



Construction

rossi.com



Construction

Rossi ranks amongst the top players in the design and manufacture of a wide range of **garmotors, planetary gear reducers 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.

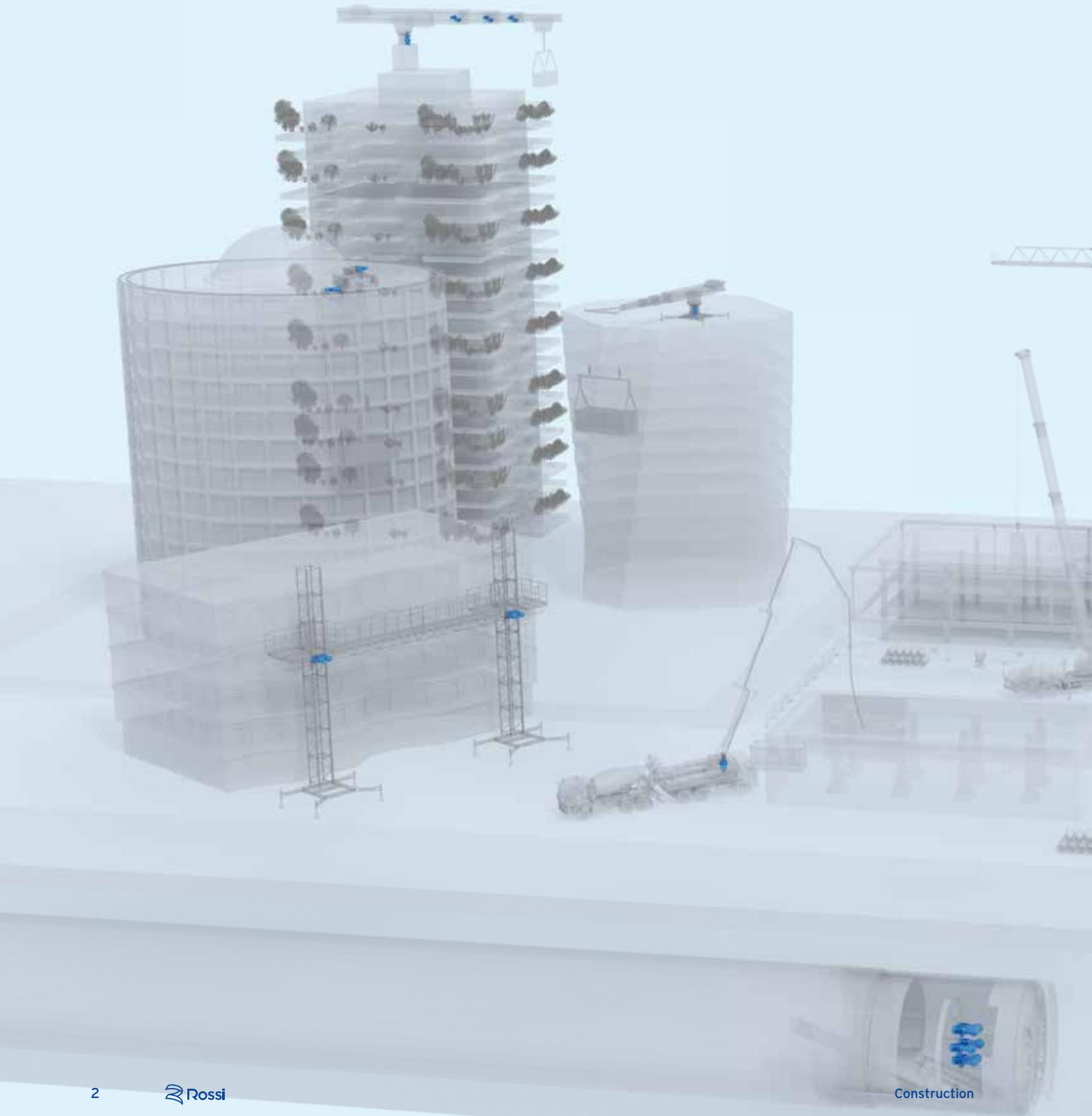
We provide customized and technologically advanced solutions for a wide range of applications, such as **Building Maintenance Units, tower cranes, concrete and asphalt mixers, drill rig drives** and many others, to meet the growing needs of an industry that requires high quality, reliability and flexibility.



