

MDC

Capability Overview



Manufacturing Your Ideas

VISION

To become a preferred source for engineered components.

MISSION

To provide quality products on time and delighting our customers

OUR VALUES

A - Can do Attitude

L - Loyalty

T - Team Work

O - Output



CONTENTS OF PRESENTATION

01

Supplier Introduction,
Customer/ Product Details
& Certifications

02

Organization Structure

03

Infrastructure & Process Flow

HISTORY AND OVERVIEW

1984–Mahavir
Starts Operations

1991–
Reincorporated as
Pvt. Ltd.

2004–New Plant
for Exports with
Machining &
Painting Setup

2009–ISO/TS
16949

2014–15–2nd &
3rd Plant
& Technical
Partnership with
Hongxiang Mould
Manufacturing co

2017–4th
Plant +
Corporate
Office

2018–Trading
Division
Launched &
IATF
Certification

2023–5th
Plant Land
planned.



OVERVIEW

4 Manufacturing Locations

~327 Cr Turnover (40.87 Mill US\$)

950 Employee

2 Wheeler Business – 65%

4 Wheeler & Other Businesses – 25%

Export Business - 10%

PROMOTERS



Shri Shanti Lal Jain - Chairman

A First generation entrepreneur, Mr. Jain is an Electrical Engineer and built the foundation on which the group stands today. With strong business principles and dynamic working style, he has guided the group to the peak it stands today. He has a keen eye for talent and technology which has helped the company become a nationally known aluminum die casting manufacturing company.



Mr. Manekk Jain - Managing Director

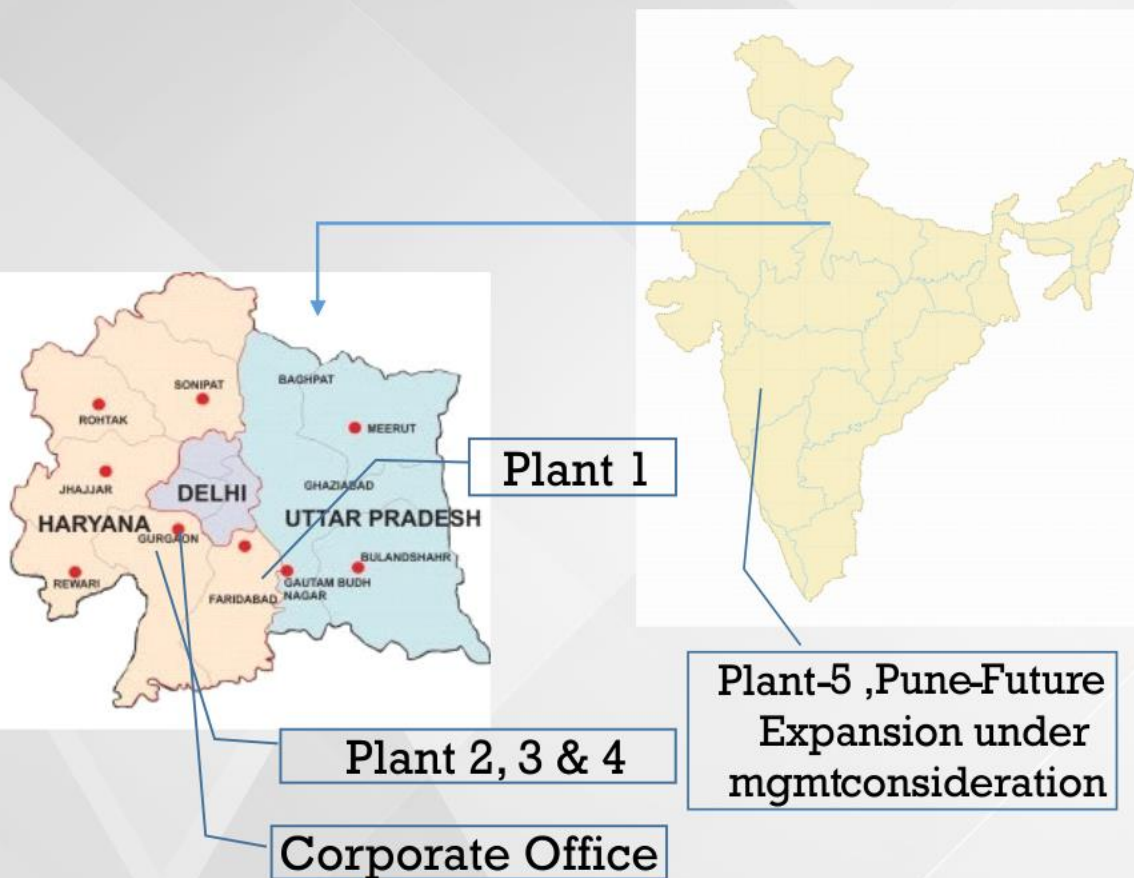
Manekk is a Mechanical Engineer and MBA who took over the legacy and worked to strengthen the existing business with improved business systems and successfully built 3 new state of the art manufacturing facilities and diversified the business into Trading and distribution. He is a strong proponent for teamwork and decentralized working which has allowed the business to grow from regional to now national



Mr. Karan Gupta - Jt Managing Director

Karan Gupta is an entrepreneur focused on leading the aluminum die casting industry. With over 18 years of successful and diversified experience in American business, he is dedicated to innovation, quality, and integrity. Karan aims to deliver exceptional products and maintain professionalism in all departments. His mission is to set new standards in aluminum die casting through continuous improvement and ethical practices.

