



Metamorphosis Engitech India Pvt. Ltd.

PRECISION TUBES & BEYOND...



An IATF 16949:2016 & ISO 9001:2015 Certified Company

Off Road



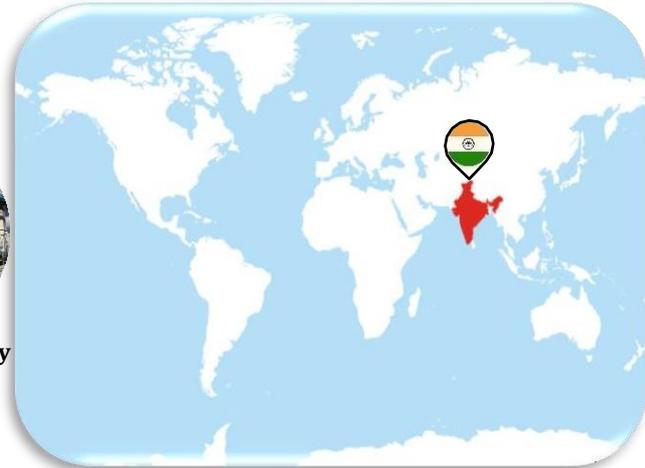
Automobile



Power & Energy



Agri & farming



Establishment

- Mar 2018-Metamorphosis Engitech India Pvt. Ltd.

Quality Certifications

- IATF 16949:2016 & ISO 9001:2015 Company

Products & Services

- Electric Resistance Welded (ERW) Tubes - **(Unit-1)**
- Cold drawn Electric Welded (CEW) / Drawn Over Mandrel (DOM) Tube - **(Unit-2)**
- Value Added tube components for Application in the Automobile & General Engineering Industry - **(Unit- 3)**

Facility Area

- Unit I - 21665 sq mtr (built up area -10829 sq mtr)
- Unit II – 52127 sq mtr (built up area – 18485 sq mtr)
- Unit III – 4000 Sq mtr (built up area – 3000sq mtr)

