

The image shows a large industrial factory with high ceilings, skylights, and various machinery. A large orange circle on the left contains the CARCO logo and the text 'PRECISION RUBBER PRODUCTS'. A white circle on the right contains the text 'company presentation'.

CARCO[®]
PRECISION RUBBER PRODUCTS

company
presentation

CARCO[®]
LARGE DIAMETER SEALS

CARCO - PRECISION RUBBER PRODUCTS S.p.A.
20060 Basiano (MI) - Via U. Foscolo, 2/4 - Italy - T. +39 02 95760331
sales@carcoprp.com - www.carcopr.com

PRP[®]
PRECISION RUBBER PRODUCTS

Overview

CARCO-PRP belongs to a group of companies with more than 350 people operating in different Countries.

CARCO-PRP headquarter and manufacturing facilities are in Basiano, Italy.

Other sales offices are in:

- Hamburg (Germany)
- Marseille (France)
- Cleveland - Ohio (USA)
- Shanghai (China)

CARCO-PRP is a global supplier offering a variety of sealing solutions with different profiles and materials.



More than a century of experience

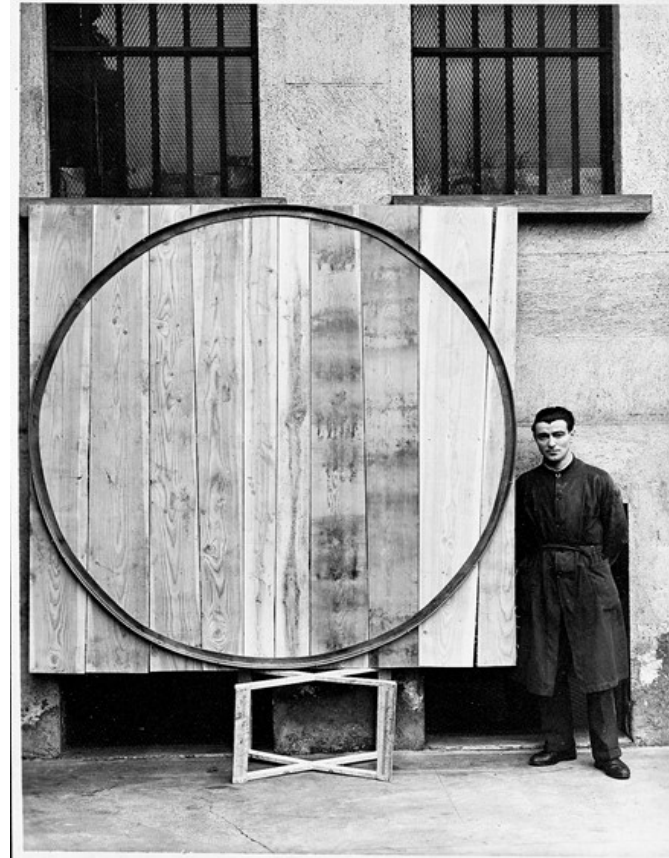
From leather seals for hydropower plants in the Alps back in year 1900 to today's giant seals for Tunnel Boring Machines.

This is the CARCO evolution in more than a century.

Never compromising on quality, we have been manufacturing:

- fabric reinforced rubber seals
- thermoplastics seals

for rotary and hydraulic applications with no limit in diameter.



