

Press Forming Industry



SPAREAGE[®]
Sealing Solutions



ООО «ТИ-СИСТЕМС» ИНЖИНИРИНГ И ПОСТАВКА ТЕХНОЛОГИЧЕСКОГО ОБОРУДОВАНИЯ

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Introduction

SPAREAGE was incorporated in 1959 for manufacturing of Hydraulic and Pneumatic Seals and 'O' Rings. Over the years, Spareage has evolved as India's No.1 Seal manufacturer, catering to a wide spectrum of industries with different sealing needs. Spareage with its emphasis on Quality and Technology is ISO 9001-2000 certified and exports its seals and 'O' Rings to quality conscious markets in around the world. Having mutually enriching alliances with leading seal manufacturers and stockist in around the world.

Seals and 'O' Rings manufactured by Spareage are used for Original Equipment and Replacement application in - Steel Plants, Paper Plants, Cement Plants, Power Plants, Mining and Metallurgical industries etc. Spareage Sealing Solutions and 'O' Rings are used in Gear Boxes, Bearings, Pumps, Hydraulic and Pneumatic Systems, Construction and Mining Equipments, Hydraulic and Pneumatic Cylinders etc.

With a trained work force of more than 500 employees, Spareage is well equipped to service its widening client base of more than 4200+ customers worldwide. 50 years of experience in developing sealing applications, combined with the best technical expertise ensures that the technical Sales and Design team offer the best solutions to the customers. Spareage has the latest in computing systems and processes from the order booking stage to design, manufacturing and dispatch, ensuring quality and speed.

Head Office - Thane



SPAREAGE has always been at the for front of providing quality products and services to its customers. It has been its and over to reduce lead time for delivery of its seals, enabling its customers to reduce down time and cut costs.

Spareage Express Seals Division, is a one stop solutions for all your sealing needs from the simple 'O' ring to specialised seals upto 3000mm dia. With world class manufacturing and support, infrastructure, Spareage Express Seals can manufacture and deliver seals faster than any one else in India.

Spareage has invested in cutting edge technology and has:

- State-of-the-Art computer & IT systems
- CAD cam based design systems
- Latest in manufacturing machinery & process including Tool room, mouldings & testing facilities
- Skilled workforce

Spareage believes in servicing its customers and has:

- 24 hours Seals helpline
- Wide dealer network across the globe
- Dedicated Sales Team to ensure better customer experience



Spareage is the first Indian Seal manufacturer to use SAP - ERP. The implementation of SAP has accelerated the processing and decreased implementation cycles providing expertise, tools, and best practices that simplify testing, reduce customization and control operational risk and cost.

The SAP program runs on IBM servers with maximized security levels and multi-layered back-up systems that ensure data integrity and availability. This combined with dedicated leased lines and other back-ups ensure 99.99% uptime, connecting the facility to the head office and distributors across India. Plans are under way to extend connectivity to Spareage customers as well.

