



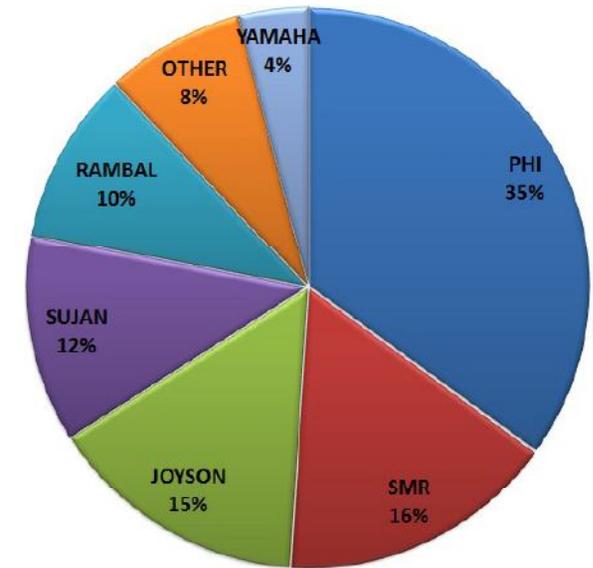
Excel Die Castings
No.29, SIDCO Industrial Estate,
Thirumudivakkam,
Chennai Tamilnadu-600044

ABOUT EXCEL DIE CASTINGS

EXCEL DIE CASTINGS

- ❖ EXCEL DIE CASTINGS, an IATF 16949:2016 company, was established in the year 1993
Mr. S. Nargunam, B.E., and as the founder of the company who is in the field of activity for more than four decades
- ❖ EDC is well Equipped with 6 Pressure Die Casting machines.
ranging form 90 to 350 Tonnage. It includes 90Ton hot Chamber
- ❖ Manufacturing Parts Weight ranging form 3grams to 2.7kg.
- ❖ The company driven with Highly experience Professionals of more the 20years.

Business Share



Sales Turnover - Annual



IATF 16949

ZERO DEFECT-ZERO EFFECT



Bureau Veritas Certification

Certificate of Approval

Awarded to
EXCEL DIE CASTINGS

NO.29, SIDCO INDUSTRIAL ESTATE, THIRUMUDIVAKKAM,
CHENNAI - 600044, TAMIL NADU, INDIA

Bureau Veritas Certification certify that the Quality Management System of the above organisation has been audited and found to be in accordance with the requirements of

IATF 16949 - First Edition
and the applicable customer specific requirements



SCOPE

Manufacturing

PERMITTED EXCLUSION(S)

8.3 - Design and development of products and services

PRODUCT(S) DELIVERED

PRESSURE DIE CASTING AND MACHINING

Date Of Certification: 02 August 2021

Date Of Expiration: 01 August 2024

IATF Certificate N°: 415403

Bureau Veritas Certification Certificate N°: IN038184- IATF

Revision:1

For Bureau Veritas Certification Holding, La Triangle de l'Arche, 8 Cours du Triangle - 92800 Puteaux - France
(The official document is in English. Any translations of this document shall be used for reference only.)



Ministry of Micro, Small & Medium Enterprises
and
Quality Council of India
awards

SILVER RATING

under Financial Support to MSMEs in ZED Certification Scheme
to
EXCEL DIE CASTINGS

Certified Unit Address : No.29, Second Main road,
SIDCO Industrial Estate, Thirumudivakkam,
Chennai, Tamil Nadu - 600044

NIC Code (as per NIC-2008) : 24320

UAM No. : TN08B0031518

Number of Parameters Assessed : 36

Rating Agency : Intertek India Private Limited



Issued on: 27/12/2018

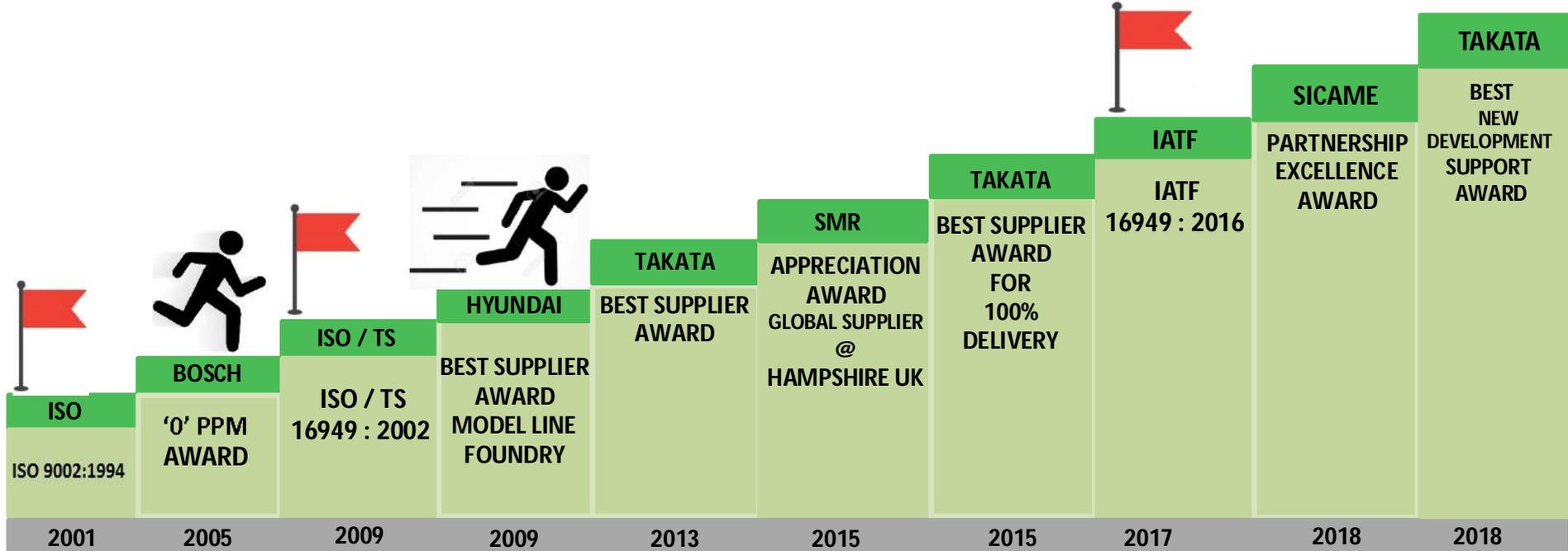
Certificate Validity:
Four years from the date of issue
(Subject to periodic surveillance)

Joint Secretary & Additional Development Commissioner
Office of the Joint Secretary, Ministry of MSME

Secretary General
Quality Council of India

This certificate has been awarded after fulfilling the requirements of ZED guidelines and assessment criteria based on the user's system & processes as on the date of assessment.

