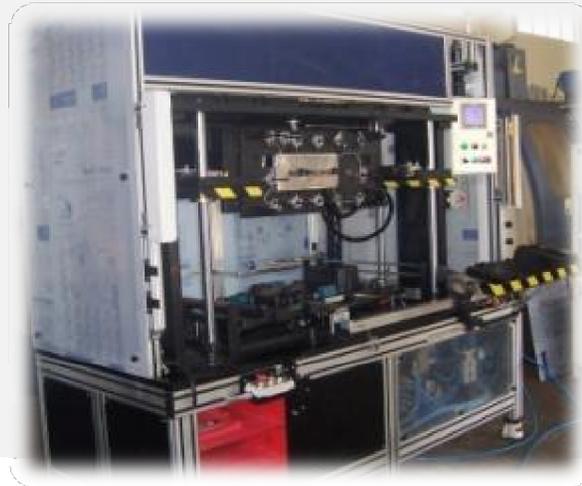
# SPM MANUFACTURED



**VALVE ASSEMBLY**



**GASKET ASSEMBLY**



**SCREW ASSEMBLY**

## **VOLVO ENGINE HEAD COVER ASSEMBLY LINE**

### **CUSTOMER:**

**MAHLE FILTER SYSTEMS (INDIA)  
PRIVATE LTD, CHENNAI PLANT, INDIA.**

### **STATIONS:**

1. VALVE ASSEMBLY
2. GASKET, LOGO BATCH AND BEAUTY SHIELD ASSEMBLY
3. SCREWS ASSEMBLY

# SPM MANUFACTURED



## FAN SYSTEM ASSEMBLY LINE

### CUSTOMER:

**VALEO INDIA PRIVATE  
LIMITED, SANAND PLANT, INDIA.**

### STATIONS:

1. SHROUD AND MOTOR ASSEMBLY STATION
2. FAN & MOTOR ASSEMBLY STATION



# SPM MANUFACTURED



## HVAC ASSEMBLY LINE – BWM KKL



### CUSTOMER:

**VALEO  
SDN.BHD, MALAYSIA.**

**MALAYSIA**

### MAIN FUNCTION:

HVAC ASSEMBLY AND END OF LINE  
TESTER

### KEY FEATURES:

- BLDC MOTOR ASSEMBLY STATION
- HEATER, EVAPORATOR, DISTRIBUTION HOUSING ASSEMBLY STATION
- END OF LINE TESTER WITH NOISE CHAMBER : HEATER & EVAPORATER LEAK TESTING, BLDC MOTOR CURRENT CHECK, ACTUATOR POSITION CHECK. PTC CURRENT CHECK
- LIN COMMUNICATION FOR BLDC MOTOR, ACTUATORS AND PTC.

# SPM MANUFACTURED



## FILTER ELEMENT ASSEMBLY CONVEYOR



### CUSTOMER:

**MAHLE FILTER SYSTEMS (INDIA)  
PRIVATE LTD, PARWANOO PLANT, INDIA.**

### STATIONS:

**TWO LINE SYSTEM FOR TOP & BOTTOM CAPS TO  
ACHIEVE 40 PARTS PER MINUTE CYCLE TIME.**

1. CAPS DISPENSING STATION WITH HOPPER
2. CAPS GLUEING STATIONS
3. ELEMENT FEEDING CONVEYOR
4. CURING ZONE INDUCTION HEATING SYSTEM & PNEUMATIC PRESSING HEAD
5. AUTOMATIC TILTING STATIONS
6. FILTER HEIGHT CHECKING STATIONS



**GLUEING ZONE**



**CURING ZONE**



**TILTING ZONE**



# SPM MANUFACTURED



## DDSBA ASSEMBLY LINE

### CUSTOMER:

**SUNDARAM CLAYTON, CHENNAI  
PLANT, INDIA**

### MAIN FUNCTION:

**HOUSING ASSEMBLY, HEAVY COIL  
SPRING ASSEMBLY, CLAMP ASSEMBLY & BOLT  
TIGHTENING**

### KEY FEATURES:

- TEN ASSEMBLY STATIONS AND TWO TESTING STATION
- COMMON FIXTURING FOR THREE DIFFERENT MODELS
- BOLT TIGHTENING USING DC NUT RUNNER
- HEAVY COIL COMPRESSION USING HYDRAULIC HEAD