MANUFACTURING LOCATIONS



PLANT - 1 Faridabad (since 1984)
(HPDC, Mc Shop, Paint Shop)



PLANT - 2, Manesar (since 2014)
(Paint ,M/C Shop & Assembly)



PLANT 3-,Manesar (since 2015)
(HPDC & Machine Shop)



PLANT-4 ,Manesar (since 2017)
(For Expansion)

PRODUCTS

2 Wheeler Components

Cylinder Block



Motorcycle
Crankcase



Scooter
Crankcase
Cover



Rear Grip



2 Wheeler Components

Brake Panel



Rider Pillion



Step Plate



Brake Hub
(Front & Rear)



PRODUCTS

4 Wheeler Components

Armature 1



Armature D Shape



Timing Cover



Timing Gear Case



4 Wheeler Components

Restrictor Bracket



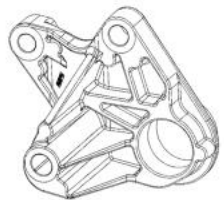
Mounting Bracket



Compressor Bracket



Mount



4 Wheeler Components

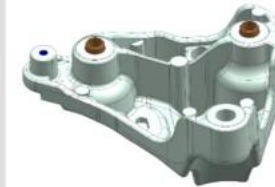
Mounting Bracket



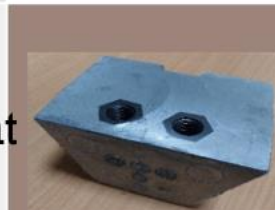
Mounting Bracket



Mounting Bracket



Engine Mount



EV & Non Auto

Battery Housing



Battery Housing



Heat Sink



EV Structural



OUR VALUED CUSTOMERS

DIRECT SUPPLY–As Tier 1



INDIRECT SUPPLY (Through Tier I)



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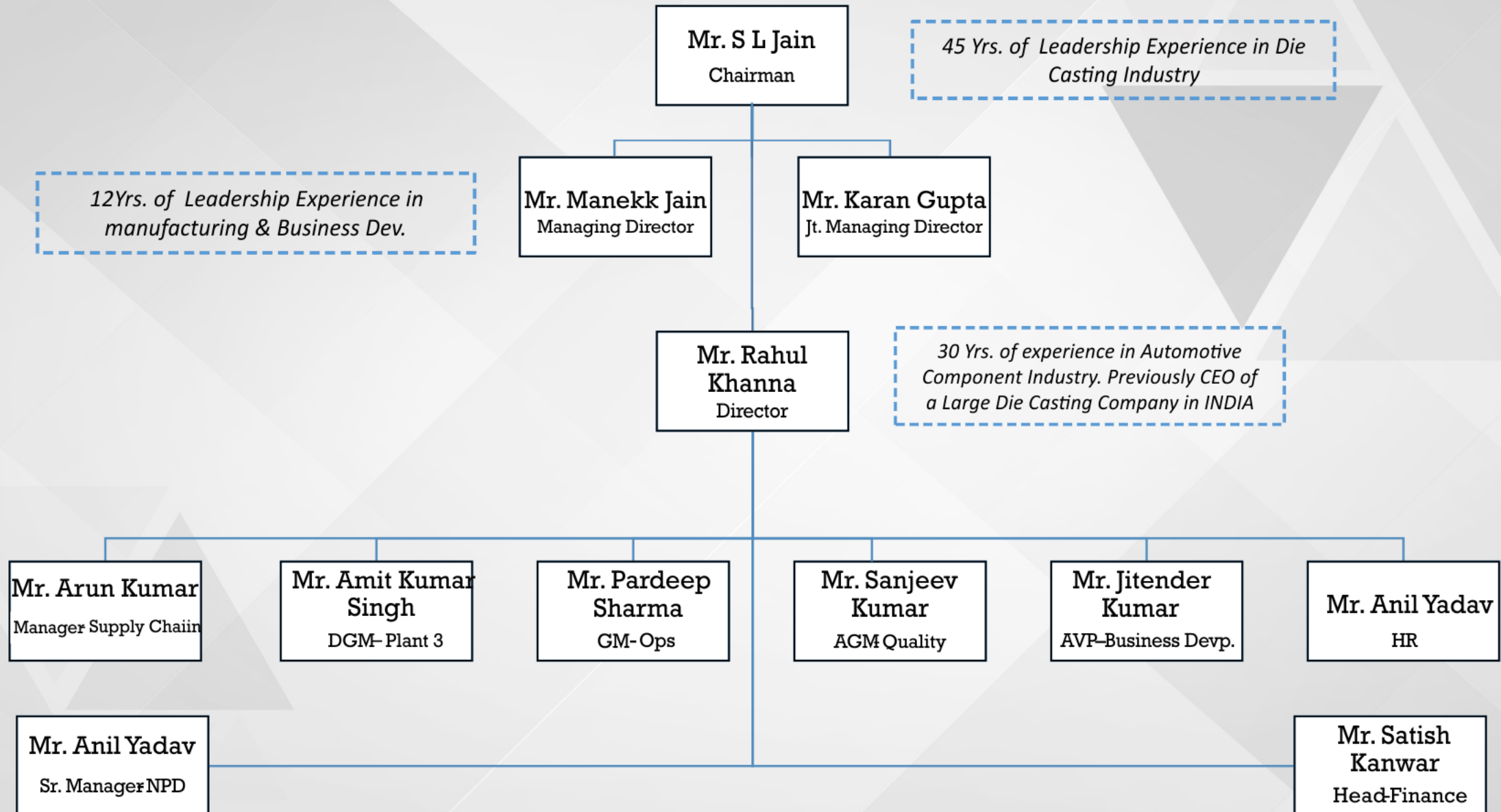
Organization Structure