The company

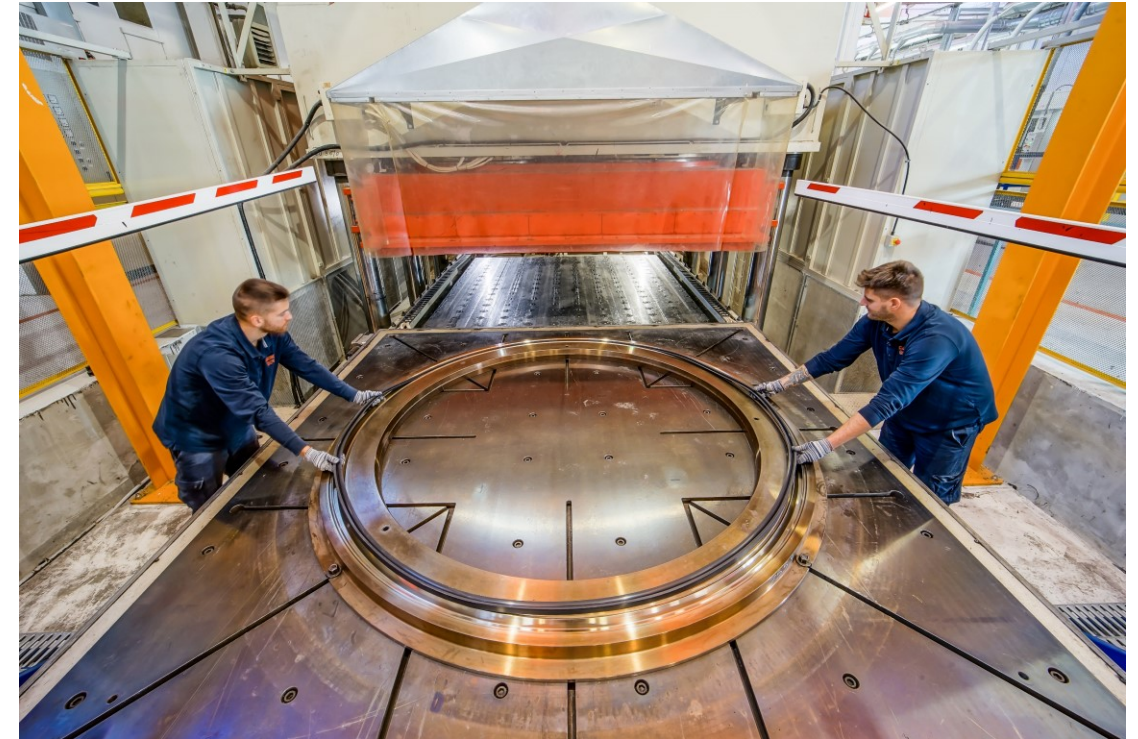
A team of motivated people offering sealing solutions for critical applications.

Solving the problems of heavy industry large diameter machinery:

- Tolerances
- Eccentricity
- Roughness
- Need of split seals
- Re-usable seals after disassembling

We have one of the largest hydraulic presses in the world to vulcanize rubber seals:

- Endless seals up to 3 meter diameter
- Larger Seals with hot joint



State of the art manufacturing

PLC controlled moulding presses

Quickness and flexibility:

- 3 weeks standard delivery time
- Up to 48 hours for rush orders

On time delivery:

- Visual factory approach
- Working time flexibility

CNC giant lathe machine of 3 meter diameter for giant thermoplastic seals.



Industries



HYDRAULIC CYLINDERS



HYDRAULIC PRESSES



HYDROPOWER



SHIPBUILDING



TUNNELLING



WINDPOWER

Industries



STEEL INDUSTRY



AEROSPACE



PHARMA



FOOD & BEVERAGE



OIL&GAS



CHEMICAL

Product range

Rotary shaft seals:

- Fabric reinforced and full rubber
- PTFE with energizer
- Low friction polyurethane



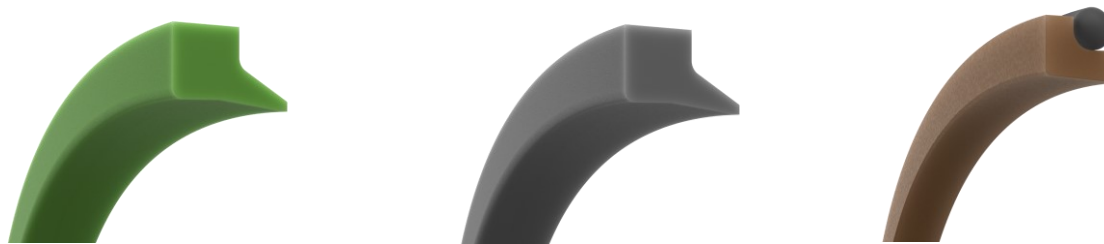
Hydraulic seals:

- Fabric rubber V-packings
- PTFE with energizer
- Low friction polyurethane
- UHMW-PE



Wipers:

- Fabric reinforced and full rubber
- Low friction polyurethane
- PTFE with energizer