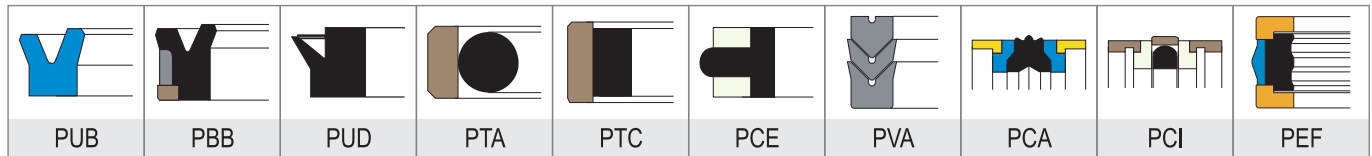
Production Facility - Thane



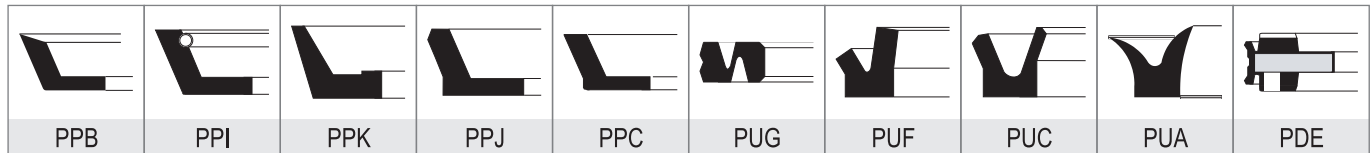
Product Line

Spareage Product Line for Press Forming Industry -

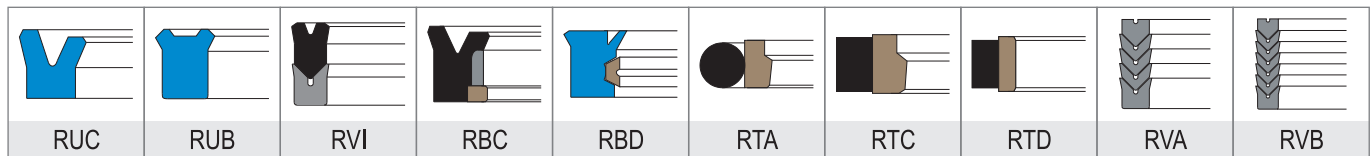
Piston Seal - Hydraulic



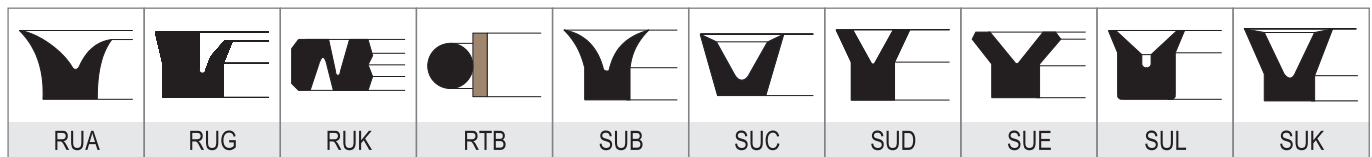
Piston Seal - Pneumatic



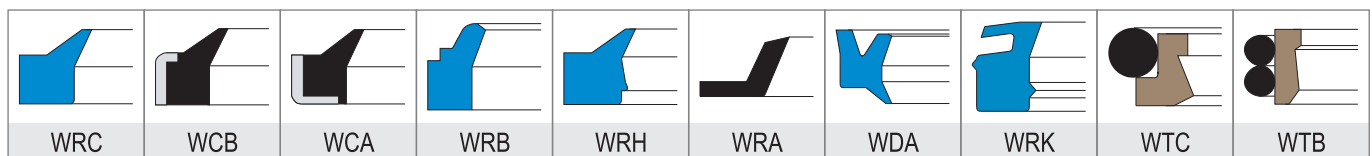
Rod Seal - Hydraulic



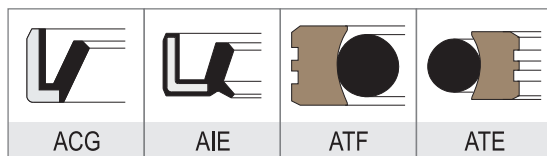
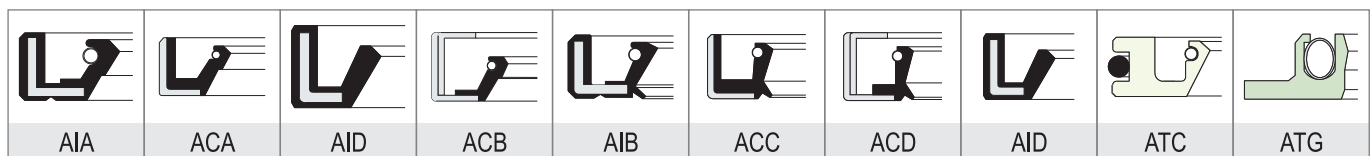
Rod Seal - Pneumatic



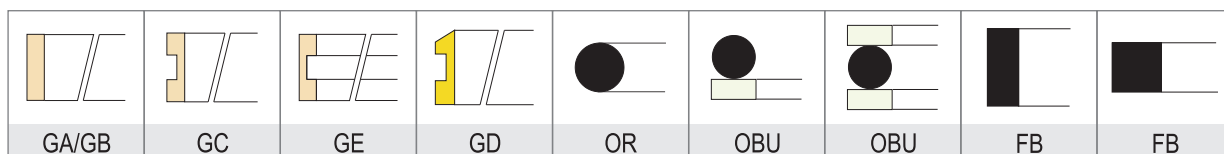
Wiper Seals - Hydraulic & Pneumatic



Rotary Seals



Guide & Back-up Rings



Application



Heavy Duty
Presses



Mechanical
Stamping
Presses



Hydraulic
Presses



Forming
Presses



Forging
Presses



Aluminium
Extrusion
Presses

Spareage Sealing Solution for presses in different industries

Spareage having capabilities to produce seals upto 3 mtr. dia in-house in elastomers and thermoplastic material. This facility make us capable to cater heavy duty and robust segment.