03

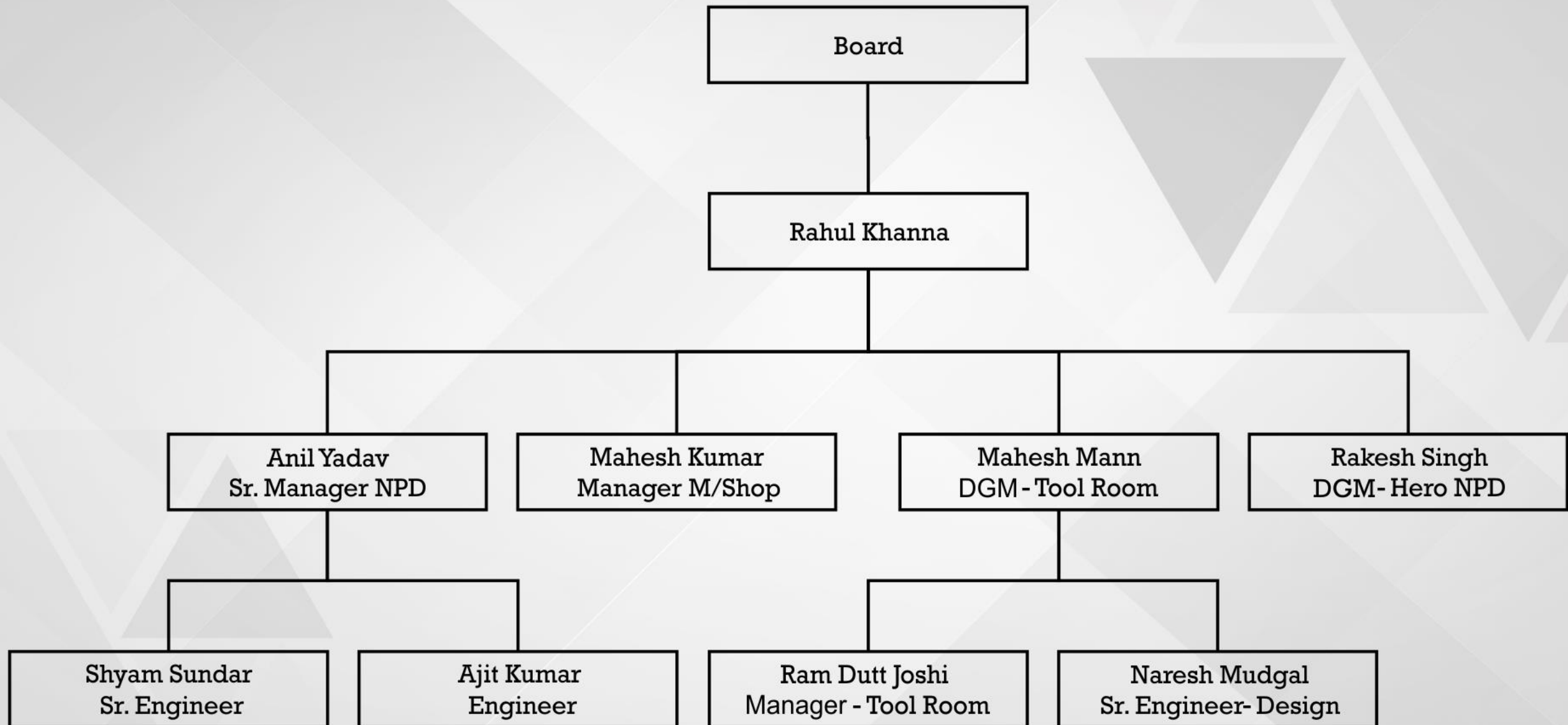
Infrastructure & Process Flow



CORPORATE ORGANIZATION STRUCTURE



PRODUCT DEVELOPMENT STRUCTURE



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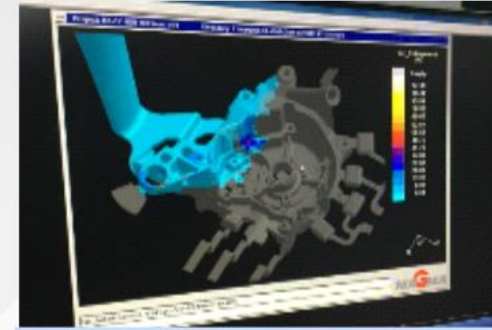
DESIGN CENTER AND TOOL ROOM

Design & Tool Room Capability

- Total Strength- 50 People
- Mr. Rakesh 24 Yrs. Experience
- Mr. NareshMudgil 23 Yrs. Experience
- Centralized Tool Room
- Tool Making Capacity 120 Tools/Year.
- Design Stations
 - Unigraphics -NX-10-CAD- 02 Seats
 - Ideas NX - 6.3-01 Seat
 - Auto CAD -01 Seat
 - CATIA Version 2024
- Simulations By JAS, MAGMA
- CNC Mc's (Deckel Maho-German Make)
- EDMs(Bed Size-1000x750x750)
 - Can Manufacture tool up to 900Ton
- Wire Cut Mc's(Makino Japan Make)
- Technical Partnership with Hongxiang China.



In House Design



Simulation



EDM



2D Drawing Station



Dackel Maho Machining Centre



Conventional Machine

Total Capacity	Current Orders
10 Tools per month	7~8 Tools per month

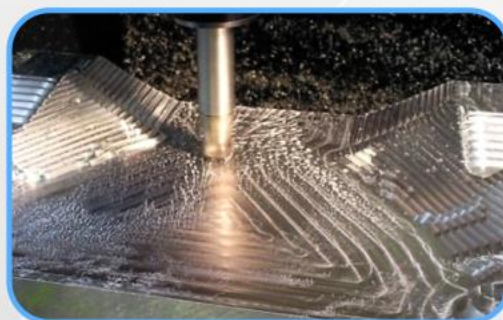
LAB AND TESTING EQUIPMENTS

- X Ray
- VMM
- CMM (1 nos. Carl Zeiss & 2 COORD)
- UTM
- Spectrometer
- Hardness Tester
- Hook Test
- Bend Test
- Contour Zeiss



MACHINERY AND EQUIPMENT

Plant	Die Casting	Machining Centre	Painting	Casting Range
Plant 1	23 (LK, YUZUMI, ZITAI, UBE) (250T-900T)	51 (Brother, Deckel Maho, AMS, Makino)	2	250 T- 3 nos.
