



# Sugar

[rossi.com](https://rossi.com)





# Solutions for an evolving industry

In the global marketplace, our customers, investors, partners value our products and services for two reasons: excellence and reliability. At Rossi we have made of change a strategic lever for our growth. "Solutions for an evolving industry" fully expresses our corporate philosophy: we are a flexible and dynamic reality, able to satisfy all requirements of a continuously evolving industrial world thanks to our innovative solutions.

## **Cutting-edge manufacturing**

When it comes to high-performance and ground precision gear manufacturing, technology and experience are everything. Cutting-edge technology without experience can limit the benefit the final product has for the end user which is why we continue to take pride of our work. Cutting-edge technology can be bought, but how you control it is earned through experience.

## **Specialized housing machining**

High performance needs to be supported with important equipment and knowledge. For this reason, we dedicate special attention to machining all components, including housings for big sizes. High quality standard requirements can be reached using cutting-edge technology.

## **Test controls**

Systematic, extensive controls on every stage of the process (from materials to final controls under load using computerized brakes at the end of the assembly line) and their productivity allow quality to be produced and not just achieved through selection, and permit monitoring and improving the process itself. In addition customers can trust our solutions which have been fully tested and run in our testing room, being operationally certified before on site commissioning.

# Leading through excellence and innovation

With years of experience in the design, manufacture and commissioning of gear reducers and gearmotors, we are among the world leaders in the supply of these products to the sugar industry.

Over the years, the excellence that has always distinguished our products has allowed us to establish important partnerships with leading groups in the industry.

## High quality products

Experience and know-how have led us to become a reference supplier for the high-quality products we realize, in combination with specific turnkey solutions mainly used in heavy-duty industry applications such as those found in sugar processing. For over 60 years we have understood that experience in sector like this is a key factor to develop solutions for the future.

## The power of knowledge

Experience and knowledge does not only mean to know what is needed in the specific application, but also how to support customers during all design and dimensioning phases. We continue to develop our experience and share our knowledge that is relevant to machine builders today no matter what the application is.

The information that we make available include:

- expected bearing life calculation;
- finite element analysis;
- torque calculation;
- shared design capabilities with customers.

In Rossi we share our know-how to support every kind of application and exigence.



# Global presence local service



## Local support

Sales, customer service,  
technical support, spare parts



**18 branches\***



**Worldwide distribution network\***



\*All contacts available on [www.rossi.com](http://www.rossi.com)