Installed Capacity

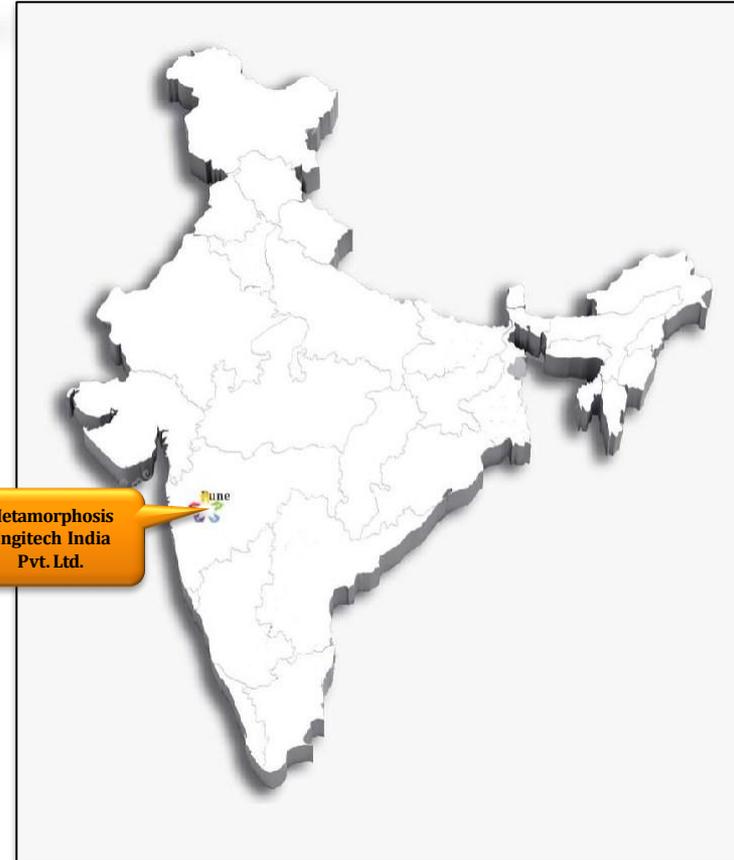
- ERW – 72000 TPA
- CEW – 48000 TPA

Employees

- 450+

Location

- 31 km from Pune Airport
- 193 kms from Mumbai Dockyard





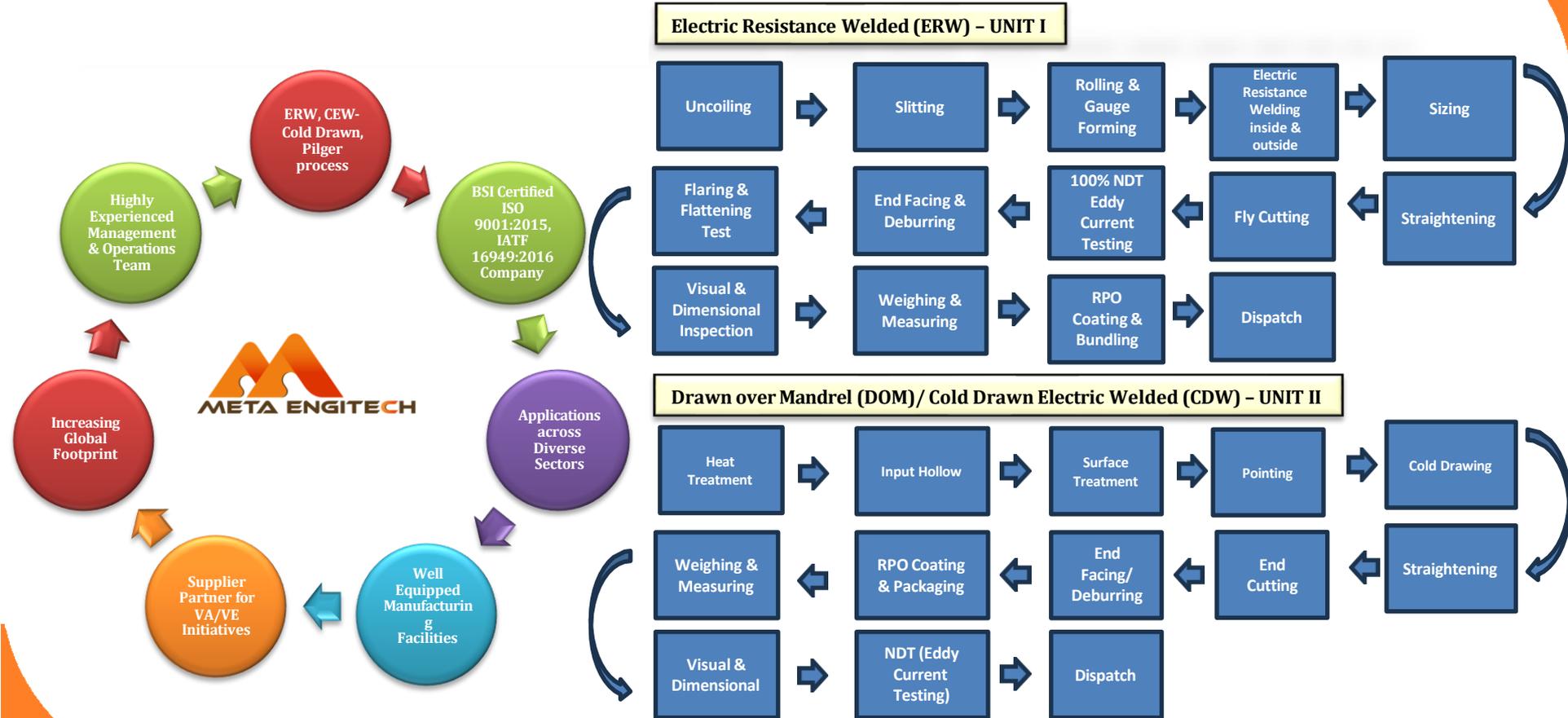
Mr. Girish Kulkarni (Director)

An alumnus of IIT BOMBAY and IIM AHMEDABAD, Mr. Kulkarni is the Founder and Managing Director of Suyash Advisors, advising US domiciled funds for approx. investment in US\$ 300 million of Indian publicly traded equities, private unlisted companies and real estate.



Mr. Hemant Agarwal (CEO & Whole-time Director)

A Postgraduate in Engineering and Management, Mr. Agarwal is business turn around specialist with rich experience of more than 30 years in significant sectors like Metal, Cement, Consumable Products, Oil and Gas etc.



Sectors Catered / Why us ?

Sectors Catered

Metamorphosis Engitech India Pvt. Ltd. an IATF 16949:2016 & ISO 9001:2015 offers to sectors as below:-

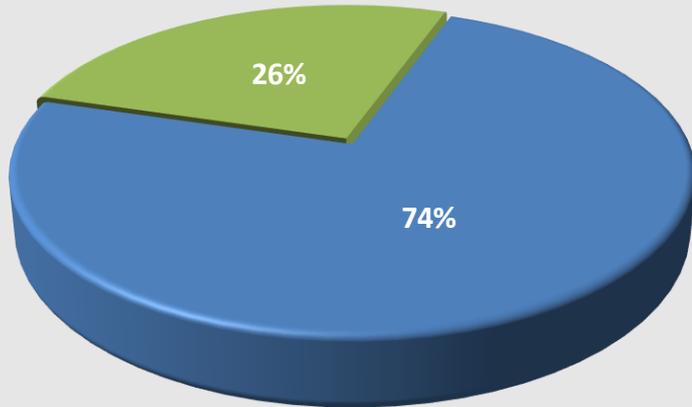


Why Us ?



