



# Construction

rossi.com





# Construction

Rossi ranks among the top international players in the design and manufacture of a wide range of **garmotors, planetary gearboxes and electric motors** for most Construction applications. With the know-how and experience acquired over 70 years we offer the market a comprehensive range of products designed to meet the most demanding needs in the Construction Market.

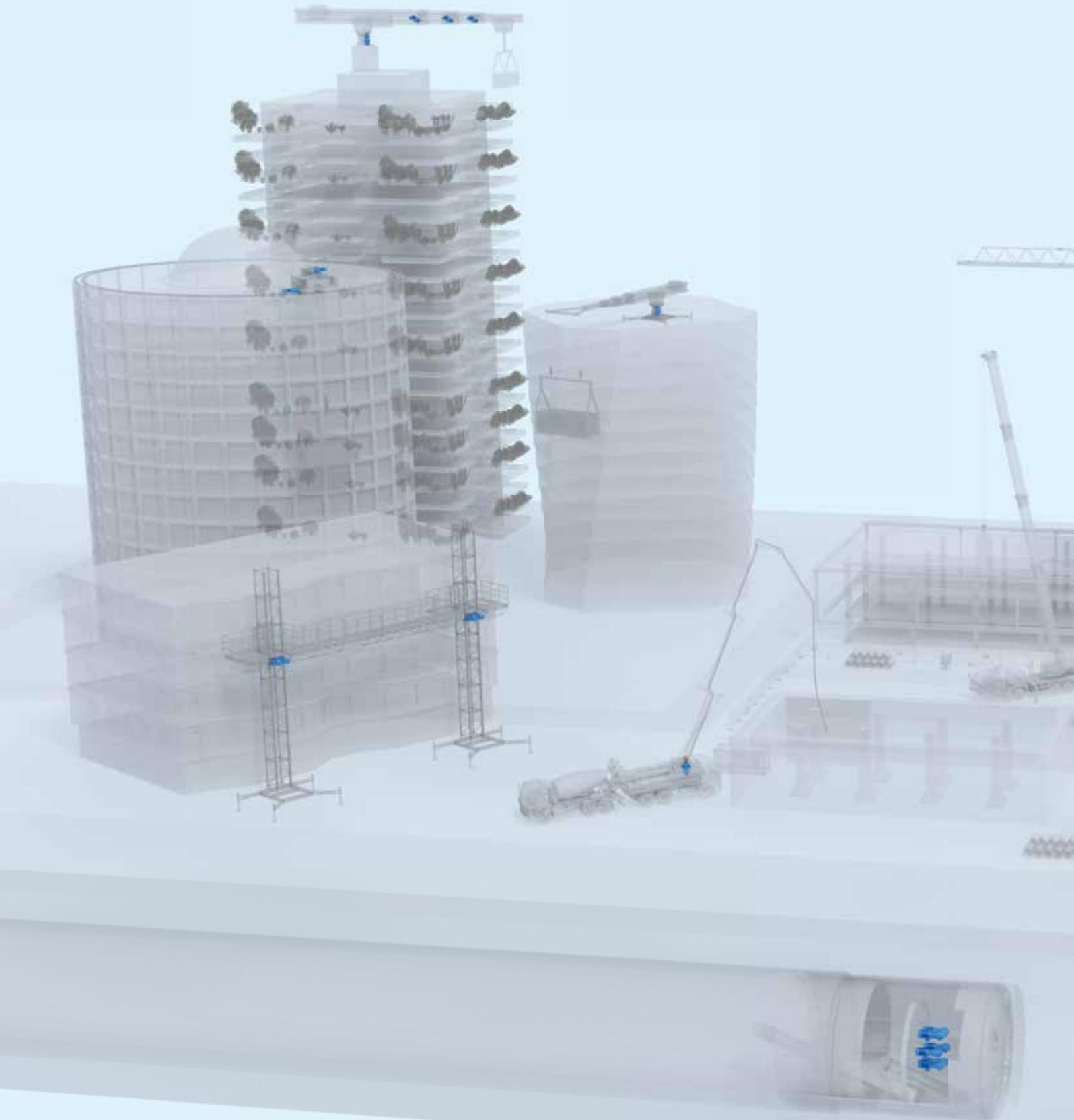
We provide customized and technologically advanced solutions for a wide range of applications, such as **Building Maintenance Units, tower cranes, concrete and asphalt mixers, drill rig drives** and many others, to meet the growing needs of an industry that requires high quality, reliability and flexibility.