Product range

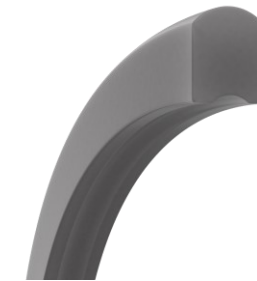
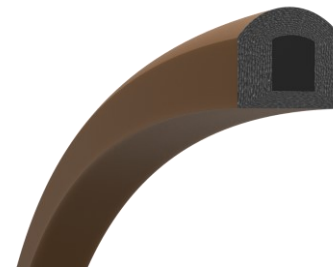
Spring energized seals:

- PTFE jacket with fillers
- Stem packings
- Elgiloy springs of various profiles



Static and semi-static seals:

- Fabric reinforced and full rubber
- Low friction polyurethane
- Other materials



Guiding systems:

- Guide rings
- Guide bands
- Flat sliding parts
- Various shapes



Inflatable seals:

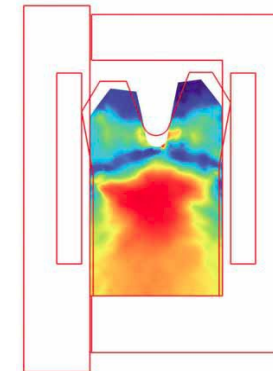
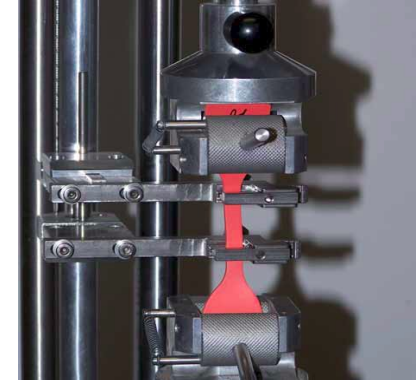
- Fabric reinforced and full rubber



R&D – problem solving

How we solve a sealing problem:

- Our people
- More than 100 years of experience
- Evaluation test on test-rig
- FEA models
- Co-design with customers



Quality assurance

ISO 9001 certified since 1992

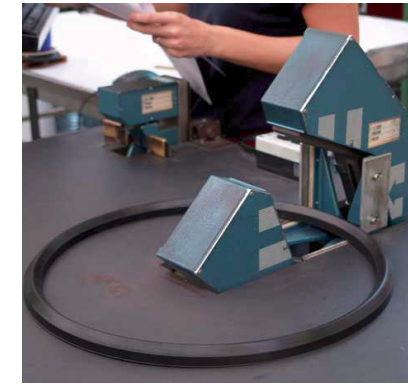
Moulding processes PLC controlled

100% visual and dimensional inspections

Full traceability records

Individual packaging and labelling

Dedicated quality control plans



Why CARCO Precision Rubber Products?

FAST REACTION

FROM SMALL TO GIANT SIZES

WORLDWIDE NETWORK

MOLDED AND MACHINED SEALS

TECHNICAL SUPPORT

ENDLESS AND SPLIT SEALS

Ready to recommend the most suitable seal



THANKS

CARCO[®]
PRECISION RUBBER PRODUCTS

CARCO[®]
LARGE DIAMETER SEALS

PRP
PRECISION RUBBER PRODUCTS



AUTHORIZED DISTRIBUTOR OF
CARCO[®]
LARGE DIAMETER SEALS

BEST PRODUCTS WITH
BEST CUSTOMER SUPPORT

 +91 8793142374

 sales@radiancehydraulics.com

 www.radiancehydraulics.com

 Radiance Hydraulics, Office No.: 412, B Zone,
Old Mumbai-Pune Highway, Pune-411018, India



Customer service + Innovation



MISSION & VISION

To equip the customers with the ultimate end to end solution by providing standard as well as customised products and services.

Be a world leader in engineering and technology who delivers the most reliable, cost-effective & quality products & services.

Factors why you can count on us ?

COST-EFFECTIVE

DELIVERY TIME

QUALITY PRODUCTS

SERVICE & SUPPORT

Radiance Hydraulics design the cylinders based upon the customer's requirements which includes working into special environmental conditions considering factors like temperature, medium, position indicator, and extreme forces, where it shall be used in order to withstand the toughest conditions which enhances a notable response from our customers.

