



# **Casing rings - Wear Rings - Special Sleeves** **for Pumps & Valves**

Products and capabilities

SAP Parts specializes in engineering solutions for friction management, offering high-quality products like Metal Face seals, Bushings, Sintered parts, Casing rings, and wear rings. These components are meticulously designed to outperform traditional alternatives, ensuring optimal performance and extended lifespan.

At SAP Parts, our goal is to continuously push the boundaries of engineering solutions, ensuring that our customers receive the best-in-class products that meet and exceed their expectations. With a focus on quality, durability, and innovation, SAP Parts is your trusted partner for all your friction management needs.

#### Company Strengths -

- Product Design , Development , Testing and Performance validation capabilities
- Innovation of Appropriate materials & Process suitable for application needs .
- Global Presence - Exporting to 14+ countries .



• SAP Parts - casing rings- wear rings for Pumps & Valves



SAP Parts is pioneer in designing and developing **precision Engineered** Innovative products with high quality material to suit the **Slurry Pumps & Valves applications**.

## Casing Rings & Wear Rings

SAP Parts manufacturers casing rings and wear rings for the centrifugal pumps Impellers and valves applications in variety of material grades .

### Product Range

SAP Parts can manufacture casing rings and wear rings from 45mm diameter till 1.5 mtr diameters in variety of material grades.

Range - 45mm till 1.5 mtr

### Centricast Process

SAP Parts have state of the art Centrifugal casting foundry where SAP Parts have uniquely designed and developed unique centricast process to centrifugal cast the rings in different diameters in variety of material grades .

### Heat Treatment

SAP Parts have inhouse process capabilities of heat treatment in order to achieve the desired micro structure and core hardness required in the rings .

- Q&T
- Solution Annealing
- Precipitation Hardening
- Stress Relieving Annealing
- Induction Hardening
- Carbo Nitriding
- Nitro Carburizing
- Vacuum Hardening

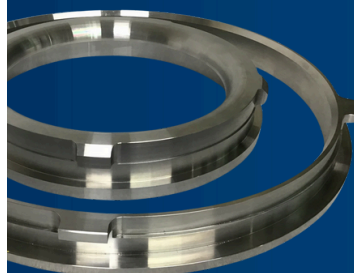
### Material Grades

Designed to withstand in high wear and abrasion environments . SAP Parts works in variety of material grades to mee the application requirements for Pumps and Valves applications .

SAP Parts can also develop and propose customised material grades as to match the customer application requirements .

The common materials used for the casing rings , wear rings and other pump parts are made out of Stainless steel with Ferritic - Carbodic , Martensitic , Austenitic and Ferritic Austenitic . Some of the material grades are as below

- |          |          |                         |
|----------|----------|-------------------------|
| • 1.4027 | • S32760 | • Ni- Hard Cast Iron    |
| • 1.4138 | • 1.4410 | • High chrome Cast Iron |
| • 1.4464 | • SS420  |                         |
| • 1.4470 | • 1.4581 |                         |
| • 1.4517 | • 1.4571 |                         |
| • 1.4980 |          |                         |



- casing rings > 600 mm diameter getting inspected at SAP Parts



## Shaft Protection Sleeve



• SAP Parts Shaft protection sleeves

## Shaft Protection Sleeve

SAP Parts manufacturers shaft protection sleeves for the centrifugal pumps and Impellers applications in variety of material grades .

