

CHEMICAL



POWER



PETROCHEMICAL



CEMENT



IRON & STEEL



A multifaceted engineering presence



AUTO PARTS & ACCESSORIES

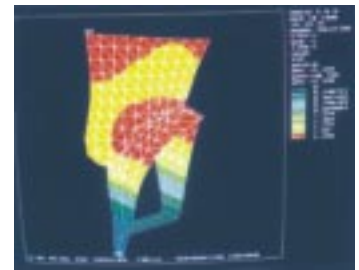
THE POWER TO TRANSLATE IDEAS

The Company enjoys a leading edge in the industry that enables it to translate any design or prototype into finished components that suit specific customer requirements, lending it a high degree of versatility and design flexibility. In-depth expertise and adequate infrastructure allows Auto Parts to carry out

- *Design of fans from as small as 100mm dia, up to 6000mm dia*
- *Performance Improvement on existing fans*
- *Stress analysis of rotating impellers*
- *Rotor dynamic analysis of fan shafts & impellers*
- *Site performance evaluation of fan operating points*
- *Design of high-performance fans*
- *Vibration study and diagnosis*



The design team at Auto Parts is equipped with four CAD stations and a team of dedicated engineers and staff that provides answers to intriguing design problems faced by the industry.



The team also feels that stress analysis of a rotating impeller subjected to high centrifugal force during operation, is critical. This is carried out, using the ANSYS finite element programme, which models and analyses the impeller under dynamic conditions.



design



A range of pump spares

With a heavy fabrication/machining shop and a full-fledged electrical workshop and test facilities spanning over a combined shop floor area close to 2,00,000 sq. ft., Auto Parts possesses the capability to take on and execute the most challenging fabrication assignments, using a wide range of imported raw materials & infrastructure that conform to international standards :

- *Horizontal Boring/Milling/Grinding Machines*
- *Vertical Boring/Turning Machines ; Dia - up to 5m*
- *Dynamic Balancing Machines of capacities 3kg-30000kg
Dia - up to 5m ; Length - 12m*
- *Stress relieving/normalising furnace*
- *Shot Blasting Chambers*
- *SMAW/MIG/TIG/PLASMA welding equipment*
- *NDT - Ultrasonic & Magnetic Particle, Frequency tuning and
Vibration analysis equipment*
- *Model fan test track conforming to BS 848*



In-house Model Fan Test facility enables testing of model fans of dia 500mm at 3000rpm. This facility utilises a test track that conforms to BS 848 and is principally aimed at achieving improved performance of fans.



manufacturing

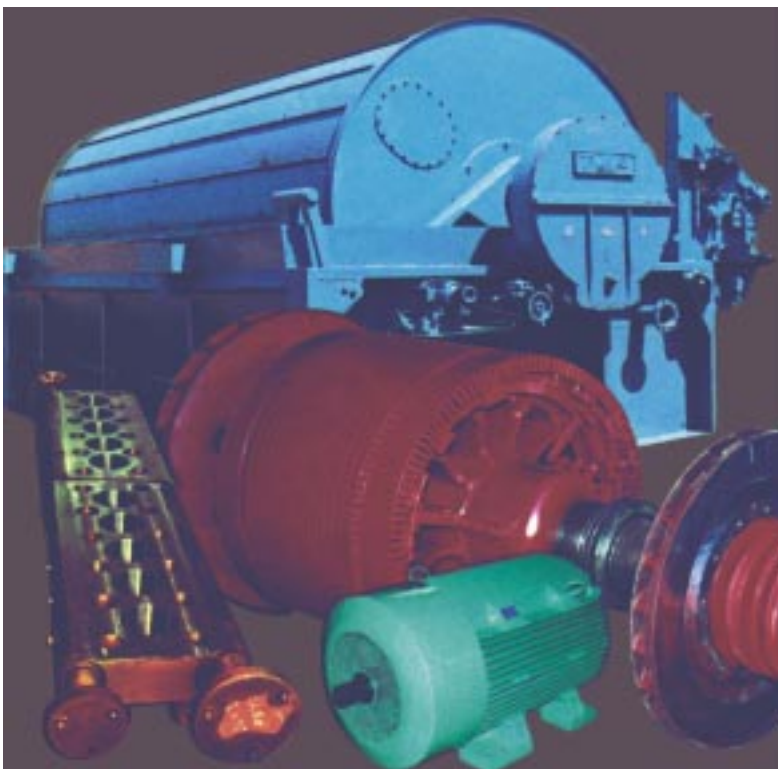


The Company is equipped with modern facilities to rewind and recondition LT, HT and DC motors and alternators, including checking of turn and phase weakness using surge comparison tester and load testing.



