



Marine

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Marine

Marine applications play a key role in the challenge for the energy transition. Sustainable solutions for the extraction and distribution of “traditional” raw materials, together with innovative techniques for the production of green energy, require specialized and goal-oriented teams.

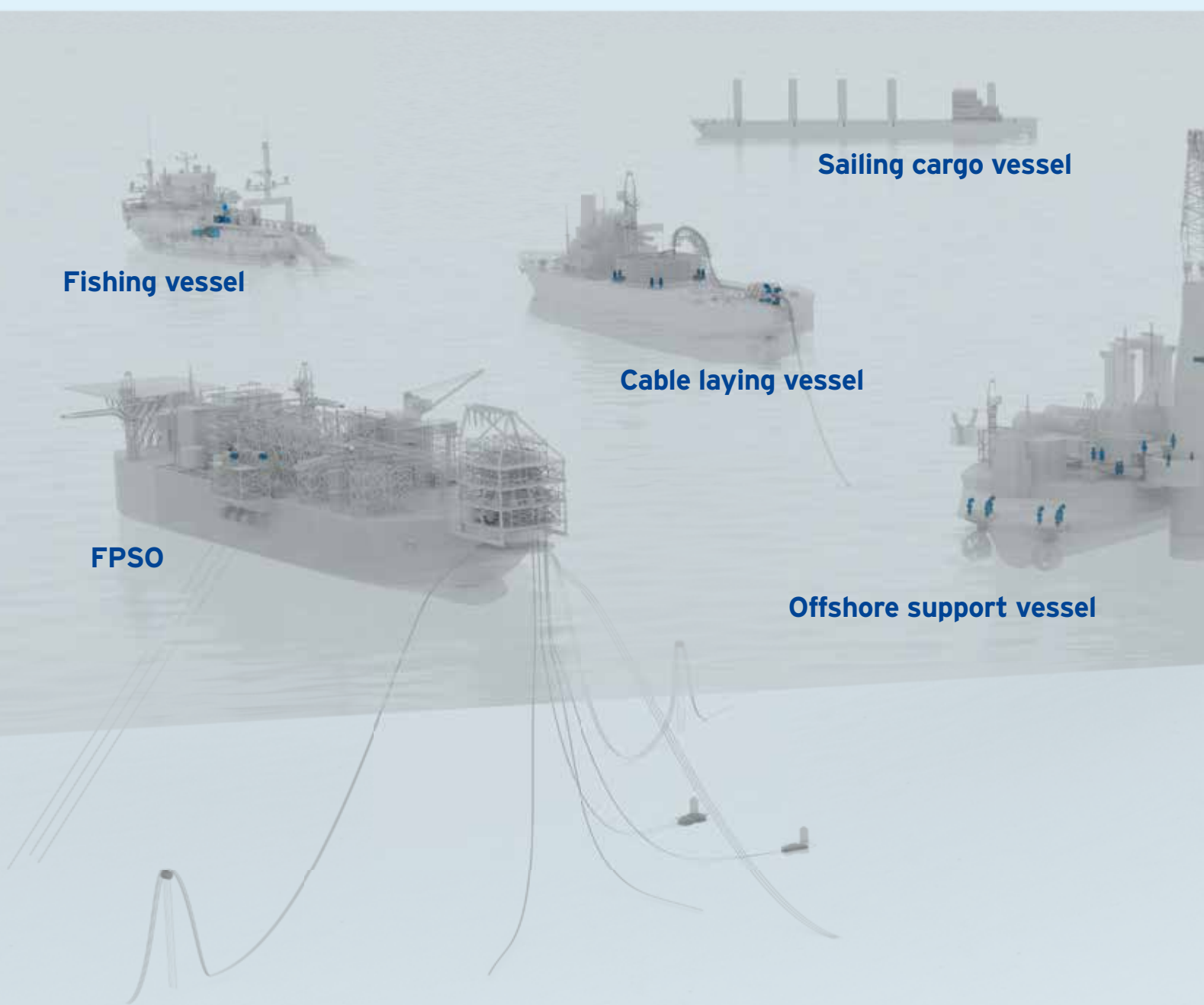
Rossi, with many years of experience in the field of power transmission, is the ideal partner for the construction of onshore and offshore equipment, guaranteeing quality, high performance and efficiency of the products.