Plant 2	0	0	1 (Rdevis)	400 T- 15 nos.
Plant 3	13 (LK, YUZUMI) (400T-900T)	8 (AMS, TONGTAI, HASS)	0	650 T- 12 nos.
Plant 4	0	12 (Brother , AMS, BFW)	0	900 T- 6 nos.
TOTAL	36	71	3	TOTAL-36



PROCESSES

Raw Material

Die Casting

Trimming

Machining

Buffing

Vibro / Shot
Blasting

Cleaning

Painting

Final
Inspection

Raw Material in Molten Form



- Every Ladle Check For Composition & Temperature
- Material Received Just In Time (JIT)
- Material Received After Degassing And Filtering
- Special Crucible to Maintain temperature-(t₀/Degree Centigrade)

100% molten material used in production



100% Molten metal used
in production
< Optimum RM Control,
Reduced Rejection >



Chemical composition
checked for each molten
< 100% composition Control >



Temperature checked for
each molten
< Range 720~750 Degree
Centigrade >



100% Runner & Riser sent
for remelting
< Better Ratio Control >

PROCESSES

Raw Material

Die Casting

Trimming

Machining

Buffing

Vibro / Shot
Blasting

Cleaning

Painting

Final
Inspection


1
Fully Automatic Close
Loop Machine
< No Human interface >



2
Conveyor with Air
Cooling
< Right Temperature part
for Trimming >



3
Online Process Parameter
Record & Control
< M/c alarm if out of range >



4
Poka Yoke for holding
Furnace Temp.
< 680~720 Degree >

Total 36 Die
Casting M/c
(250 Ton ~ 900
Ton) with
Automation &
Poke Yoke Control
System