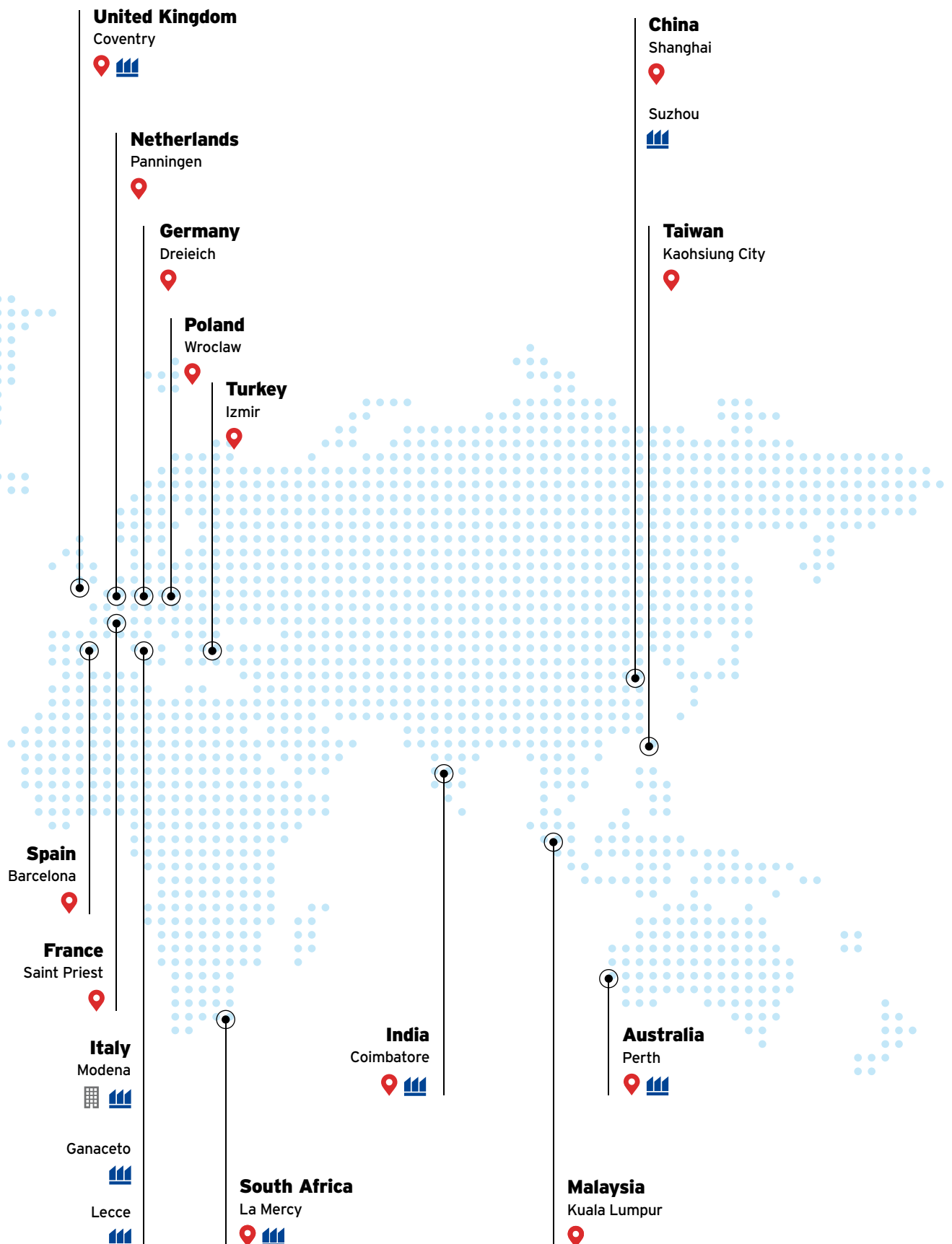
Main offices



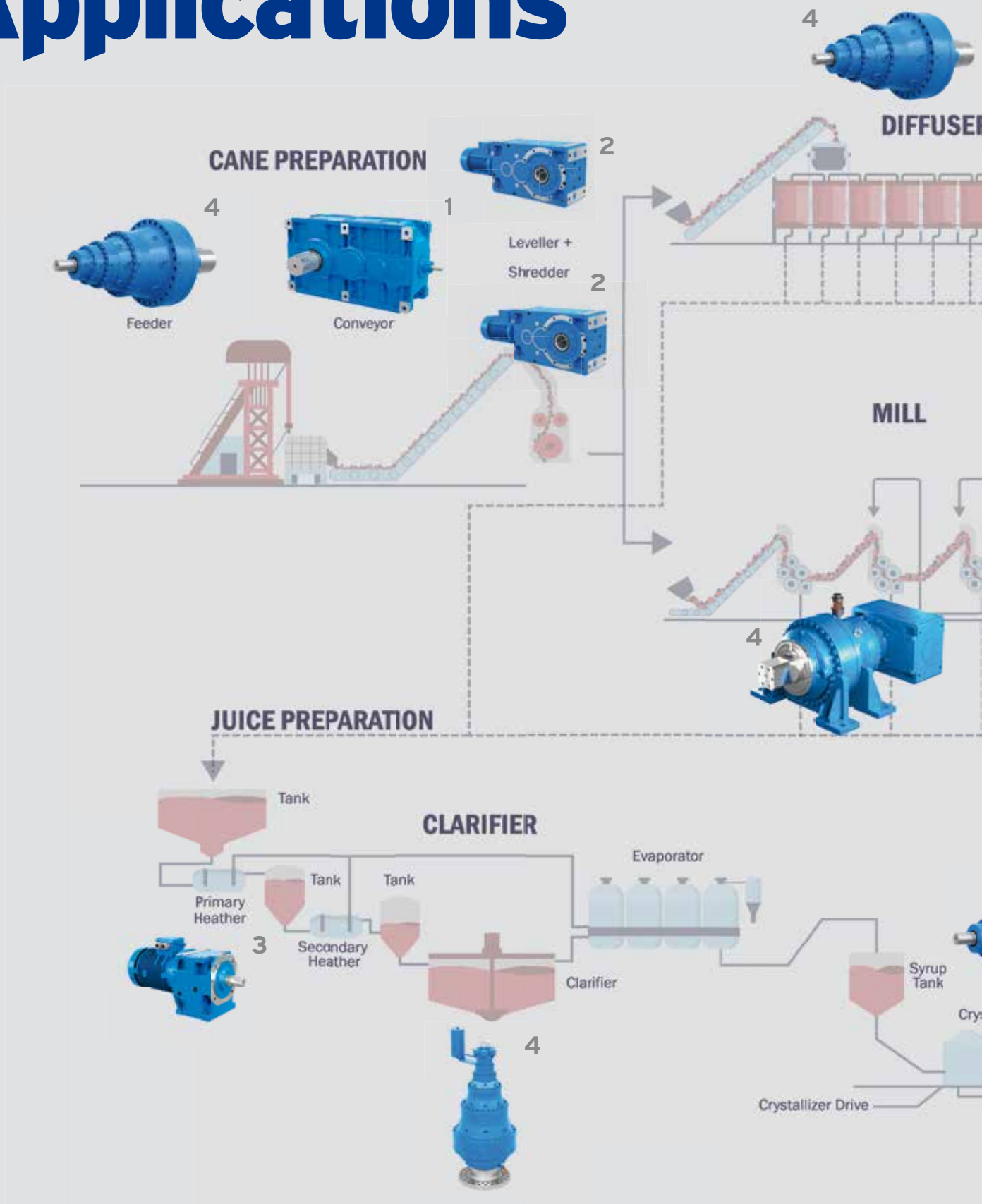
Affiliated companies



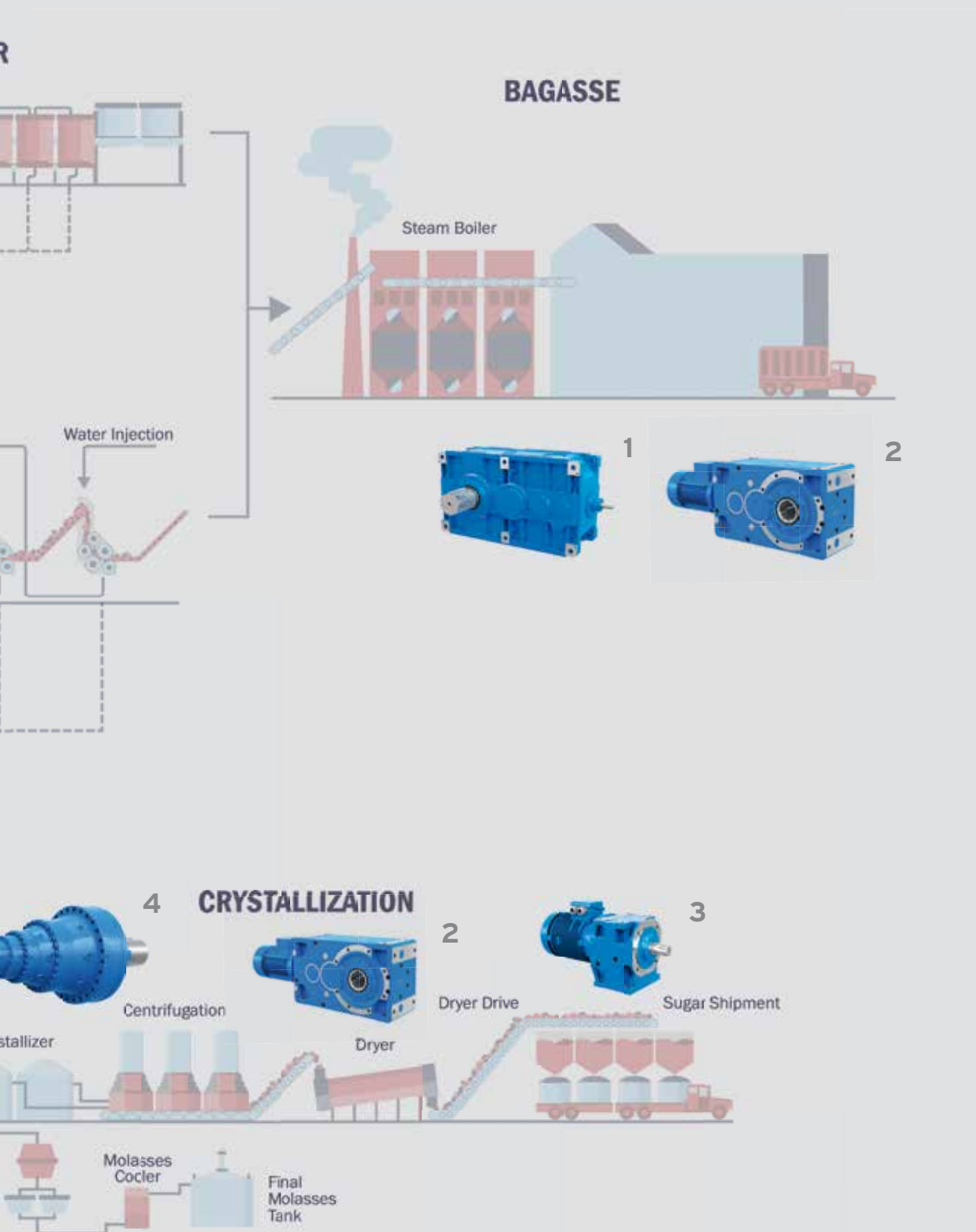
Production facilities/Assembly plants



# Applications



1	<b>H series</b> , Helical & bevel helical gear reducers
2	<b>G series</b> , Helical & bevel helical gearmotors
3	<b>E series</b> , Coaxial gearmotors
4	<b>EP series</b> , Planetary gear reducers & gearmotors



# Rossi products for sugar industry



## E Series

Coaxial gear reducers & gearmotors

16 sizes 32 ... 180

Nominal torque up to 10.000 N m

