AVADH TECHNOMETALS

AVADH
TECHNO METALS PVT LTD

THE GROUP

Avadh Rail Infra is a leading company in metal fabrication, rubber products, air suspension, precision and electrical components. They are known for producing high-quality products in critical applications in industries such as oil and gas, defence, railway, energy, and power. We have 170,000 square feet of factory area spread over 370,000 square feet of land.

The group has:

USD 35 Mn+ turnover

SAP

600+ employees

AVADH TECHNOMETALS

INDEX

MANUFACTURING

Cast Iron, SG Iron (Ductile) & Alloy steel casting as per International Standards. Avadh Technometals Pvt Ltd is a leader in advanced manufacturing with the ability to utilize both the green sand process and the no-bake sand process.

MACHINING

Plants are equipped with high precision Computer numeric control machines with facilities to machine small, medium and large precision components. a) HMC b) VTL c) VMC d) CNC Turning Machine

TESTING

Chemical, Mechanical and Sand Testing Labs

- Carl Zeiss CMM
- Computerized Tensile Testing machine
- Universal Testing Machine (Load Capacity – 100 Tons)
- MPI (fully automatic) and many more

RESEARCH & DEVELOPMENT

- ProCAST Casting Simulation Software
- CAD Solidworks
- CAM PowerMill Delcam

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- Avadh Technometals Pvt Ltd has established itself as a pioneering force in advanced manufacturing, distinguished by its proficiency in leveraging both the green and no-bake sand processes.
- The plant has the capability to produce castings up to 500 kgs in a single piece, in low alloy steel, SG Iron, and stainless steel, with a monthly production capacity of 450 tonnes.
- The company has an in-house pattern-making shop with experienced pattern makers and method engineers.
- We are one of the most conscious manufacturers in India as our products are used in various industries like Defense, Railway and Automobiles.

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SAND CASTING

Avadh Rail Infra started casting foundry under the name of ATMPL in 2023. It is located in Haridwar, Uttarakhand. It is spread across an area of 11,000 sq meters. Its current annual production is 5,400 metric tonnes. The company is open to expanding as per customer requirements.

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SAND CASTING

1

MANUFACTURING GRADES

The company manufactures different grades of castings such as ductile iron, grey iron, steel and graded steel castings.

2

MELTING

The company is equipped with a huge melting capacity in various batches. It has induction furnaces of 0.75 metric tonnes crucible capacity of InductoTherm.

3

CORE & PATTERN SHOP

The company has a core paint unit and core oven, cold box core shooter, CO2 & No-Bake hand-making core system.

The company has an in-house pattern-making shop with experienced pattern makers and method engineers.

4

FETLING & SHOT BLASTING

The shop is equipped with Shot Blasting machines (Hangar type with 500kg batch capacity). The company is equipped with all required equipment such as chipping hammer, flexible, angle, pedestal, pencil & swing frame grinders. All castings are carried by Monorail Hoist and track-trolley system. Sufficient area has been provided to handle knocking and recalculating sand by underground conveyors to hopper.

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MACHINING

Modern manufacturing plants are equipped with high-precision computer numeric control (CNC) machines that provide a wide range of facilities for machining small, medium, and large precision components. These sophisticated machines use advanced software and hardware to carry out precise operations, such as drilling, milling, and turning, with great accuracy and repeatability.

- HMC: BTSO Taper 1200 x 1200 x 1200 mm Travel DAWOO
- Vertical Turret Lathe Machine: 700mm- BFW
- Vertical Milling Centre Machine: 900mm-BFW
- CNC Turning Machine: 300 x 450 mm dia, DOOSAN

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HEAT TREATMENT

The unit has fully automatic gas-fired pusher-type continuous furnaces having a capacity of 5 MT.