Mile Stone



Awards & Honours



PHI Best supplier Awards- 2017



SMR Summit & Award-2015

EXCEL DIE CASTINGS



EXCEL DIE CASTINGS

SICAME Partnership Excellence Award- 2018



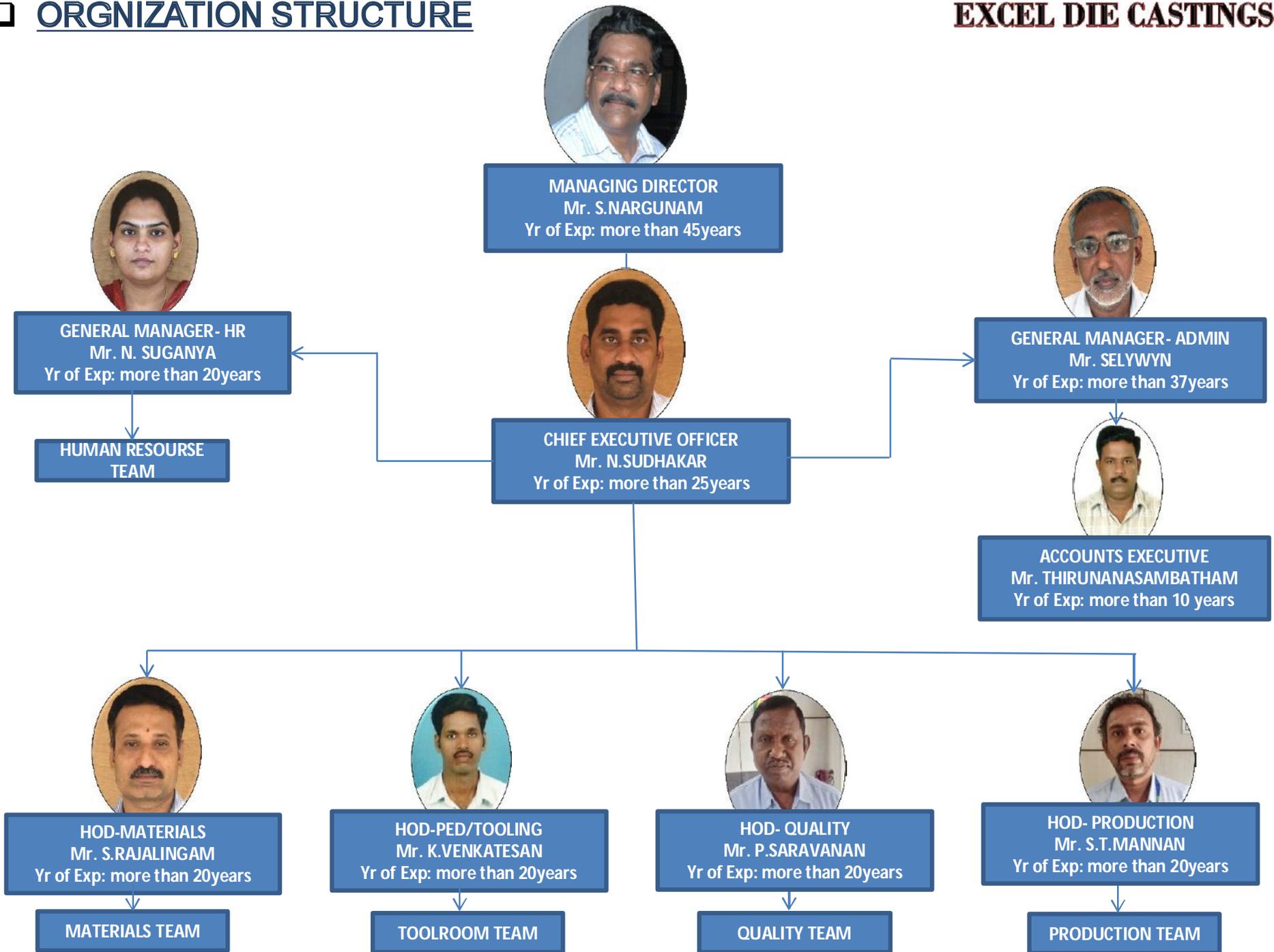
EXCEL DIE CASTINGS

International Engineering Sourcing Show



ORGANIZATION STRUCTURE

EXCEL DIE CASTINGS



PROCESS FLOW

RECEIPT OF RAW MATERIAL



RAW MATERIAL INSPECTION



STORAGE OF RAW MATERIAL



METAL MELTING & DEGASSING



SECONDARY PROCESS

MACHINING



SHOT-BLASTING



TRIMMING



FETTLING



IN-PROCESS INSPECTION



PRESSURE DIE CASTING



FINAL INSPECTION



PACKING



DESPATCH



CUSTOMER

□ Pressure Die Casting Machines:-

S.no`	Tonnage	Machine Make	Tie base distance	Shot Weight (kg)		Capacity Utilized
				Min	Max	
1	90	CHIT SHUN- CHINA	365X365	1.1 kg	1.2 kg	50%
2	138	CHIT SHUN- CHINA	410X410	0.68 kg	1.5 kg	75%
3	250	CHIT SHUN- CHINA	480X480	0.8 kg	1.8 kg	72%
4	350-I	TOSHIBA- JAPAN	650X650	1.9 kg	3.3 kg	76%
5	350-II	TOSHIBA- JAPAN	650X650	1.9 kg	3.3 kg	70%
6	350-III	TOSHIBA- JAPAN	650X650	1.9 kg	3.3 kg	70%



EXCEL DIE CASTINGS

Quality Inspection Facility:-

S.nos	Device	Qty
1	CMM	1
2	Radiography	1
3	Spectrometer	2
4	UTM	1
5	Digital Vernier	6
6	HCS compression	1
7	Digital Height Gauge	1
8	Micrometer	1
9	K-mould	1
10	Hardness Tester	1
11	Radiation Meter	1