Marine



Offshore overview





Scan the QR code to
watch the video



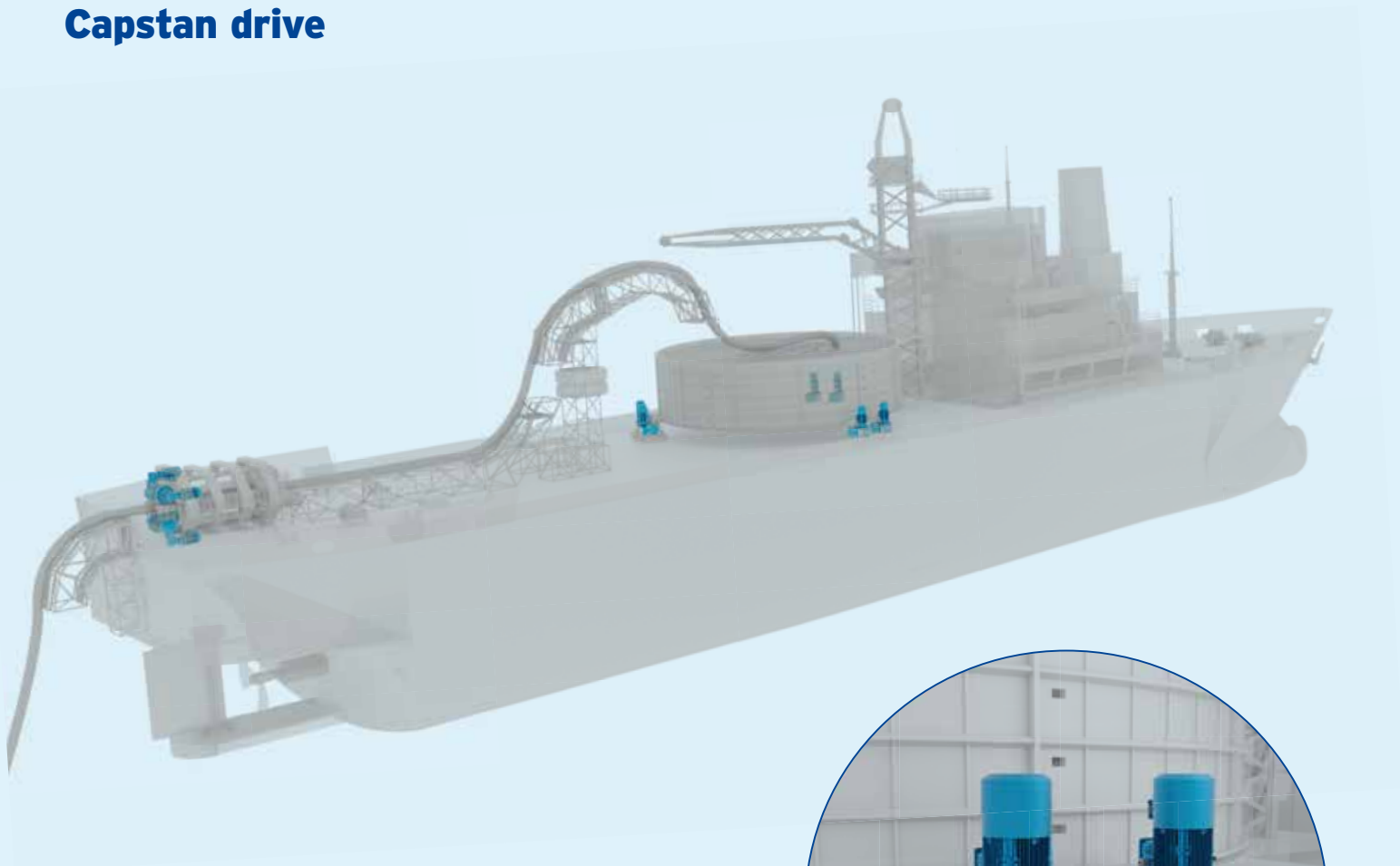
Pipe laying vessel

Cable laying vessel equipment

Carousel drive

Cable laying tensionner

Capstan drive



Helical gearmotor G series



Planetary EP series