Reliability, high performance, longer working life are the need of these industries. Spareage understand these needs and with its expertise, capacity to produce high performance sealing solutions for -

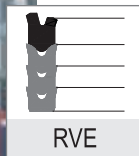
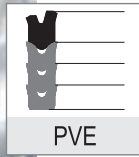
- Heavy Duty Presses
- Hydraulic Presses
- Mechanical Stamping Presses
- Forming Presses
- Forging Presses
- Aluminium Extrusion Presses

Since years, Spareage had become reliable partner in Press Forming Industry and had sharing its expertises in this segment. The following are the branches of industry for Press Forming -

- Automobile Industry
- Automobile Ancillary Suppliers
- Forging Industry
- Aluminium Extruded Parts
- Steel Industries
- Plywood forming
- Ceramic Tiles
- Vulcanise components



Press Application



Heavy Duty Press

Heavy duty V-packing used in presses for Rod & Pistons. A set consists of one pressure ring, one support ring and multiple sealing rings. These V-packings are available in cotton fabric with NBR or FKM and polyurethane.

Features -

- Long service life
- Robust under heavy duty conditions
- Adjustable centre rings as per length requirement
- Split version also available
- Sizes upto 3 mtr. dia



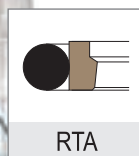
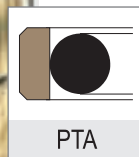
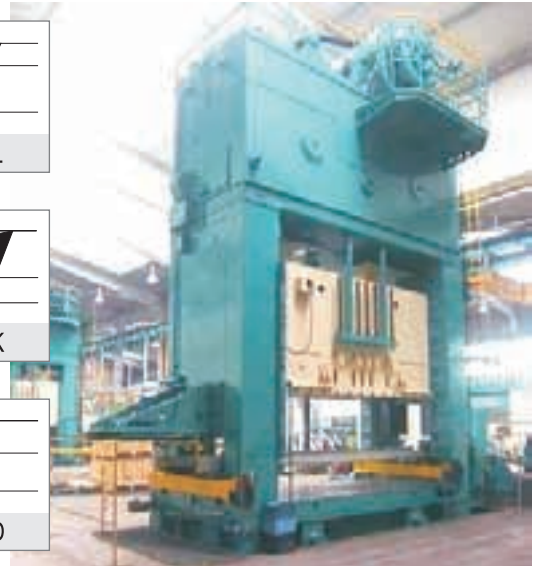
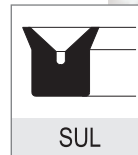
Split Style

Mechanical Stamping Press

Use in Automobile & Auto Anxillary units for vehicle body stamping process. These presses are equipped with clutch & brake. Pneumatic seals are used in this equipments due to low pressure operations.

Features -

- Low Friction
- Long service life
- High abrasion resistance
- Size upto 2 mtr dia.



Hydraulic Press

Medium and heavy duty hydraulic presses are used in all the industrial sectors. Standard V-packings and other hydraulic seals are used in combination for these applications.

Features -

- Long service life
- Stick slip movement
- Low friction
- Seals up to 1 mtr. dia

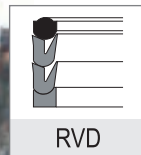
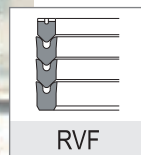
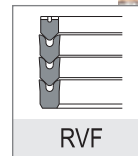
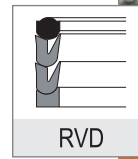
Press Application

Forming Press

Heavy duty V-packing set is use in forming press application. It has a sealing lip profile specially developed to withstand the massive side loads and high pressure peaks encountered on forming presses.

Features -

- Low Friction
- Long service life
- Optimum equipment performance
- Size upto 3 mtr. dia



Forging Press

Heavy duty V-packing set is highly driven on forging press applications. It has a sealing flip profile specially developed to withstand the massive side loads and high pressure peaks encountered on forging presses.

