



## Food & Beverage

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





# Food & Beverage

Food & Beverage is an industrial sector that plays a major role in the world economy.

Safety and health practices in the Food industry significantly impact on production processes. Therefore, we have been offering cutting-edge solutions for years now, enhancing the quality of technologies for pasta and food production in general. Worm gearmotors, helical and bevel helical, helical inline, planetary gearmotors, and brake motors

are some of the products designed by Rossi for the specific needs of the Food & Beverage industry.

The major companies that manufacture machinery in the field choose to use our gear reducers and gearmotors for their high performance, reliability, presale service & technical support, easy maintenance and handling and because of their certified quality, as specifically required by the industry.

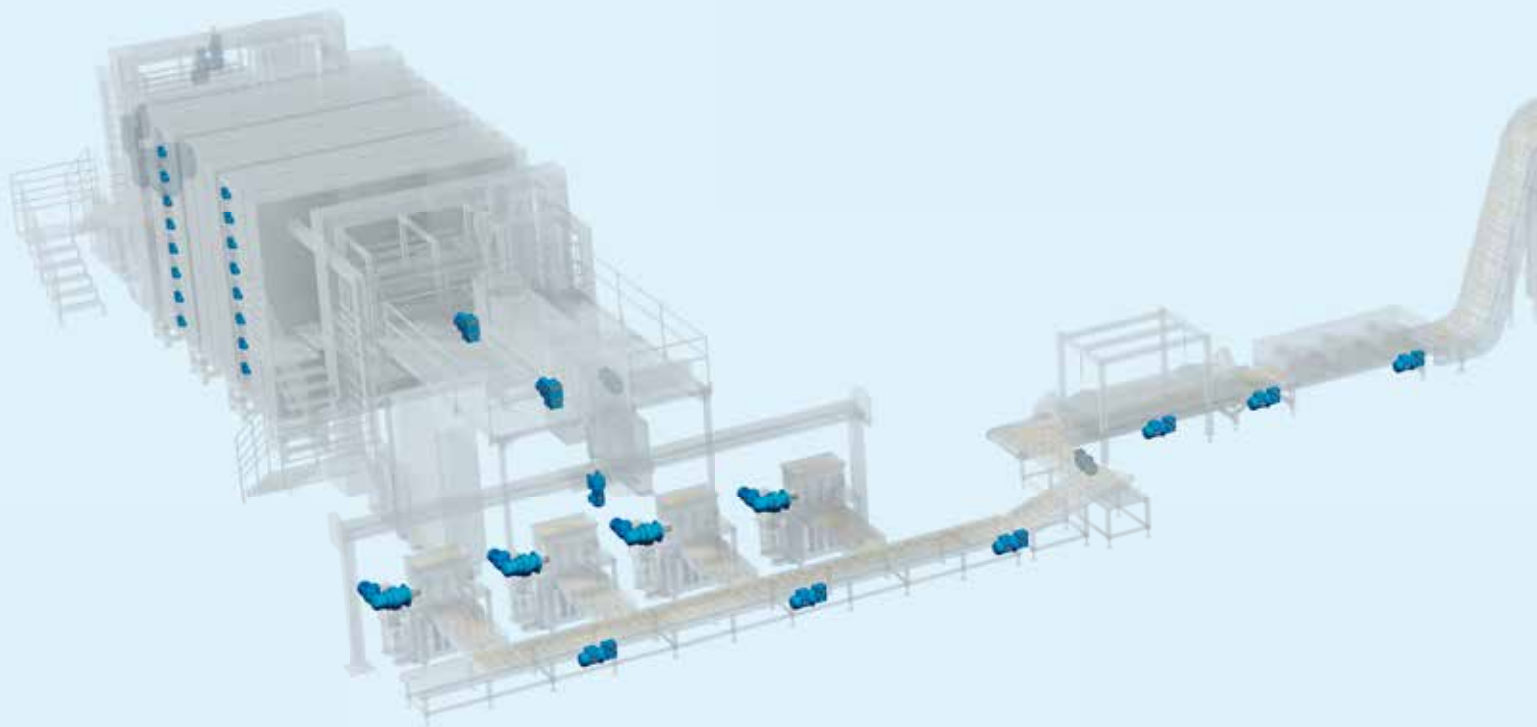


Food & Beverage



# Pasta production line

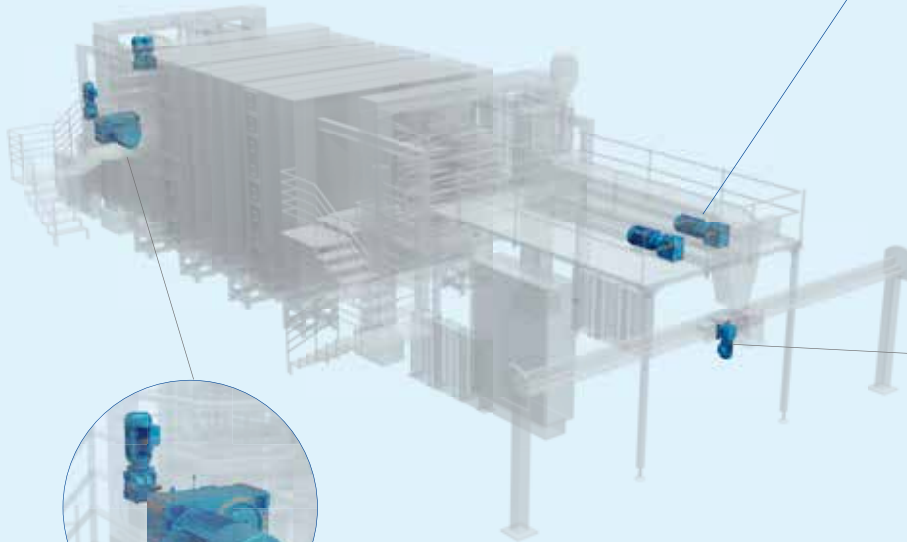
Our solutions allow Food & Beverage companies to respond **effectively** to the current global challenges & key concepts of **safety, traceability, quality, efficiency & cost saving** for complete production line.