Construction

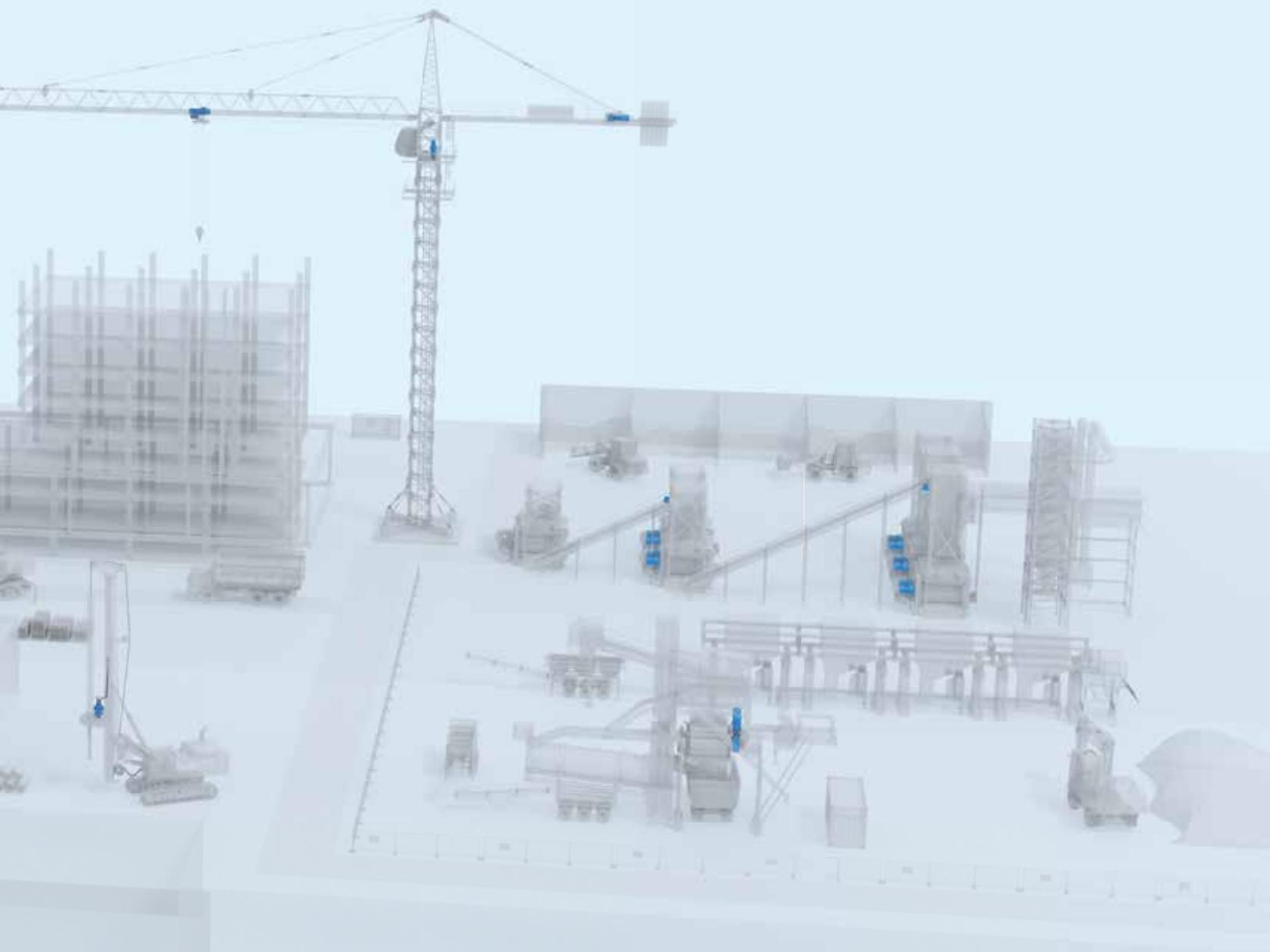


Construction site

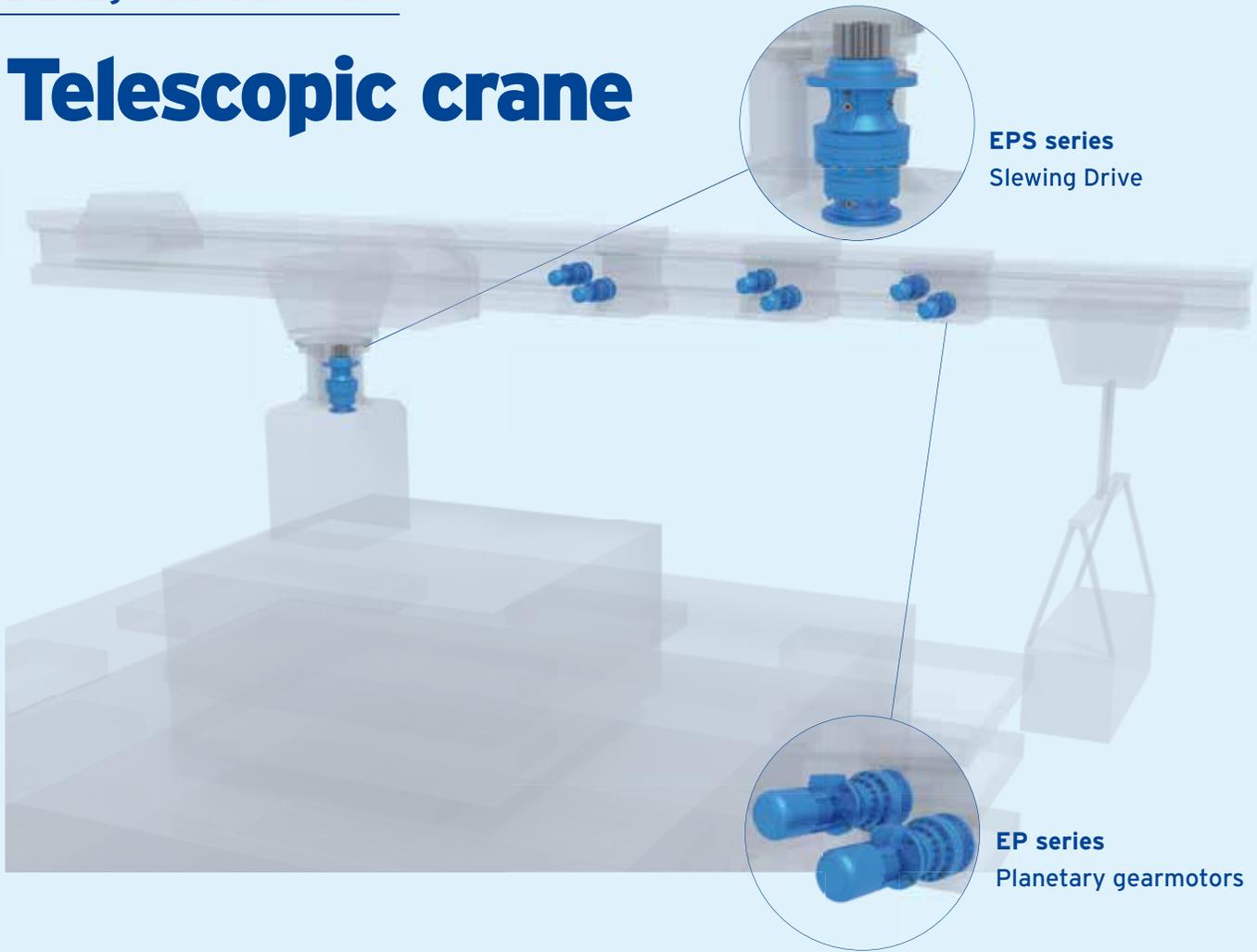




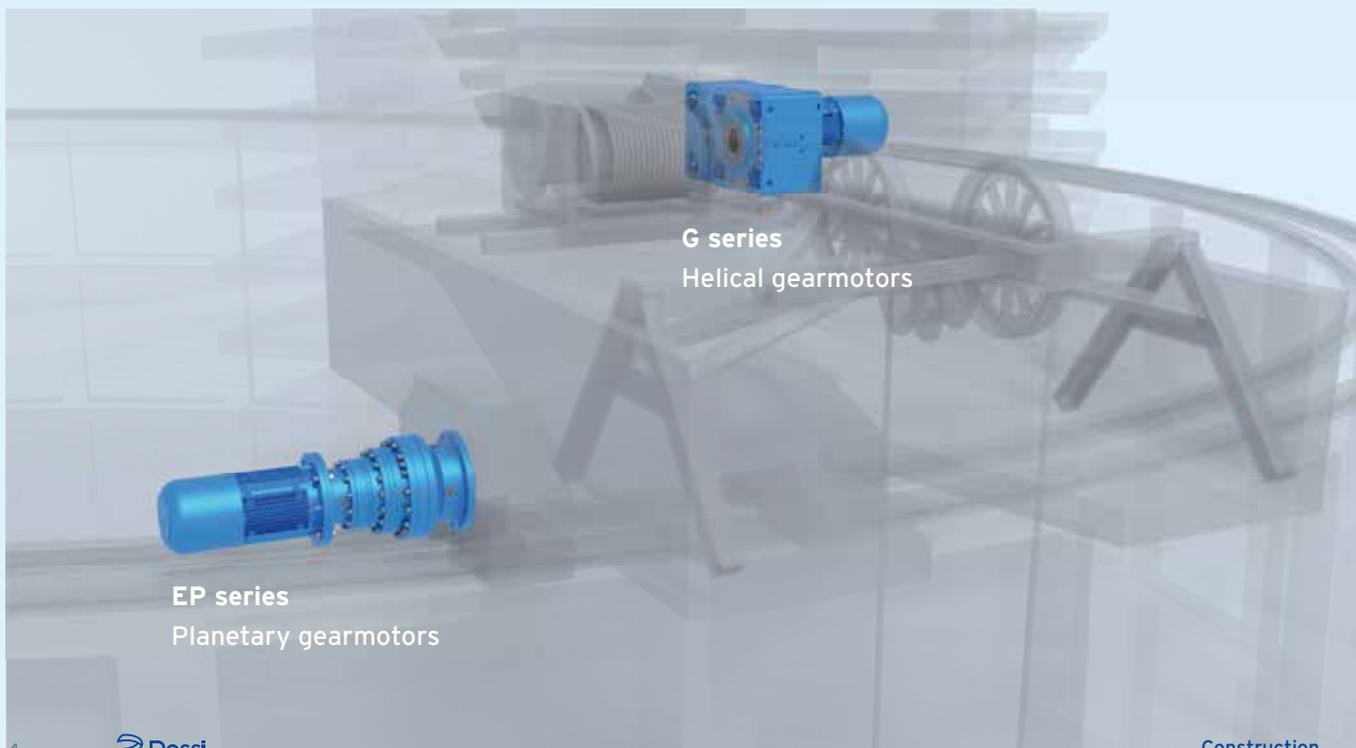
Scan the QR code to
watch the video



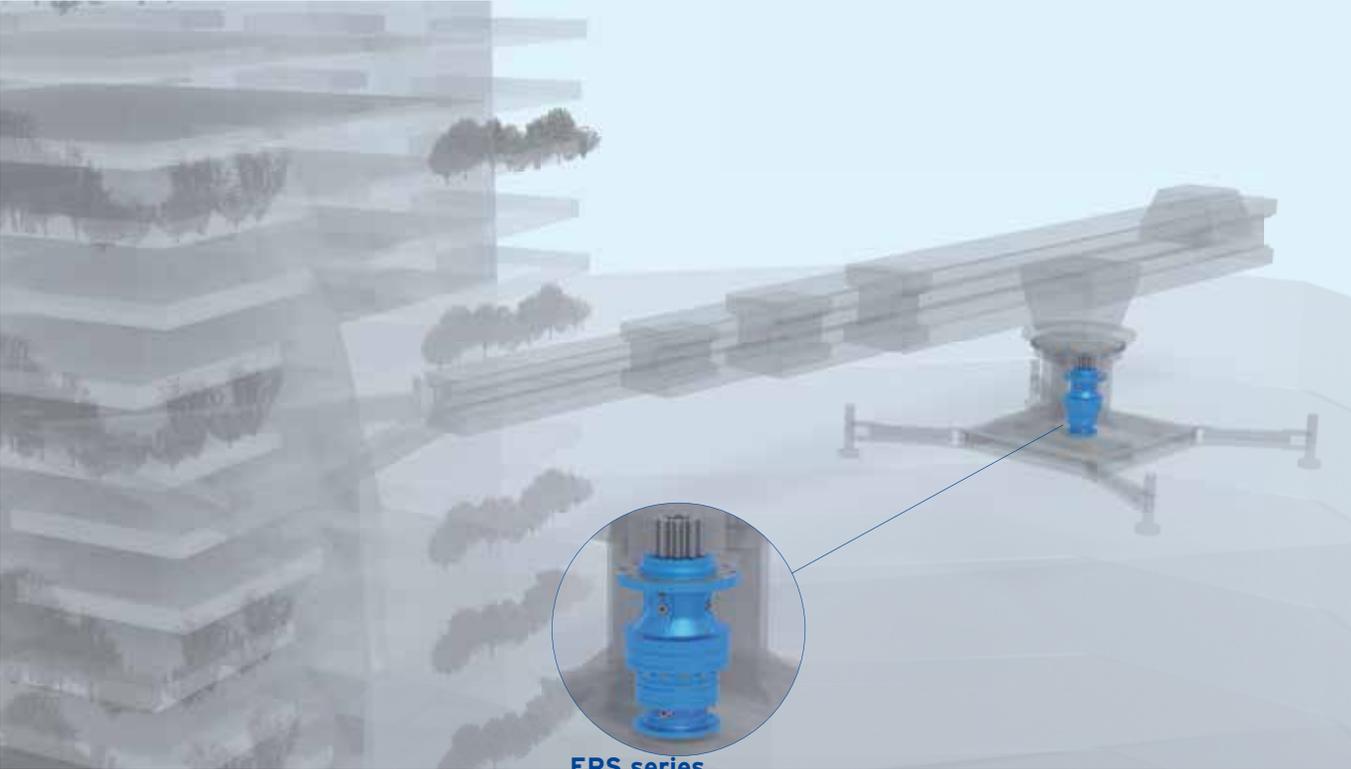