Construction



# Construction site

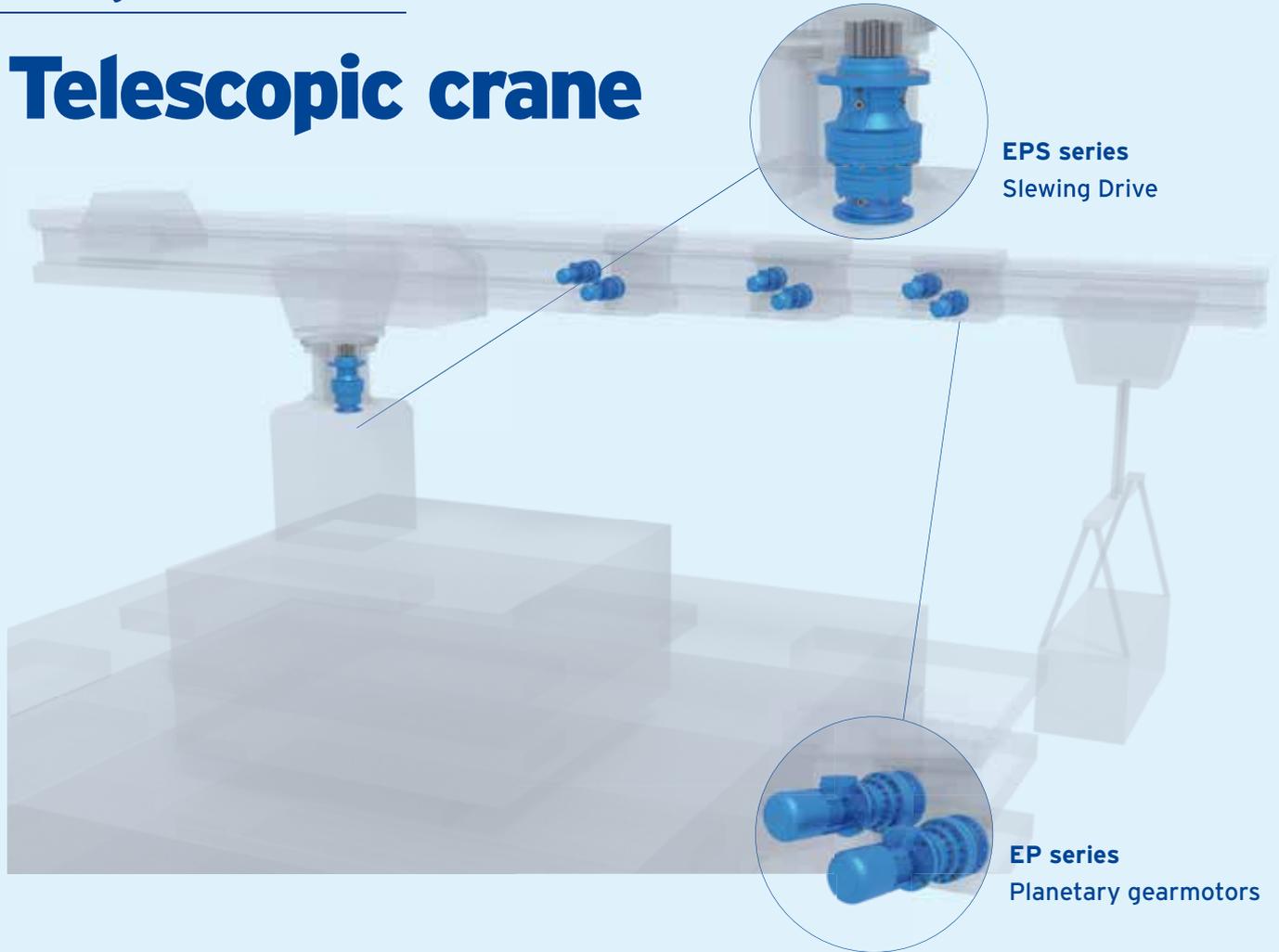




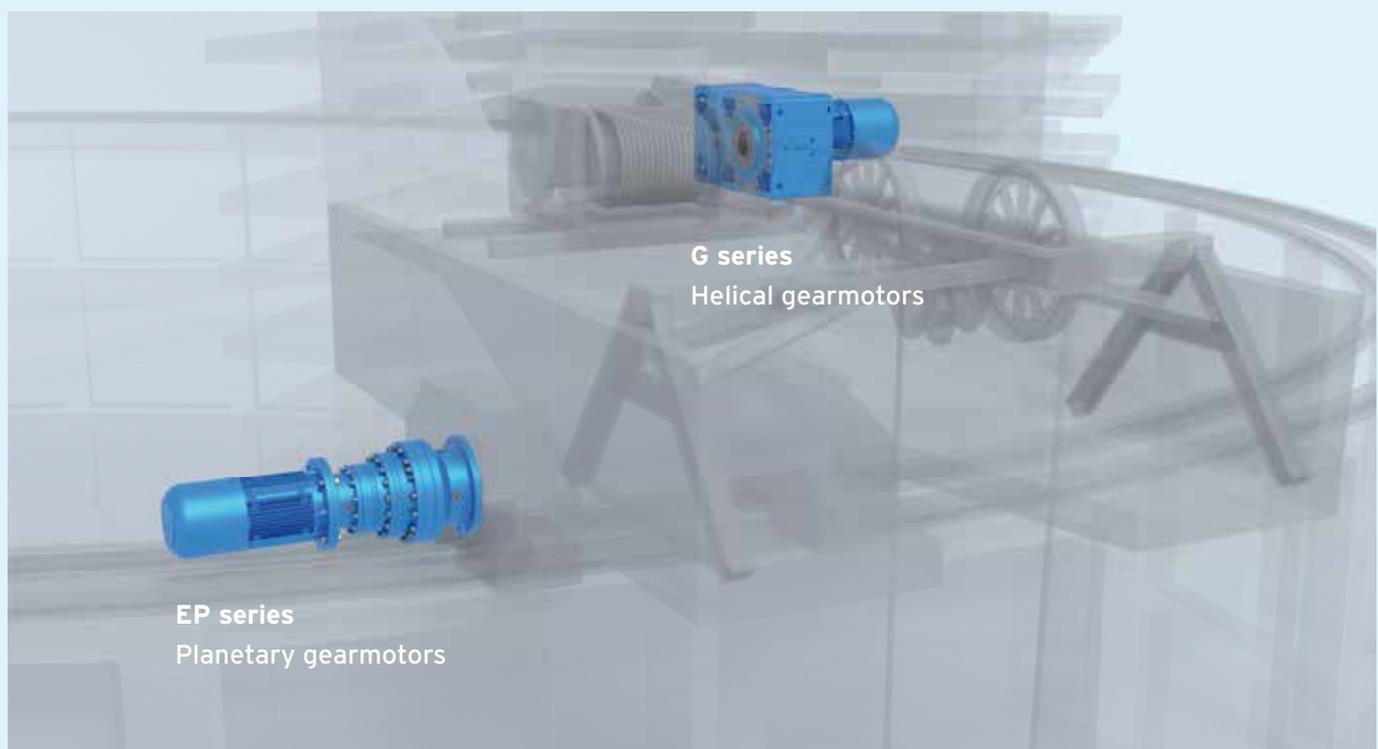
Scan the QR code to  
watch the video



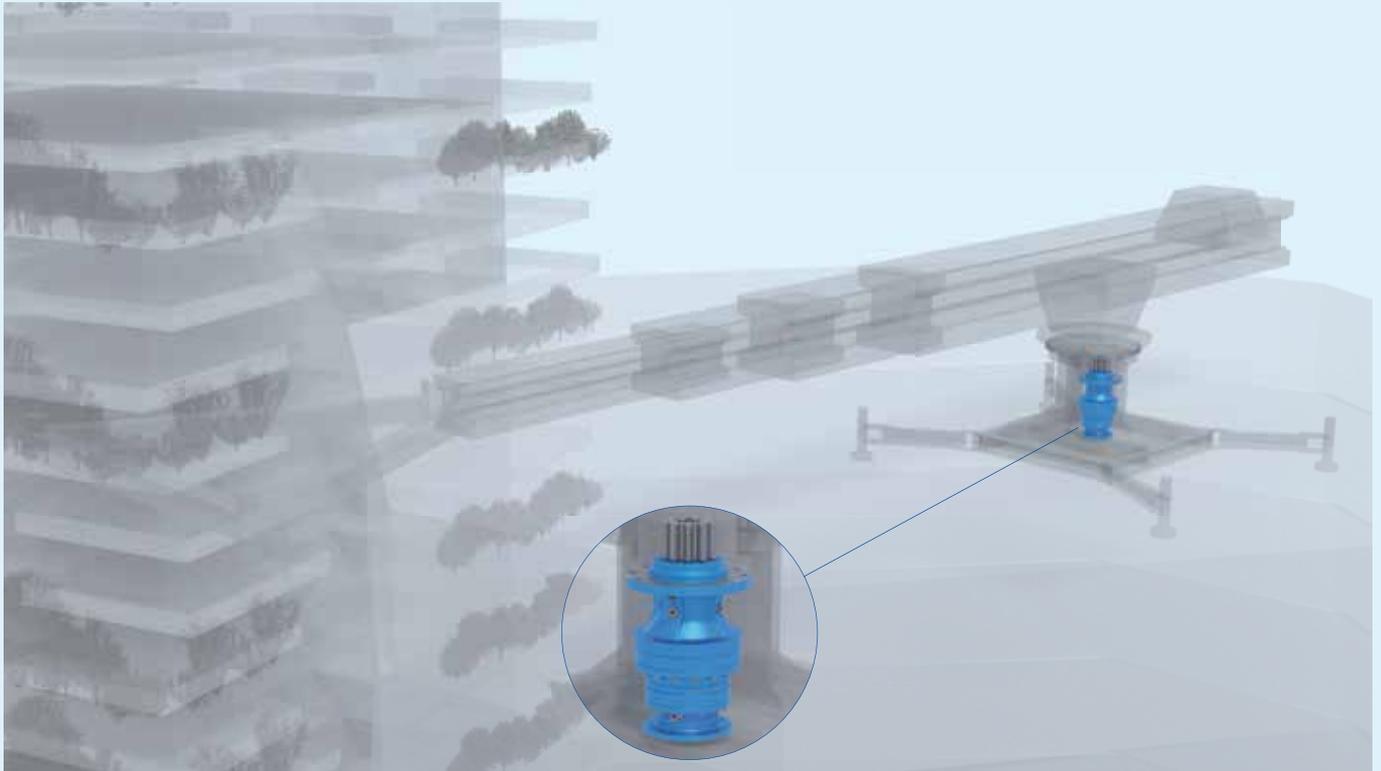
# Telescopic crane



# Lifting cradle

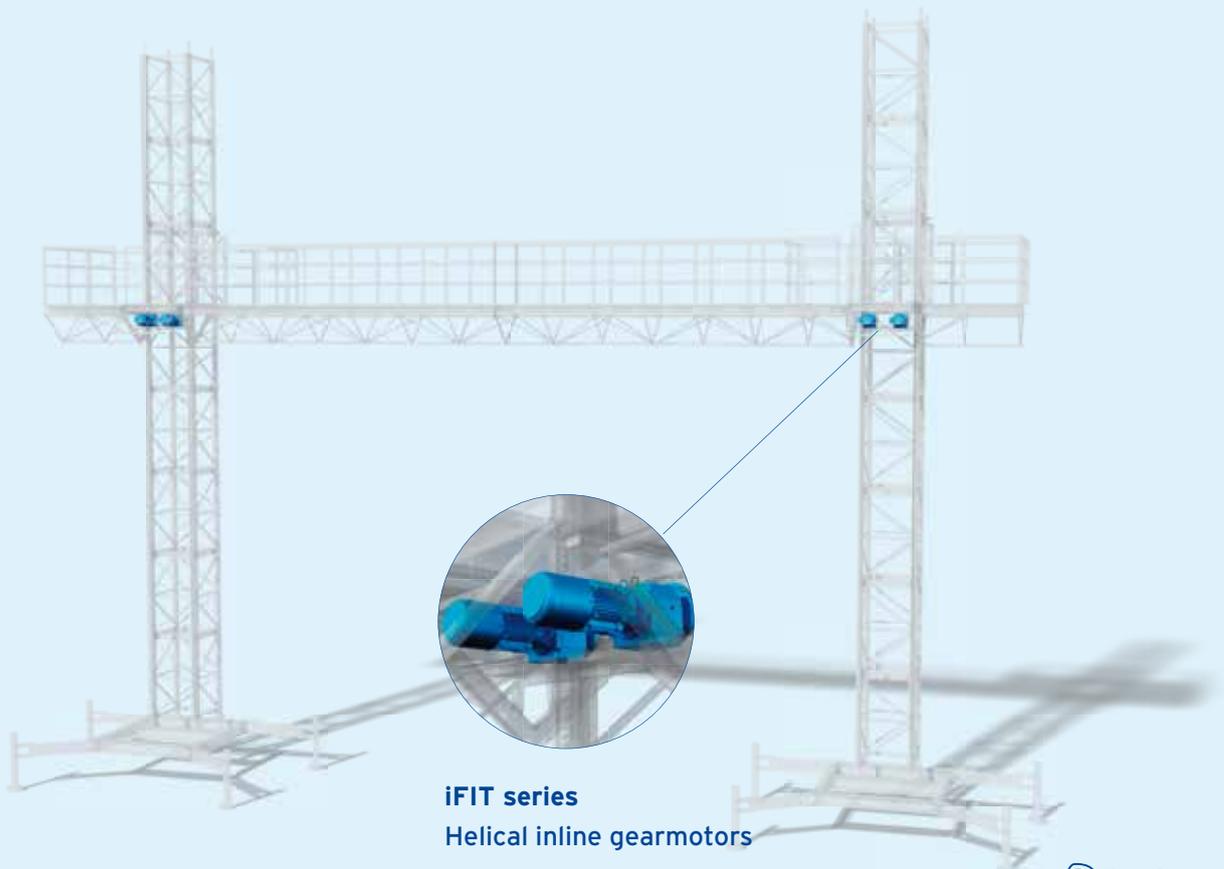


# Compact crane



EPS series  
Slewing Drive

# Rack & Pinion Hoists



iFIT series  
Helical inline gearmotors

# Tower crane

Trolley winch



A series  
Worm gearmotors

Winch

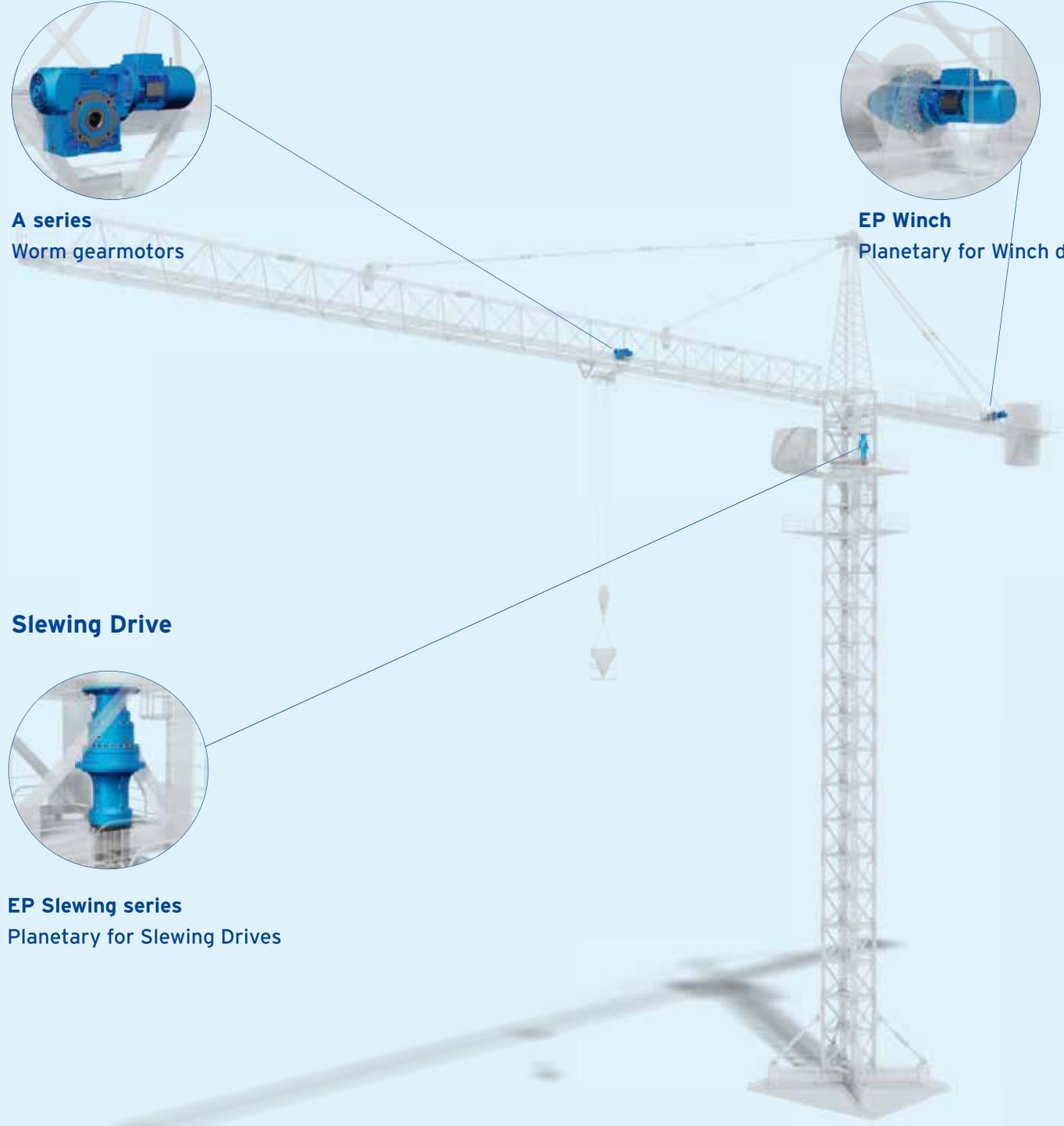


EP Winch  
Planetary for Winch drives

Slewing Drive



EP Slewing series  