Scan the QR code to  
watch the video

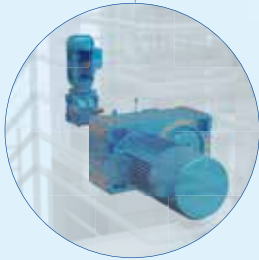
# Extruder & dryer



**iFIT series**  
Bevel helical gearmotor

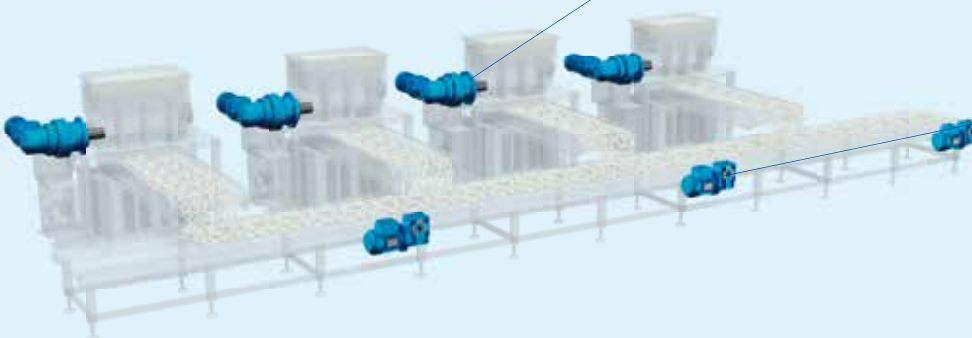


**iFit series**  
Helical inline gearmotor



**GX series**  
Helical gearmotor for extruder

# Dough sheeter & conveyor



**EP series**  
Planetary gearmotor

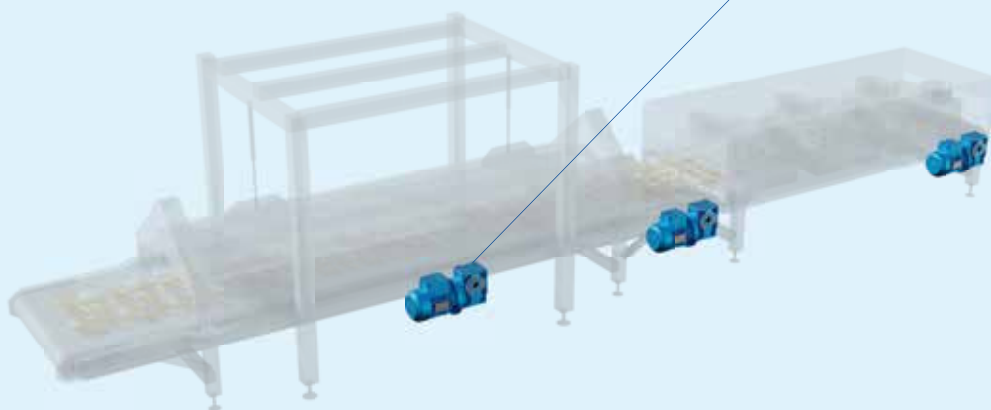


**G series**  
Bevel helical gearmotor

# Pasteurizing



**G series**  
Bevel helical gearmotor



# Mapping & pre-packaging



**G series**  
Bevel helical gearmotor

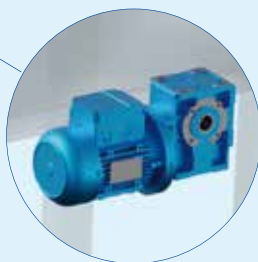
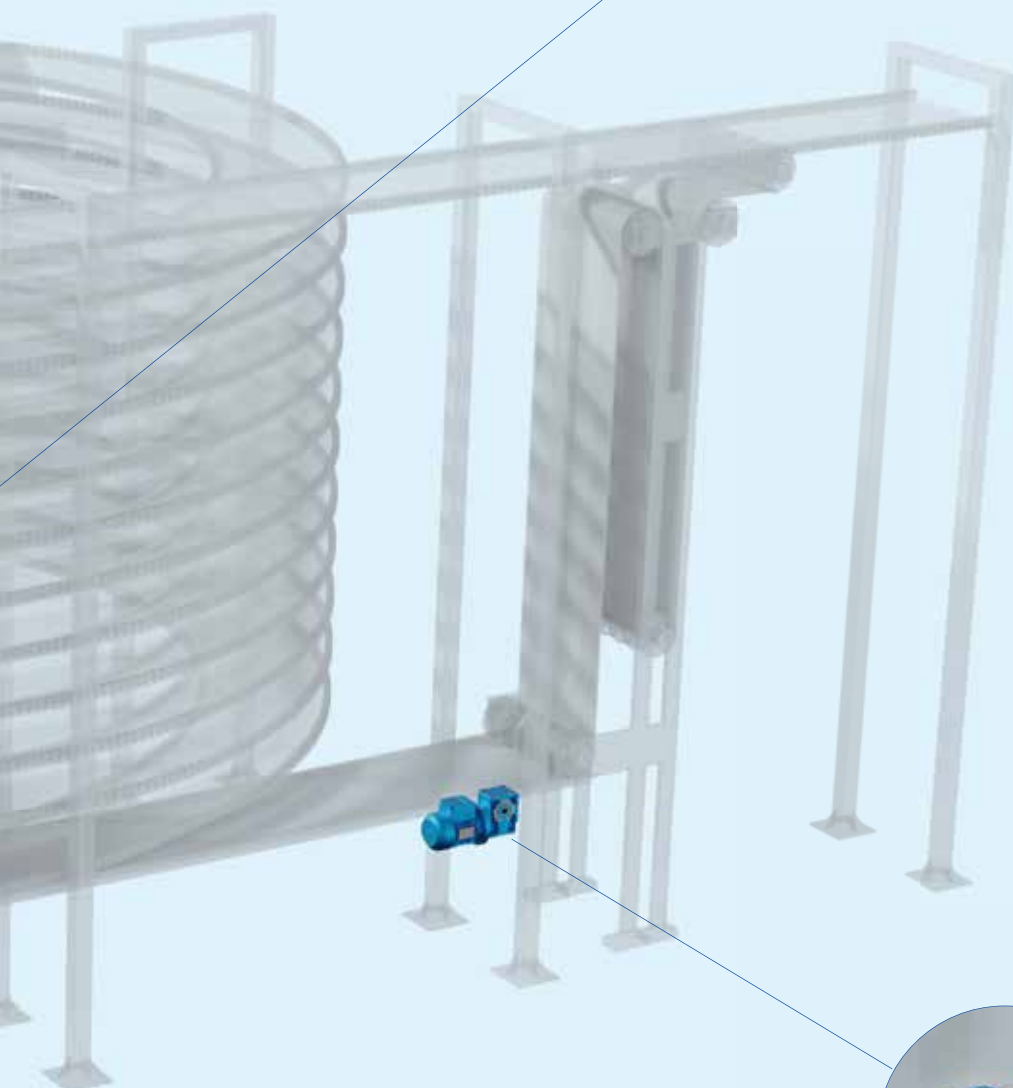