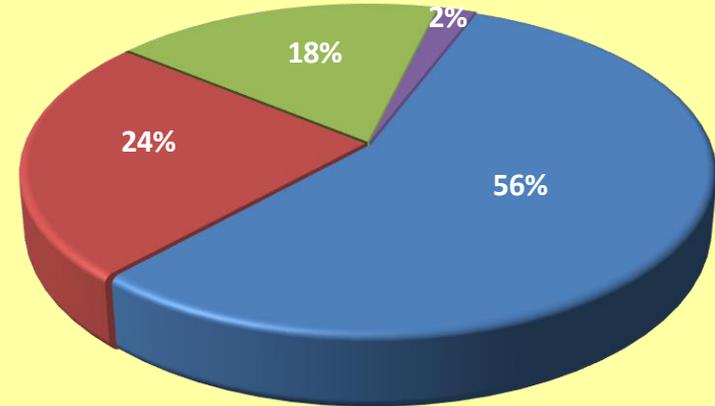
Region & Segment wise Sales % (FY 24-25)

Region wise Sales



■ Domestic ■ Export

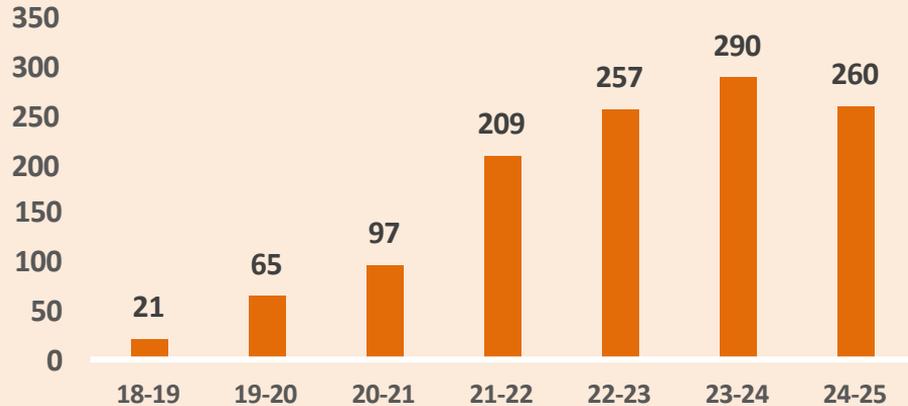
Segment wise Sales



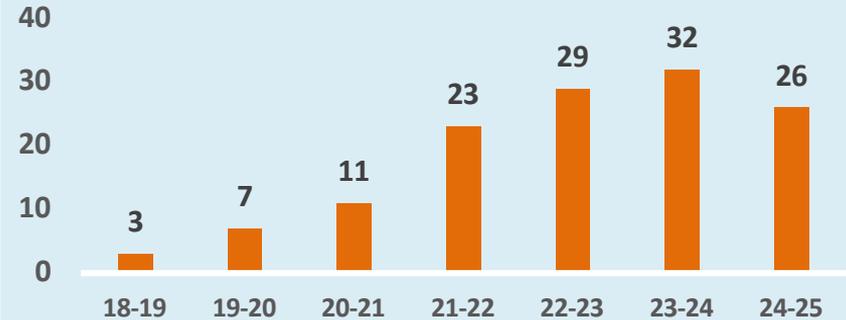
■ Automotive ■ Agri & Farming
■ General Engineering ■ Power & Energy

Sales Turn Over

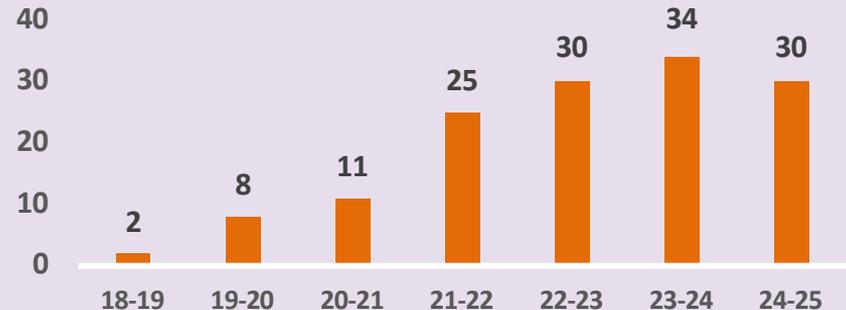
Sales Turn over in Crore INR



Sales Turn over in Euro Million



Sales Turn over in USD Million



Product Range & Capabilities

ERW Tubes



OD Range: 12.7mm-114.3mm
Thickness: 1.00mm - 8.5mm

CEW Tubes - Cold Drawn



OD Range: 8 mm - 140 mm
Thickness: 0.9 mm - 12.5mm

CEW Tubes - Pilger



OD Range: 12.7 mm - 120 mm
Thickness: 2 mm - 12.50 mm
Diameter to Thickness Ratio - 3
(Dia. 15/Thk.5)

Bimetallic/ Cladded tube



SS + MS



Cu +MS

VA /VE product as
customized requirement

- **Raw Material Grades:** SAE 1010, 1018, 1020, 1026, 1045, 1541, ST-52, HSLA500, FB590, DP980
- **Standard Specifications:** ASTM A-513, JIS 3445, EN 10305, IS 3074, BS6323
- **Mechanical Properties:**
 - Yield Strength: 170 MPa. to 900 MPa.
 - Tensile Strength: 330 MPa. to 1000 MPa.
 - Elongation: 10% to 35%

Applications of ERW & CEW tubes

Engine Rocker Shaft



Specification: -ASTM A 513 SAE 1045

Attributes: - Value Engineering initiative as part of weight reduction from Bar to tube

Hydraulic Cylinder



Specification: - (EN 10305-2, E355 +C/ +SR, ASTM A 513 S.S.I.D)

Attributes: - H8 tolerance with Ra \leq 0.3 microns, H9 tolerance with Ra \leq 0.6 microns, Saves expensive honing cost.