Telescopic crane



Lifting cradle

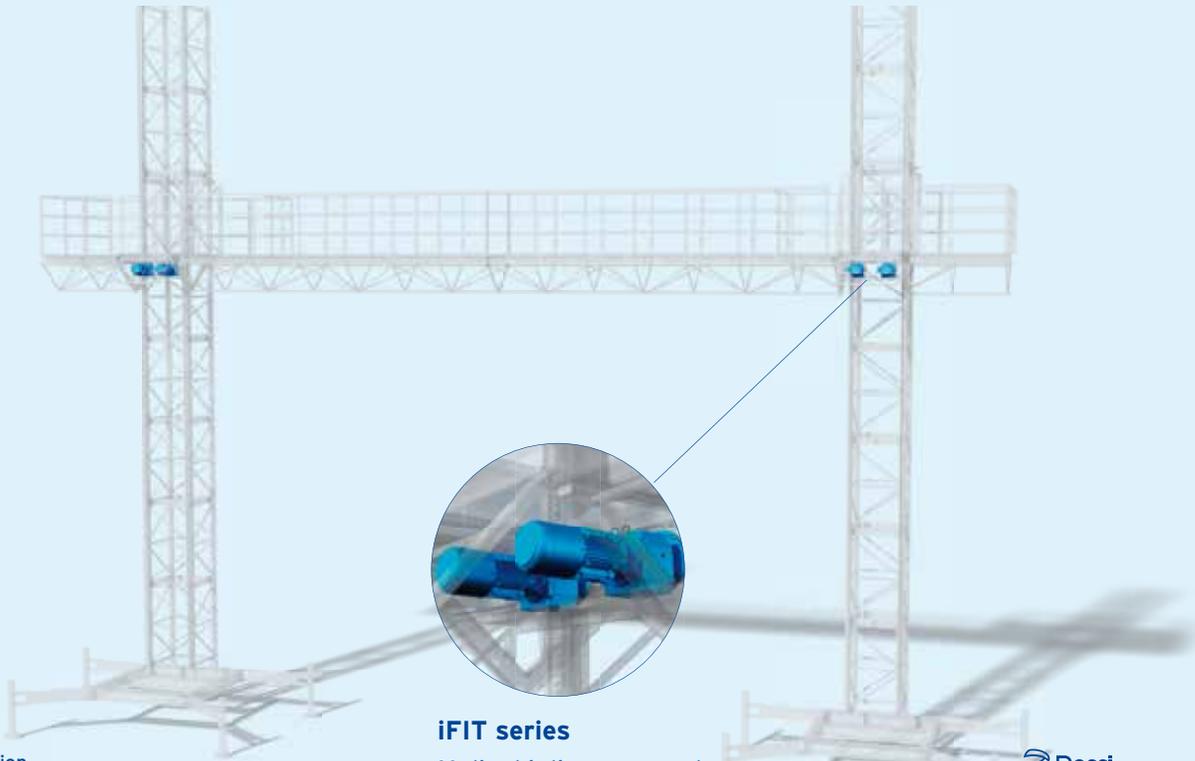


Compact crane



EPS series
Slewing Drive

Rack & Pinion Hoists



Construction

iFIT series
Helical inline gearmotors

Tower crane

Trolley winch



A series
Worm gearmotors