# Spiral freezer





**EP series**  
Planetary gearmotor

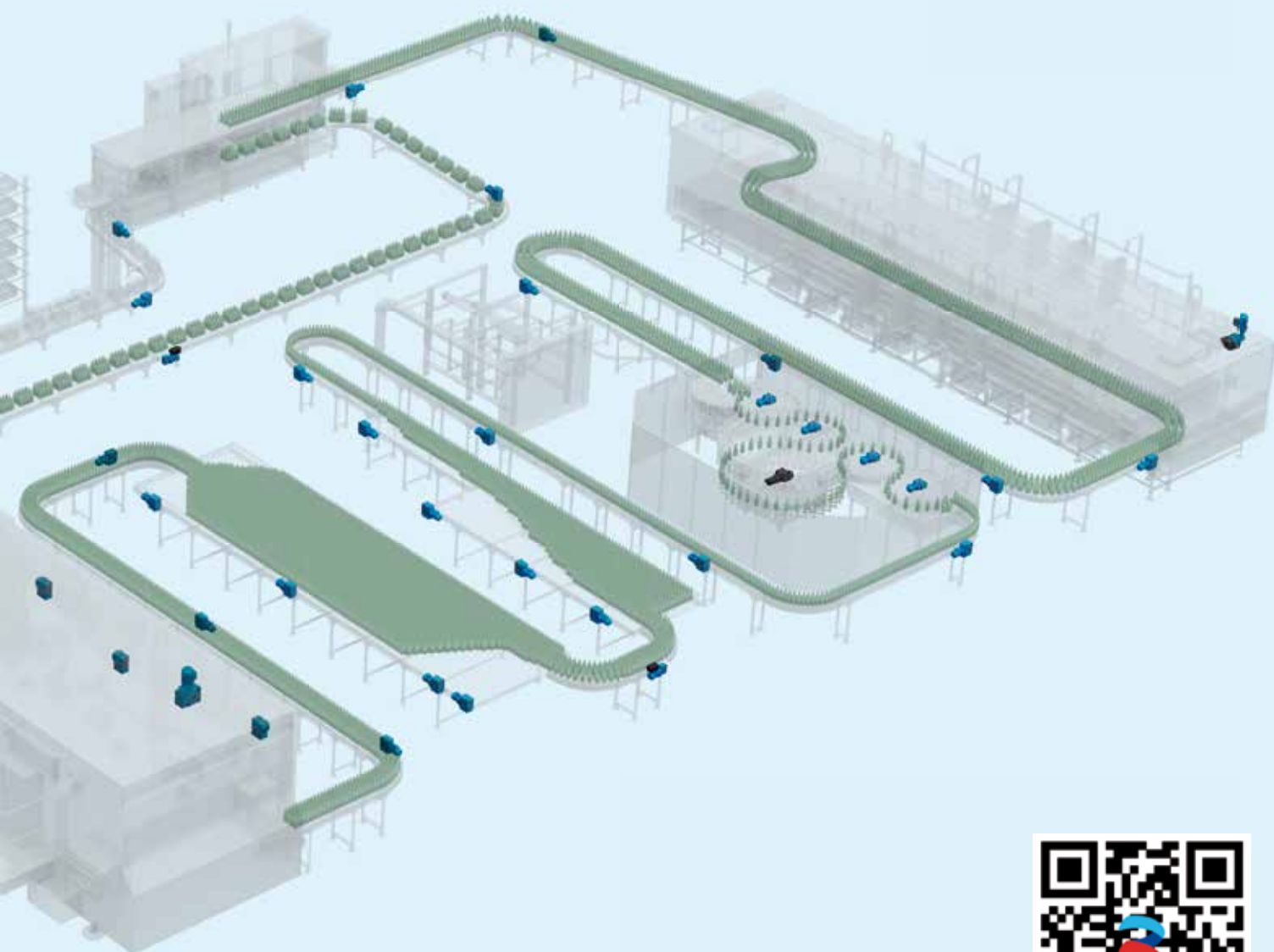


**G series**  
Bevel helical gearmotor

# Bottling line

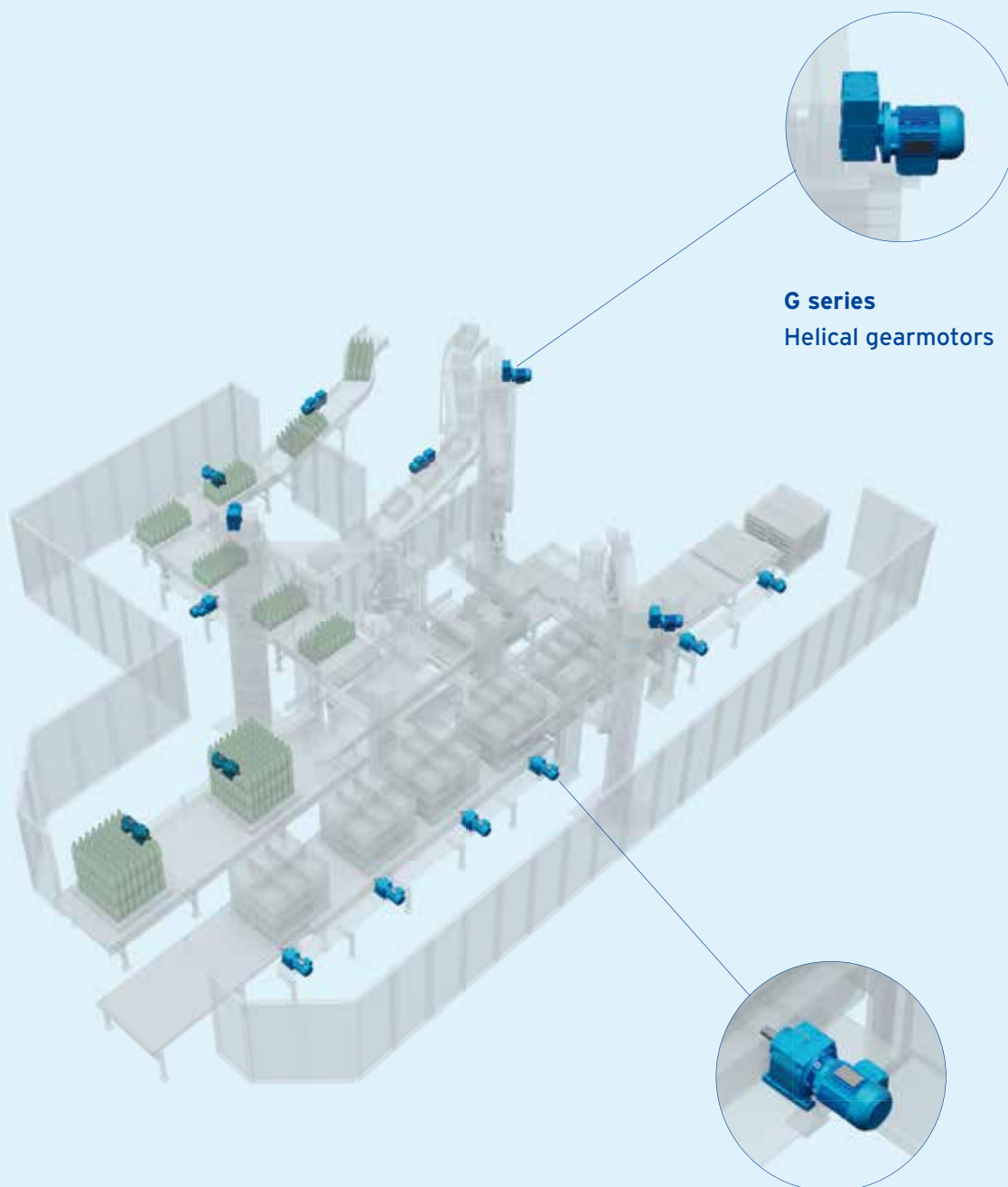
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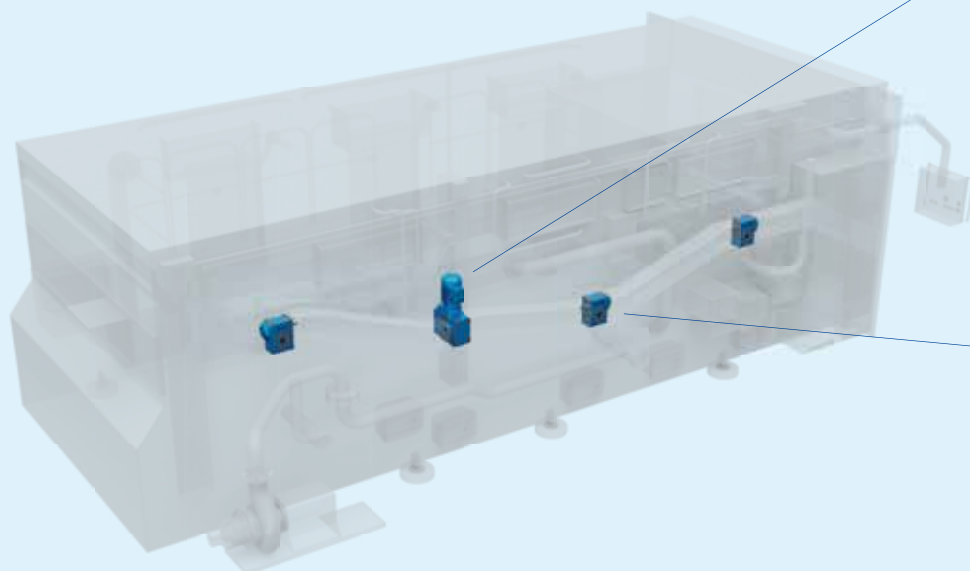
# Depalletizing