❑ Secondary Process Facility:-

EXCEL DIE CASTINGS



**Hanger type
SHOTBLASTING**



**Tumb type
SHOTBLASTING**



Vibro



Age hardening



**Hydraulic Press
10TON & 5TON**



Linishing Machines



CNC Machine



VMC Machine



CUSTOMER JOURNEY

□ Our esteemed customer

EXCEL DIE CASTINGS



Product lists & Applications

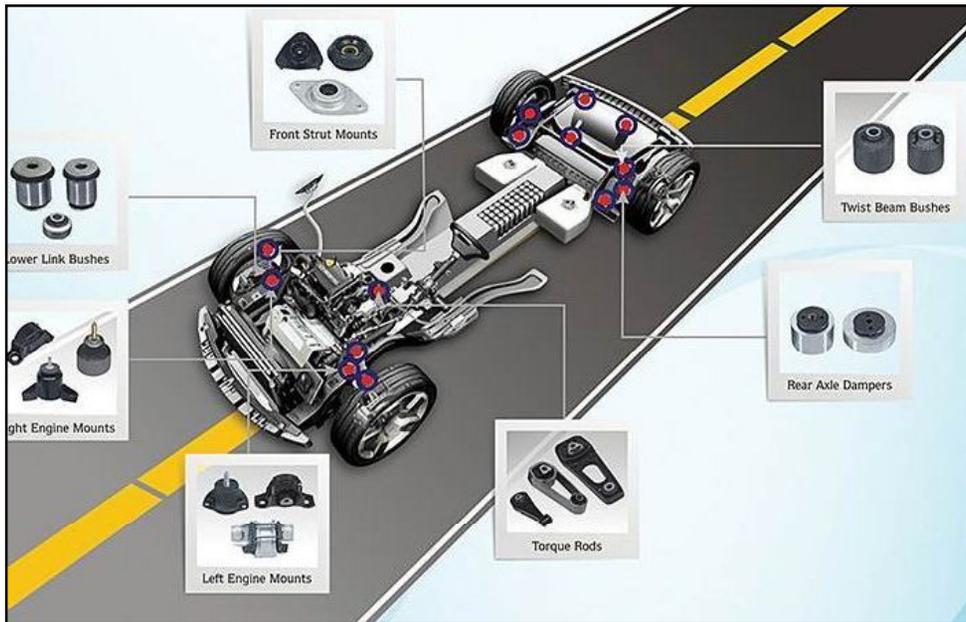
EXCEL DIE CASTINGS

Automotive Part:-

- 1. Heavy Vehicle- Truck.
- 2. Four wheelers- Light vehicle.
- 3. Two wheelers.

Non-Automotive Part:-

- 1. Lightings
- 2. Spacer Dampers.



Product List

EXCEL DIE CASTINGS

Customer: PYUNG HWA INDIA PRIVATE LTD

Application: **Anti-Vibration System (Engine Mount Assembly)**

End user: M/S Hyundai & M/S KIA

Total Supply Parts: 26 variant Parts.



❑ Product List

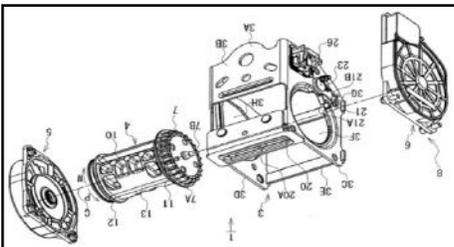
EXCEL DIE CASTINGS

Customer: JOYSON SAFETY SYSTEMS

Application: SEAT BELT ASSEMBLY & STEERING

End user: Hyundai, KIA, SUZUKI, HONDA, VOLVO

Total Supply Parts: 8 variant Parts.



❑ Product List

Customer: YAMAHA MOTOR ELECTRONICS INDIA

Application: SELF MOTOR

Total Supply Parts: 2 variant Parts.

EXCEL DIE CASTINGS



☐ Product List

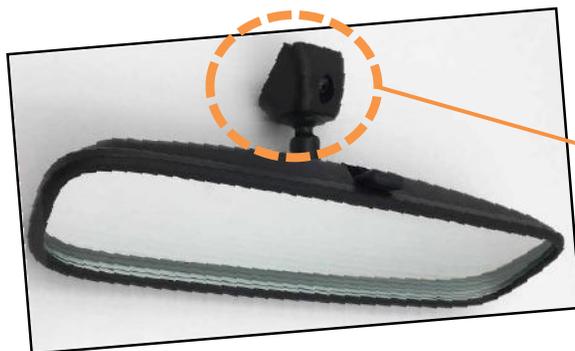
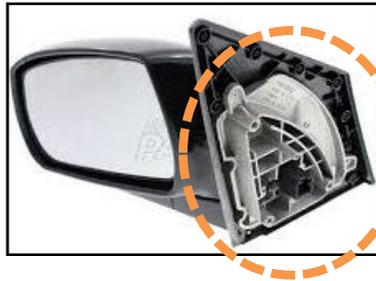
EXCEL DIE CASTINGS

Customer: SMR

Application: INTERNAL & EXTERNAL REAR VIEW MIRROR

End user: Ford Motors, Hyundai

Total Supply Parts: 44 variant Parts, inclusive of Spare Production.