Planetary for Slewing Drives

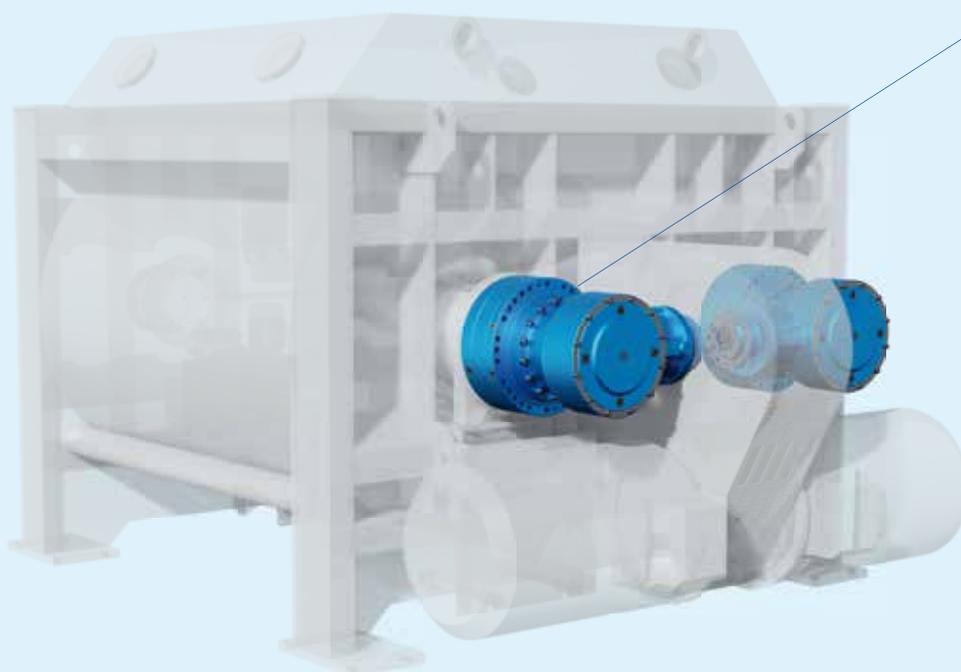


# Asphalt mixer



**G series**  
Bevel helical gearmotors

# Concrete mixer



**EP series**  
Planetary gearmotors

### 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

#### Benefits

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



### EPSlewing Series

#### Planetary Slewing drives

Specific drives for slewing applications with the same Features and Benefits of our high quality EP Planetary Series Reducers.

10 sizes 007 ... 250

Nominal torque ( $M_{N2}$ ) up to 315,000 N m

Transmission ratio ( $i_N$ ) 12,5 ... 2,800

#### Additional features

- 10 modular slew drive gear size reducers with 3 output reinforced support configurations: dual pilot flanged (R), dual pilot compact (S) and single pilot front flanged (H)

#### Additional benefits

- Wide choice of the drives allows always the highest performance of cost-efficient solutions
- Same wide range of options for the EPS line as our standard EP line.



## Combined EP Series

### Planetary gear reducers & gearmotors

24 sizes 001 ... 3,000

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

Transmission ratio ( $i_N$ ) according to Customer's requirements

#### Features

- Planetary drives combined with other Rossi products to optimize performances on a broad spectrum of application needs
- Possible combinations with standard Rossi series using the planetary drives with worms, coaxial, helical and helical bevel drives and gearmotors

#### Benefits

- Easy customization to meet customer needs
- Flexibility and adaptability to specific application needs
- Interchangeability



## 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 center to center distance for crane & hoisting applications
- 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