# SPM MANUFACTURED



## OIL MIST SEPERATOR ASSEMBLY LINE

### CUSTOMER:

**MAHLE FILTER SYSTEMS (INDIA)  
PRIVATE LTD, GURGAON PLANT, INDIA.**

### STATIONS:

1. VALVE ASSEMBLY
2. HOUSING ASSEMBLY
3. PCV HOUSING ASSEMBLY
4. LEAK TESTING



### KEY FEATURES:

- PARTS PRESENCE & PRESSING LOAD CHECK  
POKA-YOKE
- LEAK TESTING
- DATECODE MARKING.



# SPM MANUFACTURED



## FUEL TANK ASSEMBLY & LEAK TESTING LINE



### CUSTOMER:

INERGY AUTOMOTIVES, VELLORE

### STATIONS:

1. STABILISATION CONVEYOR
2. FUEL DELIVERY MODULE ASSEMBLY
3. RESISTANCE & MOTOR CURRENT CHECKING
4. FUEL TANK LEAK TESTING



### KEY FEATURES:

- DC NUT RUNNER FOR FDM LOCK NUT TIGHTENING
- EMPTY & FULL RESISTANCE CHECKING BY INDEXING FUEL TANK
- FUEL TANK LEAK TESTING



# SPM MANUFACTURED



## BRAZING MACHINE – 6 STATION

### CUSTOMER:

VISTEON AUTOMOTIVES SYSTEMS  
INDIA PRIVATE LIMITED, CHENNAI PLANT, INDIA.

### MAIN FUNCTION:

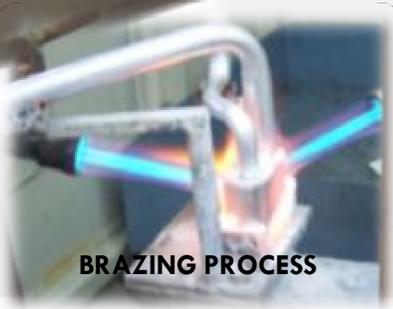
BRAZING OF ALUMINIUM TUBE WITH MANIFOLD

### KEY FEATURES:

- SIX STATION ROTRAY INDEX
- TWO PRE-HEAT STATIONS AND ONE BRAZING STATION
- AUTOMATIC WIRE FEEDER AT BRAZING STATION TO ENSURE BRAZING TEMPERATURE.
- AIR COOLING & WATER COOLING STATIONS TO COOL THE PART BEFORE UNLOADING