Self Drilling Anchor Bolt



Specification: -SAE 1045

Attributes: - Made from high tensile steel to cater challenging application in construction industry.

Telescopic Front Fork



Specification: -ASTM A 513 SAE 1541

Attributes: - Medium carbon steel
2-wheeler application with high tensile strength and impact/shock resistance properties

Hollow Piston Rod



Specification: -ASTM A 513 SAE 1045

Attributes: - With low Diameter to Thickness Ratio (up to 5) for Automobile & General Engineering application

Hydroformed Tubes



Specification: - EN 10305-3(E355+ N)

Material: - High strength steel
Intricate shapes through hydroforming at extremely high pressure.

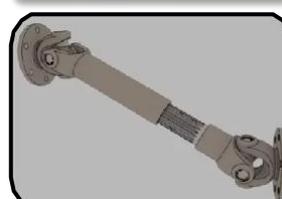
Gas Spring



Specifications: - IS 3074 2013

CEW-1 AD, Ra \leq 0.4 microns
Attributes: - Dimensional accuracy. Meets critical requirements of surface finish. Availability in wide range of sizes

Propeller Shaft



Specifications: - EN10305-2, E355+C

Attributes: - High reliability & strength. Conformance to International manufacturing standards.

Air Preheater/Boiler Tubes



Specifications: - ASTM A423 Gr.1 Corten Steel, BS-6323, Part-V / 1982 .

Attributes: - Dimensionally accurate, resistant to abrasion & IBR (Indian Boiler Regulation) Certified

Bright Annealed Fluid Lines



Specifications: - DIN2391ST35 SAE J525, EN 10305-6.

Attributes: - Flawless ID & OD surface with Ra \leq 0.4 μ m
Hydrostatic tested to comply with customer.

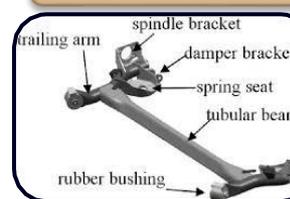
Door Intrusion Beam/Side Impact Beam



Specifications: - HSLA 500 E-500)

Attributes: - Available in HSLA (High Strength Low Alloy) Steel with better formability & Strength with conformance to global manufacturing standard.

Rear Twist Beam

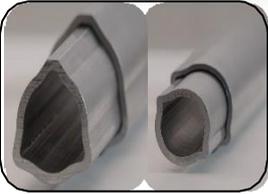


Specifications: - IS 3074 :2013 ERW 1

Attributes: Tubes Made from 1010 and other high strength steel like FB- 590 can undergo intricate forming to meet the extremely challenging geometries meant for passenger cars

Applications of ERW & CEW tubes

Cardan Shaft



Specifications :- EN 10305-2, E-355.

Attributes :- Made from medium carbon steel Available in triangular shape
Use: Helps to transmit more power and torque and improving the dynamic performance of the power transmission

Anti Vibration Mount



Specifications :- IS 3074 2013 CEW 1/2

Attributes :- Anti vibration mounts are used to reduce the noise, vibration and harshness (NVH) in suspension and engine systems

Drag Link



Specifications :- ST-52

Attributes :- Drag link is a steering part that can change tyre rotation motion. It can change the original motion into different plane or axis.

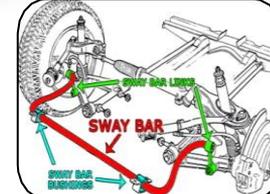
Tie Rod



Specifications :- DIN 2393- ST 52 NBK

Attributes :- Tie Rod is a component of vehicle's steering system. It transmits force from steering center link or the rack gear to the steering knuckle, causing the wheels to turn

Sway Bar



Specifications :- 34MnB5/26MnB5

Attributes :- Stabilizer bars or sway bars reduce body roll, or leaning, when a vehicle turns. They also help prevent the vehicle from rolling over

Rifle Tube



Specifications :- ASTM A 178, Gr. A, C & D & ASTM A 423, Gr. 1 & 2

Attributes :- For boiler tubes and flues and super heated tubes and flues.

Gun Barrel Tube



Specifications :- ASTM SAE 1045, OD 14.2 & ID 5.2

Attributes :- We specialize in manufacturing thick-walled cold drawn precision tubes which saves extra cost of machining.

Sectional Tube



Specifications EN10305-2 E235 +C, IS 1161(YST 240) E250

Attributes :- These tube used in solar panel support structure with high torsion rigidity and in the chassis frame and cross member.

Profile Tube



Specifications :- EN 10305-2, E 275, EN 10305-2, E 235

Attributes :- Used in furniture application & Tube with longitudinal grooves used in components of gas springs.



“Innovation is core of our DNA, here at Metamorphosis Engitech India Pvt. Ltd. With our extensive experience in the tube manufacturing and profound knowledge of the end user industry, we work closely with our customers as a preferred supplier partner and solution provider in terms of adding value to the product through VA/VE initiatives, like Bar to Tube (B2T), HSLA tubing etc.”

