



TOTAL CASTING SOLUTIONS



NABL ACCREDITED LABORATORY (LAB DIVISION)



PORWAL AUTO COMPONENTS LIMITED

Porwal Auto components Ltd established in 1992 is a BSE listed, company. It is specializing in Manufacturing of **Ductile Iron, Grey Iron, Ni-Resist, ADI and Alloy Steel castings, Machined and Assembly Components.**

Our major market segment is Automobiles (Commercial Vehicles), Rail Coach and Locomotive Units, Defence sector, Tractors/Agriculture and Engineering's etc.

An ISO-9001, IATF-16949, IRIS-ISO/TS-22163,  BIS-210 Certified, ISO-14001, IBR-392 and RDSO Class "A" Foundry Certified.

VISION

To achieve product quality by team "TOGETHERNESS"

MILESTONES

- ▶ 1992 **Incorporated.**
- ▶ **1999** Award for New Product Development by Eicher Motors Ltd.
- ▶ 1999 **National award for Entrepreneur to MD- Devendra Jain by Govt. of India.**
- ▶ **2001** Capacity Enhanced to 4800 MT per annum.
- ▶ 2002 **Direct Online Status by Eicher Motors Ltd. For LCV/MCV parts.**
- ▶ **2003** Certification of ISO 9001:2000.
- ▶ 2004 **Capacity Enhanced to 6000 MT per annum.**
- ▶ **2005** Direct Online Status by Eicher Motors Ltd. For HCV/MAV parts
- ▶ 2006 **Award for Outstanding Contribution to supply chain management by Eicher Motors Ltd.**
- ▶ **2007** Capacity Enhanced to 9000 MT per annum.
- ▶ 2007 **Certification of ISO/TS: 16949:2002.**
- ▶ **2008** Installed High Pressure Moulding Machine.
- ▶ 2008 **Award for New Product Development by Volvo Eicher Commercial Vehicles Limited.**
- ▶ **2010** Capacity Enhanced to 21600 MT per annum.
- ▶ 2010 **Certification of ISO 9001:2008 & ISO/TS: 16949:2009.**
- ▶ **2013** Installed Cold Box Machines.
- ▶ 2013 **Installed 1.8 MW Solar Power Plant for Captive Consumption.**
- ▶ **2014** RDSO Certification.
- ▶ 2016 **Installed 2000 kg capacity ARC furnace.**
- ▶ **2017** Installed 3.0 MW Solar Power Plant for Captive Consumption.
- ▶ 2017 **Approved by Integral Coach Factory & Rail Coach Factory.**
- ▶ **2017** Installed 750 KW 2 nos Induction furnace (IGBT Design) of Capacity 1000kg each.
- ▶ 2018 **Installed 1000 KW 2 Nos IGBT Based Induction Furnace of Capacity 1000kg Each.**
- ▶ **2019** National Energy Conservation Award by Government of India Ministry of Power.
- ▶ 2021 **Certificate of IRIS ISO/TS 22163: 2017.**
- ▶ **2021** Installed VLFC (VACUUM ASSISTED LOST FOAM MOULDING PROCESS).
- ▶ 2022 **Automatic PLC controlled Heat Treatment cum Quenching Facility.**
- ▶ **2025** NABL Accredited Laboratory.
- ▶ 2026 **High Pressure Moulding Line (SAVELLI).**

MANUFACTURING FACILITY

MELTING

- ▶ 2 Nos. 1000 Kg/ 1000KW IGBT 12 pulse Induction Furnace of Inductotherm Make
- ▶ 2 Nos. 1000 Kg/ 750KW IGBT 12 pulse Induction Furnace of Oritech Make
- ▶ 1 No. 2000 Kg Electric ARC Furnace, with tilting facility.



MACHINE MOULDING

High Pressure Moulding Machines **SAVELLI** Make
Box Size: **1100 X 900 X 300 / 300 mm.**

High Pressure Moulding Machines **FONDARC** Make
Box Size: **700 X 700 X 300 / 300 mm.**

One Pair ARPA -900 Moulding Machines
Box Size: **1075 X 800 X 300 / 300 mm.**



MANUFACTURING FACILITY

HEAVY MOULDING

Weight : 100 Kgs TO 1500 Kgs.