#### Benefits

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



### 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

#### 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



## 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

#### 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, 8 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

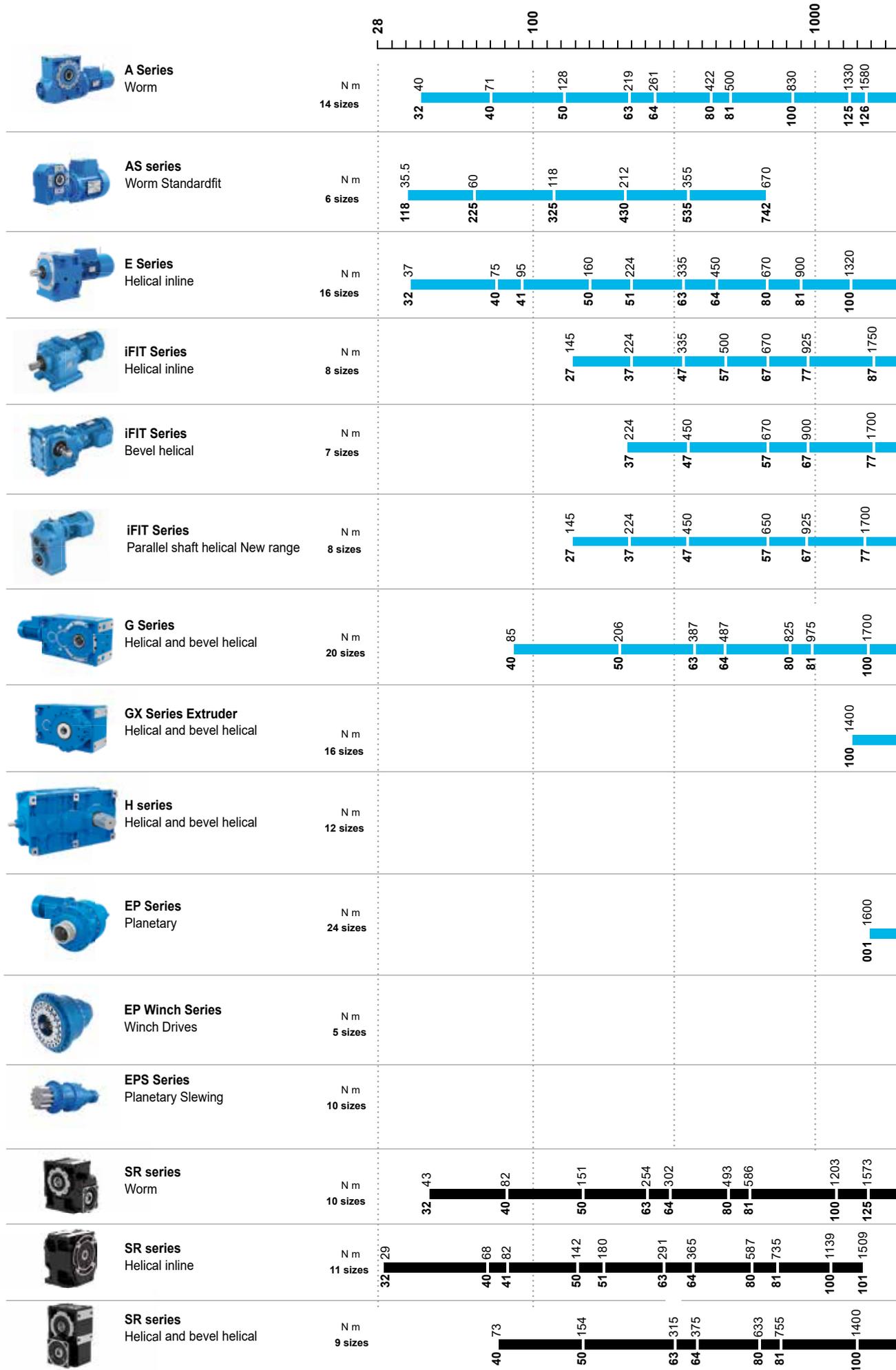
- Reduced electric cabinet dimension and cooling systems
- Compact solution of inverter, motor, and gearbox
- Suitable for hard environmental operating conditions
- No need of motor encoder for speed control
- High Safety Performance Level (up to PL E)
- To develop your own dedicated control functions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