Achievement through VA/VE

- **Rocker Arm Shafts (SAE1045)** :- Elimination of expensive and complex Gun Drilling.
- **Bushes, Pinions, Idler, Speedo Shafts (SAE1045)**
- **Steering Sleeves (SAE1026)**
- **Smaller Cross Section HSLA** :- High Strength Low Alloy tubes replacing conventional ERW tubes of Bigger Cross Section leading to weight reduction and increased strength – Seating System.
- **Bearing Spacers** – Casting to Tube Substitution
 - Used to maintain a specific distance between bearings of wheel & axles in commercial vehicles.
 - Benefits of Casting to Tube Conversion
 - Reduced Rejection
 - Improved Strength
 - Eliminated Machining Operations
 - Reduced manufacturing lead time

Electric Resistance Welding (ERW)



Capacity: 6000 MT/Month,
3 Tube Mills ranging from OD 12.7 mm to
114.3 mm and Wall thickness 1.00 to 8.5mm

Roller Hearth Furnace(Bright Annealing) : Capacity 3 MT/ Hr



Roller Hearth Furnace with controlled Atmosphere/Bright Annealing for small diameter tubing (9.53 mm to 25.4 mm) for Fluid Line / Hydraulic Line Piping application as per SAE J 525 & EN 10305 – 6 specification.

Cold Drawn (CEW)



Capacity: 3000 MT/Month,
11 Draw Benches covering from OD 9 mm to 140
mm and Wall thickness 0.9 to 12.5 mm

Offline UT Machine



Offline UT m/c using high frequency wave between
1-25MHZ to detect internal defects.
Range – OD 50mm to 120mm

Cold Pilger



Capacity: 1000 MT/ Month –
28 Cold Pilgers ranging from 12 mm to 120
OD and 2 mm to 12.5mm Wall Thickness

Surface Treatment Plant (STP)



Fully Automated New Surface Treatment Plant with an
installed capacity of 5000 MT/Month.

Cold Pilger Process & Advantages

1 First in the Precision Welded Steel Tube Industry to Adapt Cold Pilgering Technology

2 Capacity: 1000 MT/ Month - 28 Cold Pilgers ranging from 12.7 mm to 120 mm OD and 2 mm to 12.5 mm Wall Thickness

3 Cold Pilgering Technology is widely used by Seamless Tube Industry for manufacturing tubes in Alloy Steel, Bearing Steel and Stainless Steel



Advantages of Cold Pilgering Process

Cross Section Reduction up to 80% or more

Low D/T tubes can be manufacture d. (Up-to 4)

Process relies on large no of forming steps

Homogenous material characteristic

Better ductility inspite of enormous cross section reduction

Multiple passes can be eliminated

Eliminates the inter operation processes



Certificate of Registration

QUALITY MANAGEMENT SYSTEM - IATF 16949:2016

This is to certify that: METAMORPHOSIS ENGITECH
INDIA PVT. LTD.
Unit 1
Gate No -1261
Sanaswadi, Pune Nagar Road
Tal: Shirur
Pune-412 208
Maharashtra
India
USI: GILSKE

operates a Quality Management System which complies with the requirements of IATF 16949:2016 for the following scope:

The Manufacture of Electrical Resistance Welded Tubes.
Permitted Exclusions : Product Design

For and on behalf of BSI:

Michael Lam, Senior Vice President, APAC Assurance

BSI Certificate Number: 713126-000
IATF Number: 0588973



Certification Date: 2025-11-14

Page: 1 of 2

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Latest Issue: 2025-11-14

Expiry Date: 2028-11-13

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Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 9001:2015

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Unit 1
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Pune-412 208
Maharashtra
India

Holds Certificate No: **FM 713127**

and operates a Quality Management System which complies with the requirements of ISO 9001:2015 for the following scope:

The Manufacture of Electrical Resistance Welded Tubes.

For and on behalf of BSI:

Michael Lam, Senior Vice President, APAC Assurance

Original Registration Date: 2020-01-17
Latest Revision Date: 2025-11-03



Page: 1 of 2

Effective Date: 2025-11-03
Expiry Date: 2028-11-02

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Quality Assurance – Fully Equipped Quality Lab

S.NO.	MACHINE / EQUIPMENT NAME	RANGE	MAKE
1	Spectrometer	32 elements	Spectromax, Germany
2	Rockwell Hardness Tester	60-150 Kg	Testwell
3	Universal Testing Machine	0-600 KN	FIE
4	Universal Testing Machine	0-1000 KN	Testwell
5	NDT -Eddy Current Testing Unit (online)	OD 12.70 to 101.60 mm	Technofour
6	NDT -Eddy Current Testing Unit (offline)	OD 13.88 to 101.60 mm	Technofour
7	Granite surface Plate	1000X630, 1000X1000	GMT, Rasha
8	Metallurgical Microscope	20X-1000X & 50X-1000X	Vardhan, Metatech
9	Surface Roughness Tester	0-1 mm	Mitutoyo
10	Micro hardness Tester	98.07 mN -19.614 N	Shimadzu, Japan
11	Hydraulic Press for Weld quality Tests	5 Ton	ITL Industries
12	Hydrostatic Testing Machine	Up to 4000 Psi	Rollform
13	Online Ultra-Sonic Machine	40MM-120MM	EEC-SOCO Mate France
14	Impact Testing Machine(Charpy V-Notch Test)	0-300J	Fine Instruments
15	Offline Ultra-Sonic Machine	Range 40mm-120mm	Metascan