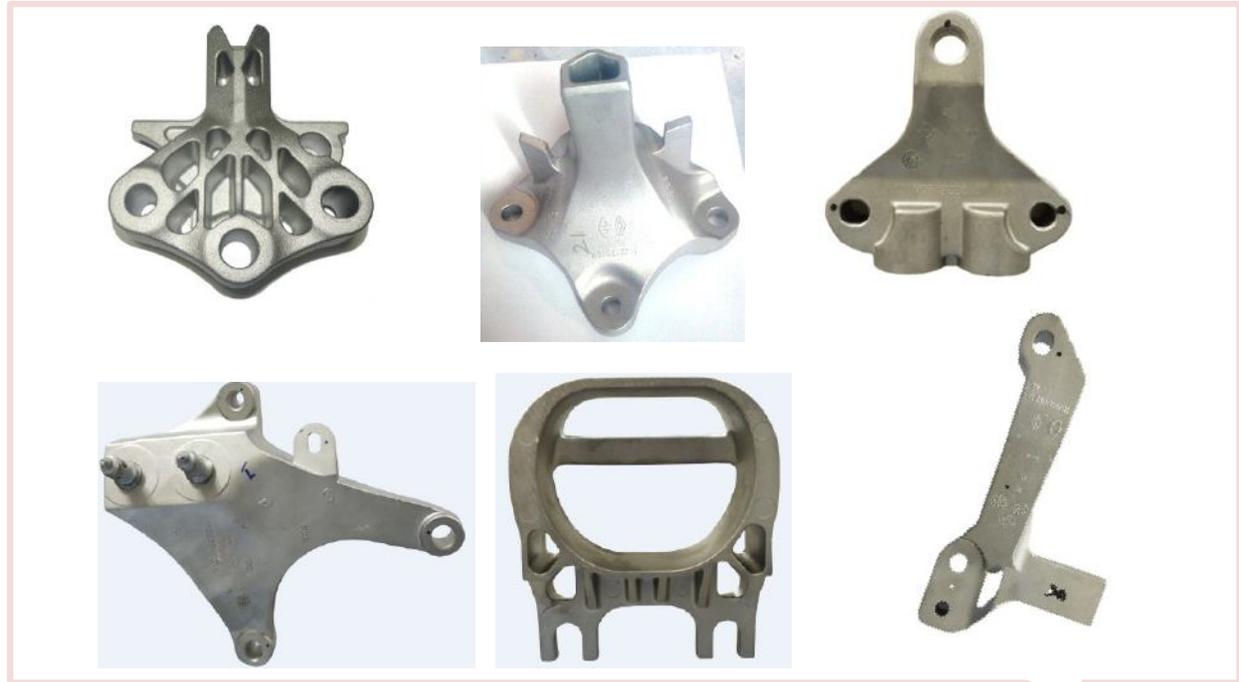
❑ Product List

EXCEL DIE CASTINGS

Customer: SUJAN

Application: ANTI-VIBRATION SYSTEM (ENGINE MOUNT ASSY)

End user: Renault, Nissan & PSA



□ Product List

EXCEL DIE CASTINGS

Customer: RAMBAL LIMITED

Application: BRAKE ASSEMBLY



Part Name: Pedal Brake



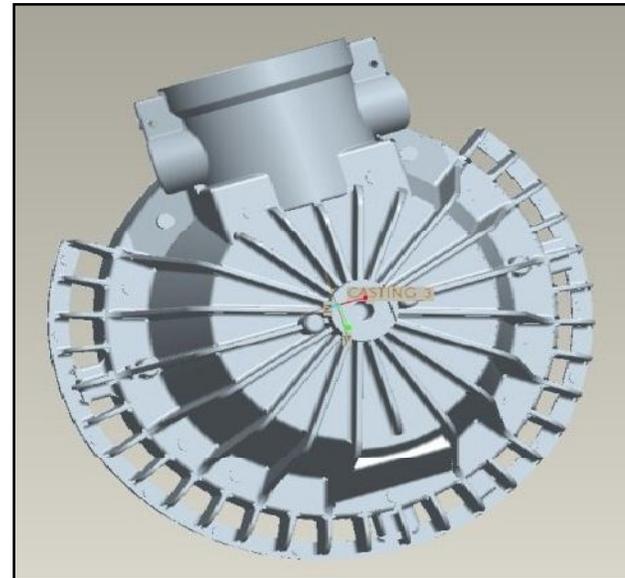
Part Name: Pedal Housing

☐ Product List

Customer: Baliga Lightning
Application: Luminaires lights

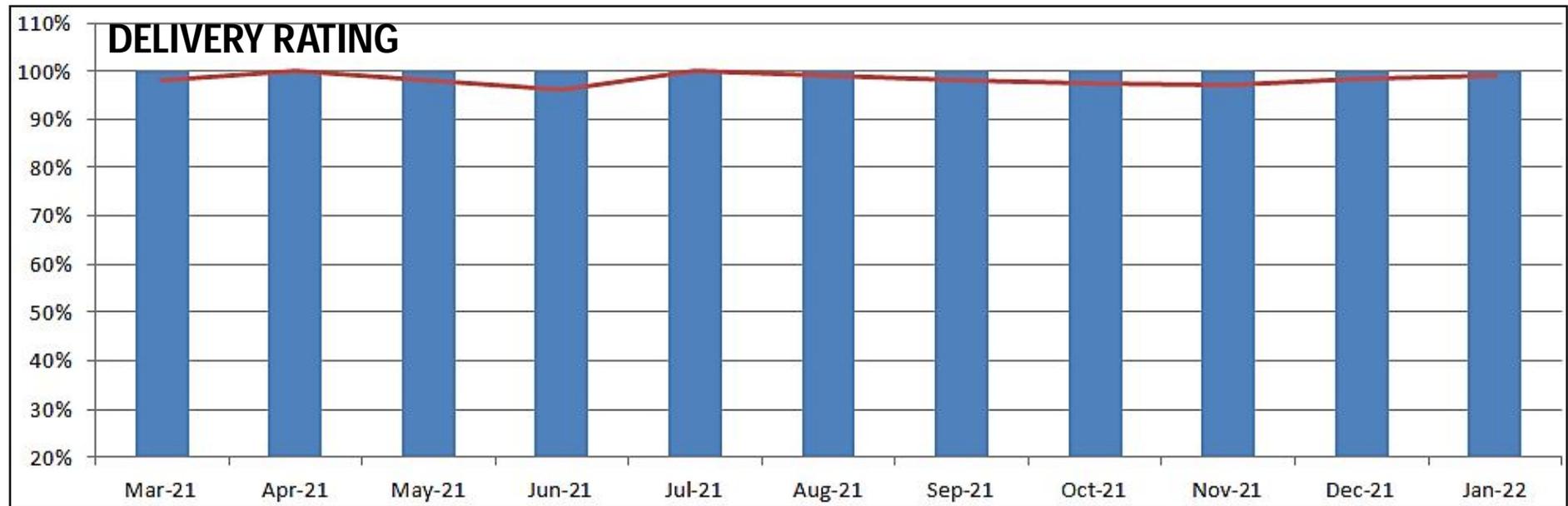
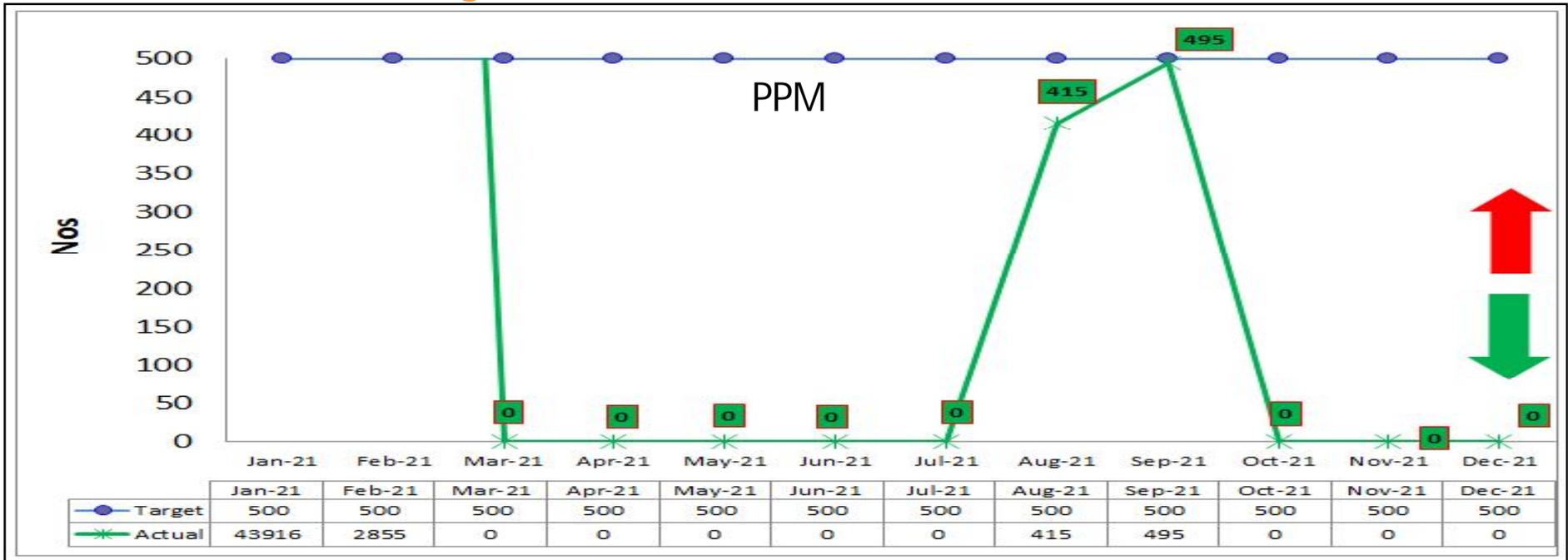