PRODUCT IMAGE

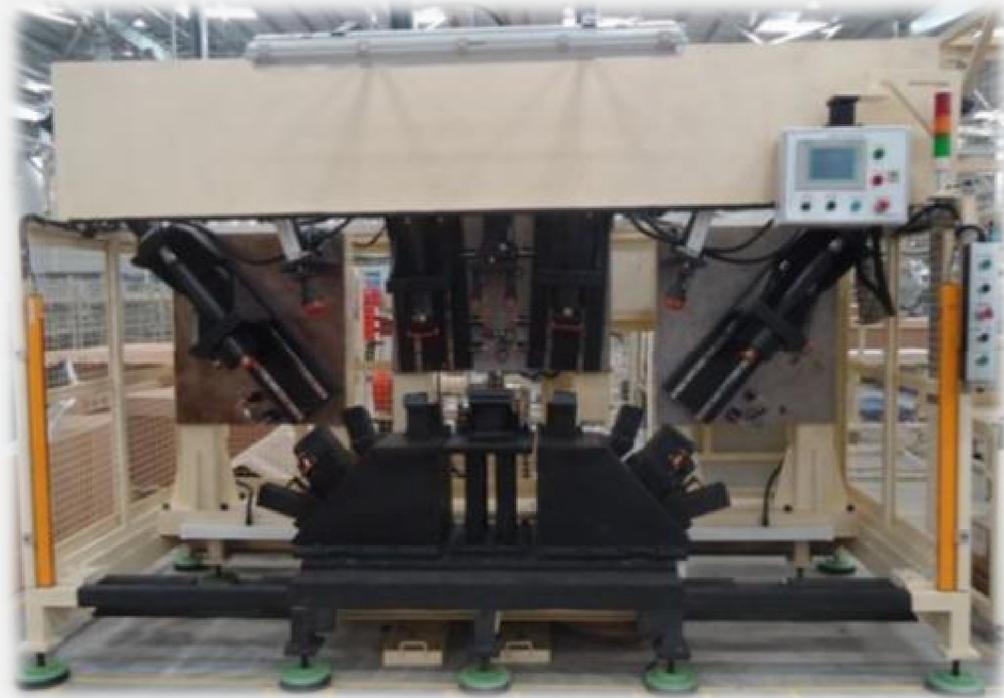


BRAZING PROCESS

# SPM MANUFACTURED



## BUMPER PUNCHING MACHINE



### CUSTOMER:

**RENAULT INDIA PRIVATE  
LIMITED, ORAGADAM PLANT, INDIA**

### MAIN FUNCTION:

PARKING SENSORS HOLES PIERCING

### KEY FEATURES:

- HYDRAULIC PIERCING SYSTEM WITH VARIABLE LOAD SETTING
- DUAL SPEED OPERATION (RAPID/ SLOW) FOR CYCLE TIME REDUCTION
- FLASH FREE OPERATION

# SPM MANUFACTURED



## RENAULT NISSAN– BUMPER PUNCHING & BRACKET WELDING



### CUSTOMER:

RENAULT INDIA PRIVATE  
LIMITED, ORAGADAM PLANT, INDIA

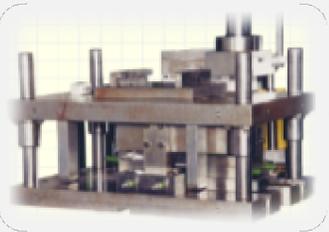
### MAIN FUNCTION:

SENSOR MOUNTING BRACKETS ULTRASONIC  
WELDING

### KEY FEATURES:

- ULTRASONIC WELDING USING BRANSON WELDING SYSTEM
- AUTOMATIC WELD TIME CONTROL

# SPM MANUFACTURED



## RADIATOR TANK CRIMPING MACHINE

### CUSTOMER:

**VALEO INDIA PRIVATE LIMITED, CHENNAI PLANT, INDIA.**

### MAIN FUNCTION:

CRIMPING OF INLET/OUTLET TANK WITH RADIATOR CORE

### KEY FEATURES:

- 25 TONS HYDRAULIC PRESS
- EASE CHANGEOVER OF DIES USING DIE LOAD RAILS
- CAPABLE OF HANDLING SMALL & LARGE SIZE RADIATORS AND INTERCOOLERS
- INLET & OUTLET CORE DETECTION

# SPM MANUFACTURED



## TUBE END FORMING MACHINE - AUTOMATIC



### CUSTOMER:

**ONEGENE AUTOPARTS INDIA  
PRIVATE LIMITED, CHENNAI PLANT, INDIA**

### MAIN FUNCTION:

TUBE END PROFILE FORMING

### KEY FEATURES:

- AUTOMATIC TUBE LOADING AND UNLOADING SYSTEM
- SIX PUNCH LINEAR INDEX SYSTEM FOR MULTISTAGE PROFILE FORMING
- HYDRAULIC CLAMPING AND FORMING HEAD OF 8 TONS CAPACITY
- FORMING PRESSURE & POSITION POKA-YOKE TO ENSURE PROPER FORMING