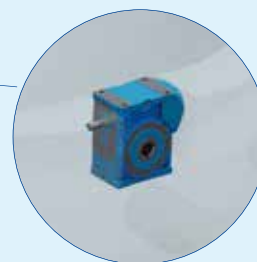
**G series**  
Helical gearmotors

**iFIT series**  
Helical inline gearmotors

# Bottle washing

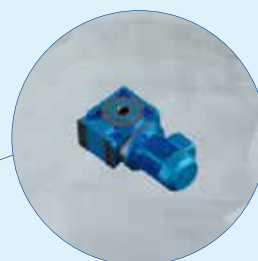
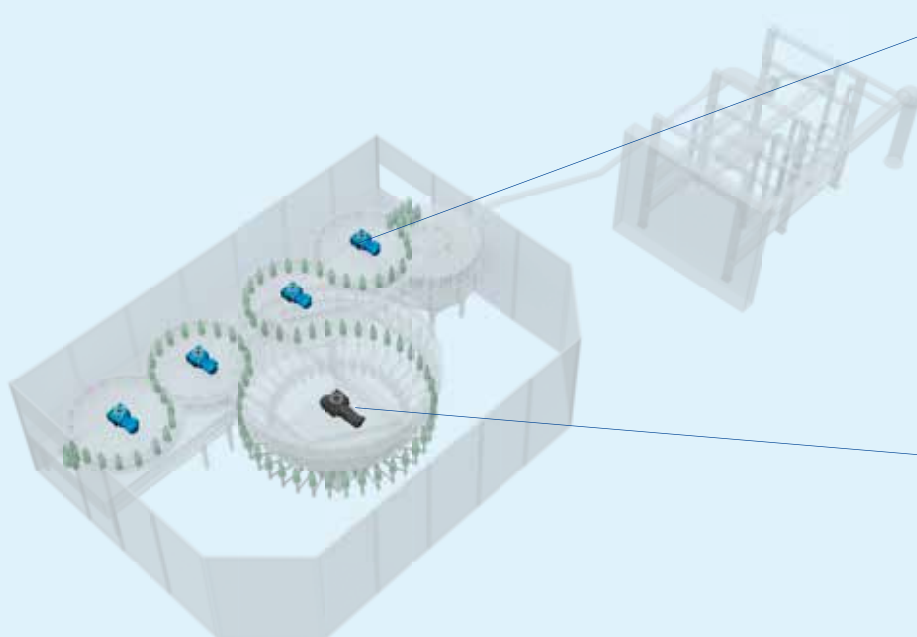