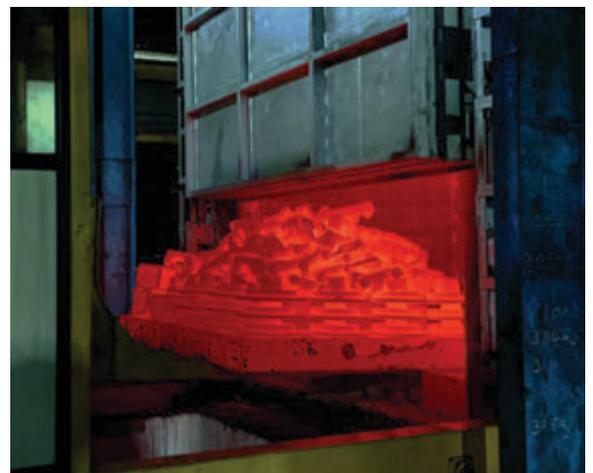
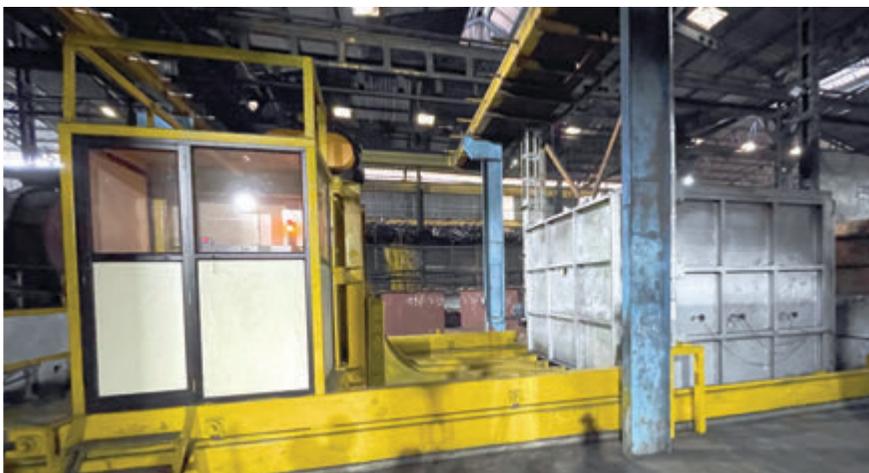
SAND PLANT

Sand Plant of Fondarc make (French Design)
Capacity : 80 MT/Hr with online Sand testing,
online sand cooling and fully automated PLC
controlled operations.



HEAT TREATMENT WITH QUENCHING ARRANGEMENT

Automatic PLC controlled heat treatment furnace
Capacity : 10 Metric Ton



CORE MAKING : COLD BOX / NO BAKE

Fully Automatic Universal
Hydraulic Operated Amine
Cold Box Machine

Shot Capacity : 3kg to 100kg
Quantity: 6 Nos.



MANUFACTURING FACILITY

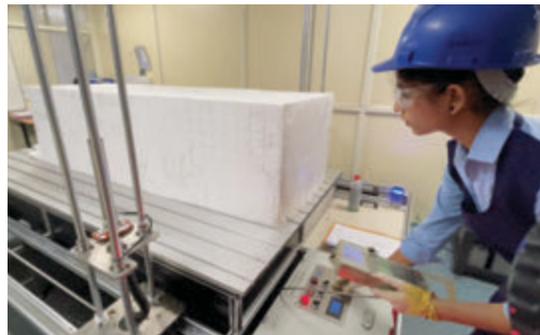
VACUUM ASSISTED LOST FOAM CASTING - VLFC

BOX SIZE: 1200x1000x1400mm

WHITE AREA



YELLOW AREA



BLACK AREA



TESTING EQUIPMENTS

Chemical Testing :-

- Spectrometer Metal Lab, MINILAB 150 foundry Analyser of GNR make Italy.
- C.E. apparatus with recorder.
- Carbon Sulphur analyzer.
- Other relevant wet analysis facilities.



Metallurgical Testing

- Microscope with Image Analyzer with magnification of 100 times.
- Digital Brinell Hardness Tester.
- Rockwell Hardness Tester
- Portable Leeb Hardness Tester.
- Universal Testing Machine 40 Ton.
- Impact Testing machine ASTM.