Capacity & Capability Expansion

S.No.	Machine Name	Capacity	Expected Installation
1.	Draw Bench	10TON	Sept-25
2.	10 Roll Straightening Machine	OD- 12 to 70 mm, Thk-0.8to 7.0mm Length - 3 to 10 Mtr	Aug-25
3.	120 MT Push Pointing Machine	OD- 40 to 168 mm, Thk-4 to 16 mm Length- 4 to 8 Mtr	Sept-25
4.	Skiving and Roller Burnishing Machine (Sierra USA)	ID- 38.1 to 203 mm Length – upto 8 Mtr	Apr-26
5.	Eddy Current Testing (ECT) Machine	OD- 33.40 mm -140mm Thk– 1 mm - 14 mm Length – 4 Mtr- 10 Mtr	Oct-25

OFF HIGHWAY VEHICLES



AGRICULTURE VEHICLE



AUTOMOTIVE



COMMERCIAL VEHICLES



POWER & ENERGY



VALUE ADDED FACILITY

 **We are a team of experienced engineers led by professionals with over 18 years of expertise in:**

- ❖ Machining
- ❖ Engineering fabrication of complex components and assemblies
- ❖ Indigenization and project management

Our Differentiators:

- ❖ Strong focus on Process Engineering
- ❖ Robust Quality Assurance
- ❖ Effective Execution of projects

Our Business Model is driven by:

- ❖ In-built Quality
- ❖ On-time Delivery

Certifications:

- ❖ ISO 9001
- ❖ IATF 16949
- ❖ We trust and believe in building strong, futuristic relationships with our customers.



Precision Machining- Scope & Capabilities

Process / Operation	Min-Max Dia /Size	Max Length / Ht.	Tolerance	Raw Material
Cutting	10 - 250	2800	0.5	1. Low, Medium & High Carbon Steel 2. Bronze 3. Aluminum 4. Brass 5. Stainless Steel 6. Exotic Materials viz. Tungsten, Inconel, Titanium
CNC Turning	10 - 350	2800	0.05	
CNC Turning / Milling	5 - 250	550	0.015	
VMC & HMC	1000 X 600	600 (ht)	0.05	
Centre less Grinding	14 - 100	4000	0.008	
Internal Grinding	6 - 120	180	0.01	
External Grinding	5 - 350	3800	0.005	
Surface Grinding	250 X 400	200	0.010	
Wire Cutting	450X350X450	450	0.025	
Robotic Welding	1000X1000X1000	1000	0.5	
Press/Stamping	200X200X200	-	-	
Bending	150X3000	-	-	
Surface Finish - 0.2 μ				
Note: For CNC Turning – Diameter Depends on Length				

Manufacturing Set-up

Type	Machines
CNC & Turnmill	Tsugami, Citizen, Hass, Gedee Weiler, Pinacho, BFW, ACE Micromatic, Hision, LMW Range – Upto 3 m
VMC	Hass, Hision, ACE Micromatic, BFW Range – Upto 3 m with 5 axis
HMC	Hass
Conventional Set-up	5m Lathe, Huron Milling, M1TR, Radial Drilling



Equipped with Suitable Technology Machines of Precision Components Manufacturing

Manufacturing Set-up

Type	Machines
CNC Cutting	SOCO, Zeal Tech
Cylindrical Grinding	Cincinnati, Micromatic, Hilife Range – Upto 4 m
Centres Grinding	WMW Range – Upto 100 mm dia. & 4 m length
Surface Grinding	PROTH, JMC
Cleaning	Automatic Ultrasonic Cleaning
Welding	Fanuc Robotic Welding
Wire Cut	Berlin Make



Equipped with Suitable Technology Machines of Precision Components Manufacturing

State of the Art Metrology Lab

Sr.No	Measurement	Make	Specification L X W X H
1	CMM	Hexagaon	750 X 450 X 400
2	CMM	Accurate	700 X 450 X 400
3	CMM	Accurate	3500 X 1600 X 1600
4	Contour Tracer Machine	Mahr	Stroke 140 mm
5	Romer ARM	Hexagaon	NA
6	Laser Tracker 4.0.2	NA	NA
7	Laser Tracker AT 960 with tip probe	NA	NA
8	I-Digital Height Gauge	Trimoss -V4	Height 710 mm
9	Digital Rockwell Hardness Tester	FIE	NA
10	Vision Measuring Machine	Big 0	450 X 300 X 250