INSPECTION & TESTING

- Metallurgical Microscope attached with the micro analyser (Magnification: 100x to 600x)
- Brinell Hardness Testing
- Rockwell Hardness Testing
- Poldi Hardness Tester
- Abrasive cut-off machine (Dia 300)
- Pedestal Grinder
- Micro Polishing Machine

PRODUCTION FACILITIES

- Hardening & Tempering
- Normalizing
- ISO Thermal Annealing
- Annealing
- Solution Annealing
- Stress Relieving
- Toughening
- Shot Blasting

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TESTING LABS

Avadh Technometals has a well-equipped lab for sand products with necessary instruments and computerized testing machines for material, physical, and mechanical testing as well as sand product performance testing.

SAND CASTING

- Spectro (Aspire- 26 elements)
- Mould hardness tester
- Core scratch tester
- Sand Testing equipped with complete range of equipment involved in testing
- Metal checking -Pyrometer & CE meter
- Chemical lab with Wet Analysis method
- Brinell Hardness Tester based with microprocessor
- UTM with Digital Display systems
- Microscope with image Analyzer
- Surface Plates, Thickness gauge, Radius gauges, aMicrometer
- Height Gauges & Vernier Callipers
- MPI testing machine (Crack detection)

NDT

- Electro-Magnetic- YOKE ITW
- Magnetic Field Indicator- Ferrochem
- White Contrast Paint, MR-72- MR Chemie
- Magnetic Suspension Ink- MR Chemie German
- Red Penetrant Solvent- Aerosol
- White Developer- Aerosol
- Clear (Solvent Remover)- Aerosol
- Aluminium Comparator Block- Eishin-Kagaku, Japan
- V1 Block-IIW Type

MACHINING

- Carl-Zeiss CMM
- Contracer
- 2D Height Gauge
- Air Gauge
- Surface Finish Tester
- Slip Gauge Box
- Digital Height Gauge
- Outside Micrometer
- Blade Micrometer
- Leakage Testing
- Dial Bore Gauge
- Dial Indicator
- Digital Vernier calliper
- Puppy Dial
- Inside Caliper
- Comparator Stand
- Bench Center
- V Block Magnetic
- Ultrasonic Washing

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TESTING LABS

RESEARCH & DEVELOPMENT

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Our R&D team has the in-house resources to test linear and nonlinear materials, and use FEA models to simulate product performance in real-world environments. Using CAD and FEA tools, our designers and engineers conduct full product characterization and optimization. Our team utilizes premier linear and non-linear solver tools to ensure product quality and longevity.

R&D FACILITIES

- Carl Zeiss CMM
- Computerized Tensile Testing machine
- Universal Testing Machine (Load Capacity – 100 Tons)
- ProCAST Casting Simulation Software
- CAD Solidworks
- CAM PowerMill Delcam

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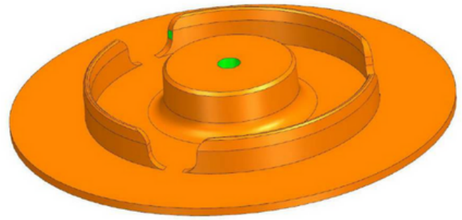
PRODUCT GALLERY