**G series**  
Bevel helical gearmotors

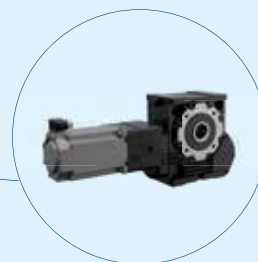


**A series**  
Worm gear reducer

# Filling

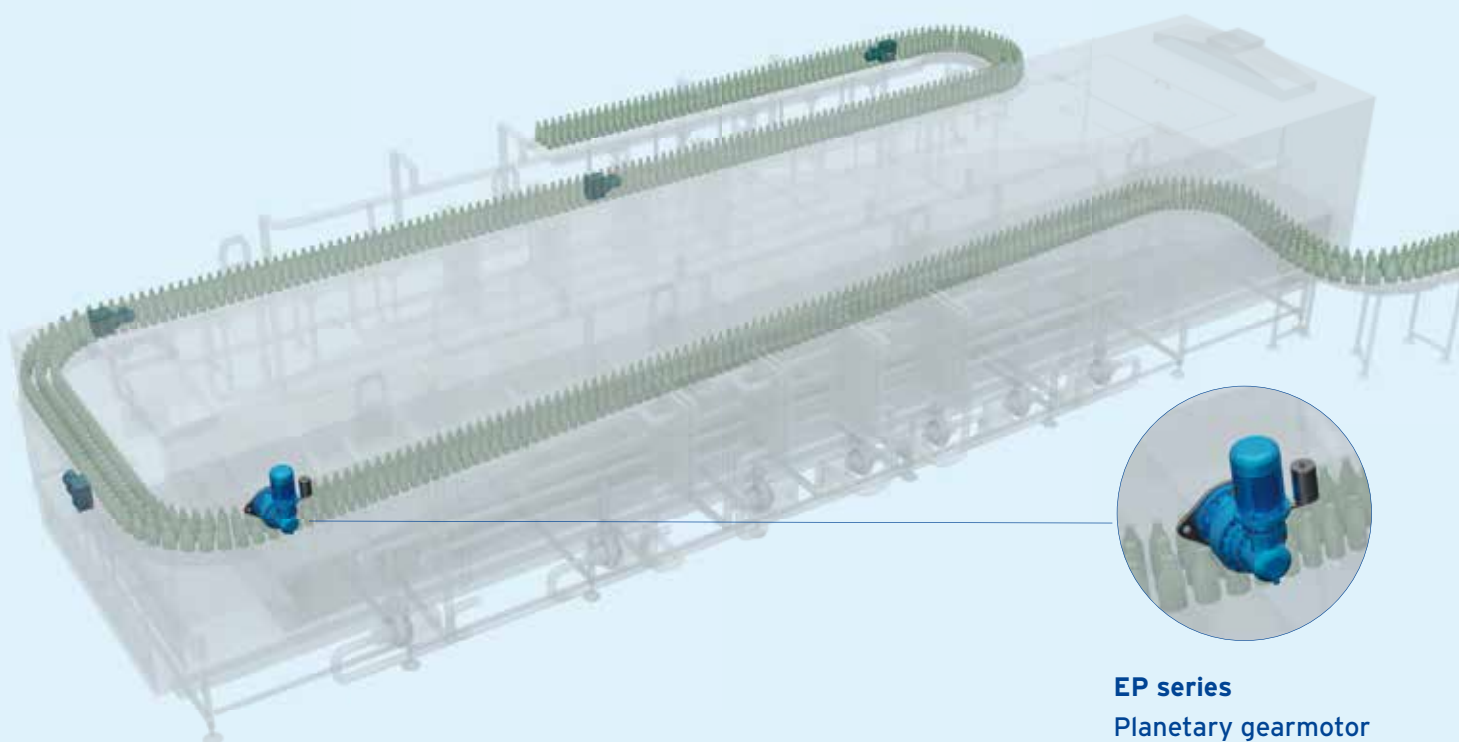


**A series**  
Worm gearmotor



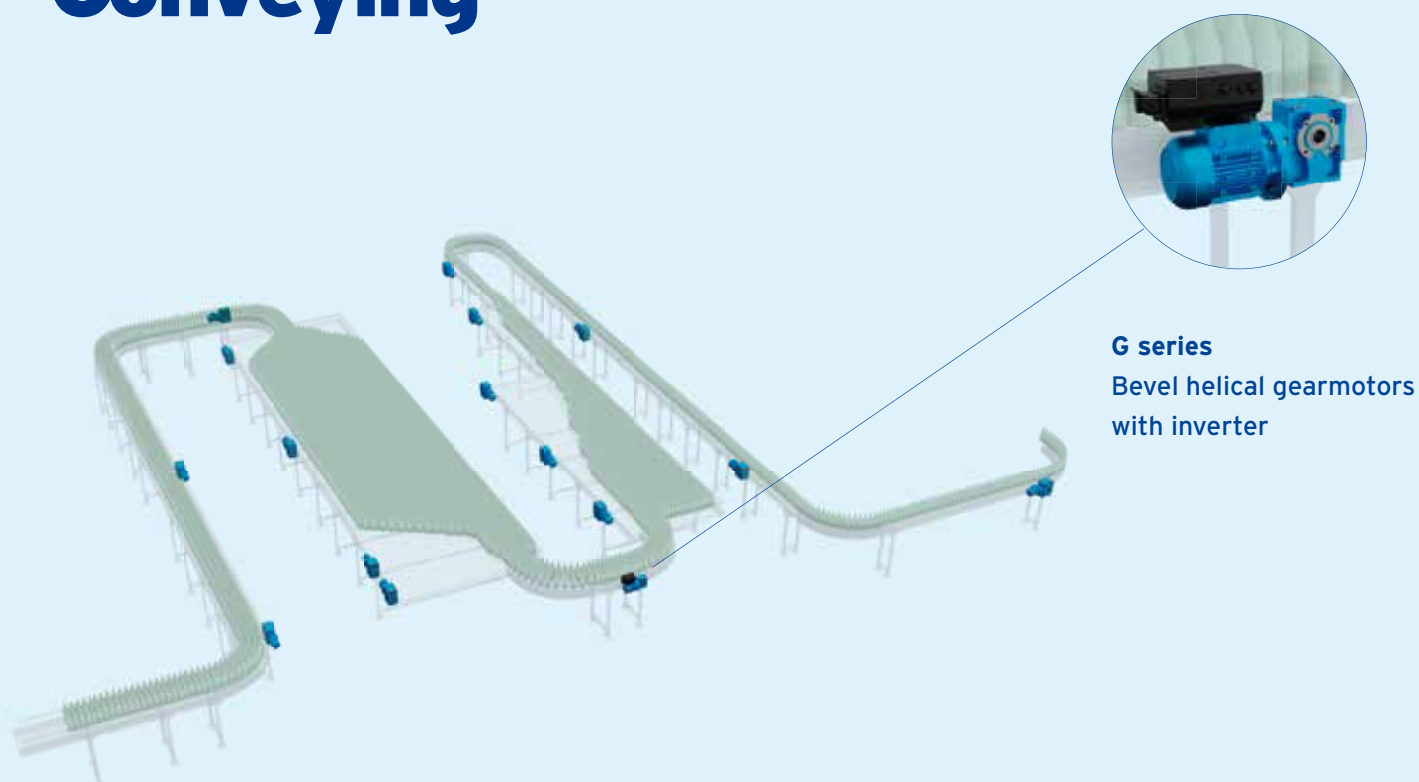
**SR series**  
Worm servo gear reducer

# Pasteurizing



**EP series**  
Planetary gearmotor

# Conveying

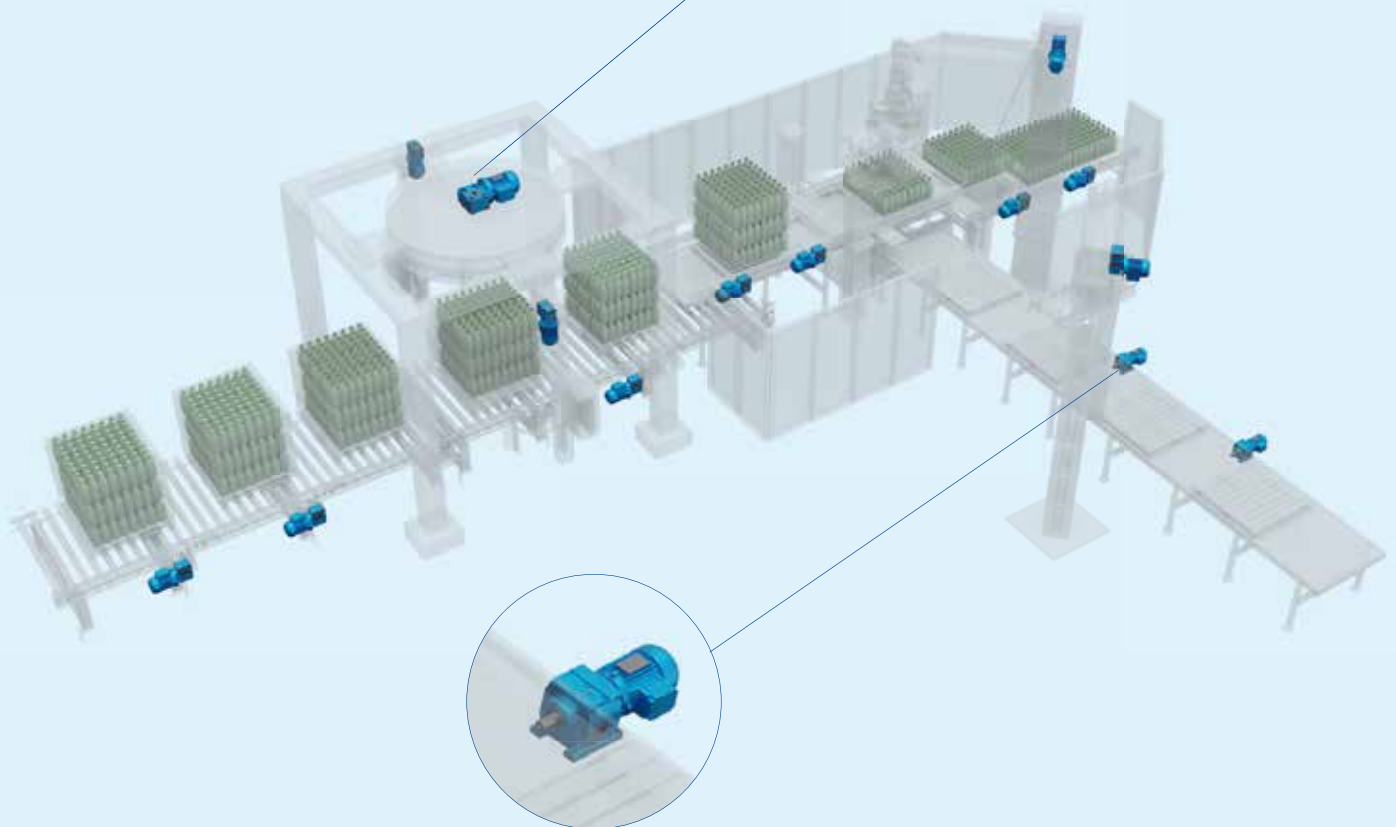


**G series**  
Bevel helical gearmotors  
with inverter

# Palletizing - Packaging



**G series**  
Bevel helical gearmotor



**iFIT series**  
Helical inline gearmotors

### G Series

#### Helical & bevel helical gear reducers & gearmotors

20 sizes 40 ... 401

Nominal torque ( $M_{N2}$ ) up to 103,000 N m

Transmission ratio ( $i_N$ ) 2 ... 160

##### Features

- Single piece cast or ductile iron housings available. Machine face on all 4 sides
- Wide range of sizes & ratios available
- Suitable for NEMA or IEC motor inputs
- Extended housing design for large center to center distance requirements
- Case carburized gear sets
- Helical gear pairs with ground profile
- Ground GLEASON spiral bevel gear set
- Bell housing for IEC and NEMA motors available
- Bell housing with or without elastic coupling available
- Optional synthetic oil for food industry

##### Benefits

- Modular design allows for flexibility in mounting positions
- Minimum maintenance requirements
- High performance and reliability
- Strength and reliability for heavy duty applications



### GX Series

#### Helical & bevel helical extruders design

16 sizes 100 ... 451

Nominal torque ( $M_{N2}$ ) up to 134,600 N m

Transmission ratio ( $i_N$ ) 6.3 ... 28

Excellent specific series for extruders with the same Features and Benefits of G series

##### Additional Features

- Extruder support conceived for normal and heavy applications
- Optional extended input-output center distance housing for U-layout
- Optional synthetic oil for food industry



## iFIT Series

Helical inline gearmotors

8 sizes iC 27 ... iC 97

Nominal torque ( $M_{N2}$ ) up to 3,350 N m

Transmission ratio ( $i_N$ ) 3.4 ... 290



## iFIT Series

Bevel helical gearmotors

7 sizes iO 37 ... iO 97

Nominal torque ( $M_{N2}$ ) up to 4,870 N m

Transmission ratio ( $i_N$ ) 5.4 ... 197



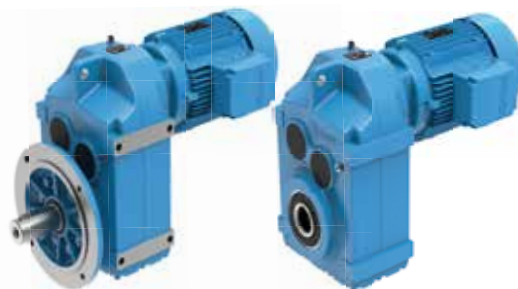
## iFIT Series

Parallel shaft helical gearmotors

8 sizes iO 27 ... iP 97

Nominal torque ( $M_{N2}$ ) up to 4,870 N m

Transmission ratio ( $i_N$ ) 3,77 ... 281,71



### Features

- Fully interchangeable with market standards
- 100% Italian manufacturing
- Full range with robust cast iron housing
- Gear precision as per DIN/ISO/AGMA 6 or better
- New IE2, IE3 compact electric motors
- High quality sealing solutions
- Round shaped, smooth housing surface
- Higher Torque than competitor brands