INDUSTRIES WE DIVE IN



HYDROPOWER



HYDRAULIC PRESS

STEEL INDUSTRY



AEROSPACE



INDUSTRIAL



OIL AND GAS



PHARMA

SHIP BUILDING



TUNNELING



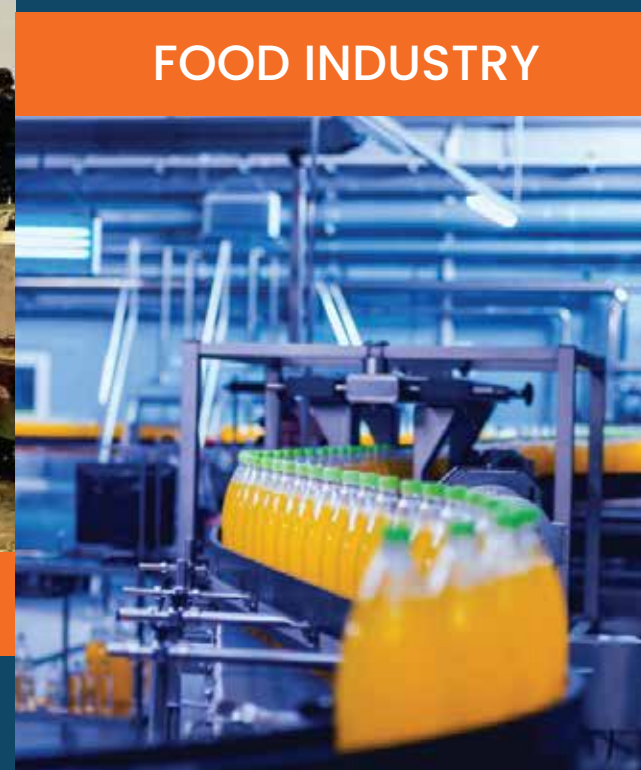
WIND POWER



CONSTRUCTION



DEFENCE



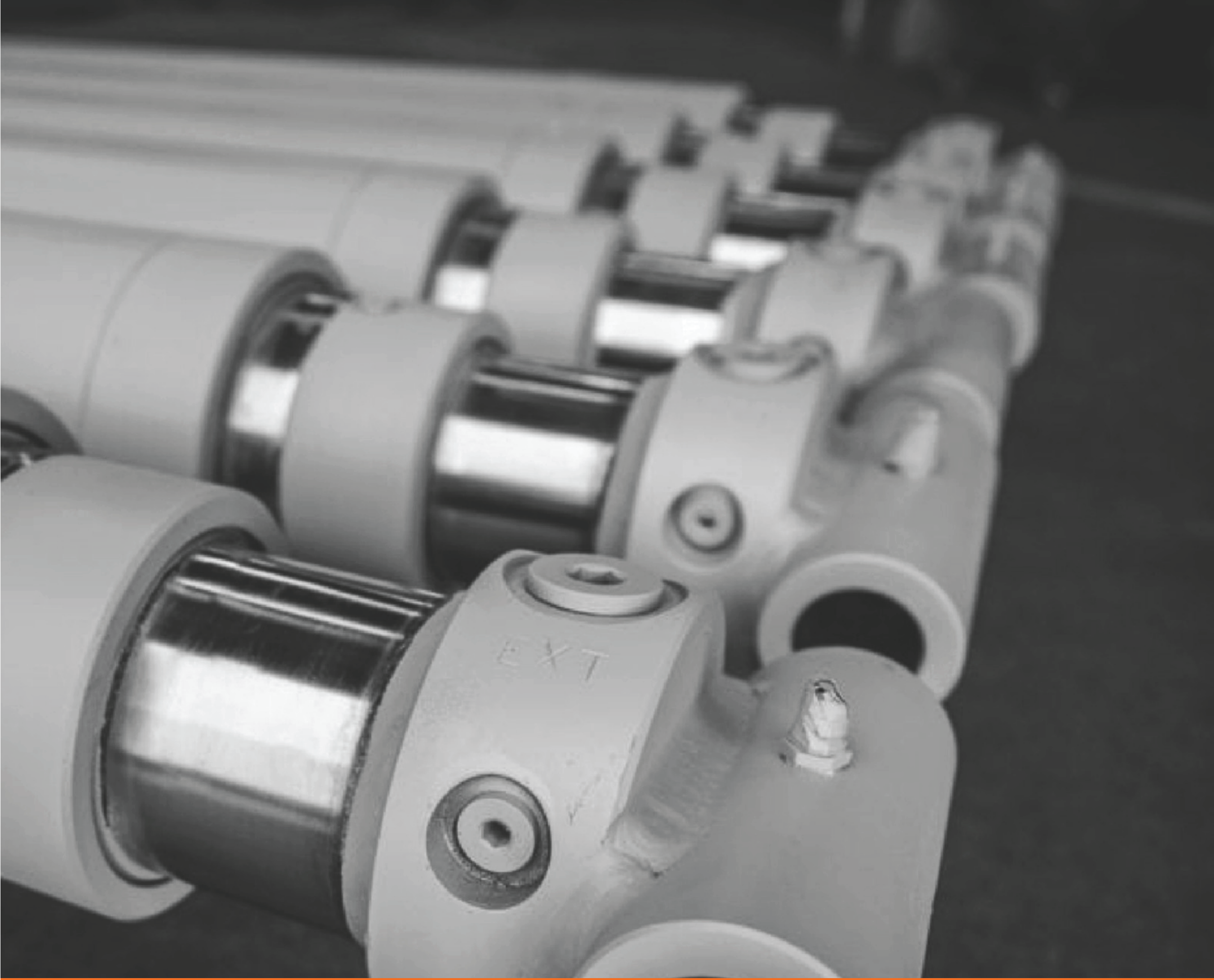
FOOD INDUSTRY



CHEMICAL



CUSTOMIZED SEALS



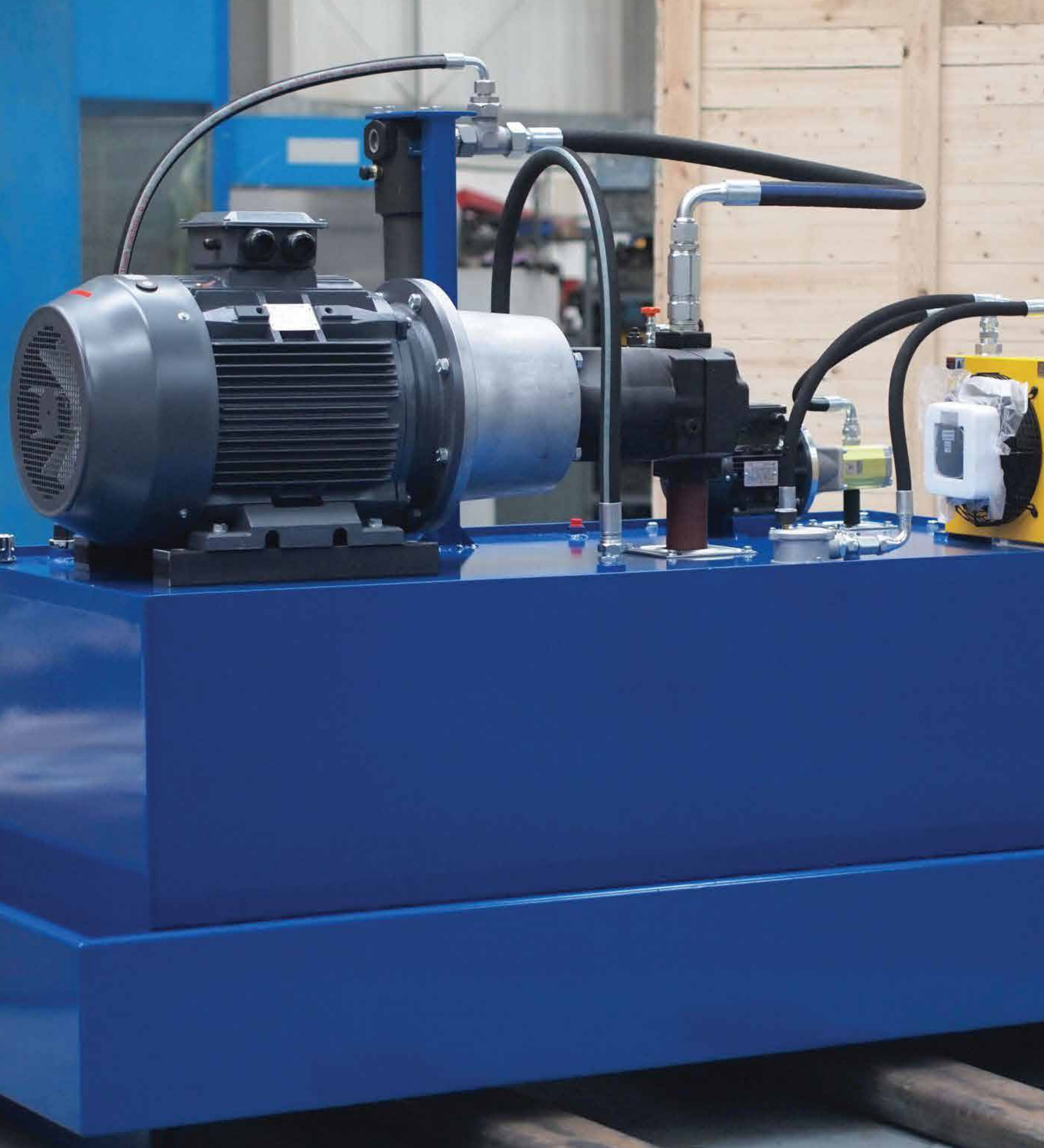
Products

1. HYDRAULIC CYLINDERS

- Mill type hydraulic cylinders