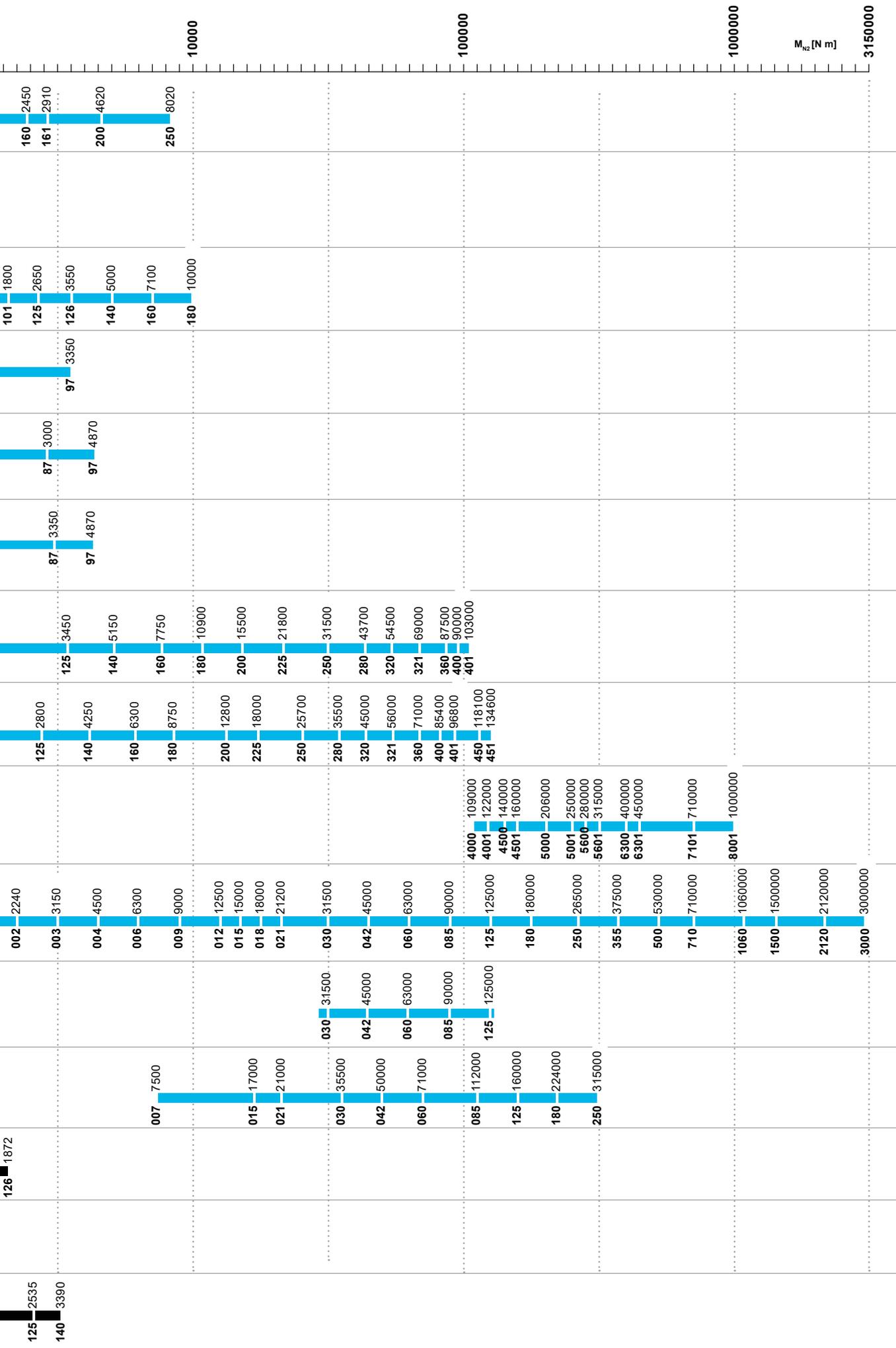


**dDrive**



# Gear reducers and gearmotors





M<sub>N2</sub> [N m]

## Our references



BUILDING MAINTENANCE UNIT  
G SERIES



CONCRETE MIXER  
EP SERIES



BUILDING MAINTENANCE UNIT  
EP SERIES

**We deliver  
reliable  
solutions  
worldwide**



ASPHALT MIXER  
G SERIES



BUILDING MAINTENANCE UNIT  
EP SERIES



ASPHALT MIXER  
G SERIES



CONCRETE MIXER  
EP SERIES

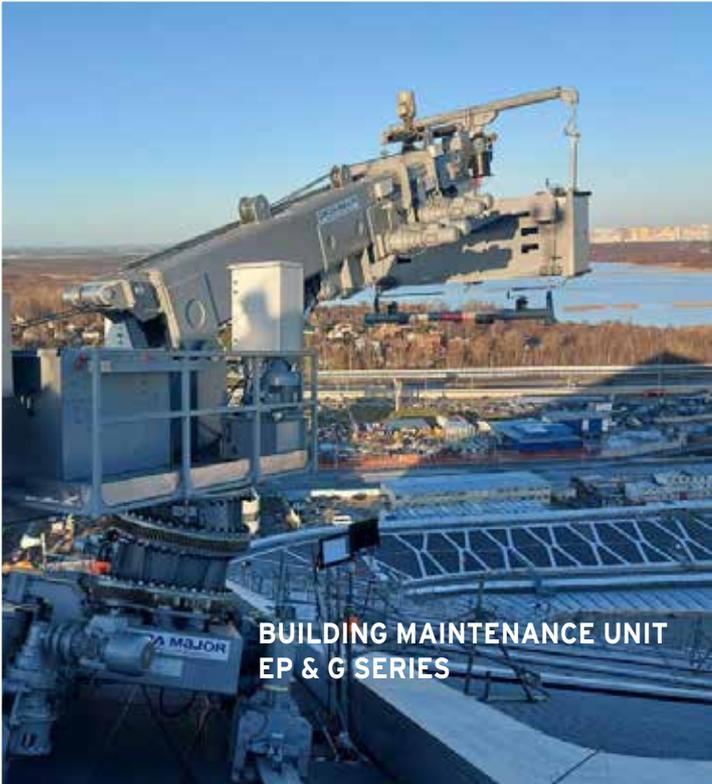


ICE UNIT

BUILDING MAINTENANCE UNIT  
EP & G SERIES



TELESCOPIC CRANE  
EP SERIES



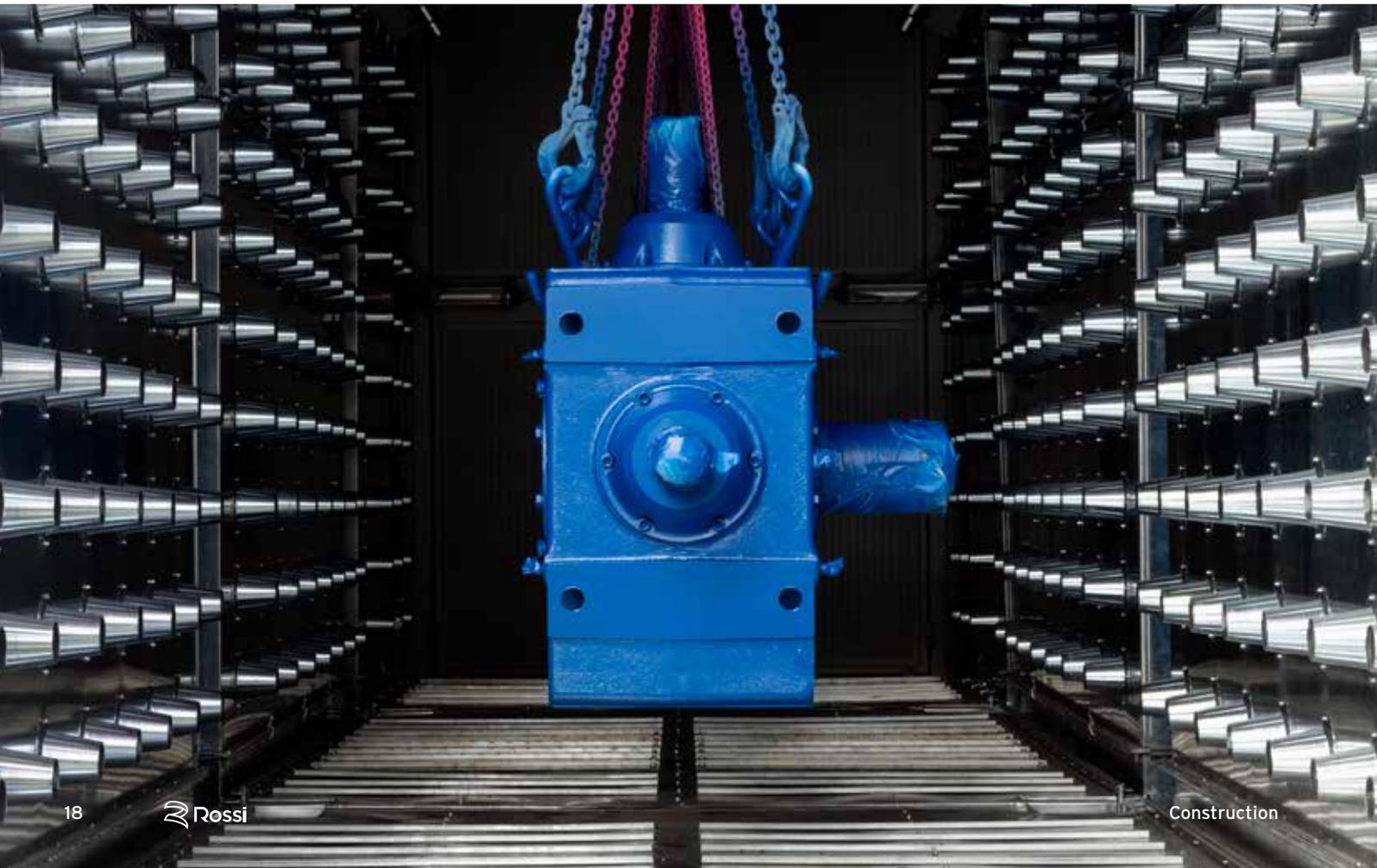
BUILDING MAINTENANCE UNIT  
EP & G SERIES