**LIASON INC**  
PASSION FOR PRECISION

# SPM MANUFACTURED



## RACK TUBE WASHING MACHINE



### CUSTOMER:

**RANE TRW STEERING SYSTEMS  
LIMITED, CHENNAI PLANT, INDIA.**

### MAIN FUNCTION:

**ULTRASONIC CLEANING, HIGH  
PRESSURE WASHING & DRYING OF RACK TUBES.**

### KEY FEATURES:

- **ULTRASONIC CLEANING & HIGH PRESSURE WASHING AT 20 BAR.**
- **ALKALINE AND HOT WATER WASHING**
- **ACHIEVING CLENLINESS OF 1.8mg**
- **THREE STAGE DUPLEX FILTERATION SYSTEM**
- **VACUUM CHAMBER WITH VACUUM BLOWER AND IR HEATER FOR ACHIEVING HIGHER DRYNESS FRACTION**

# SPM MANUFACTURED



## TUBE WASHING MACHINE WITH DRYER



### CUSTOMER:

**ONEGENE AUTOPARTS INDIA  
PRIVATE LIMITED, CHENNAI PLANT, INDIA**

### MAIN FUNCTION:

TUBE WASHING AND DRYING

### KEY FEATURES:

- MULTISTAGE WASHING USING DIFFERENT WASHING MEDIAS (HOT WATER/ ALKALI/ FRESH WATER/ CLEAN HOT WATER)
- ULTRASONIC CLEANER FOR REMOVE STICKY PARTS FROM TUBES
- HIGH PRESSURE WASHING (20 bar) USING VEEJET NOZZLES OF SPARYING SYSTEMS INC, USA.
- HOT AIR SPARYING SYSTEM FOR BETTER DRYNESS FRACTION

# SPM MANUFACTURED



## RACK WASHING MACHINE

### CUSTOMER:

**RANE TRW STEERING SYSTEMS  
LIMITED, CHENNAI PLANT, INDIA.**

### MAIN FUNCTION:

WASHING OF RACKS

### KEY FEATURES:

- HIGH PRESSURE WASHING AT 18 BAR PRESSURE
- GUN DRILL HOLE CLENGING USING SPECIALLY DESINGED WIRE BRUSH
- ACHIVING CLEANLINESS OF 1.2mg
- DUPLEX FILTERATION SYSTEM



# SPM MANUFACTURED



PRODUCT IMAGE



## INSERT INSERTION MACHINE

### CUSTOMER:

VALEO INDIA PRIVATE LIMITED,  
SANAND PLANT, INDIA.

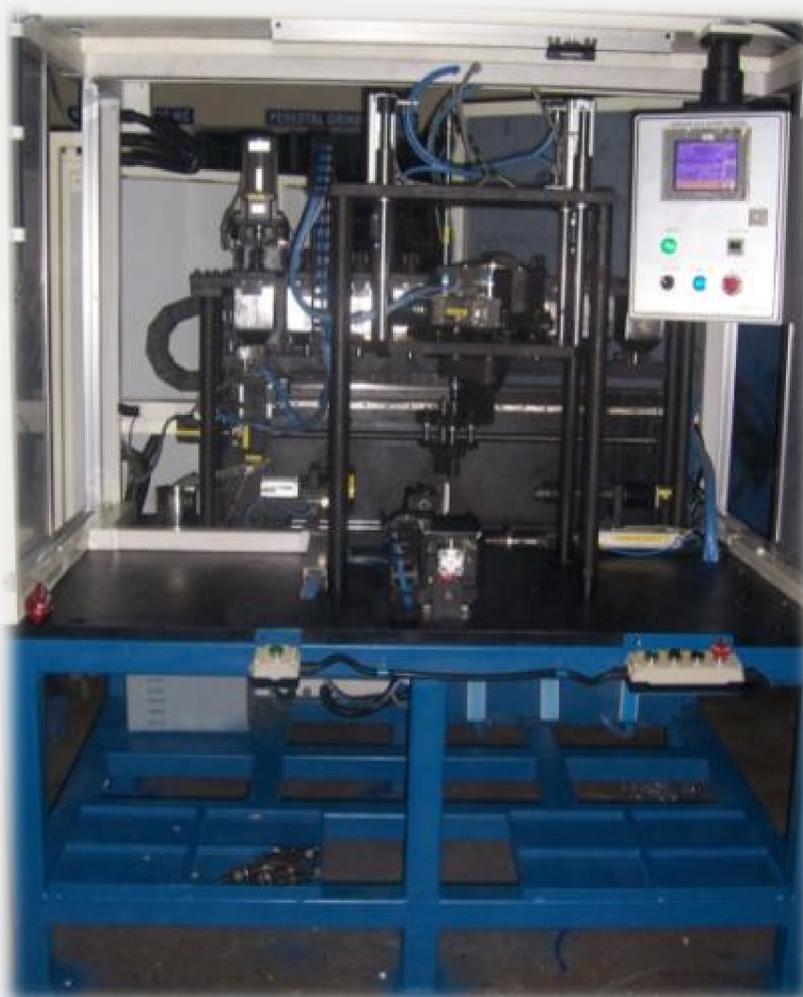
### MAIN FUNCTION:

INSERTING INSERTS INTO RADIATOR TUBES

### KEY FEATURES:

- SEVEN SERVO DRIVE SYSTEM FOR VARIOUS MOTION CONTROL
- INSERTING INSERTS ARE IN TRANSITION FIT WITH TUBES
- POSITIONING ACCURACY OF 10microns OVER 900mm LENGTH
- ACCOMMODATE SMALL TO LARGE SIZE OF RADIATORS

# SPM MANUFACTURED



## WORM RACK ASSEMBLY MACHINE

### CUSTOMER:

RANE TRW STEERING SYSTEMS  
LIMITED, CHENNAI PLANT, INDIA.

### MAIN FUNCTION:

RACK ASSEMBLY INTO WORM  
GEAR, AUTOMATIC BALLS FEEDING AND CLAMP  
TIGHTENING

### KEY FEATURES:

- 8 CONTAINERS FOR 8 SIZES OF BALLS
- AUTOMATIC BALLS COLLECTION ACCORDING TO WORM & RACK DIMENSIONS
- AUTOMATIC FEEDING OF BALLS DURING WORM & RACK ASSEMBLY WITH BALLS COUNTING POKA-YOKE.
- DYNAMIC TORQUE SENSOR FOR FORWARD AND REVERSE TORQUE CHECK
- CLAMP TIGHTENING SYSTEM

# SPM MANUFACTURED



## SECTOR SHAFT ASSEMBLY MACHINE

### CUSTOMER:

RANE TRW STEERING SYSTEMS  
LIMITED, CHENNAI PLANT, INDIA.

### MAIN FUNCTION:

SECTOR SHAFT ASSEMBLY

### KEY FEATURES:

- SECTOR SHAFT PRESSING USING HYDRAULIC CYLINDER HEAD
- PRESSING LOAD CHECK BY PRESSURE SWITCH
- LOCK NUT TIGHTENING USING SERVO TIGHTENING SYSTEM
- COMMON MACHINE FOR THREE VARIANTS

# SPM MANUFACTURED



## FIN COLLECTING MACHINE



### CUSTOMER:

CLIMATE SYSTEMS INDIA  
LIMITED, BHIWADI PLANT, INDIA.

### MAIN FUNCTION:

ORIENTING & COLLECTING FINS FROM FIN MILL

### KEY FEATURES:

- CHANGING FIN ORIENTATION BY MULTIPROFILE CHUTE ARRANGEMENT
- AUTOMATIC TRAY UNLOADING AND TRAY LOADING
- FIN COLLECTION AT A SPEED OF 60 PARTS PER MINUTE

# SPM MANUFACTURED



## FIELD COIL CURING CONVEYOR



### CUSTOMER:

WOORY AUTOMOTIVES, CHENNAI

### PLANT

### MAIN FUNCTION:

FIELD COIL PRE-HEATING, EPOXY FILLING AND CURING

### KEY FEATURES:

- CONVEYOR SYSTEM WITH SS HONEY-COMB BELT & VARIABLE SPEED MOTOR
- IR HEATERS WITH THYRISTOR DRIVES FOR CONTROLLED TEMPERATURE
- INSULATED CONSTRUCTION USING CERAMIC BLANKETS.
- EPOXY DISPENSING (MANUAL) STATION