Non Destructive Testing

- Ultrasonic Flaw Detector (UT)
- Magnetic Particle Test
- Radiography (RT)
- Dye Penetrant



Sand Testing

- Universal Sand Testing Machine.
- Mould Hardness Tester.
- Permeability Meter.
- Sieve Shaker.
- WET tensile testing machine.
- Moisture Tester & other relevant testing facilities.



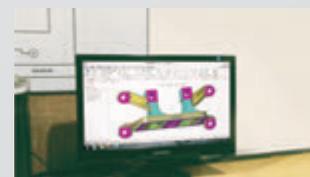
Metrological Testing

- Surface Finish Tester.
- Slip Gauge.
- Surface plate.
- Conventional facilities for measurement.
- Inspection through CMM.



Tool Design & Development

- Auto CAD & Creo Softwares for 3D Modeling, Pattern Design, Pattern & Core Boxes through CNC/VMC Route.
- Maintenance of the Tooling is done In-house.



Simulation Software

SOFTCAST Simulation for accurate methoding.

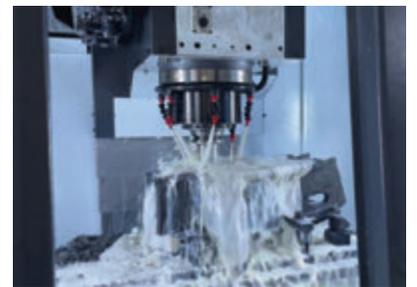
Finishing & Painting

- ConveyORIZED hanger type Shot blasting machines.
- PLC controlled Electric Conveyor type Painting dry oven.



MACHINE SHOP

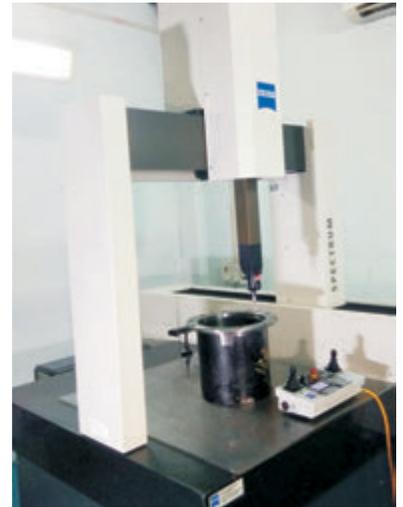
We have modern in-house machining facility with tool presetter of Zoller make, Horizontal Machining Centers (HMC), Vertical Machining Centers (VMC), Vertical Turret Lathe (VTL) CNC Lathe machine and Conventional machines.



MACHINE SHOP

3D CMM (Co-ordinate Measuring Machine)

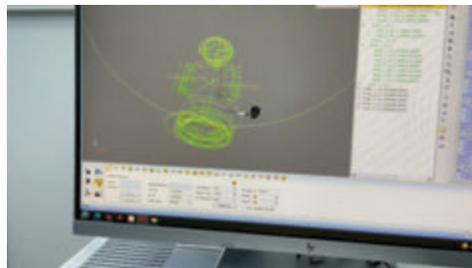
ACCURATE Make software Rational DMIS64 with Automatic Probe system
 Size X= 1200mm, Y=2000MM, Z=1000mm



Carl Zeiss make software Calyso 5.4 with Automatic Renishaw Probe system RTP20
 Size - X=700mm, Y=1000mm , Z=600mm



Tool presetter of Zoller make



PRESTIGIOUS AWARDS



CERTIFICATES



ISO 9001:2015



IATF: 16949:2016



International Railway Industry Standard ISO-22163:2023



Approved by RDSO Class "A" Foundry



Approved by Ministry of Defence, Ordnance Factory



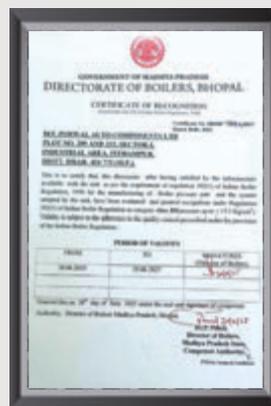
Approved by Rail Coach Factory, Integral Coach Factory & Chittaranjan Locomotive Works (CLW)



NABL Accredited Laboratory (Lab Division)