- IEC input motor flange as standard
- Helical gears with ground profile
- High structural stiffness
- Two possible shaft heights allowed (feet on 2 faces)
- Taper roller bearings for size  $\geq 125$
- Metal plugs \*
- Viton seals \*



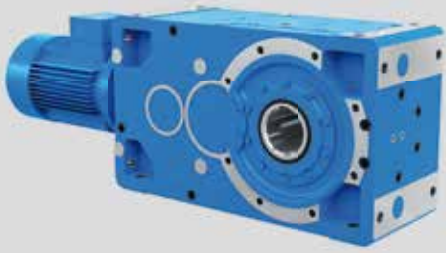
## EP Series

Planetary gear reducers & gearmotors

24 sizes 001 ... 3000

Nominal torque up to 3.000.000 N m

- IEC input motor flange as standard
- In-line and right-angle configuration
- Suitable for flange, foot or shaft-mounting
- Metal plugs
- Viton seals



## G Series

Helical & bevel helical  
gear reducers & gearmotors

20 sizes 40 ... 401

Nominal torque up to 103.000 N m

- IEC input motor flange as standard
- Symmetrical cast iron housing
- Helical gears with ground profile
- High structural stiffness
- Wide range of accessories
- Split housing in welded steel (as option, on demand, sizes 200 ... 360)
- Metal plugs \*
- Viton seals \*



## H Series (Heavy Duty)

Helical & bevel helical gear reducers

12 sizes 4000 ... 8001

Nominal torque up to 1.000.000 N m

- Helical gears with ground profile
- Nodular cast iron split housing
- Wide range of painting cycles \*
- Metal plugs
- Viton seals \*