### Product Range-

Length - 100 mm till 400 mm  
Diameter - 45mm till 150 mm

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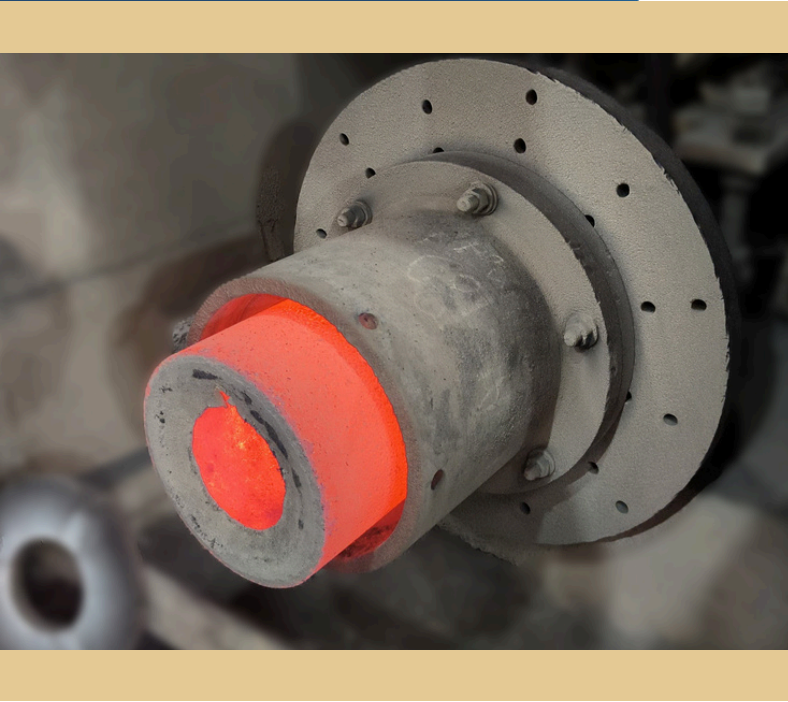
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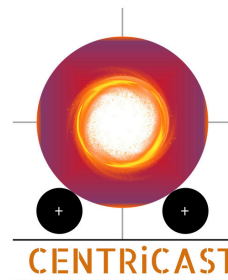
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## Manufacturing Capability Overview -

- Inhouse Centrifugal Casting foundry capable to cast rings till 1.5 mtr
- Capacity - 100T per month .
- Induction Furnaces
- In House Machining Facility - VTL , CNC machines
- Heat Treatment Facility - Induction Hardening , Carbo Nitriding , Nitro Carburizing , Vacuum Hardening etc
- Surface Treatments - DLC Coating , colomnoy Coating etc



## What are the main features/ benefits?

- Centrifugal casting provides high strength parts.
- Higher density grain structure .
- Even and uniform grain structure which provides equal mechanical properties in all directions .
- Shorter production cycle time .



- Machining , Annealing , Heat Treatment , Cryogenic treatment etc.

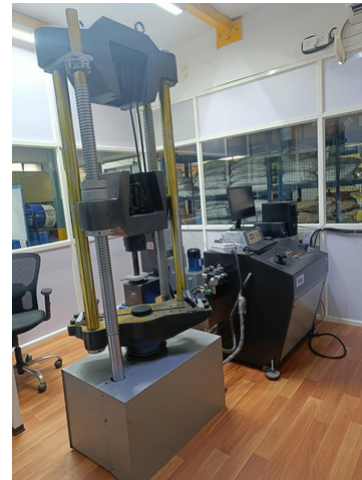
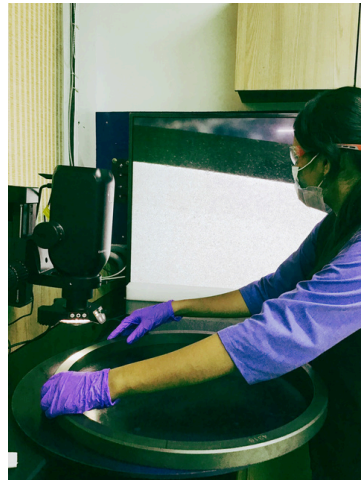
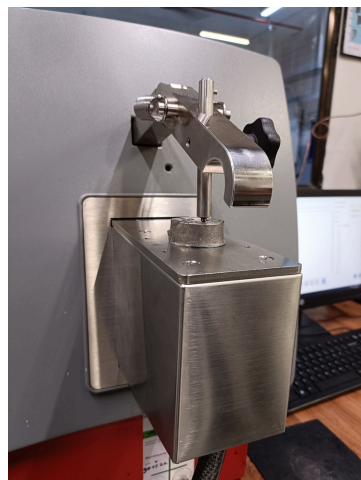


SAP Parts has a state of the art Quality Laboratory which is capable to check and test the component at various levels during manufacturing and post finishing of the components .

Our lab has the capability to perform Metallurgical analysis on a broad range of products from different types of material grades which goes in variety of applications. From sectioning and polishing specimens to view at a microscopic level, to full destructive testing such as Tensile, Charpy and ASTM G65 Dry Sand Abrasion, we provide test results that are backed by ISO 17025 accreditation.

## Overview

- Spectrometer
- Microscope
- Flatness Fixture , Roughness Measurement system .
- Dry Abrasion Tester
- Salt Spray Test Machine
- Charpy Test
- UTM , Brinell Harness Tester .



Contact SAP Parts  
globally to find a  
solution for your Pumps  
& Valves business.



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