### Benefits

- "Plug & Play" with no re-engineering costs
- Superior quality, minimum maintenance
- High performance and reliability: minimum deformation, no gearing misalignment, no vibration, and low noise level
- Energy saving, low noise level, reduced backlash
- Premium efficiency, long lifetime and no oil leakage
- Wash down capability.
- Up to 12% higher torque ratings than market standard



### A Series

#### Worm gear reducers & gearmotors

14 sizes 32 ... 250

Nominal torque ( $M_{N2}$ ) up to 8,020 N m

Transmission ratio ( $i_N$ ) 7 ... 16,000

##### Features

- Universal mounting with integral feet on the housing and B14 flanges
- Rigid and precise cast iron single piece housing
- Forced ventilation for high thermal power dissipation (size > 100)
- Worm wheels made of nickel bronze with high performance capability. High load capacity and wear resistance
- Wide range of accessories and non-standard designs
- Optional synthetic oil for food industry

##### Benefits

- Universal mounting positions
- High performance and reliability
- Smooth and precise running, reduced and constant backlash
- Extremely quiet and constant performance even in the hardest applications



### AS Standardfit Series

#### Worm gearmotors

6 sizes 118 ... 742

Nominal torque ( $M_{N2}$ ) up to 670 N m

Transmission ratio ( $i_N$ ) 6 ... 75

##### Features

- Mounting with lower integral feet and B14 flanges on 2 faces integral on the housing
- Rigid and precise cast iron single piece housing
- Worm wheels made of nickel bronze with controlled phosphor content to achieve improved performance, a higher load capacity, greater reliability and wear resistance
- No thermal limitation
- Tapered roller bearings on worm shaft
- Motor mounting flange integral to the housing
- High worm efficiency
- Optional synthetic oil for food industry

##### Benefits

- Interchangeability with major manufacturers
- High performance and greater reliability
- Smooth and quiet running



## SR Series

### Worm servo gear reducers

#### MR type

7 sizes 32 ... 81

Nominal Torque up to 586 N m

Accelerating torque up to 747 N m

Transmission ratio ( $i_N$ ) 7 ... 239



#### R type

9 sizes 40 ... 126

Nominal Torque up to 1,872 N m

Accelerating torque up to 2,387 N m

Transmission ratio ( $i_N$ ) 7 ... 125

## SR Series

### Helical & bevel helical servo gear reducers

#### MR type

8 sizes 40 ... 125

Nominal Torque up to 2,535 N m

Accelerating torque up to 3,000 N m

Transmission ratio ( $i_N$ ) 6.16 ... 139



#### R type

8 sizes 50 ... 140

Nominal Torque up to 3,390 N m

Accelerating torque up to 4,475 N m

Transmission ratio ( $i_N$ ) 6.42 ... 127

## SR Series

### Coaxial servo gear reducers

#### MR type

11 sizes 32 ... 101

Nominal Torque up to 1,509 N m

Accelerating torque up to 2,000 N m

Transmission ratio ( $i_N$ ) 4 ... 154



#### MR type features

- Wide range of Servo gearboxes, designed to fit almost all servo motors found on the market
- Designed for the highest torsional stiffness and the lowest angular backlash, for the maximum torque and overhung loads
- Bush with slots and hub clamp for servomotor coupling
- Optional synthetic oil for food industry

#### MR type benefits

- Enhanced dimensional compactness due to direct servomotor coupling
- The correct technical solution thanks to a comprehensive range of sizes, gear stages, transmission ratios, designs, and non-standard designs
- Widest range of possible servomotor coupling dimensions

### EP Series

#### Planetary gear reducers & gearmotors

24 sizes 001 ... 3,000

Nominal torque ( $M_{N2}$ ) up to 3,000,000 N m

Transmission ratio ( $i_N$ ) 3.55 ... unlimited

##### Features

- Multiple input stages in inline or right angle configurations
- Modular design
- Suitable with NEMA, IEC motors or hydraulic input
- Final stage gear set case carburized & ground with nitriding on internal sun gears
- Cylindrical spur gear with ground profile
- GLEASON spiral bevel gear pairs with ground profile
- Very compact size
- Wide range of accessories and non-standard designs
- Low backlash, enhanced stiffness and heavy duty bearings as a standard
- Improved lubrication system
- Wide range of hydraulic brakes
- Optional synthetic oil for food industry

##### Benefits

- Easy and functional flange, foot, or shaft-mounting design
- High torque transmitted
- Extended range of transmission ratios



### E Series

#### Coaxial gear reducers & gearmotors

16 sizes 32 ... 180

Nominal torque ( $M_{N2}$ ) up to 10,000 N m

Transmission ratio ( $i_N$ ) 4 ... 6,300

##### Features

- Universal mounting with lower/upper feet and B5 flange integral to the housing
- Rigid and precise cast iron single piece housing with high structural stiffness
- Helical tooth design with ground & carburized gearing
- Wide range of sizes
- Standard IEC motor input adapter
- Optional synthetic oil for food industry

##### Benefits

- Long life
- Minimum maintenance requirements
- High performance and greater reliability
- Strength and reliability for heavy duty applications



## TX Series

Premium line electric asynchronous three-phase motors and brake motors

TX Series

Sizes 63 ... 315

Power ( $P_N$ ) 0.06 ... 110 kW

Polarity 2, 4, 6 poles

### Features

- IEC standard motors
- Protection: IP 55 standard, up to IP 66 on request
- IE3 Energy efficiency
- Standard and safety brake (AC, DC)
- Optional executions available (encoders, axial cooling, etc.)

### Benefits

- Compactness and flexibility
- Suitable for running with inverter
- Reduced environmental impact and energy saving



## dDrive Inverter Series

Decentralized Drive

dDrive Inverter Series

Sizes A, B, C

Rec. motor rating 0.55 ... 7.5 kW

Supply Voltage 3x200V AC...480V AC

280V DC...680V DC

Rated current 1.7A...16.5A

### Features

- Decentralized Frequency Inverter
- Designed for Rossi IE2, IE3 electric motors
- Aluminum Housing IP 65
- Sensorless Vector Control
- Safe Torque Off (STO)
- Configurable I/O's board and internal PLC
- A large number of field buses available
- Bluetooth Interface