- Tie rod cylinders
- Multistage Telescopic hydraulics cylinders
- Special application cylinders
- Pneumatic cylinders

”

We are specialized in designing and manufacturing of tailor made Hydraulic Cylinders for different application with robust design. Our partners sealing technology partners, **CARCO-PRP** from Italy, helps us in making our products more efficient.

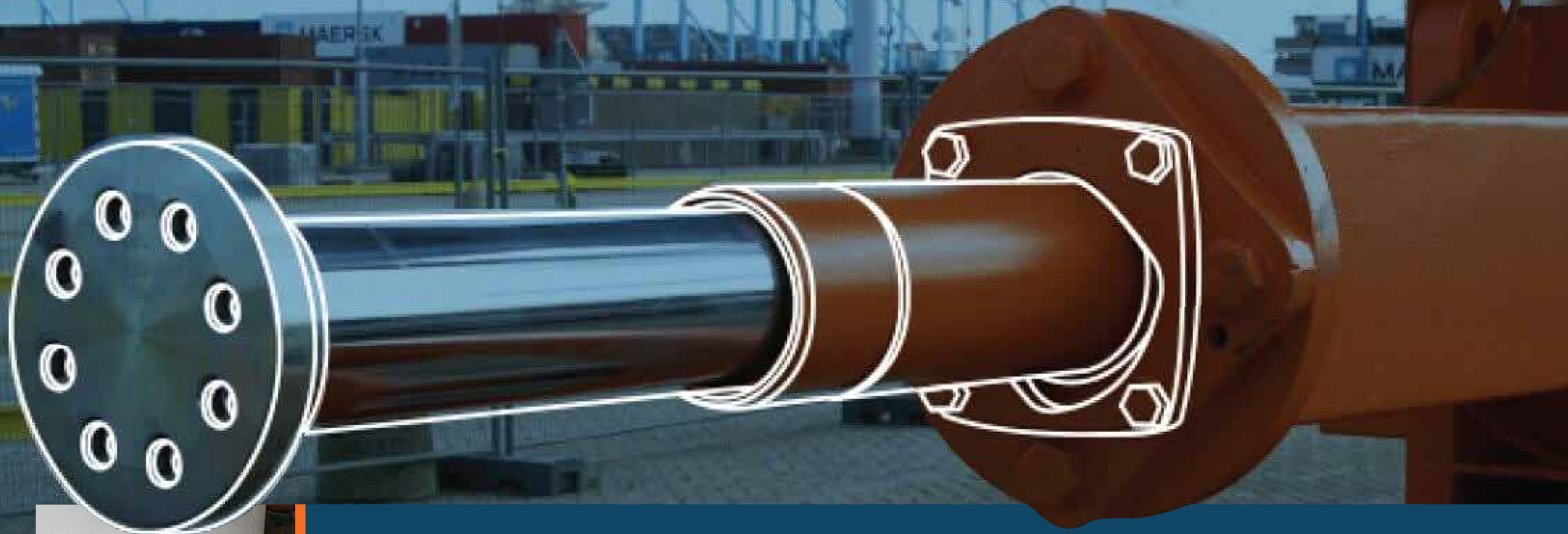


Products

2. HYDRAULIC POWER PACK

”

We are engaged in manufacturing and supplying Hydraulic Power Pack. The power packs are built with hydraulic elements of reputed makes with international mounting and manifold style valve assembly. Power packs with proportional/servo valves and variable displacement pumps are available. They can be provided with the electrical relay/PLC/CNC control systems too. Complete turnkey projects are undertaken.