## Combined Units

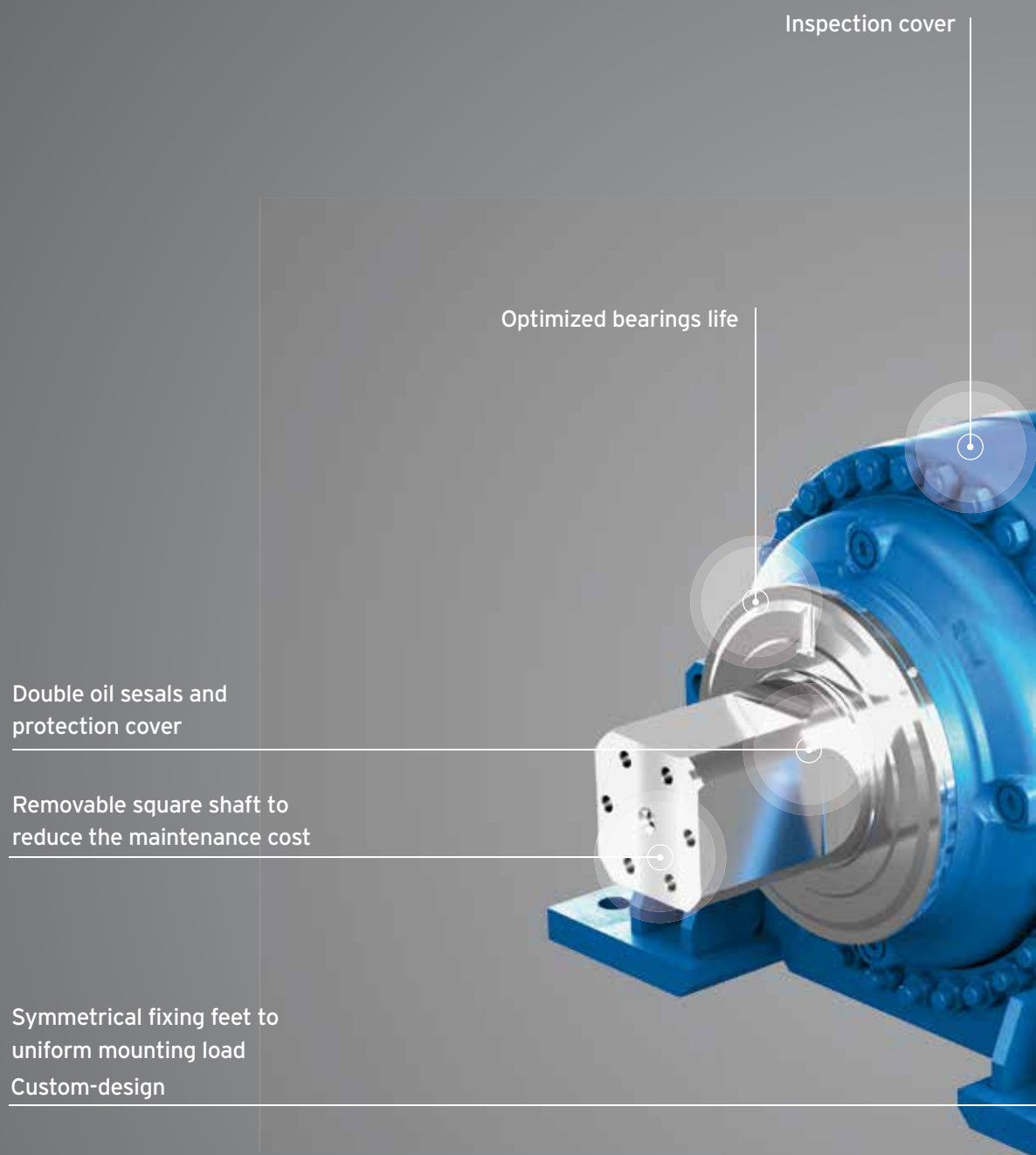
Planetary + Bevel helical & helical gearmotors

Nominal torque up to 3.000.000 N m

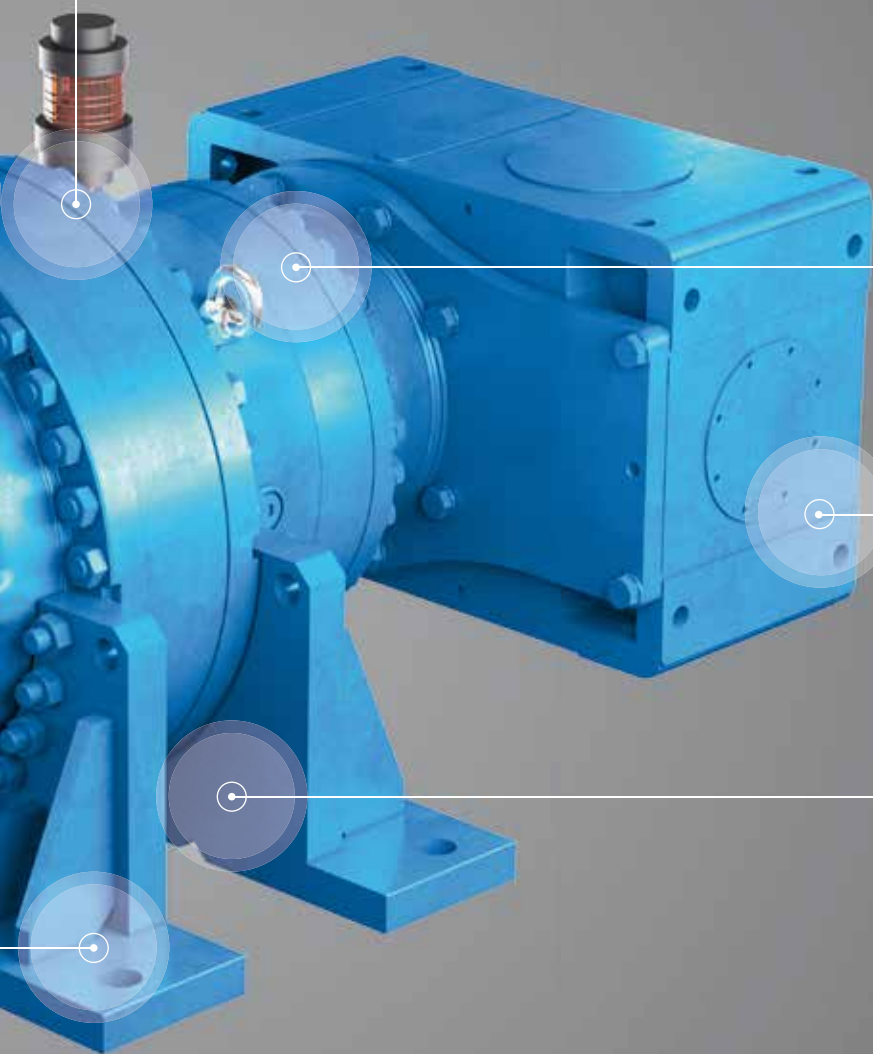
- Increased thermal capacity
- Low installation and maintenance costs
- Compact design
- Reduced wear