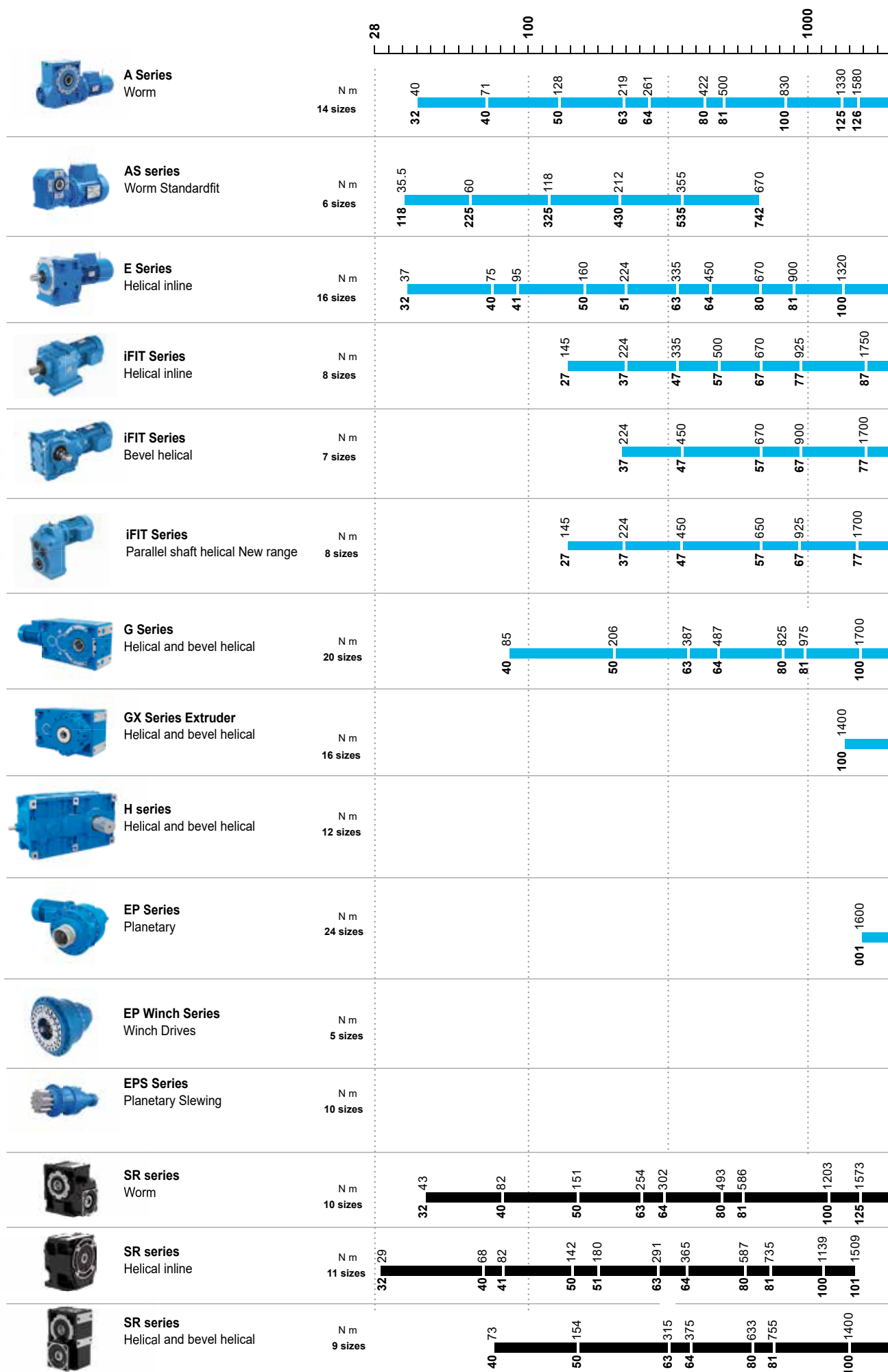
### Benefits

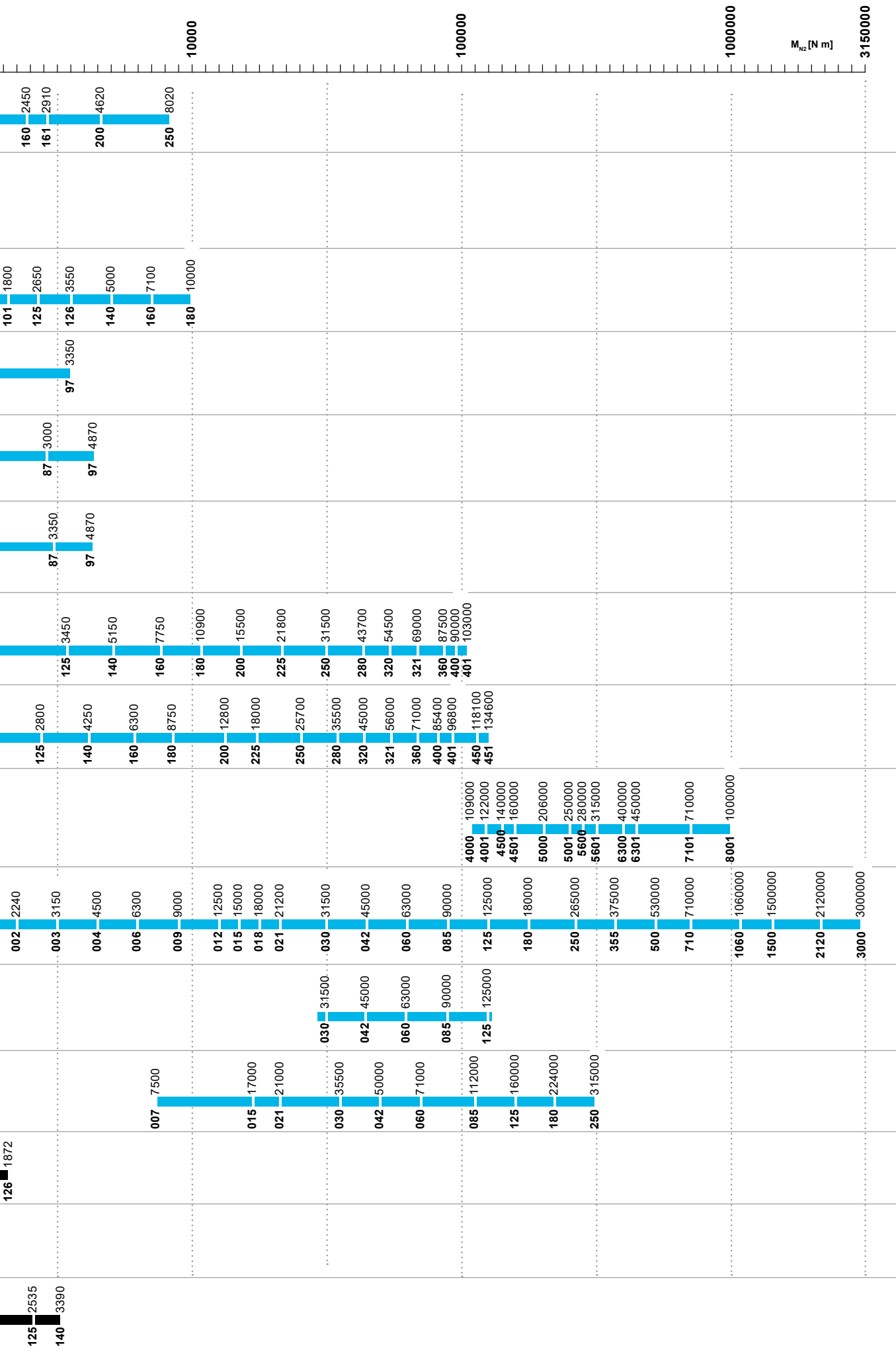
- Reduced electric cabinet dimension and cooling systems
- Compact solution of inverter, motor, and gearbox
- Suitable for hard environmental operating conditions
- No need of motor encoder for speed control
- High Safety Performance Level (up to PL E)
- To develop your own dedicated control functions
- Ease integration with existing automation controllers
- Fast and smart inverter parametrization access