Dynamic balancing of a rotor is carried out at Auto Parts and the residual rotor unbalance is ensured well within the accepted norms as per ISO 1940 and other international standards, for up to a maximum dia of 5000mm and a length of 12000mm.

Serving a blue-chip clientele, Auto Parts has been synonymous to customer support and has, over the years, been involved in repair and reconditioning of critical components that function in these industries. This has cut costs for the client, while saving precious downtime. The Company has been authorised by SIEMENS, Hi-Rel Controls Pvt. Ltd., and TECO Electric & Machinery Co. Ltd., Taiwan, for rewinding and reconditioning HT, LT, DC motors and generators in India.



repair & reconditioning

Fan Housings



*Induced Draught Fan
Rotor*



Dryer Cylinder



*Machining of
Material Handling
equipment*

***YOUR
RELIABLE
ENGINEERING
PARTNER***

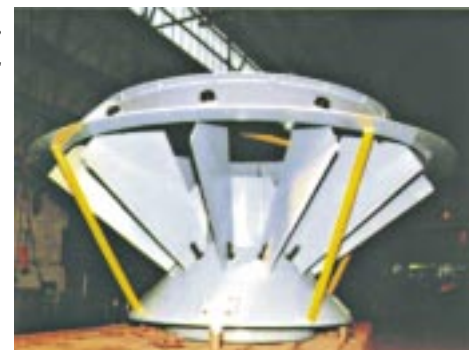
AUTO PARTS & ACCESSORIES - a multifaceted, multidimensional engineering company, specialises in design, fabrication and supply of a number of mechanical and electrical components that are used in a spectrum of engineering applications for

- *Power Plants*
- *Cement Plants*
- *Steel Plants*
- *Nuclear Plants*
- *Petrochemical Industries*
- *Iron Ore & Zinc, Copper & Aluminium Industries*
- *Chemical Industries*
- *Sugar Mills*
- *Paper Mills*

From small beginnings in 1975, the Company is today a force to reckon with, ranking amongst the forerunners in the industry. With a dedicated team that exceeds 350 personnel, consisting of over 100 engineers, Auto Parts firmly believes that in-process and final product/service quality is the key to success and is well equipped to handle daunting assignments in the area of

- *Design*
- *Import Substitution & Indigenisation*
- *Fabrication & Machining*
- *Performance Analysis*
- *On-site Testing*
- *Repair & Reconditioning*

*Rotary Vane
Controls*



RANGE OF PRODUCTS AND SPARES

POWER PLANTS

- ◆ **Impellers** - Induced Draught Fans, Forced Draught Fans, Primary Air Fans, Seal Air Fans, Vapour Fans, ESP Fans.
- ◆ **Shafts** - For I.D. Fans, F.D. Fans, P.A. Fans, S.A. Fans.
- ◆ **Pumps** - H.P. Flush Pump impeller/shaft and other spares - Circulating Water Pump impeller/shaft and other spares - Cooling Condensate Pump impeller/shaft and other spares - Turbine Starting Oil Pump shaft and other spares - Low Pressure Flush Pump impeller/shaft and other spares.
- ◆ **Casings** - For I.D. Fans, F.D. Fans, P.A. Fans, S.A. Fans and Vapour Fans.
- ◆ **Housings** - For Axial and Radial Fans and other spares such as Exchangeable Vanes.
- ◆ **I.G.V.** - Adjustable Vanes and spares.
- ◆ **Air Heater Spares** - Sector Plates & Rotor Posts.
- ◆ **ESP Spares** - Collecting Electrodes, Emitting Electrodes, Wrapping mechanism, Shock Bars, Screen Sheets and other spares.
- ◆ Connecting Plate Assembly.
- ◆ Gravimetric Feeders.
- ◆ **Guillotine Gates** - Hot Air Gates & Bunker Gates.
- ◆ SIDOR 21, 25, 28, 31, 35, 37 & 41 Impellers.
- ◆ TIEFSTACK & TORONTO type Impellers.
- ◆ **Pelton Wheels** - Reconditioning and balancing.
- ◆ Rewinding/Reshafting of HT/DC/LT Motors and Generators.