State of the Art Contact & non-Contact Type Measurement

Precision Machining Parts



Lifting Jig



Piston Cap



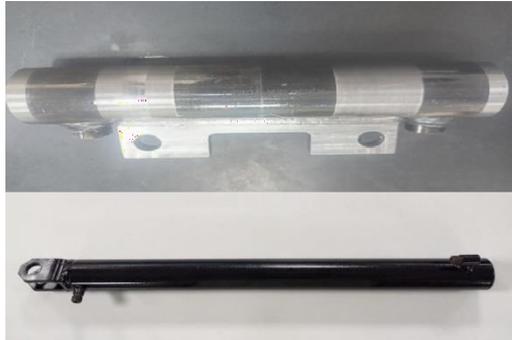
Piston



Guide Rod



Piston



Hydraulic Cylinder Sub-Assembly



Piston



Worm Shaft

Guide Rod



Components for Hydraulic Automotive
Material :- Alloy Steel

Precision Machining Parts

Product Range Batch Production - Hydraulics



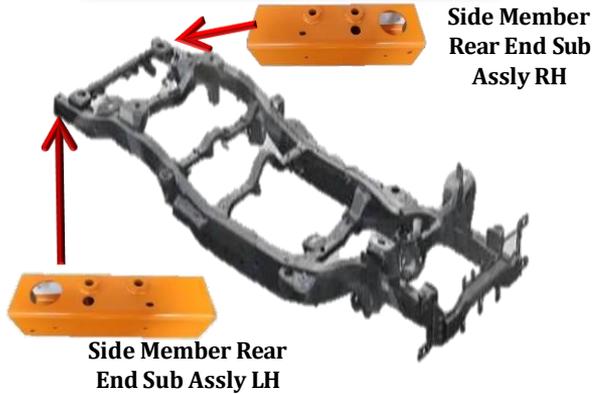
Manifolds / Hydraulic Blocks

Pictures				
Material	C45	C45	SS41	AL7075
Location	France	France	India	Germany
Application	Hydraulic Systems	Hydraulic Systems	Injection Moulding Machine	Adhesive System Equipment