Winch

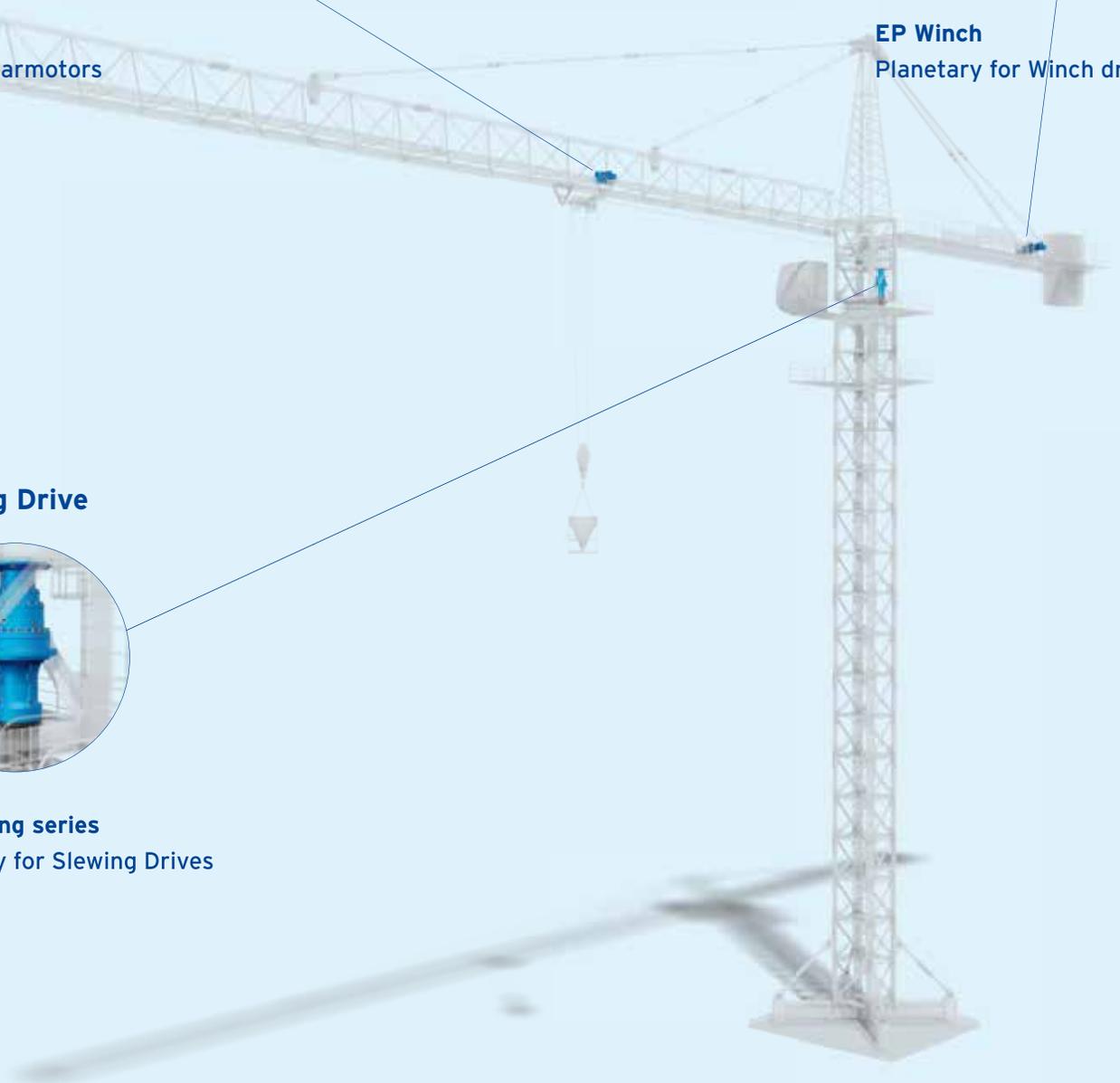


EP Winch
Planetary for Winch drives

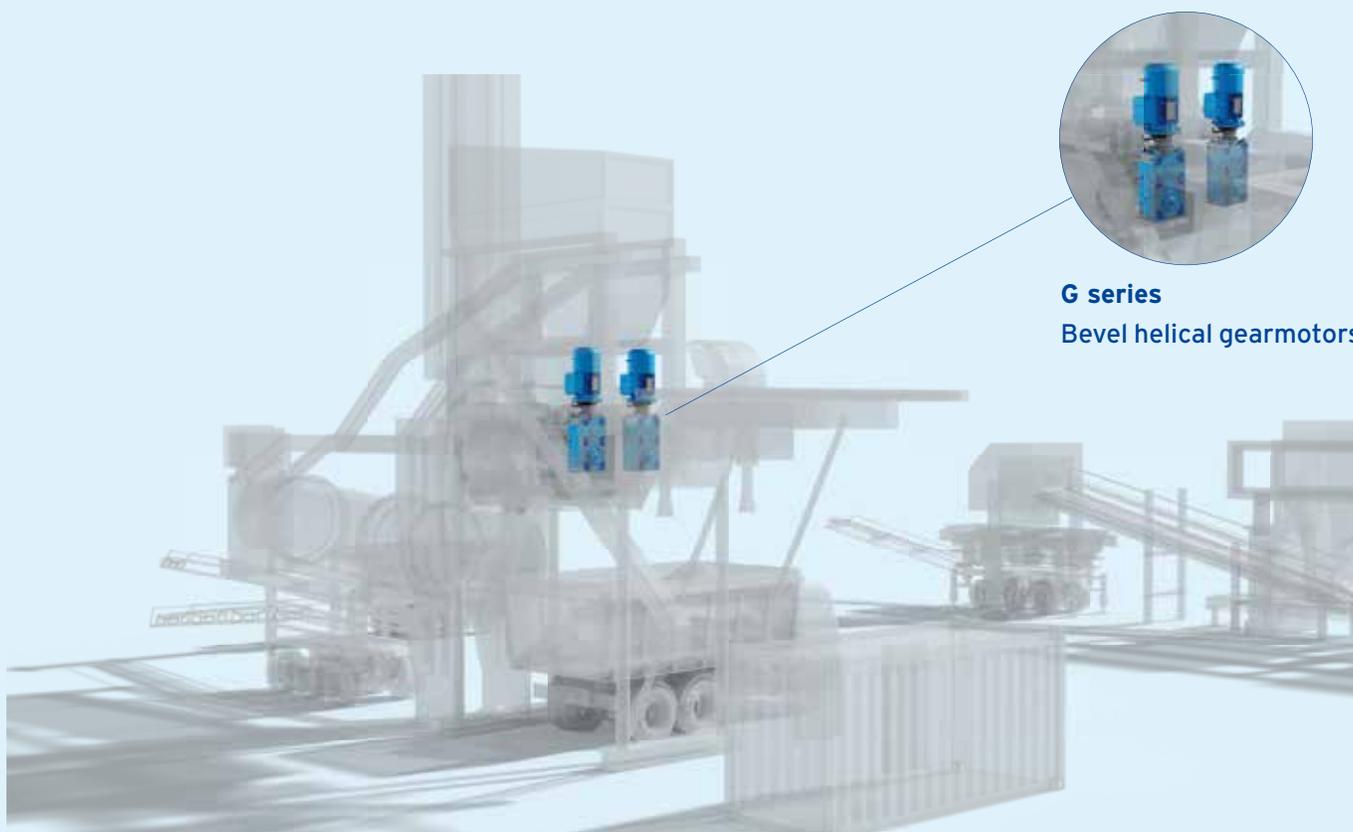
Slewing Drive



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 (T_{N2}) up to 26,550,000 lb in

Transmission ratio (i_N) 3.55 ... to 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 over competitor brands
- Wide range of hydraulic brakes
- Optional synthetic oil

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 (T_{N2}) up to 3,540,000 lb in