PROCESSES

Raw Material

Die Casting

Trimming

Machining

Buffing

Vibro / Shot
Blasting

Cleaning

Painting

Final
Inspection

1
Fettling By Trimming
<Gate & Parting Line
Removal in Single
Stroke>



2
Segmented trimming
tool used
<Localized
Correction Saves
Time >

Online Shot
Trimming with
segmented tool

PROCESSES

Raw Material

Die Casting

Trimming

Machining

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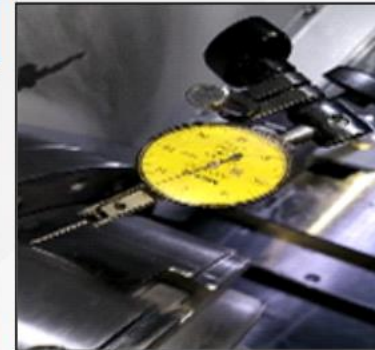
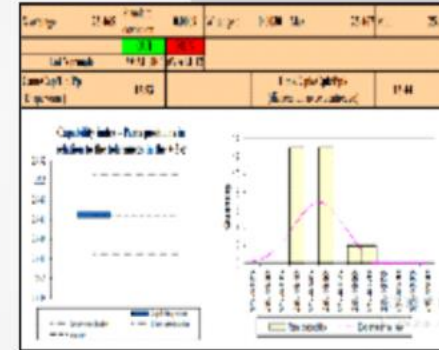
Machine Shop



Turn Mill Centers



HMC- DMG


Spindle Run -Out
<Checking Frequency Once
in week>

Process Capability On Line
< Cpk > 1.67 >


Honing



4-Axis VMC-Brother Japan


Gauging
< 100 % Check Up>

PART NAME	S.No.	DIM	DIM CTQ	FREQUENCY
HUB COMP FR. KZNA	1	DRUM DIA.	Ø 130±0.3	180
	2	RUN OUT PAD FACE	0.05	180
	3	DIA.	Ø 32-0.025 / - 0.05	180
	4	PCD	172±0.1	180

Control Parameters
<Cpk Monitoring Frequency
6 Month >

With Automation
& Poke Yoke
Control System

PROCESSES

Raw Material

Die Casting

Trimming

Machining

Buffing

Painting

Final
Inspection

Paint Shop With SCADA Control



1



10 Step Spray Type PT
< Chromate free, low
chemical contamination
>

2



Additional Pressurized
Chamber
<Dust Prevention>

3



Automated Fire Control
<Automatic Co2 Discharge in
case of fire>

4



Separate Paint Kitchen
<Controlled Paint Mixing &
Quick Changeover of Color>

Conveyrised
Paint Shop With
2m/min. Speed

PROCESSES

Raw Material

Die Casting

Trimming

Machining

Buffing

Painting

Final
Inspection

Painting Sequences



Painting Sequence

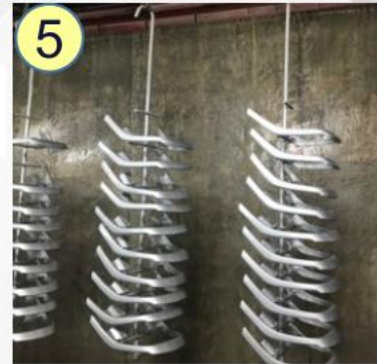
Step 1. Paint Spray
Left to Right
movement

Step 2. Paint Spray
Right to Left
movement

Step 3. Paint Spray
Top to Bottom
movement

Step 4. Paint Spray
Bottom to Top
movement

Step 5. Check
coverage of area of
the part



Water Fall Screen
<Water screen to prevent dust
& paint fumes in booths>



Electrostatic Guns
<Effective Paint Coverage>



Auto-Control Panel
<Conveyer Stop in Case Of
Burnet trip & Temp out spec
as required 148-150°C>



Humidity & Temp Control
<Temp spec: 25±3°C
Humidity: 55-75 % RH>

PROCESSES

Raw Material

Die Casting

Trimming

Machining

Buffing

Painting

Final
Inspection

IN-PUT

OUT-PUT



Dedicated Q GATE for
each station
< To ensure Zero defect
outflow to next station >