**dDrive**

# Gear reducers and gearmotors





## Our references



**SPIRAL FREEZER  
EP SERIES  
SOUTH AFRICA**



**CONVEYORS  
AS SERIES  
ITALY**



**CONVEYORS  
G SERIES  
SWITZERLAND**

**We deliver  
reliable  
solutions  
worldwide**



**WINE FERMENTATOR  
EP SERIES  
SPAIN**



**MEAT MIXERS  
G SERIES  
CHINA**



**OIL SCREW PRESS  
EP SERIES  
TURKEY**



**VERTICAL CRYSTALLISER  
EP & E SERIES  
THAILAND**



**CONVEYORS  
A SERIES  
INDIA**



**OIL SCREW PRESS  
EP SERIES  
INDONESIA**



**SPIRAL FREEZER  
EP SERIES  
USA**



**PASTA MIXER  
G SERIES  
BRAZIL**

# Solutions for an evolving industry

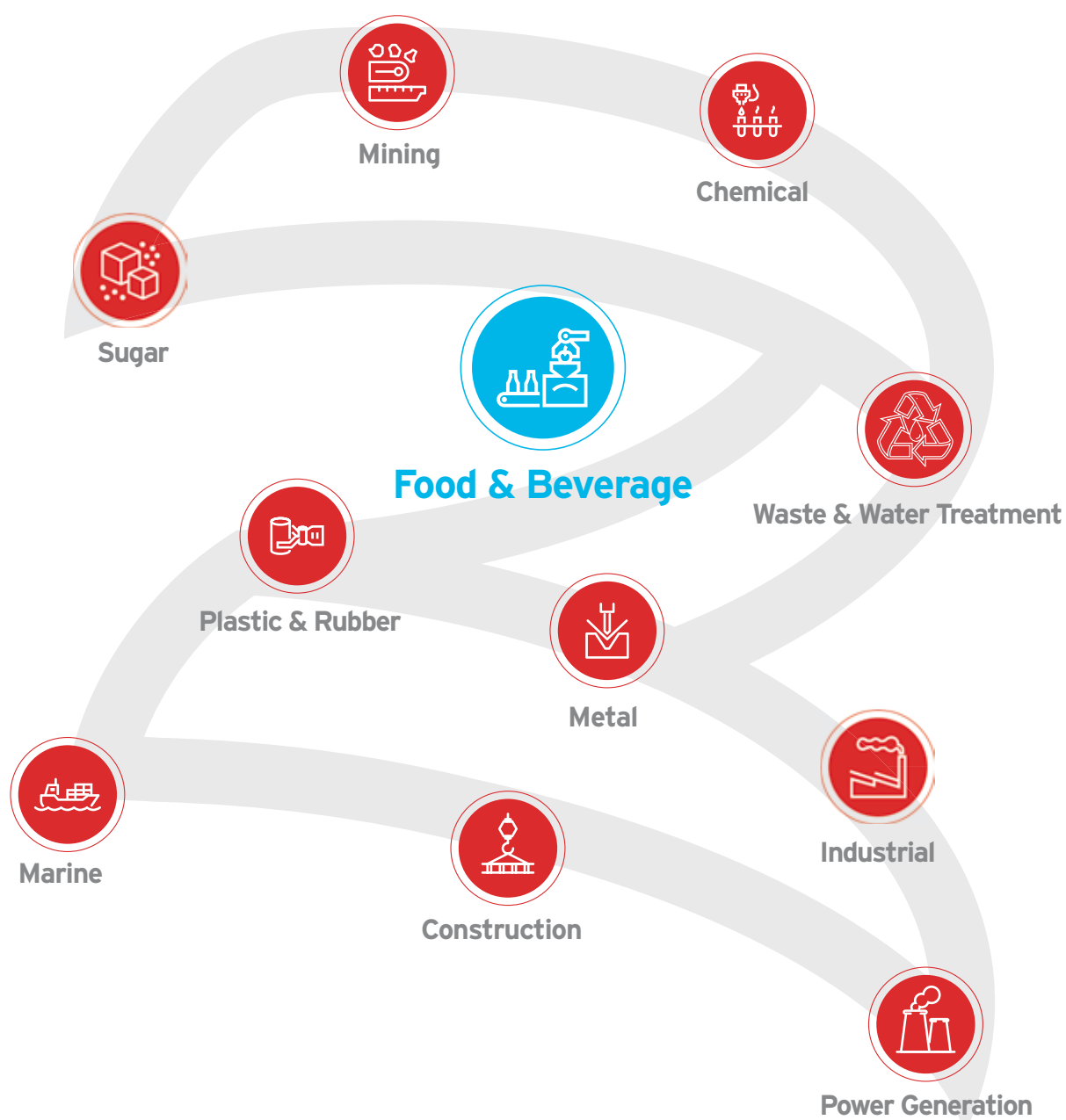
In the global marketplace, our customers, investors, partners value our products and services for two reasons: excellence and reliability. At Rossi, we utilize change as a strategic lever for our growth. "Solutions for an evolving industry" fully expresses

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
- Specialized housing machining
- Extensive systematic controls
- Experience and know-how
- Excellence and innovation
- Reliable customer support.



# We have a solution for every segment



# 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)



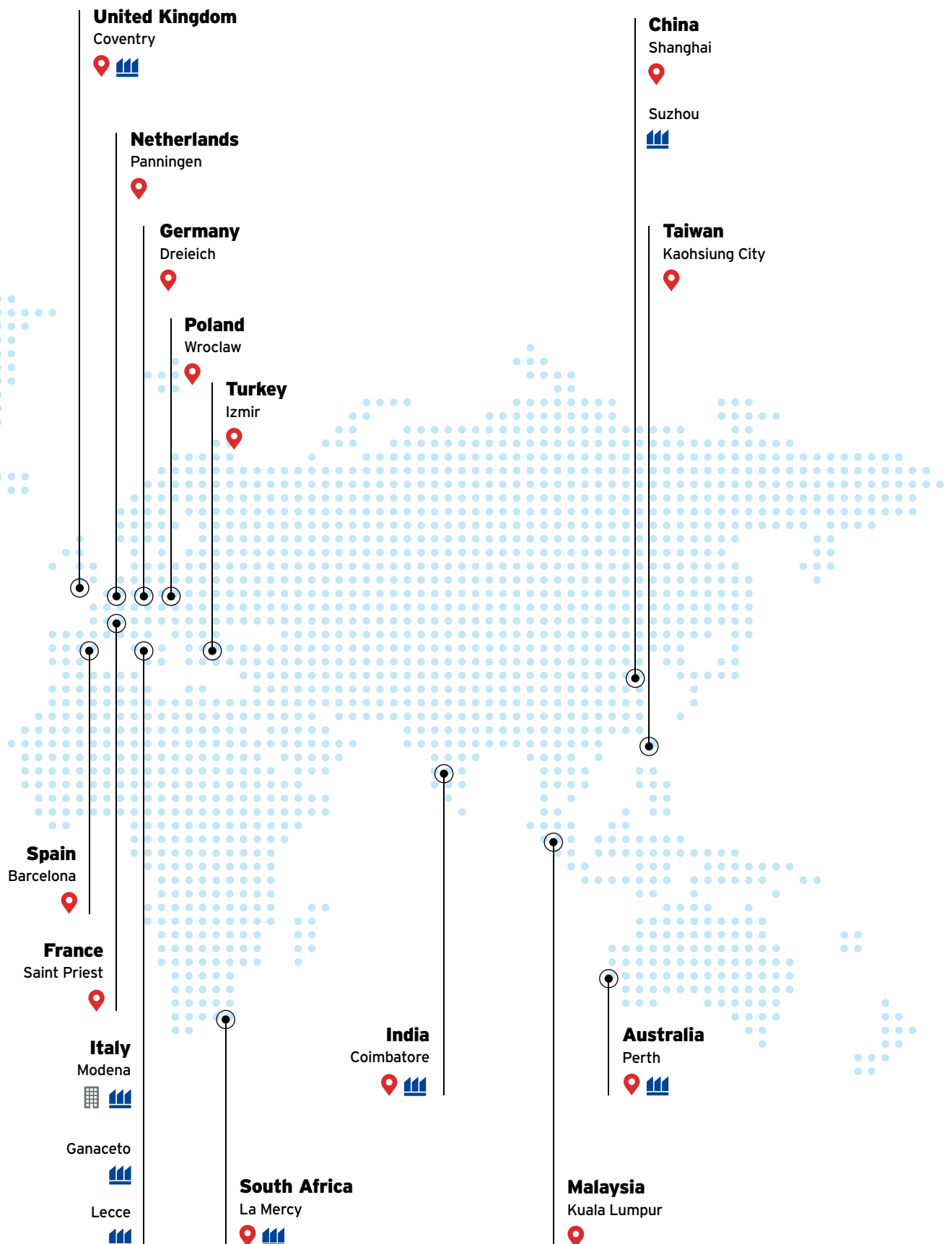
Main offices



Affiliated companies



Production facilities/Assembly plants



# 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





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