EXCEL DIE CASTINGS



Customer Ratings:-

EXCEL DIE CASTINGS



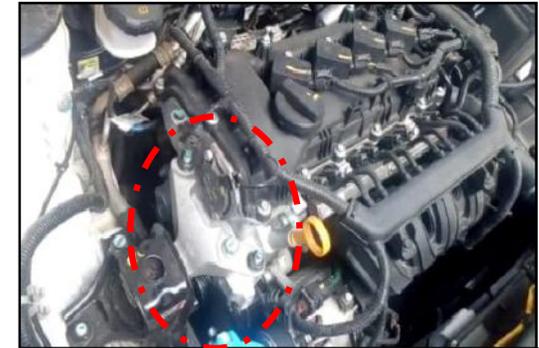
A person in a dark suit and tie is shown from the chest down, holding a glowing blue sphere. The sphere is composed of a network of interconnected nodes and lines, resembling a data network or a globe. The text "BEST PRACTICE" is overlaid in the center of the sphere in a bold, white, sans-serif font. The background is dark with various digital and network-related visual elements, including glowing lines, a grid, and a faint image of a person in a dynamic pose on the left side.

**BEST
PRACTICE**

Best Practice

EXCEL DIE CASTINGS

Tensile Test (Load Test) on the High stress zone area in the Engine Mount Support Bracket. Our Strength is to achieve Tensile Strength on the Load bearing Parts like Supt Brkt, Gear Box Brkt & Transmission side Brkt etc..



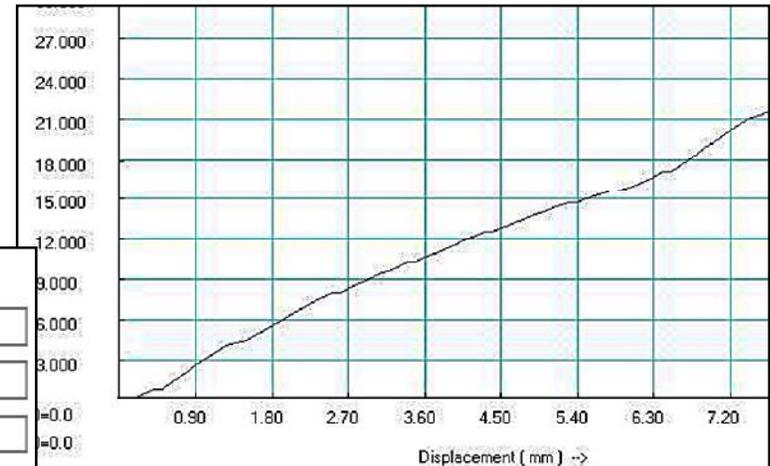
LOAD (X방향)	OFFSET	횟수
15696N (1600kgf)	50mm	1회

Customer Requirement: Mini 17.65KN

Achieved 22.30KN

Results of tension test	
Max. Load kN	22.300
Disp. at Max. Load mm	7.90
Max. Displacement mm	8.80
Ult Stress kN/mm ²	0.026
Elongation %	0.00