3. HYDRAULIC BUFFER (Heavy duty shock absorber)

Heavy duty shock absorber was designed with gas-charged return system. This series product has very strong energy absorption capacity for single shock, particularly suitable for safety stop of large or super large equipments.

Heavy Industry shock absorbers are widely used in Cranes, Rail equipments, Steel Industry, Coal, Railway & other fields. Large-Bore & High energy capacity design ensures reliable energy absorption capacity and long service life.



HYDRAULIC SPARES

- Honned Tubes
- Hard Chrome plated Piston Rod
- Piston
- Hydraulic & Pneumatic seals

”

Large expertise and best seal quality are essential to withstand the extreme working conditions of this environment and to avoid unplanned machinery shutdown.

REFURBISHMENT AND MAINTENANCE



We offer a free inspection and quote service for hydraulic cylinder repair, to decide the scope of work :

- Conduct a full assessment of the equipment
- Decide the best possible course of action
- Assess how many parts can be salvaged
- Decide if it is cost effective to carry out complete hydraulic cylinder repairs.
- We then suggest the best possible solution for it.

Applications

STEEL MILLS

We have a vast experience in steel industry. More than 20 steel plants in India are depending on our cylinders today.

Considering the robustness of the application, we manufacture variety of hydraulic cylinder for various sectors of steel industry like CRM, HRM, SMS, CASTERS, WIRE ROD MILLS, BLAST FURNACE etc.

We have designed, manufactured and repaired various cylinders for vivid applications like :

- Walking beam cylinders
- HAGC Cylinders,
- Roll Force Cylinders
- Cylinders with internal LVDT,
- Cylinders for critical and high temperature applications etc.





Applications

CEMENT MILLS

Cement mill application uses many strategical equipments which are actuated by hydraulic cylinders, hence Radiance Hydraulics supplies special cement mill cylinders with exact seal selection according to the application and environmental condition to avoid early scorings and extends life to serve the purpose.

Applications

HYDROPOWER

Our cylinders have performed efficiently in various hydro power projects in India, Vietnam, Nepal etc. Our customers consider our products for various applications like;

- Valve operating Hydraulic Servomotor
- Cylinder for lock gates, inlet gates etc.





Applications

HEAVY FORGING

Large linear forces for the pressing movement are ensured by precisely designed hydraulic cylinders, each of which applies forces of up to 10,000 t. This allows processes such as forming, bending, stamping, clamping, or compressing to be performed with millimeter accuracy. Backed by our sealing partner CARCO-PRP from Italy, we have a firm support in seal selection for large diameter rams.

Applications

SHIPBUILDING & PORTS

The handling equipment of port use different kind of hydraulic cylinders.

1. Gantry: autonomous hydraulic cylinder (fitted with a power pack) for the tensioning of cables
2. Port cranes: boom lifting cylinders



STATE OF ART MANUFACTURING FACILITY



Machinery

- Lathes Machines
- Radial Drilling Machines
- Milling and Drilling Machines
- Plasma Cutting Machine
- Slotting Machine
- Arc Welding Machines
- Bandsaw Machine
- Sander Machine
- Hydraulics Bending Machine
- Pipe Bending Machine

Utility

- EOTS
- JIB Crane
- Chain Block
- Hydraulic Lifting Machines
- Generators

Testing

- Hydraulics Testing RIG - 700 Bars
- Pneumatic Testing RIG -14 Bars

Design

- 3D Modelling Solid Edge ST-4
- AUTOCAD

THANK YOU

📍 OFFICE ADDRESS

Office No.: 412, B Zone
Old Mumbai-Pune Highway,
Pune-411018, India.

📍 PLANT ADDRESS

Sector 1, Plot no 3,
Vasai Taluka Industrial Estate,
Gauraipada, Vasai (East),
Thane - 401 210.