# SPM MANUFACTURED



## RADIATOR LEAK TESTING MACHINE

### CUSTOMER:

**DELPHI AUTOMOTIVES SYSTEMS INDIA  
PRIVATE LIMITED, GREATER NOIDA PLANT, INDIA.**

### MAIN FUNCTION:

GAUGING AND LEAK TESTING

### KEY FEATURES:

- ROTARY INDEX TYPE ARRANGEMENT WHICH SAVES 50% FLOOR SPACE & OPERATOR FATIGUE
- MECHANICAL GAUGING AS PER GD&T
- LEAK DETECTION USING ATEQ F520 LEAK DETECTORS
- UNIQUE BARCODE LABEL GENERATION WITH LEAK VALUES DATA



# SPM MANUFACTURED



## FUEL FILTER LEAK TESTING MACHINE

### CUSTOMER:

MAHLE FILTER SYSTEMS (INDIA)  
PRIVATE LTD, GURGAON PLANT, INDIA.

### MAIN FUNCTION:

CONDUCTING LEAK TEST IN FUEL FILTER OF  
DIFFERENT VARIANTS.

### KEY FEATURES:

- UNDER WATER LEAK CHECK- VISUAL
- LEAK TEST (PRESSURE DIFFERTIAL)
- DATE CODE MARKING FOR OK PARTS
- HOLE DRILLING FOR REJECTED PARTS (TO AVOID MIXUP OF REJECTION PARTS)



# SPM MANUFACTURED



## CANISTOR LEAK TESTING MACHINE



### CUSTOMER:

**MAHLE FILTER SYSTEMS (INDIA)  
PRIVATE LTD, CHENNAI PLANT, INDIA.**

### MAIN FUNCTION:

LEAK TEST AND PRESSURE BUILD UP TEST ON TANK  
& PURGE PORTS.

### KEY FEATURES:

- FOUR STATION ROTAY INDEX TO ELIMINATE LOAD/UNLOAD TIME.
- BACK PRESSURE TEST TO ENSURE CARBON LEVEL INSIDE PART USING ATEQ 520 TESTER.
- AIR LEAK TEST USING ATEQ F620 LEAK DETECTOR
- DATE CODE MARKING

# SPM MANUFACTURED



## LEAK TESTING MACHINE



### CUSTOMER:

**MODINE  
SYSTEMS, CHENNAI**

**THERMAL**

### MAIN FUNCTION:

LEAK TESTING OF FLUID TRANSPORT LINE PARTS  
(ALUMINIUM TUBES & HOSES)

### KEY FEATURES:

- UNDER WATER AND PRESSURE DIFFERENTIAL LEAK TESTING.
- 8 PARTS CAN BE TESTING AT A TIME.
- LEAK INDICATION FOR INDIVIDUAL PARTS