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 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 (T_{N2}) up to 26,000,000 lb-in

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 (T_{N2}) up to 900,000 lb in

Transmission ratio (i_N) 2 ... 160

Features

- Universal Monoblock cast Iron or Ductile Iron housing suitable for horizontal and vertical mounting with integral feet and all faces machined for flexible mounting
- Monoblock housing for high structural stiffness
- Wide range of sizes and ratios
- Suitable to be equipped with large NEMA & IEC motors
- Extended center to center distance for crane & hoisting applications
- Case hardened and hardened gear pairs
- Ground and Carburized gearing
- GLEASON spiral bevel gear pairs with ground profile

Benefits

- Easy and functional shaft-mounting design
- Minimum maintenance requirements
- High performance and greater 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 30,000 lb in

Transmission ratio (i_N) 3.4 ... 290



iFIT Series

Bevel helical gearmotors

7 sizes iO 37 ... iO 97

Nominal torque (M_{N2}) up to 32,300 lb in

Transmission ratio (i_N) 5.4 ... 197



iFIT Series

Parallel shaft helical gearmotors

8 sizes iP 27 ... iP 97

Nominal torque (M_{N2}) up to 43,100 lb in

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 (T_{N2}) up to 71,000 lb in

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 (T_{N2}) up to 90,000 lb in

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 monobloc housing
- Helical toothed gear pairs with ground profile
- Wide range of sizes
- Final stage pinion with 3 bearings for increased torque capacity

Benefits

- Longer 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

Sizes - IEC frames 63 to 315

Horsepower capacity 1/8 to 150HP

2, 4, 6 or 8 Pole motors available

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

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

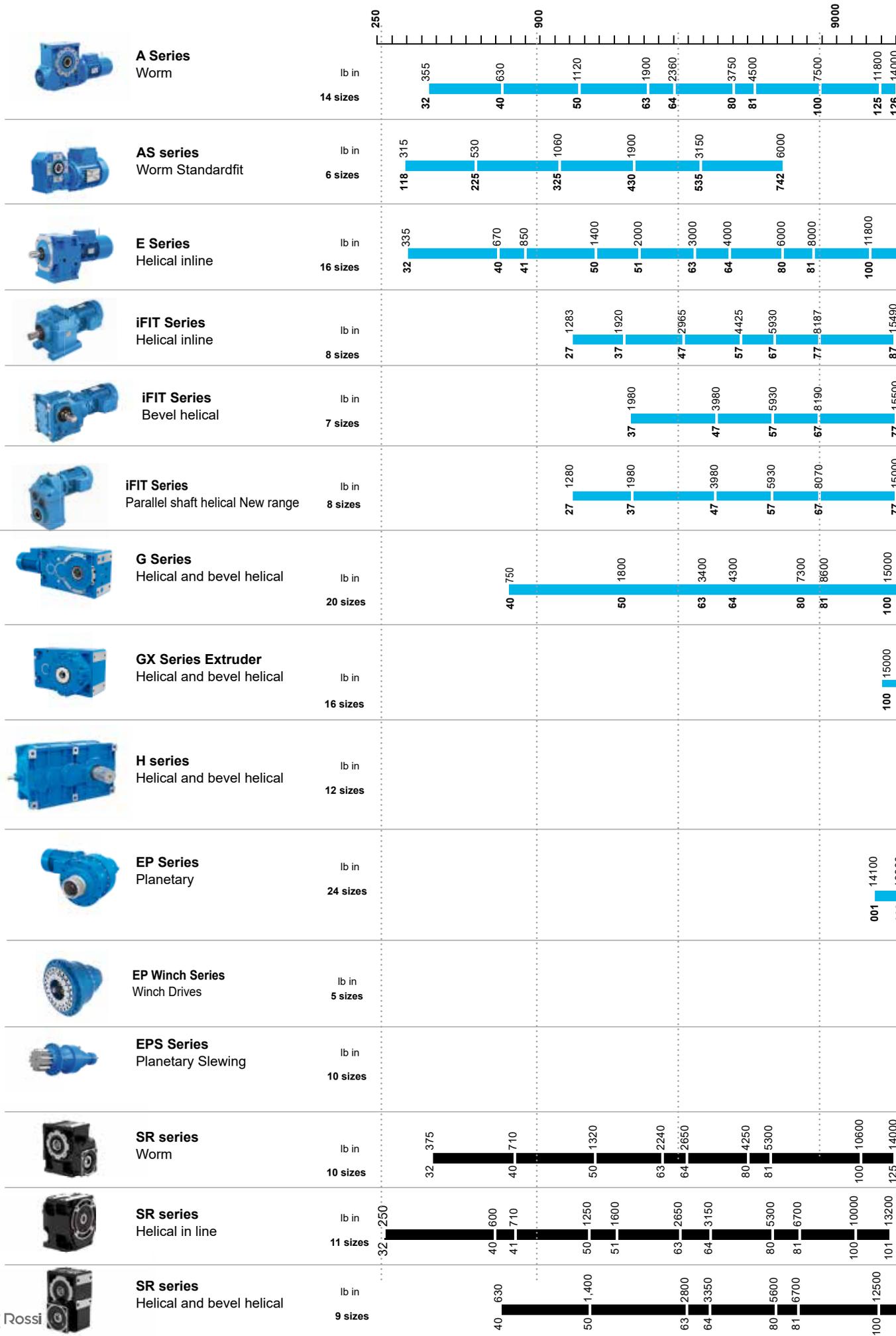
- Reduced electric cabinet dimension and cooling systems
- Compact solution of inverter, motor, and gearbox
- Suitable for hard environmental operating conditions
- No need of motor encoder for speed control
- High Safety Performance Level (up to PL E)
- To develop your own dedicated control functions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