CEMENT PLANTS

- ◆ Fans - Design, manufacture and supply/repair reconditioning of large process fans - I.D./Raw Mill/Vertical Mill/Preheater/ESP/Cooler.
- ◆ Shafts - Manufacture and repair of all types of shafts for process fans, Jaw crusher, eccentric shaft.
- ◆ Inlet Trunnion - Manufacture and repair.
- ◆ Kiln/Kiln Segments - Manufacture (100% Radiography)
- ◆ Kiln Support Roller and Shaft - Manufacture and repair.
- ◆ Motors/Generators - Rewinding / reshafting of HT / DC / LT motors and generators.
- ◆ Design, manufacture & supply of Air Pollution control equipment like Pulse Jet Bag Filters, Compact Dust Collectors and Scrubbers.

PAPER MILLS

- ◆ All types of rolls
- ◆ Chippers/Blades
- ◆ Pulverisers
- ◆ Vibratory Chip Screens
- ◆ Fans & spares for Utility / Recovery Boilers

IRON / STEEL / ZINC / COPPER / ALUMINIUM & PROCESS PLANTS

- ◆ Process Fans - Design, manufacture and supply/repair/reconditioning of all types of large process fans such as Exhauster, Sinter Plant, Captive Power Plant and spares such as :
Shafts - I.D./F.D./P.A./Vapour Fans
Impellers - I.D./F.D./P.A./Vapour Fans
Fan housing or casing, Spiral casing
I.G.V. assembly and spares, Exchangeable Vanes, Fan blades, Seal Air Fans and Impellers, and E.S.P.
- ◆ Pelletising Disc
- ◆ Mixers
- ◆ Weigh Feeders
- ◆ Annular Cooler
- ◆ Rotary Kilns-Support rolls, Feed-end air seal assembly, Discharge frames, Crushers
- ◆ Grate Machine
- ◆ Roller Screens
- ◆ Heat Exchangers as per drawing - Stainless Steel, Alloy Steel , Copper Tubes, Finned Tubes
- ◆ Reciprocating Conveyors
- ◆ Material Handling Systems
- ◆ Iron Ore Grinding Mills
- ◆ Motors/Generators - Rewinding / reshafting of HT / DC / LT motors and generators.

SUGAR MILLS

- ◆ Fans - Design, manufacture and supply/repair/reconditioning of all types such as I.D./P.A./ESP
- ◆ Shafts - Manufacture and repair of all types of fans and other shafts
- ◆ Mill Roller Shafts
- ◆ Mill Head Stock - Machining/repair reconditioning
- ◆ Fibrizors / Cane Cutters / Cane Levellers- Manufacture and repair
- ◆ Knives & Hammers - Manufacture / supply
- ◆ Motors / Generators - Rewinding / reshafting of HT / DC / LT motors and generators

RAILWAYS

- ◆ Fans - Traction Motor Blowers (front and rear)
- ◆ Radiator Fans and Fan blades
- ◆ Coco Bogies - Broad Gauge and Metre Gauge - repair and machining
- ◆ Traction Motor armature and stator - rewinding and reshafting
- ◆ Yoke Frame - reconditioning and machining
- ◆ Allied Spares - manufacture and supply.

WE

also fabricate and machine

very large components

out of

stainless steel,

mild steel, carbon steel,

quenched & tempered steel and

alloy steels,

as per drawings

or sample provided.



AUTO PARTS & ACCESSORIES

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