# SPM MANUFACTURED



## EVAPORATOR CORE PROOF LEAK TESTER

### CUSTOMER:

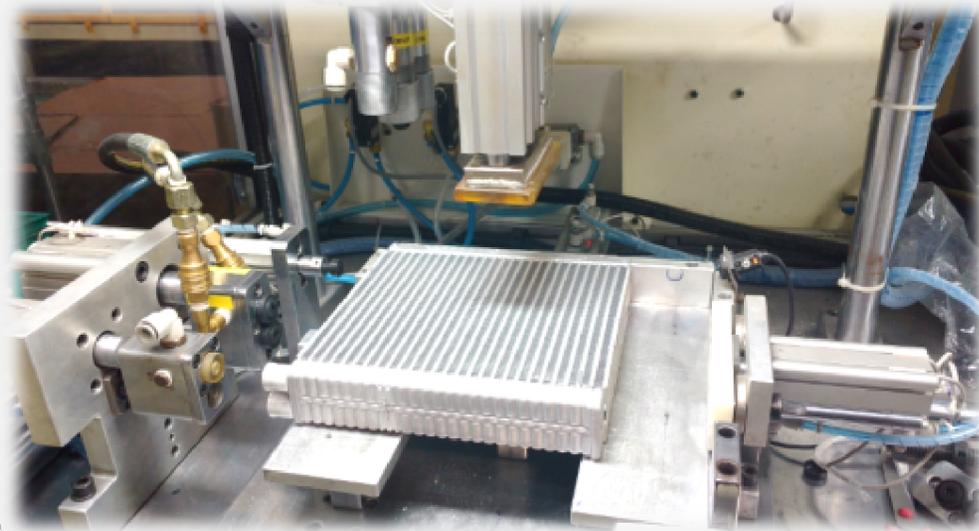
VISTEON AUTOMOTIVE SYSTEMS  
INDIA P LTD, CHENNAI PLANT.

### MAIN FUNCTION:

PROOF LEAK AND PRESSURE DROP TESTING OF  
EVAPORATOR CORES

### KEY FEATURES:

- PROOF PRESSURE LEAK TESTING @ 18bar PRESSURE.
- PRESSURE DROP TEST USING ATEQ F620 LEAK TESTER.
- BLOCKAGE CHECK USING ATEQ D520 FLOW TESTER
- OK MARKING FOR OK PARTS



# SPM MANUFACTURED



## VALEO THERMAL SYSTEMS – HVAC FINAL INSPECTION MACHINE

### CUSTOMER:

VALEO INDIA PRIVATE LIMITED  
(THERMAL), CHENNAI PLANT

### MAIN FUNCTION:

FINAL INSPECTION AND FUNCTIONAL TESTING.

### KEY FEATURES:

- PARTS PRESENCE CHECK
- BLOWER MOTOR CURRENT CHECK AT 4 DIFFERENT VOLTAGE SETTINGS
- AIR FLOW CHECK USING KANOMAX ANEMOMETER
- VIBRATION CHECK USING RION VIBRATION SENSOR

# SPM MANUFACTURED



## VIBRATION CHECK BENCH

### CUSTOMER:

**DELPHI AUTOMOTIVES SYSTEMS INDIA  
PRIVATE LIMITED, GREATER NOIDA PLANT, INDIA.**

### MAIN FUNCTION:

FAN SYSTEM RUN OUT, RPM, CURRENT AND VIBRATION  
CHECKING

### KEY FEATURES:

- RUN OUT CHECK USING MARPOSS LVDT
- FAN BLADE RPM CHECK USING LASER SENSOR
- MOTOR CURRENT DRAWN CHECK IN 4 SPEED LEVELS
- 3 AXES VIBRATION CHECK USING IFM VIBRATION SENSORS
- PART TESTING RESULT WITH UNIQUE CODE PRINTING



# SPM MANUFACTURED



## KB125 AIR FILTER ASSEMBLY STATION



### CUSTOMER:

MAHLE FILTER SYSTEMS (INDIA)  
PRIVATE LTD, GURGAON PLANT, INDIA.

### MAIN FUNCTION:

FILTER, COVER AND CLIP ASSEMBLY  
WITH AIR FILTER BODY.

### KEY FEATURES:

- INLET & OUTLET PORT GAUGING
- PARTS PRESENCE CHECK POKA-YOKE
- AUTOMATIC COVER ASSEMBLY
- AUTOMATIC CLIP INSERTION
- DATECODE MARKING.



# SPM MANUFACTURED



## YP8 AIR CLEANER ASSEMBLY STATION



### CUSTOMER:

MAHLE FILTER SYSTEMS (INDIA)  
PRIVATE LTD, GURGAON PLANT, INDIA.

### MAIN FUNCTION:

FILTER, COVER ASSEMBLY WITH BODY AND  
SCREWS TIGHTENING.

### KEY FEATURES:

- INLET & OUTLET PORT GAUGING
- PARTS PRESENCE CHECK POKA-YOKE
- TORQUE CONTROLLED SCREWING AND SCREWS  
COUNT CHECK POKA-YOKE.
- DATECODE MARKING.