Load Graph:-



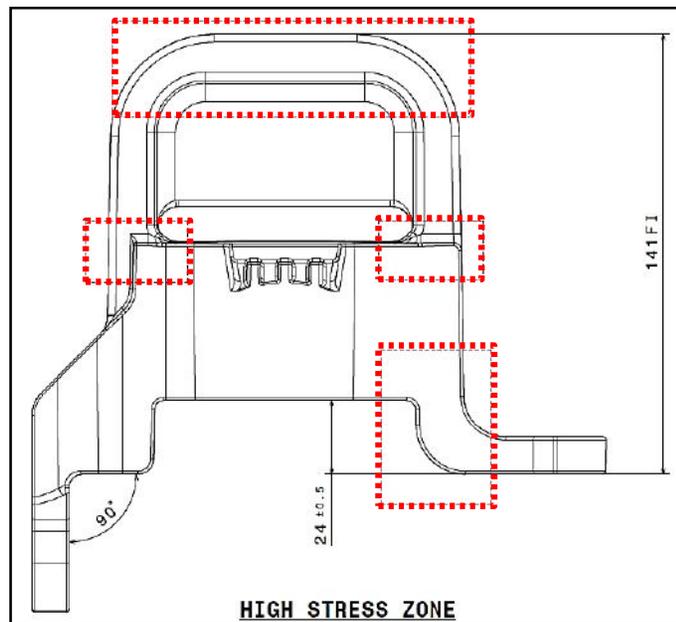
□ Best Practice

EXCEL DIE CASTINGS

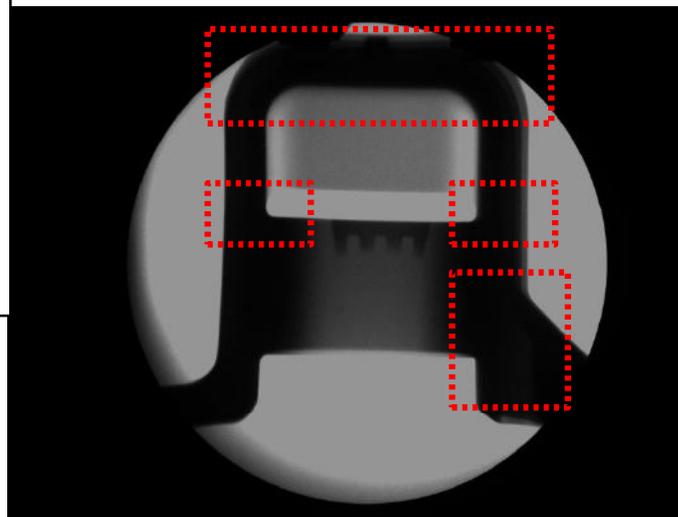
☞ **Radiography Inspection**, done in the High stress Zone area in the Product.

Our Strength is to achieve **Porosity Level 1 & NSD** at the High stress Zone area.

As Per ASTM E505, porosity acceptance Criteria
@ High Zone – Level2
@ other locations – Level3



Result: LEVEL NSD

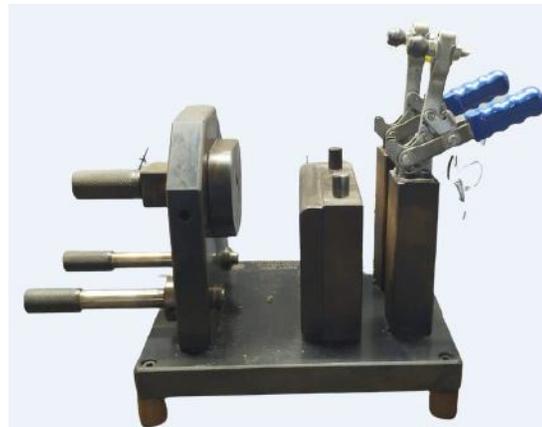


□ Best Practice

EXCEL DIE CASTINGS



Ensuring the Position as per the drawing before the dispatch by Position Gauge.

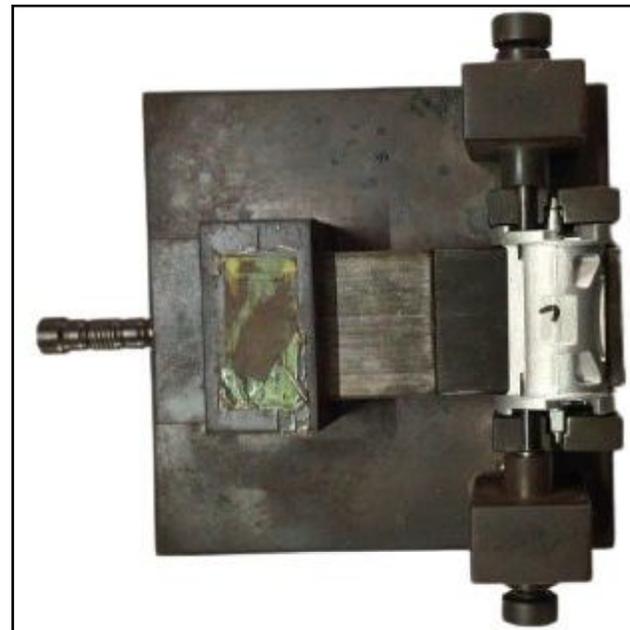
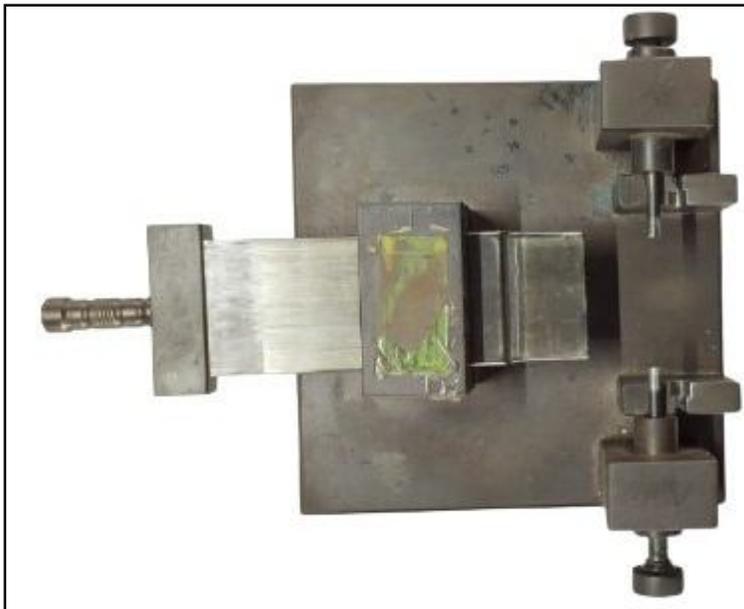
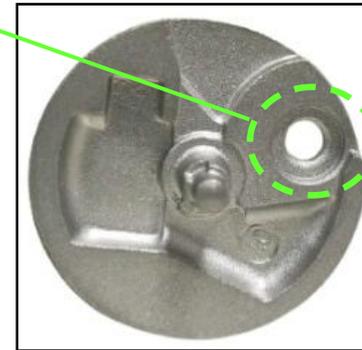
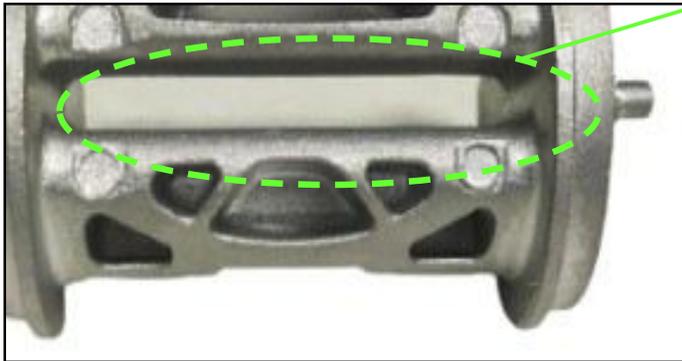