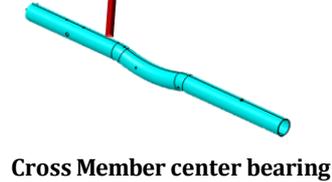


Value Added Products & its Applications

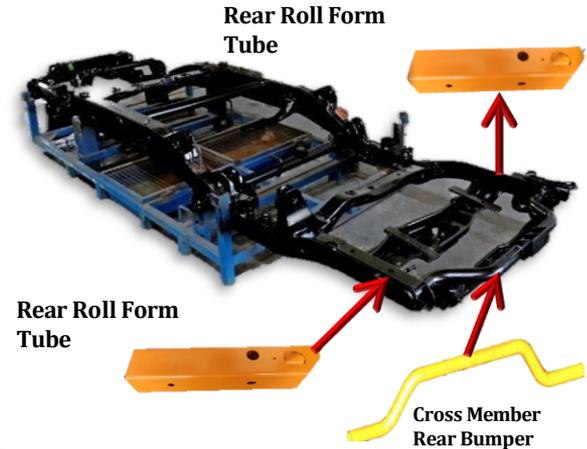
Mahindra THAR

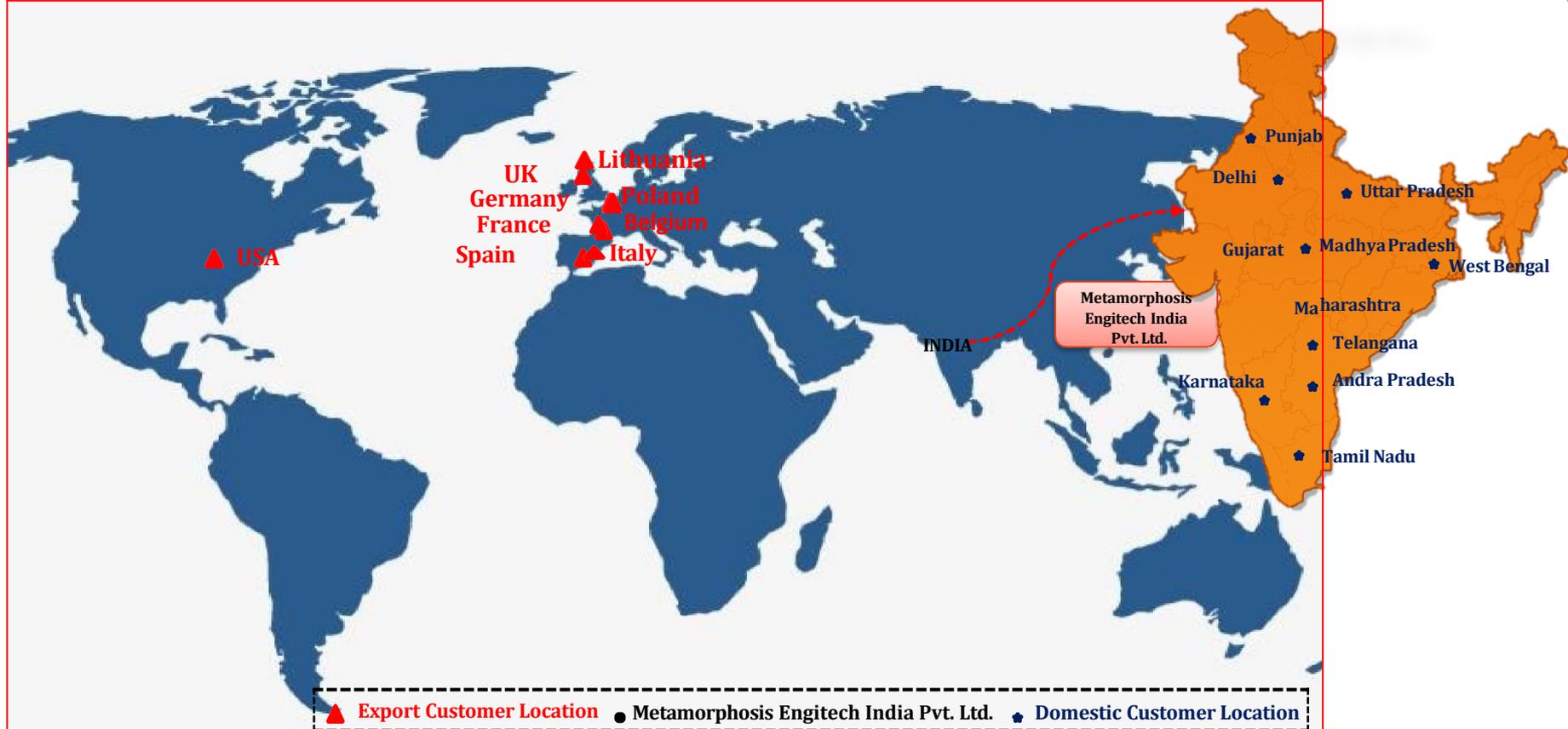


Mahindra Bolero Neo

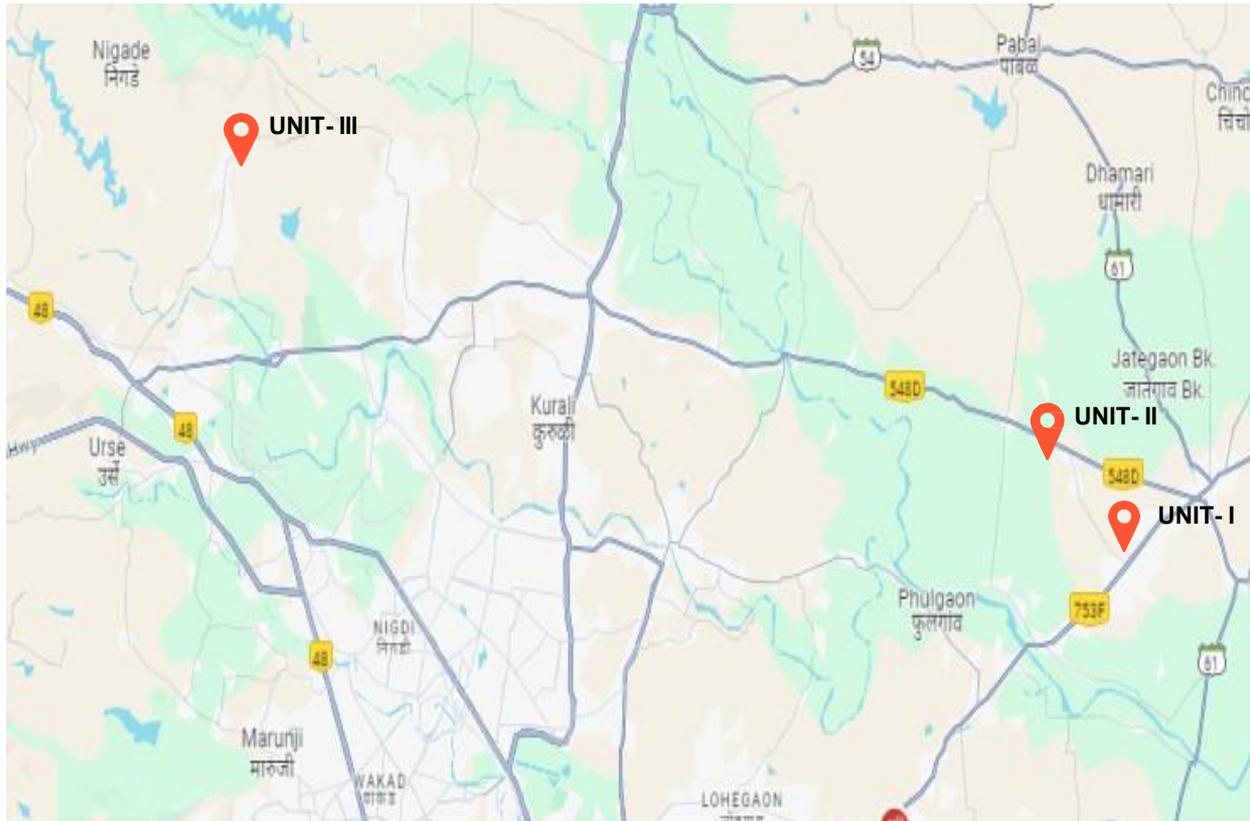


Mahindra Scorpio





Contact Us



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Thank You