BRAKE DISC

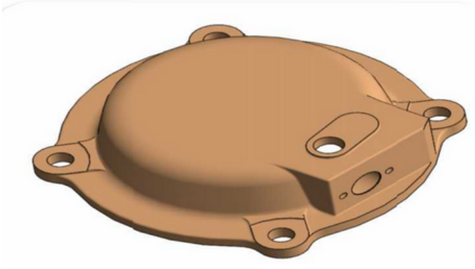
CONTROL ARM TRAIN

TOP PLATE

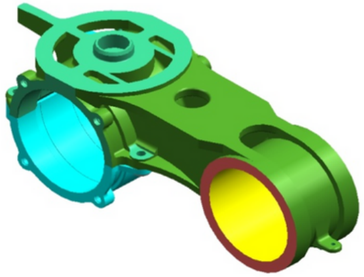


CENTERING DISK

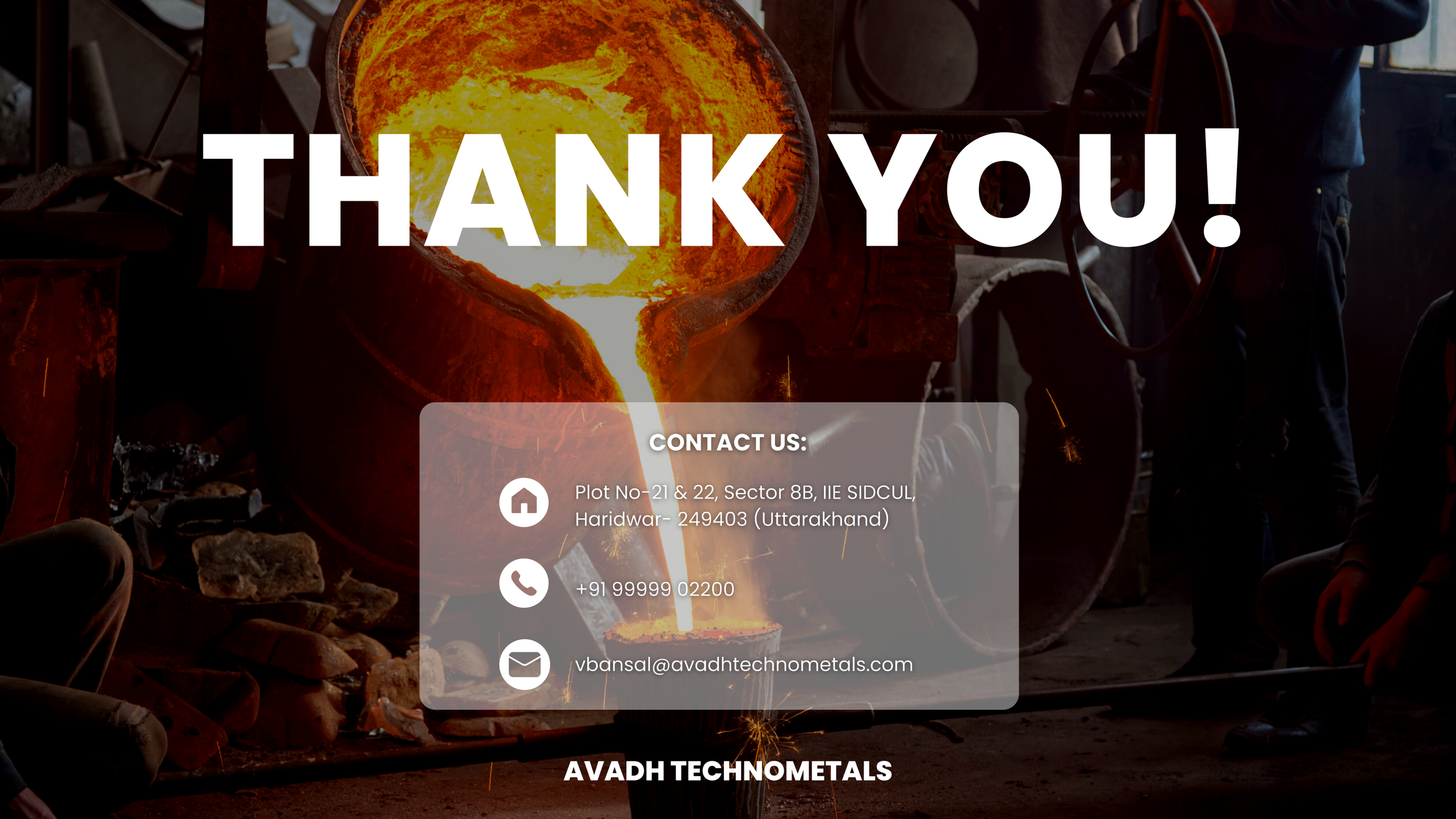
BASE PLATE



AXEL END COVER



CONTROL ARM LOWER LEFT, RIGHT & TOP (CASTING & MACHINING)



THANK YOU!

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