# SPM MANUFACTURED



## SIMPSON REGULATOR COVER ASSEMBLY STATION

### CUSTOMER:

**MAHLE FILTER SYSTEMS (INDIA)  
PRIVATE LTD, CHENNAI PLANT, INDIA.**

### MAIN FUNCTION:

REGULATOR COVER ASSEMBLY & SNAP CHECK

### KEY FEATURES:

- PART PRESENCE CHECK POKA-YOKE
- VACUUM SYSTEM FOR MEMBRANE HOLDING & DIRECTION CHECK
- SNAPS CHECK AFTER REGULATOR ASSEMBLY

# SPM MANUFACTURED



## B4A AIR CLEANER ASSEMBLY & MARKING

### CUSTOMER:

**MAHLE FILTER SYSTEMS (INDIA)  
PRIVATE LTD, CHENNAI PLANT, INDIA.**

### MAIN FUNCTION:

**FILTER, COVER AND CLIP ASSEMBLY  
WITH AIR FILTER BODY.**

### KEY FEATURES:

- PARTS PRESENCE CHECK POKA-YOKE
- AUTOMATIC CLIP INSERTION
- DATECODE MARKING



# SPM MANUFACTURED



## RADIATOR BRACKET & FOAM ASSEMBLY MACHINE



### CUSTOMER:

**VALEO INDIA PRIVATE LIMITED, SANAND PLANT, INDIA.**

### MAIN FUNCTION:

**RADIATOR BRACKET ASSEMBLY AND FOAM PASTING**

### KEY FEATURES:

- MODEL CHANGEOVER BY CHANGING TOOLING TROLLEY WHICH ELIMINATES USING MULTIPLE MACHINES
- BRACKET ASSEMBLY AND POSITION CHECK POKA-YOKE
- AUTOMATIC FOAM PASTING
- PART PICK SENSORS FOR RUBBER WASHER, FOAMS & BRACKETS.

# SPM MANUFACTURED



## ROBOT CELL FOR TURNING CENTER



### CUSTOMER:

**ABRAMI ENGINEERS, MARAIMALAI  
NAGAR, CHENNAI.**

### MAIN FUNCTION:

PART LOADING/ UNLOADING , RACK LENGTH  
CHECKING AUTOMATION

### KEY FEATURES:

- RACK LOADING/UNLOADING FROM 3 CNC TURNING CENTERS
- AUTOMATIC RACK TYPE DETECTION AND LOADING IN MACHINE
- RACK LENGTH CHECKING USING LVDTs
- ALERT FOR LOWER SPEC AND HIGHER SPEC PARTS



# SPM MANUFACTURED



## ROBOT CELL FOR TURNING CENTER



# PRODUCTS ARE EXPORTED TO



U S A



MEXICO

SPAIN



MALAYSIA

CHINA



# OUR CLIENTS

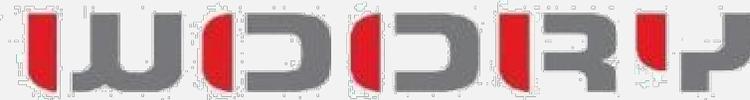


TURBO ENERGY



**MAHLE**

*Driven by performance*



**LIASON INC**  
PASSION FOR PRECISION



# OUR AIM

- TO BE ASSOCIATED WITH YOUR ESTEEMED ORGANISATION
- TO ADD SYNERGY TO YOUR BUSINESS GROWTH, THROUGH OUR MANUFACTURING CAPABILITIES
- HOPING TO BE AT YOUR SERVICE



**THANKS**

## Contact Us



Plot No G-15,  
SIPCOT Industrial Park, 3rd Cross Street,  
Vallam Vadagal, Sriperumbudur Taluk,  
Kancheepuram Dist,  
Tamil Nadu 602105.



[info@liasoninc.com](mailto:info@liasoninc.com)



SPM - 9444066327  
Components - 9444066468