dDrive



Gear reducers and gearmotors





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**



BUILDING MAINTENANCE UNIT



**TELESCOPIC CRANE
EP SERIES**



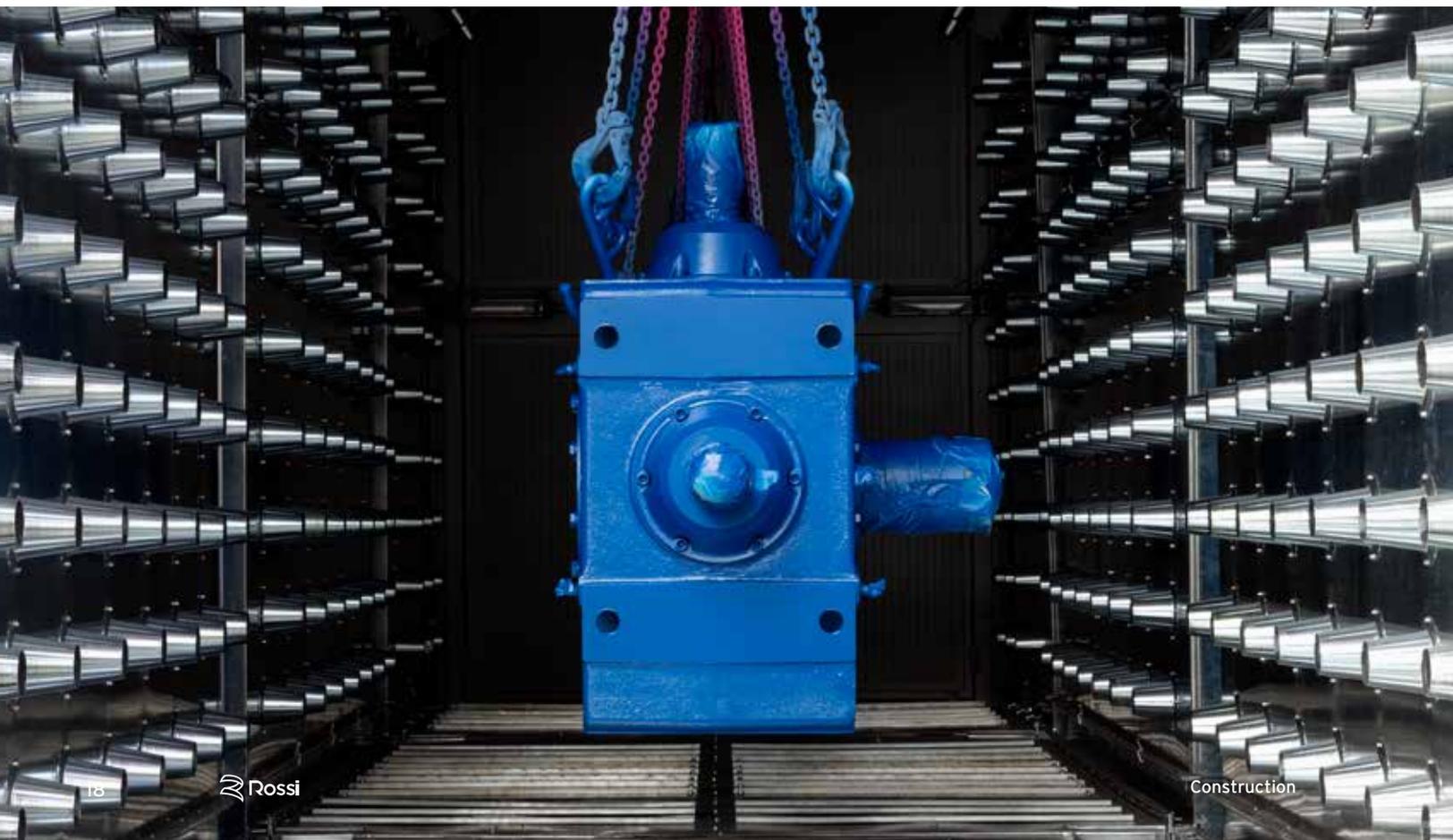
**BUILDING MAINTENANCE UNIT
EP & G SERIES**

Solutions for an evolving industry

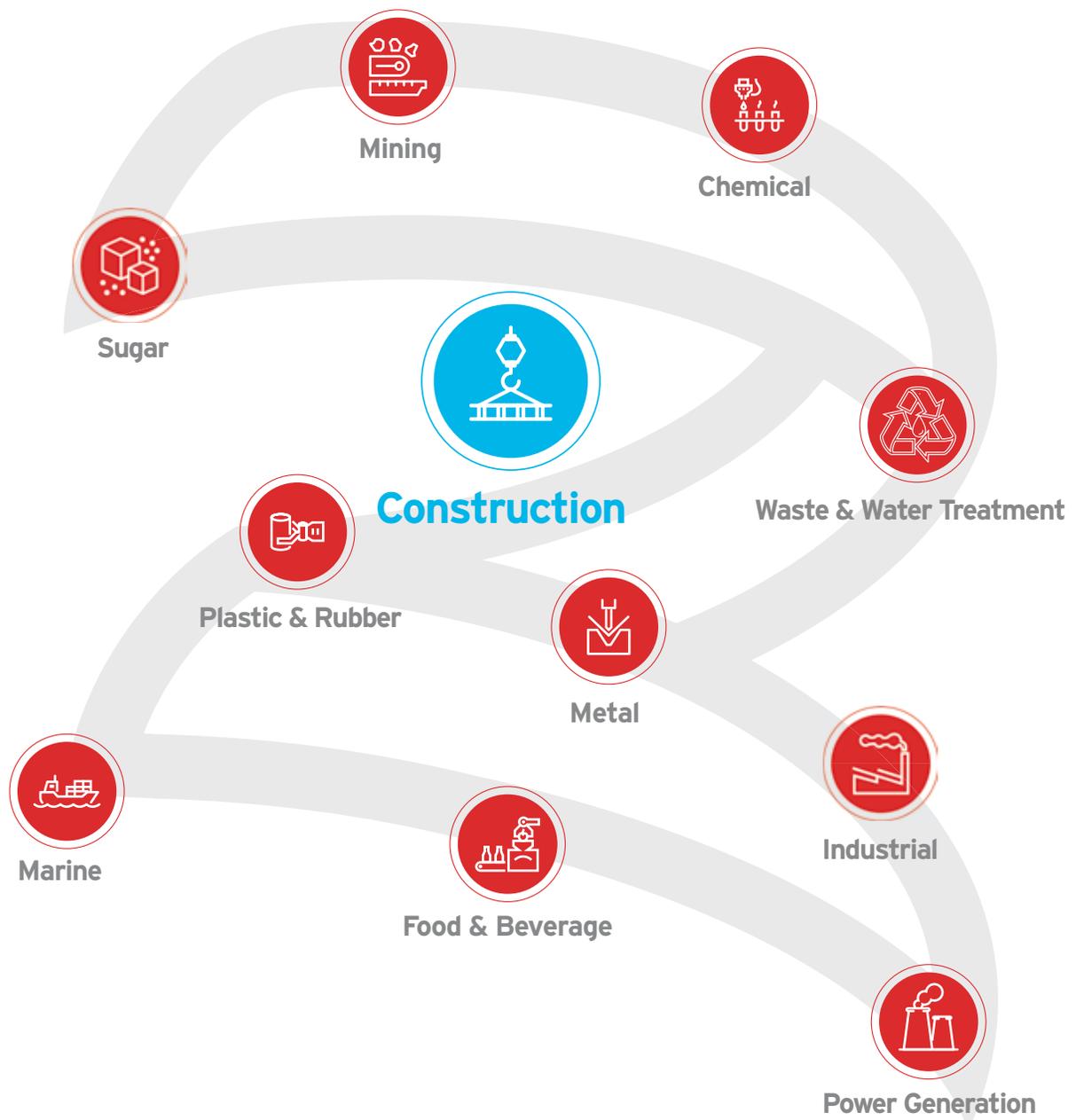
In the global marketplace, our customers, investors, partners value our products and services for two reasons: excellence and reliability. At Rossi, we utilize change as a strategic lever for our growth. "Solutions for an evolving industry" fully expresses our corporate philosophy: We are a flexible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