Online Inspection
<To ensure zero defect
outflow to next station



**Q-GATE AT ALL
STAGES**

PROCESSES

Raw Material

Die Casting

Trimming

Machining

Buffing

Painting

Final
Inspection

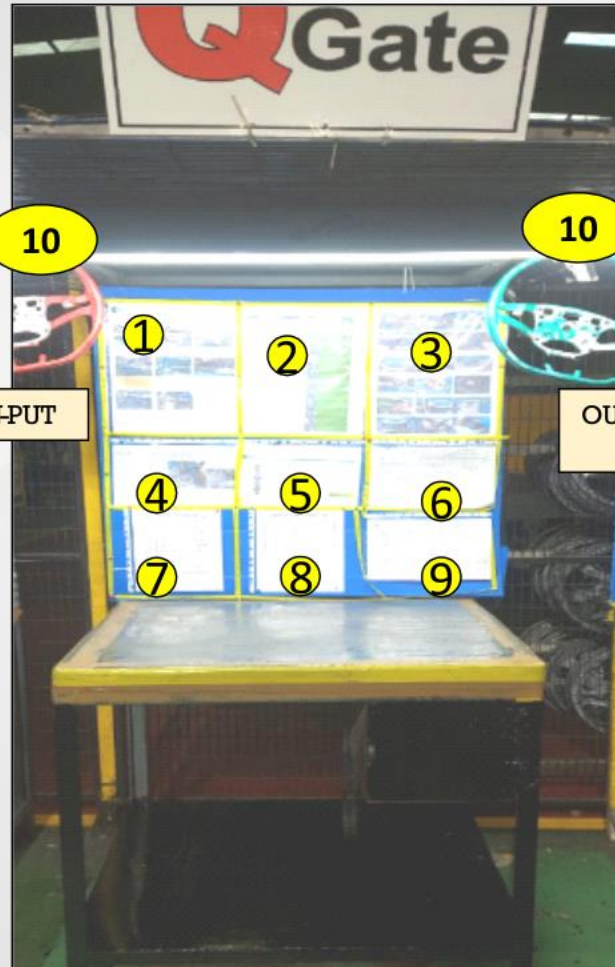
Visual WI (SOP)


Customer Complaint
Summary


Defect Matrix Sheet



Quality Alert



Daily Startup Check sheet



Lux Level Monitoring



Inspector Code List

S. NO.	INSPECTOR NAME	NI & HIRI	NI GRAP NO.
1	RAJESH	VISUAL	26
2	KALHANKAR	VISUAL	27
3	VIKRAM	VISUAL	28
4	MANGU	SCANNING	112
5	SANJAY	SCANNING	27
6	MANGU-2	GAUGING	
7	PROBHOOT	GAUGING	
8	TAHNEED	GAUGING	

Daily Inspection
Summary

Daily Inspection Summary



Limit Sample

**MDC Ensuring Quality
Parts Dispatch To
Customer**

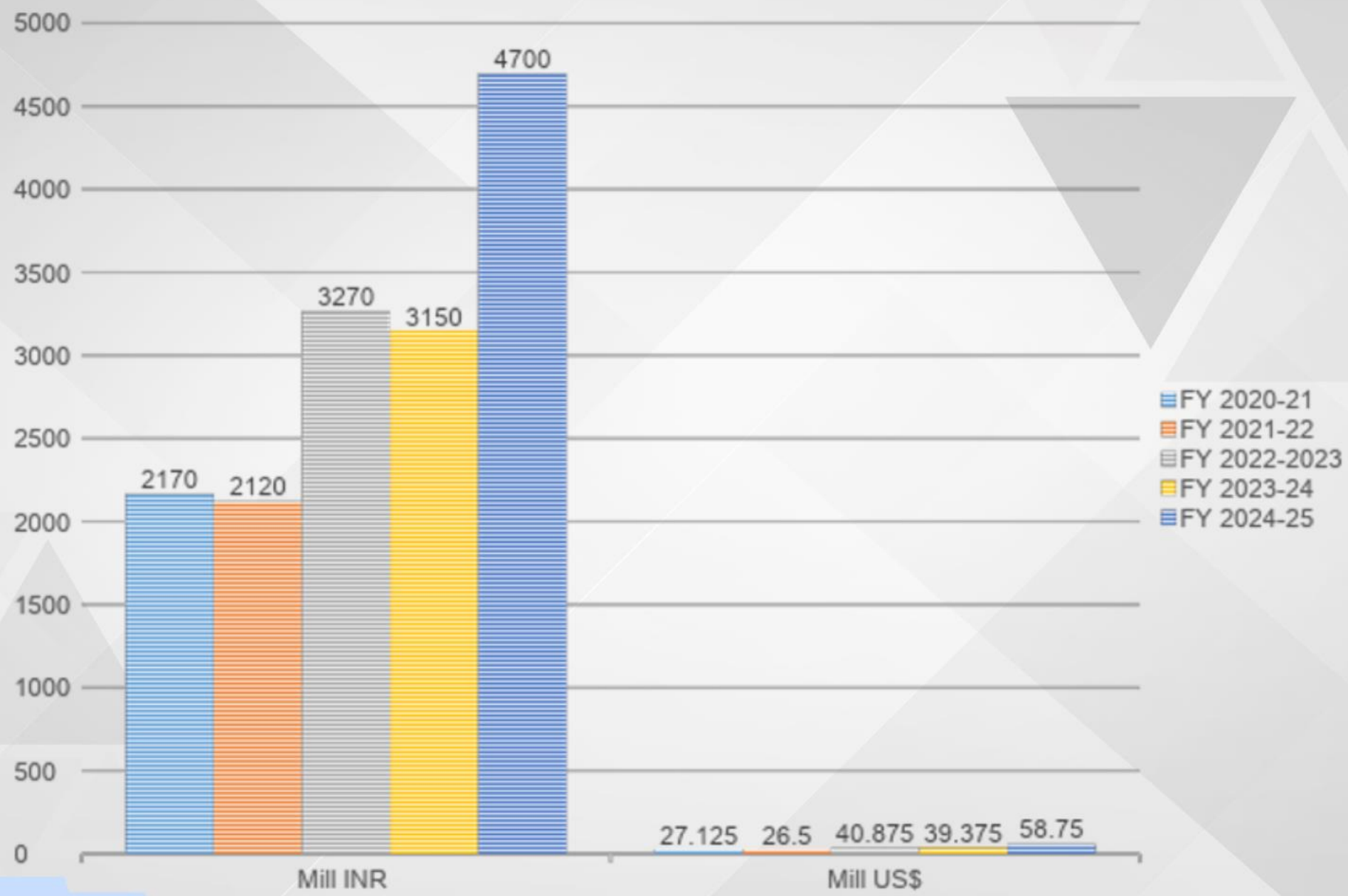
Fixed Inspector (As Per
Skill Chart)