# 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)



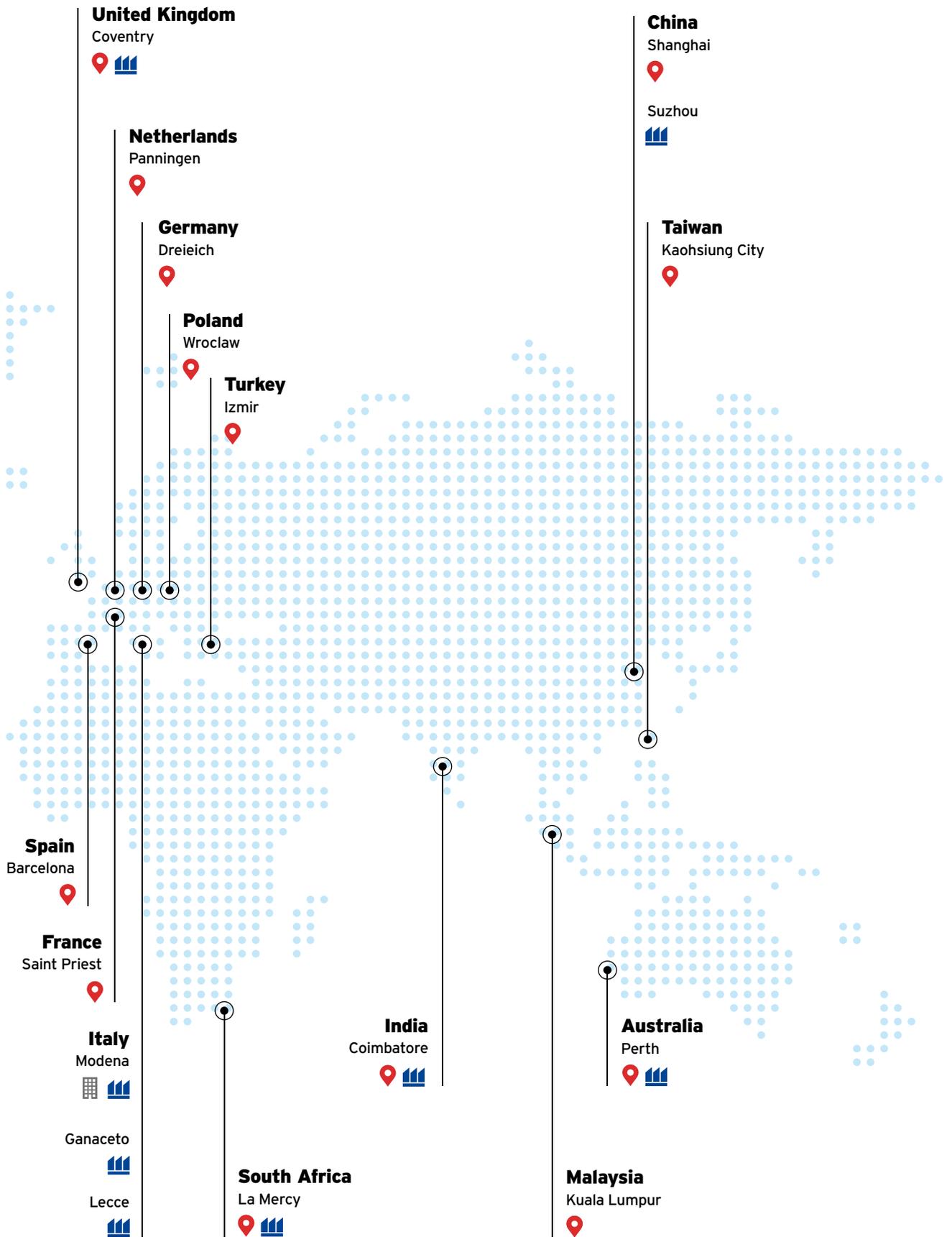
Main offices



Affiliated companies



Production facilities/Assembly plants



# Key figures



over **1000** people around the world



**18** affiliated companies



**5000** customers worldwide



**5** production facilities



**70** years of experience



**8** assembly plants



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



**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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