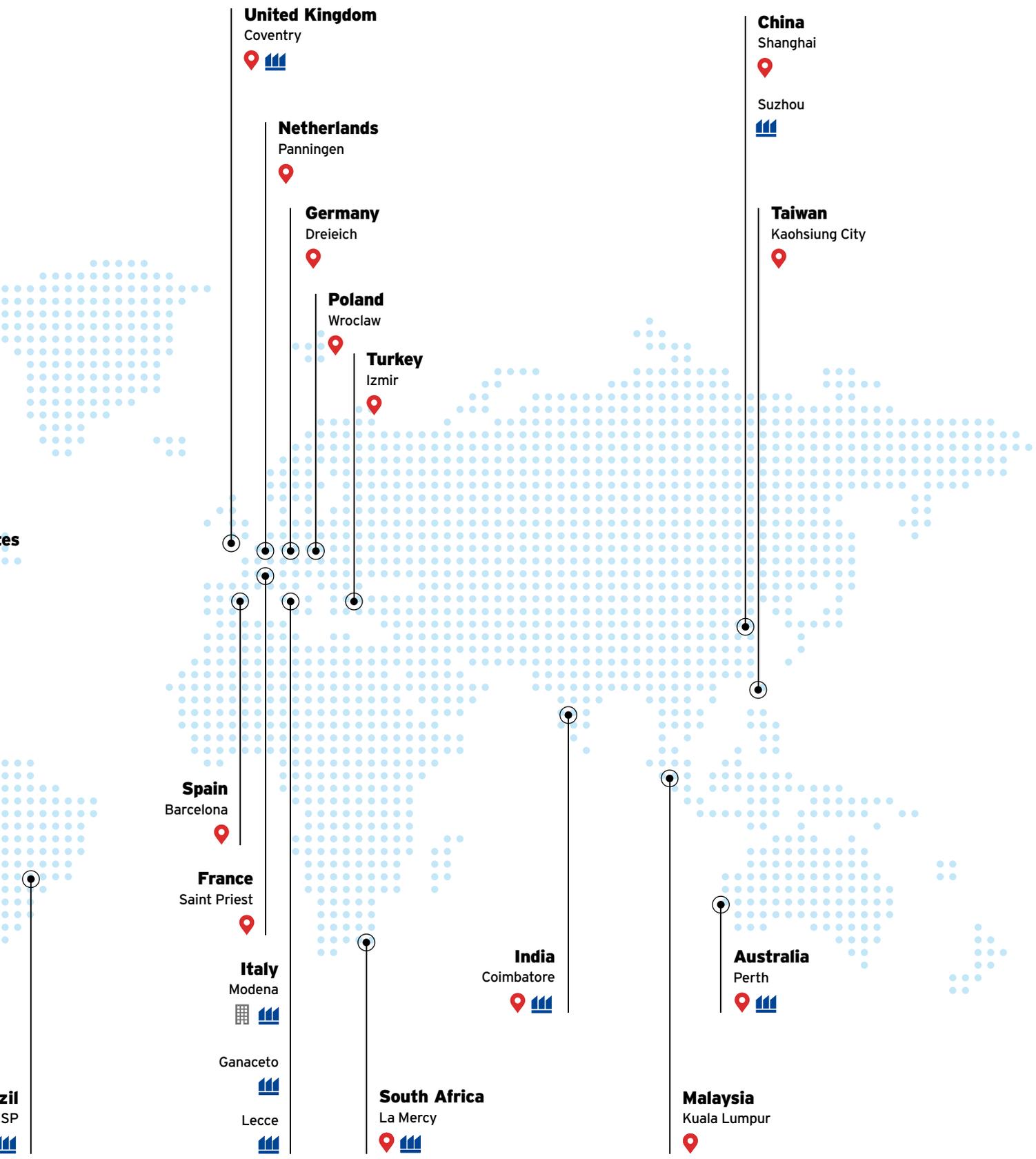


*All contacts available on www.rossi.com

 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

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





Rossi

Solutions for
an evolving
industry

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