□ Best Practice



Multipurpose Gauge to reduce the inspection time & mANPOWER.

**Ensuring the Slot hole & Pin Hole
in Single Gauge**



□ Best Practice

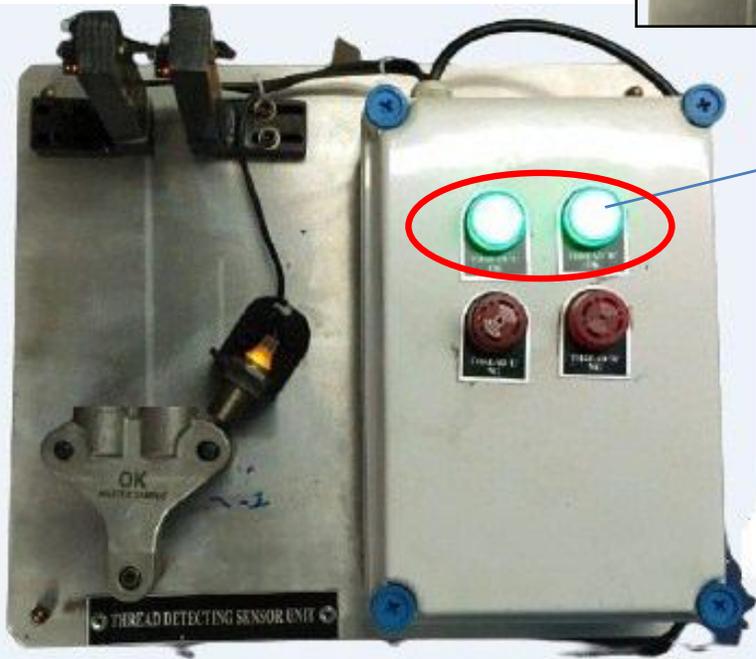
EXCEL DIE CASTINGS



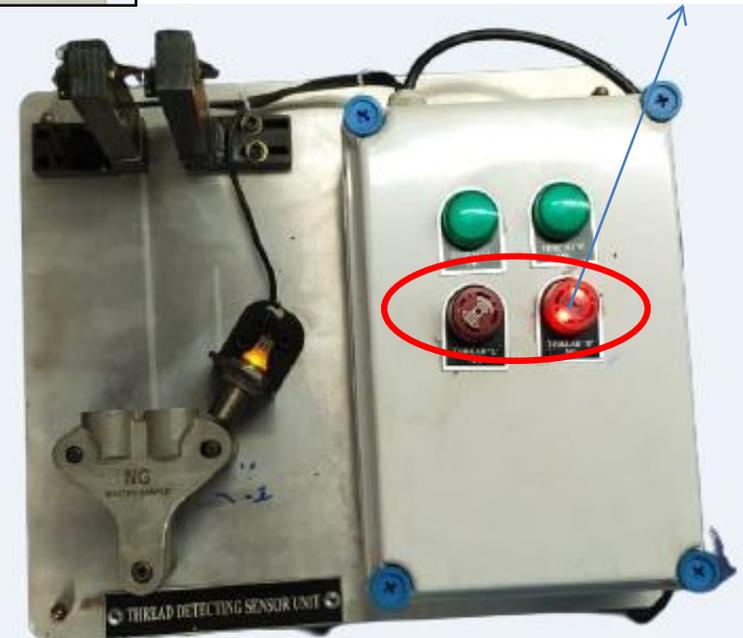
100% Ensuring the Thread before the dispatch by Thread Sensor