Features -

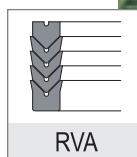
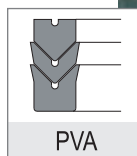
- Low friction
- Long service life
- Reduced leakage
- Size upto 3 mtr. dia.

Aluminium Extrusion Press

Horizontally operated Aluminium Extrusion Presses having V-Packing set on the piston seal and rod end. Thus V-Packs are subjected to sliding speed and high pressure.

Features -

- Long service life
- Adjustable centre rings as per length requirement
- Optimum equipment performance
- Sizes upto 2 mtr. dia

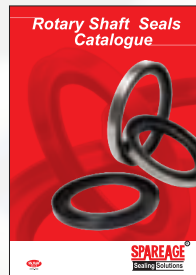


CORE BUSINESS



HYDRAULIC SEALS

- More than 6000 std. sizes.
- Wide range of seal profiles.
- Medium & heavy duty application.
- Mould available up to 2 mtr. Dia.
- Extended information..



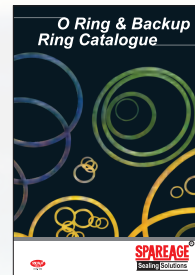
ROTARY SEALS

- More than 7000 std. sizes.
- Wide range of seal profiles.
- Mould available up to 2 mtr. Dia.
- Extended information.



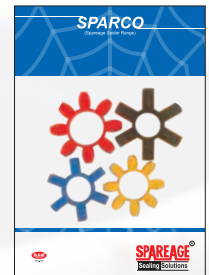
PNEUMATIC SEALS

- More than 4000 std. sizes.
- Wide range of seal profiles.
- Extended information.



O-RINGS

- Listed more than 7000 B.S sizes.
- JIS standard also available.
- Orings available in NBR & FPM matl.



SPIDER RANGE

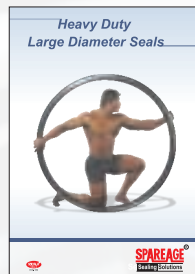
- All std. sizes available with 6 different profiles.
- Mechanical Flexibility.
- Available in NBR and PU matl.
- Metal coupling available.
- Protection against overloads.

COMPANY FACILITIES



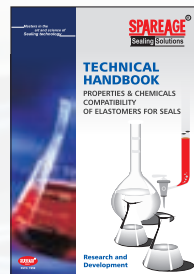
Production Site

- Delivering 30,000 types of standard seal profiles in 1 hour.
- More than 100 specific seal profiles in sizes of upto 300 mm dia. within 8 hours.
- Express seals helpline.
- Metal Seals upto 200 mm in 24 hrs.



LARGE DIA SEALS

- Mfg.seals upto 4000 mm. in various elastomer compounds.
- Services to MRO & OEM Mfg.
- Large size dia making on VTL.
- High tonnage presses.
- Large size metal & rubber moulding.



Tech. Support

- Reverse Engineering.
- Indigenization & Import substitution.
- Endurance testing.
- Polymer & Compound testing.

PROVIDING SEALING SOLUTIONS



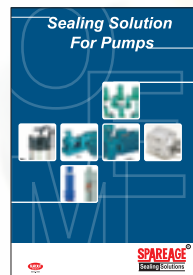
Steel Mill



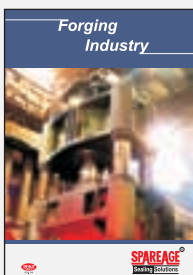
Oil & Gas



Food & Pharma



Pump & Motor



Forging Presses



Cement



Wind Mill



SPM & Engineering

Segments -

- Automobile Industry
- Aluminium Industry
- Cement Industry
- Chemicals & Fertilizers
- Earth Moving Equipment
- Engineering & Fabrication
- Food & Pharma
- Presses
- Hydraulic Cylinder Mfg.
- Oil & Gas
- Pulp & Paper Mills
- Pharmaceutical
- Pneumatic Cylinder Mfg.
- Power Plant
- Press
- Pump & Motor
- SPM & Engineering
- Steel Mills
- Sugar Mills
- Textile
- Tyre Industry
- Valve Mfg.
- Wind Mills