\* optional

## Cutting-edge technology



3, 4 & 5 satellites with  
total ratio in only 3 stages



Double oil seals and  
protection cover

Helical input to increase  
oil capacity oil seals and  
protection cover

FEM analysis to minimize  
the vibrations

## Transmission drive for sugar cane mills

- Flexibility
- Reliability
- Reduced plant downtimes



### Our customized solutions

# Ask us whatever you need

Modularity can be considered the foundation of Rossi. Modular products and “modular” processes allow us to engineer a solution for almost every industrial application requiring a gearmotor or gear reducer. To us, modularity means flexibility, wide range of options, faster delivery, and most important of all, competitiveness. Even more it allows for assemblies in any assembly facility with almost limitless configurations allowing us to deliver solutions, regardless if it comes to supply a standard unit or an engineered one, in a cost effective manner.

This capability is made possible through our ability to understand the customer's requirements and translate the needs of that customer into a commercially and technically acceptable solution.

Of course our modular approach doesn't stop at the delivery of a product or solution. For us this is just the start, with strong online support systems our customers have access to leading interactive product and service care.



### **Our project management**

Once the order is assigned, a dedicated team with specific and skilled technicians provide application support offering assistance and innovative solutions during design phase.

### **Customer order management**

We ensure that all processes within the IT platform are designed with rapid transfer of data needed for internal processes as well as for the management

of the order by the customers themselves. we have chosen to operate with Oracle's JD Edwards EnterpriseOne. This facilitates order management on one platform for both the customer and our staff anywhere in the world. Through a standard operating platform we are able to configure customers unique forecasting, shipping standards, transportation sequence and reporting processes in coordination with commercial contracts and associated quality control documentation - all integrated to one ERP system.

# Key figures



over

1000

people around  
the world



5000

customers  
worldwide



70

years of  
experience



50

million euros investments  
in new technologies and methodologies  
to improve manufacturing efficiency



18

affiliated  
companies



5

production  
facilities



8

assembly  
plants



18

authorized  
service centers

## After-sale service



Highly trained mechanics and support teams can ensure a fast and efficient after-sale service providing support worldwide.



Our new space is your gateway to a world of information, assistance, and seamless access to the solutions you need. Whether you're an end user, distributor, or OEM partner you will find a personalized area to explore and manage all things related to your Rossi products.

Visit us at  
[www.rossi.com](http://www.rossi.com)

# Quality

## 3 years warranty\*



Our drive is to innovate and boost operations by manufacturing performing, precise, reliable and high-quality products all over the world. We are always one step forward in offering and developing solutions that can satisfy an unlimited number of application needs, even in the most demanding conditions.

\* As per our warranty terms.

## System certifications

ISO  
9001:2015

ISO  
14001:2015

ISO  
45001:2023

## Product certifications





Best experiences

# Main applications developed

Sugar cane truck offloader  
Sugar cane feed carrier  
Sugar cane shredder  
Sugar cane leveller  
Sugar cane bagasse carrier  
Thickener  
Mud filtration  
Horizontal crystallizer  
Lifting screws  
Mills



Sugar cane truck offloader  
Helical and bevel helical G and H series



Sugar cane feeder  
Helical and bevel helical G and H, planetary EP



Sugar cane conveyor  
Helical and bevel helical G and H, planetary EP



Sugar cane shredder  
Helical and bevel helical G series



Sugar cane leveller  
Helical and bevel helical G series



Sugar cane bagasse carrier  
Helical and bevel helical G and H, planetary EP



Clarifier  
Planetary EP series



Mud filtration  
Planetary EP series



Horizontal crystallizer  
Planetary EP series



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