NOTOK Part



OK Part



THREAD DETECTING SENSOR UNIT

THREAD DETECTING SENSOR UNIT

□ Best Practice

EXCEL DIE CASTINGS



Product Sample Retention



Weekly Training:-

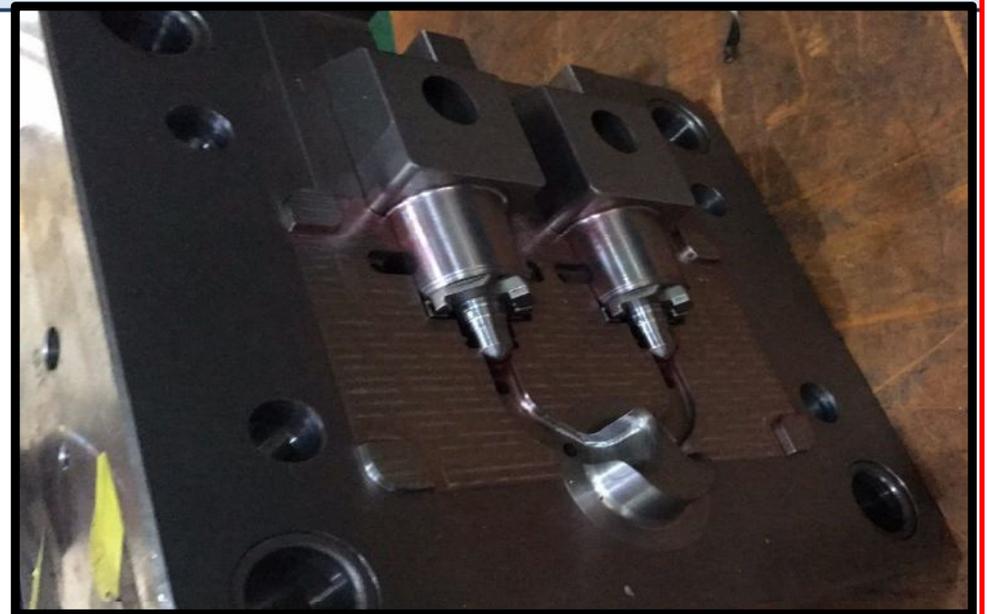
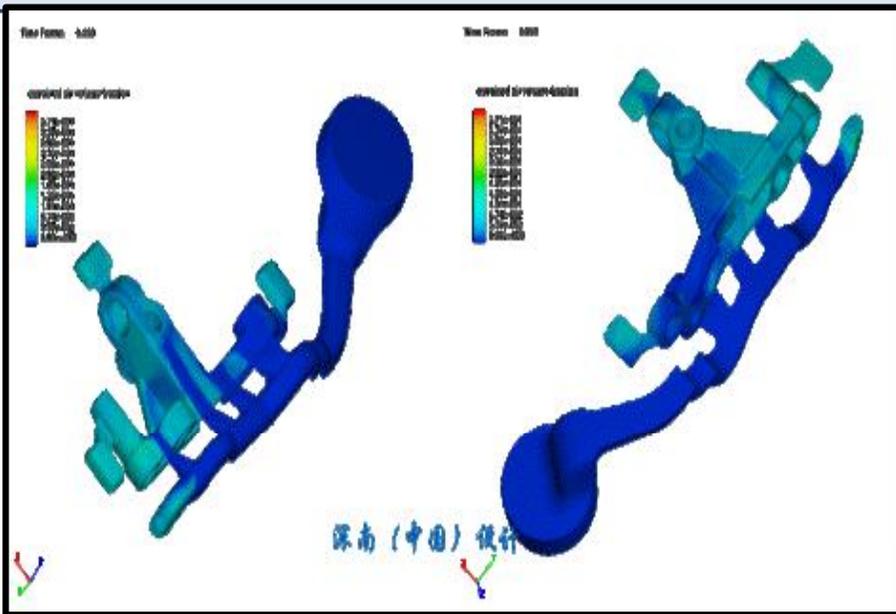
EXCEL DIE CASTINGS



EXCEL DIE CASTINGS

EDC Services

- Mould flow simulation & CAE Report
- Short Lead time for mould making 3 – 4 Weeks.
- Competitive pricing -High quality mould – Delivery on time.



MOULD DEVELOPMENT ACHIEVEMENT

Mould Development Achievements

- **Customer** : Woosu Automotive India Pvt Ltd
- **Part Name** : RVS Shift Lever
- **Application** : Gear Box Assembly - Hyundai
- **Order Confirmation** : 14-09-2017
- **Lead time of Manufacturing & Sample Submission** : 18-10-2017 (34 Days)



Machining & Testing of sample during tool making



- **Customer** : JOYSON SAFETY SYSTEM
- **Part Name** : Hybrid Armature Proto Tool
- **Application** : Volvo
- **Order Confirmation** : 11-11-2017
- **Lead time of Manufacturing & Sample Submission** : 06-12-2017 (27 Days)

Mould Development Achievements

- Customer : Yamaha Motors Electronics India Pvt Ltd
- Part Name : Bracket Front & Rear
- Application : 350cc Self start Motor ASSY
- Order Confirmation : 19-11-2017
- Lead time of Manufacturing & Sample Submission : 14-12-2017 (25 Days)



Machining & Testing of sample during tool making



- Customer : Sujan Cooperstandard AVS Pvt Ltd
- Part Name : Engine Mount BRKT LS & HS & Gera Box
- Application : Engine ASSY – Renault & Nissan
- Order Confirmation : 11-11-2017
- Lead time of Manufacturing & Sample Submission : 09-12-2017 (29 Days)

VA
VALUE ANALYSIS

VE
VALUE ENGINEERING



VAVE

- Customer : JOYSON SAFETY SYSTEM – Seat Belt ASSY
- We achieved of 50 micron tolerance at as cast Level.(Without Machining)

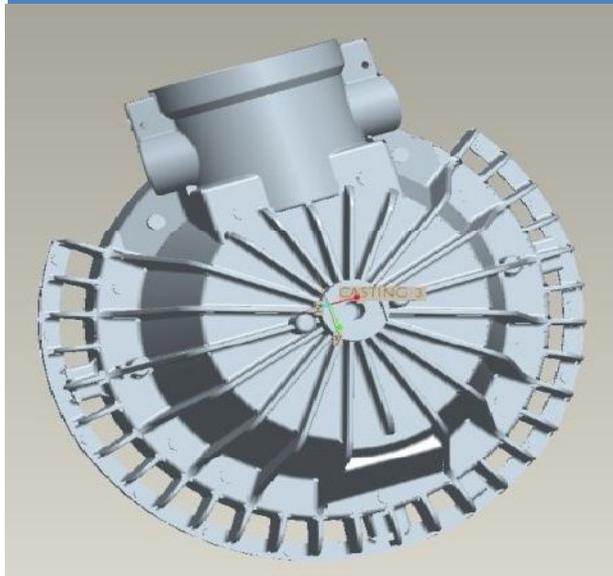
C7 Shaft	C9 Spool	CG Spool
Total Layout Dimension - 304	Total Layout Dimension – 298	Total Layout Dimension – 250
50 Micron Tolerance - 24	50 Micron Tolerance - 20	50 Micron Tolerance - 11
100 Micron Tolerance - 34	100 Micron Tolerance - 15	100 Micron Tolerance - 19



VAVE

- **Customer** : Baliga Lightning Equipment's – LED ASSY
- **Part Weight** : 1700 Gms
- **Shot Weight** : 2300 Gms
- **Cost Reduction given to customer by producing the parts with 350-ton instead of 550 ton.**

FLPW 1245 Body Casting



EDC

Future Expansion

650 TON Toyo M/C – Planning in Nov – 2022

350 TON Toyo M/C – Planning in Nov – 2022

VMC Brother M/C – Planning in Jan – 2023

CNC J400 M/C – Planning in Jan - 2023



Looking forward for a wonderful
business relationship with you...



Thank You