TARGETED GROWTH AREAS

NVHPARTS	TRANSMISSION	ENGINE & BODY PARTS	ENDSHIELD	ENGINEERING
ENGINE MOUNT	GEAR SHIFTER PART	ENGINE ASSY PARTS	EV MOTORS	OFF HIGHWAY
BODY MOUNT	SHIFTER CASE	FILTER HOUSINGS	HOME APPLIANCES	AGRICULTURE
CHASSIS MOUNT	SELECT HOUSING	RAIL PARTS	ENERGY MOTORS	AUTOMOTIVE
HYDRO MOUNT	SHFIT & FORK PART	MECHTRONICS PARTS	HEAT SINKS	

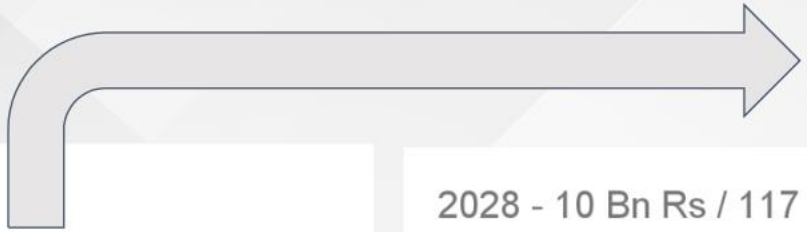


LAST 5 YEARS COMPANY SALES DATA



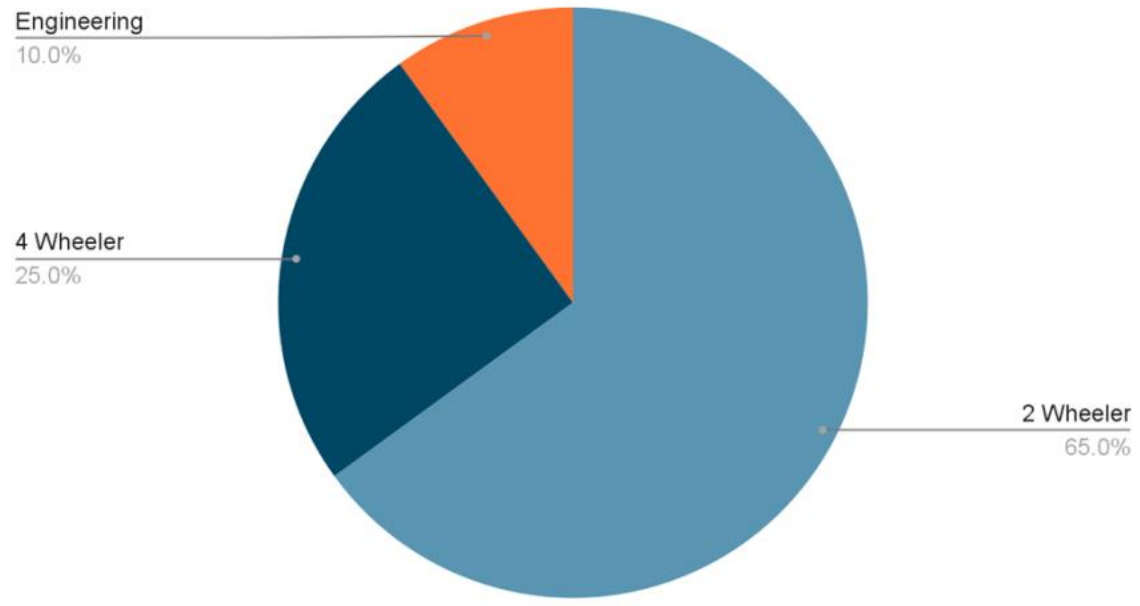
BUSINESS PIE

2023

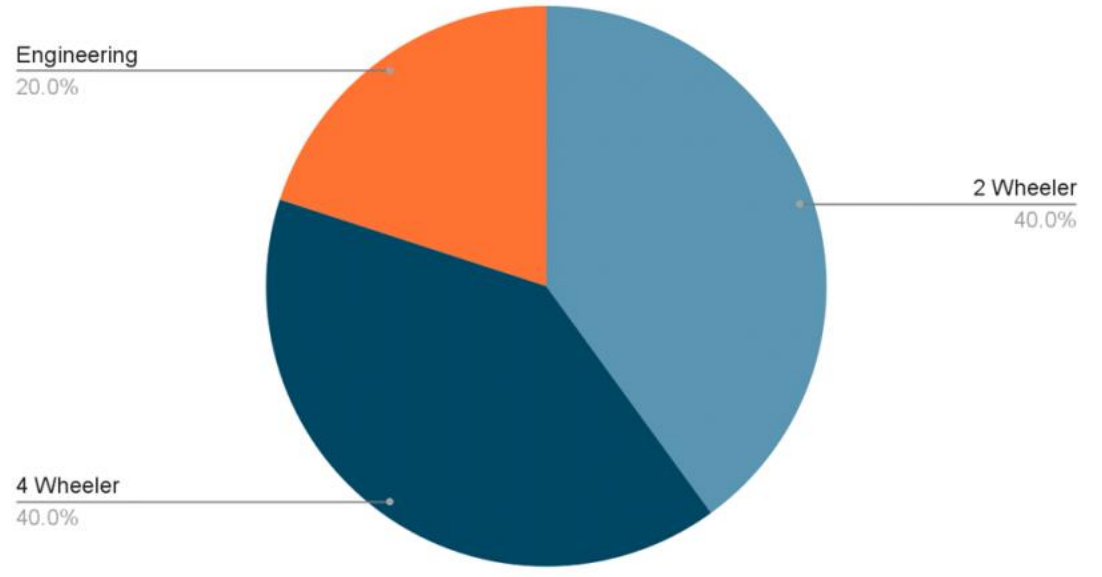


2028

2023 - 3 Bn Rs / 40 Mn \$



2028 - 10 Bn Rs / 117 Mn \$



CERTIFICATES



CERTIFICATE

Management system as per

IATF 16949:2016

(1st edition, 2016-10-01)

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

Mahavir Die Casters Pvt. Limited
Plot No. 153 & 165, Sector - 24,
Faridabad, Haryana - 121 005,
India

Scope

Manufacture of Aluminium Die Casting, Machining, Painting & Assembly Components

without product design responsibility (according to section 8.3)

IATF Registration No. 0440697
Certificate Registration No. 44 111 181828

Issue date: 2022-01-08
Expiry date: 2025-01-07

V. S. an dlt
Certification body
at TÜV NORD CERT GmbH

Essen, 2022-01-08

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

TÜV NORD CERT GmbH

Langemarckstraße 20

45141 Essen

www.tuev-nord-cert.de



02-IAO-QMC-01021

page 1/1

A13F201e rev. 01/03.19



American Systems Registrar, LLC, Certificate Number: IAOB-1021