ISO 14001:2015



IBR-392



D-U-N-S 91-663-5019

PRODUCTS



SG CASTING COMPONENTS



DIFF CARRIER ASSLY



DIFF CASE ASSLY



DOUBLE FLANGE HUB



SPINDLE HOUSING



WHEEL HUB



AXLE HOUSING



WHEEL HUB



BELL HOUSING



SPRING HANGER



REACT ROD RH BKT



FRONT WHEEL FLANGE



BRAKE SHOE



INT GB & FUPD MTG BKT



PLATE V STAY



AXLE SEAT



GEAR BOX MTG BKT



ANCHORAGE



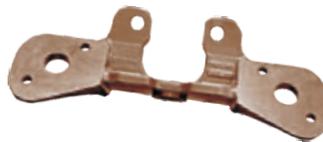
TRUNNION SUPPORT



BRACKET BRAKE CHAMBER



END SUPPORT



BASE PLATE V STAY



STATOR FRAME



SNOWFLOW RING



SPEED PROB HSG



TRUNNION HSG



DRUM 10 INCH

PRODUCTS



SG CASTING COMPONENTS



CAST SADDLE



CONTROL ARM ASSY



BRACKET STD ATD
SIDE CASTING



BRAKE HOUSING



PISTON BRAKE



SEAT REAR SPRING



LINKAGE BACKHOE



COVER FOR EARTH CONTACT



HUB MACHINED



REAR COVER



BRG HOUSING



SUPPORT A.T.



END SUPPORT



BEARING HOUSING RH



DRUM 25A



AXLE BOX HOUSING LOCO



BEARING CAP NDE



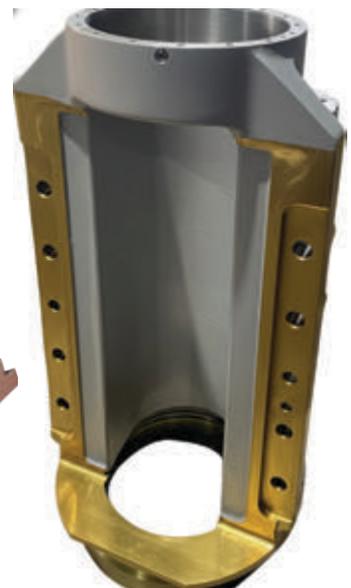
END FRAME NDE



END FRAME DE ASSLY



STATOR HOUSING



SUSPENSION TUBE TM 6 FRA 6068

PRODUCTS



GREY IRON CASTING COMPONENTS



POINT BASE



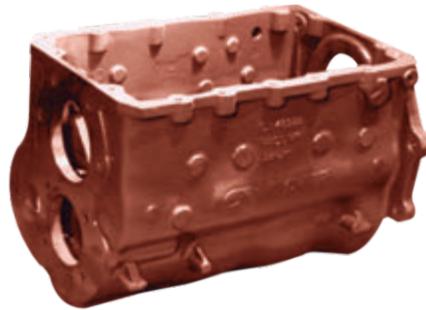
CASE TIMING GEAR



FLYWHEEL HOUSING



IMPELLER



TRANSMISSION CASE



ADDC HOUSING



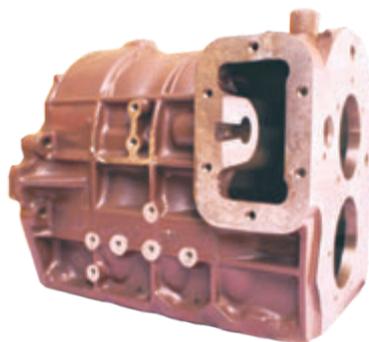
BRAKE DRUM



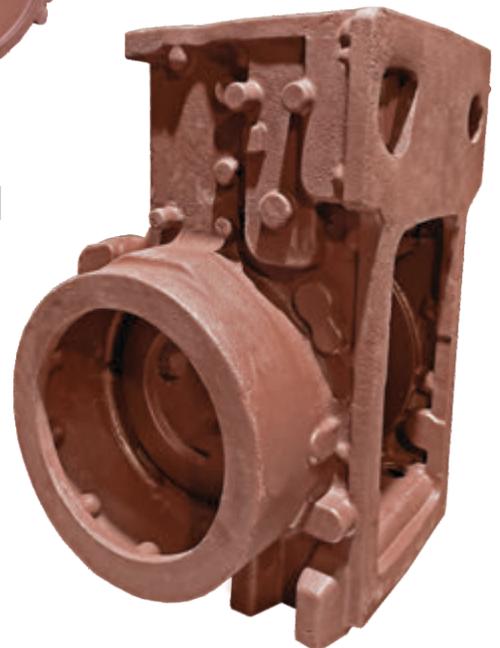
HSG. REAR AXLE CENTRE



CASING WATER PUMP



TRANSMISSION CASE



HOUSING REAR AXLE CENTRE

PRODUCTS



GREY IRON CASTING COMPONENTS



MOTOR HOUSING



BKT RETAINER



PLATE SEAL



MOTOR CAP



BKT BEARING



MOTOR SEAL



BKT BEARING



MOTOR CAP



BEARING HOUSING



HOUSING MOTOR

STEEL & HEAVY CASTING COMPONENTS



END SHIELD NDE



SUSPENSION TUBE TM 4303

PRODUCTS



STEEL CASTING COMPONENTS



STATOR CHAMBER



FRONT COVER



AXLE BOX HOUSING



BRG HOUSING



BRAKE SUPPORT



CENTERING DISC ASSLY



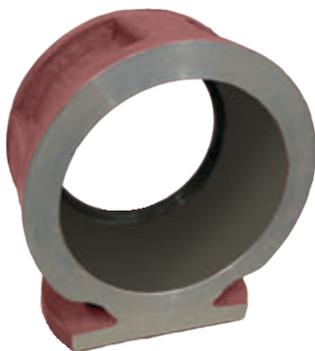
END SHIELD



SPRING POT



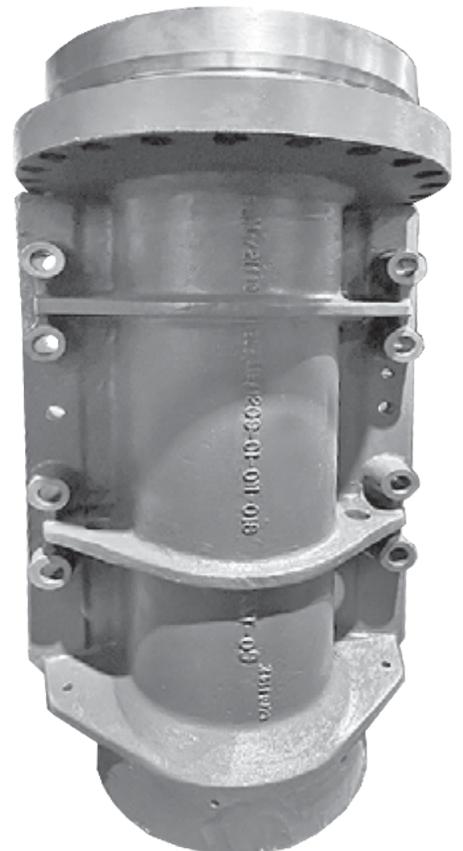
WHEEL



HOUSING



VENTILATOR (FAN)



SUSPENSION TUBE EXPORT

CLIENTS



INTERNATIONAL MOTORS LLC.



ESCORTS KUBOTA LIMITED



CRANE PUMPS & SYSTEMS



TAFE TRACTORS LTD.



CG POWER & INDUSTRIAL SOLUTIONS



BHARAT HEAVY ELECTRICALS LTD.



BAHART BIJLEE LTD.



VOSSLOH COGIFER SIGNALING INDIA PVT. LTD.



RAIL COACH FACTORY



JCB INDIA



INTEGRAL COACH FACTORY



CASE NEW HOLLAND CONSTRUCTION EQUIPMENT (INDIA) PVT LTD.



CHITTARANJAN LOCOMOTIVE WORKS
MODERN COACH FACTORY
BANARAS LOCOMOTIVE WORKS
PATIALA LOCOMOTIVE WORKS



SONA COMSTAR

SONA BLW PRECISION FORGINGS LTD



INDIAN ORDINANCE FACTORIES



GODREJ & BOYCE

SOLAR POWER PLANT

Porwal Auto Components Limited has diversified and have installed for Captive consumption 2 nos Solar Power Generation plants of 1.80 MW & 3.0 MW at Village-Karodia, Teh.- Tarana, Dist.- Ujjain (Madhya Pradesh), INDIA

The company plans to enhance power generation capacity up to 10 MW by 2030.





INDUSTRY OVERVIEW VIDEO

www.porwalauto.com



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