MAHAVIR DIE CASTERS PVT LTD

PLOT No. 162, SECTOR- 3, IMT MANESAR
GURGAON, 122050, HARYANA, INDIA

USI NUMBER: CGEAXW

with a scope of:

**MANUFACTURING OF ALUMINIUM DIE CASTING, MACHINING,
PAINTING AND ASSEMBLY COMPONENTS**

American Systems Registrar issues this certificate and applicable appendices to Mahavir Die Casters Pvt Ltd after assessing their quality system and finding it in compliance with the first edition of:

IATF 16949:2016

IATF Certificate Number:

0466735

ASR Certificate Number:

9262

Exclusions:

8.3 Product Design

Date of Certification:

January 12, 2023

Date of Certification Expiration:

January 11, 2026

Revision:

Richard K. Kien
President

Page 1 of 2

CERTIFICATE OF REGISTRATION



American Systems Registrar, LLC, Certificate Number: IAOB-1021

Mahavir Die Casters Pvt Ltd
Appendix to the Certificate: ASR 9262
IATF Certificate Number: 0466735

Extended Manufacturing Sites:
Mahavir Die Casters Pvt Ltd
Plot No. 114, Sec-8, IMT Manesar
122050, Gurgaon, Haryana, India
USI Number: PGEF4Z

Remote Support Locations:
Mahavir Die Casters Pvt Ltd
Plot No. 153 & 165, Sector-24
Faridabad-121005, Haryana, India
USI Number: Not Issued

Functions: Engineering, Policy Making, Process Design, Production Equipment Development,
Purchasing, Strategic Planning, Supplier Management

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CERTIFICATE OF REGISTRATION



**QUALITY – QUANTITY,
ON TIME,
..EVERY TIME**



**गुणवत्ता – गिन्ती,
समय पर,
..हर बार**