Offshore support vessel

Deck cranes

Pile gripper

Azimuth thruster

Fall pipe equipment

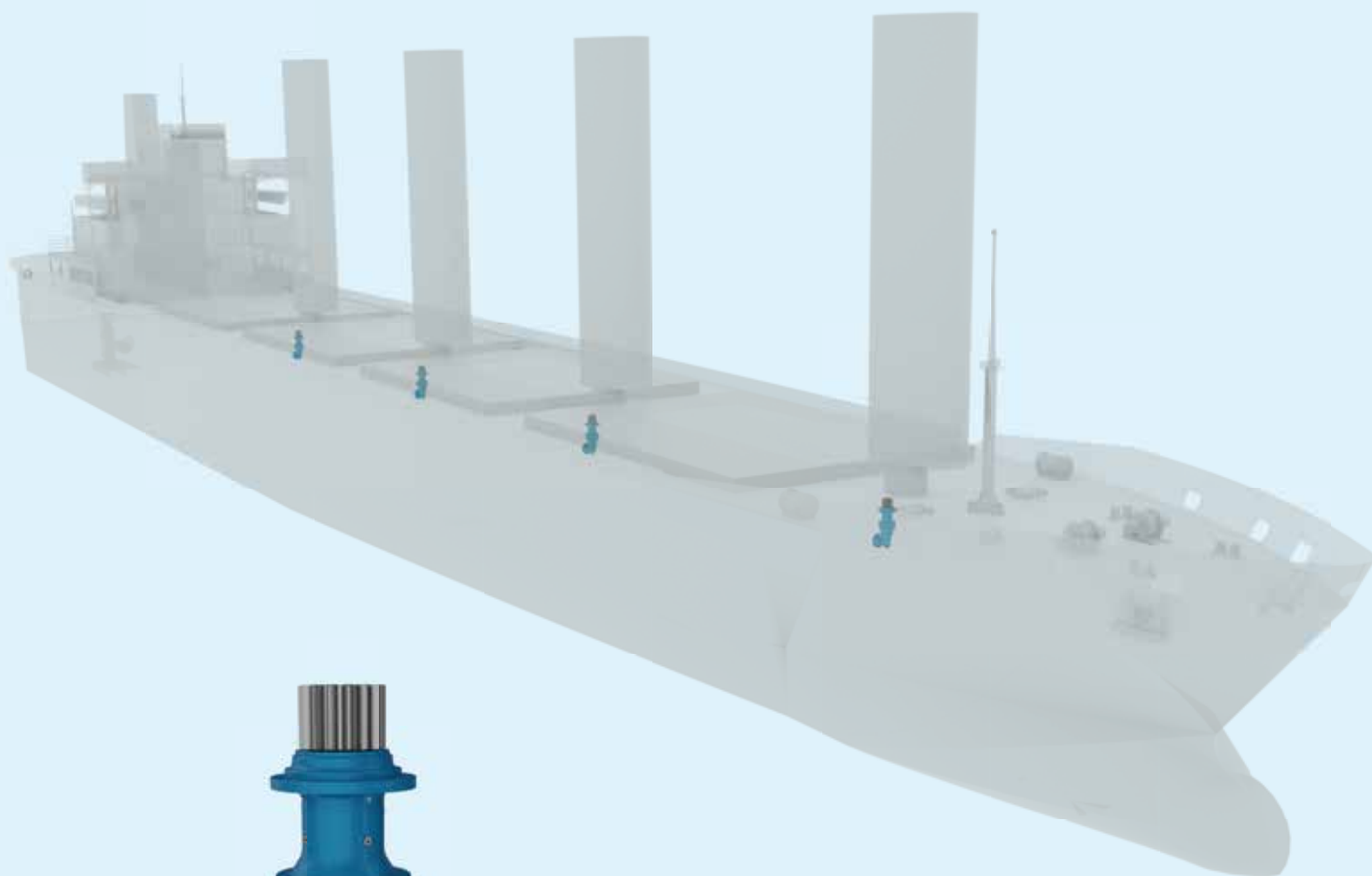


Slewing drives EPS series

Helical gearmotor G series

Sailing cargo vessel

Sail orientation system



Slewing drives EPS series

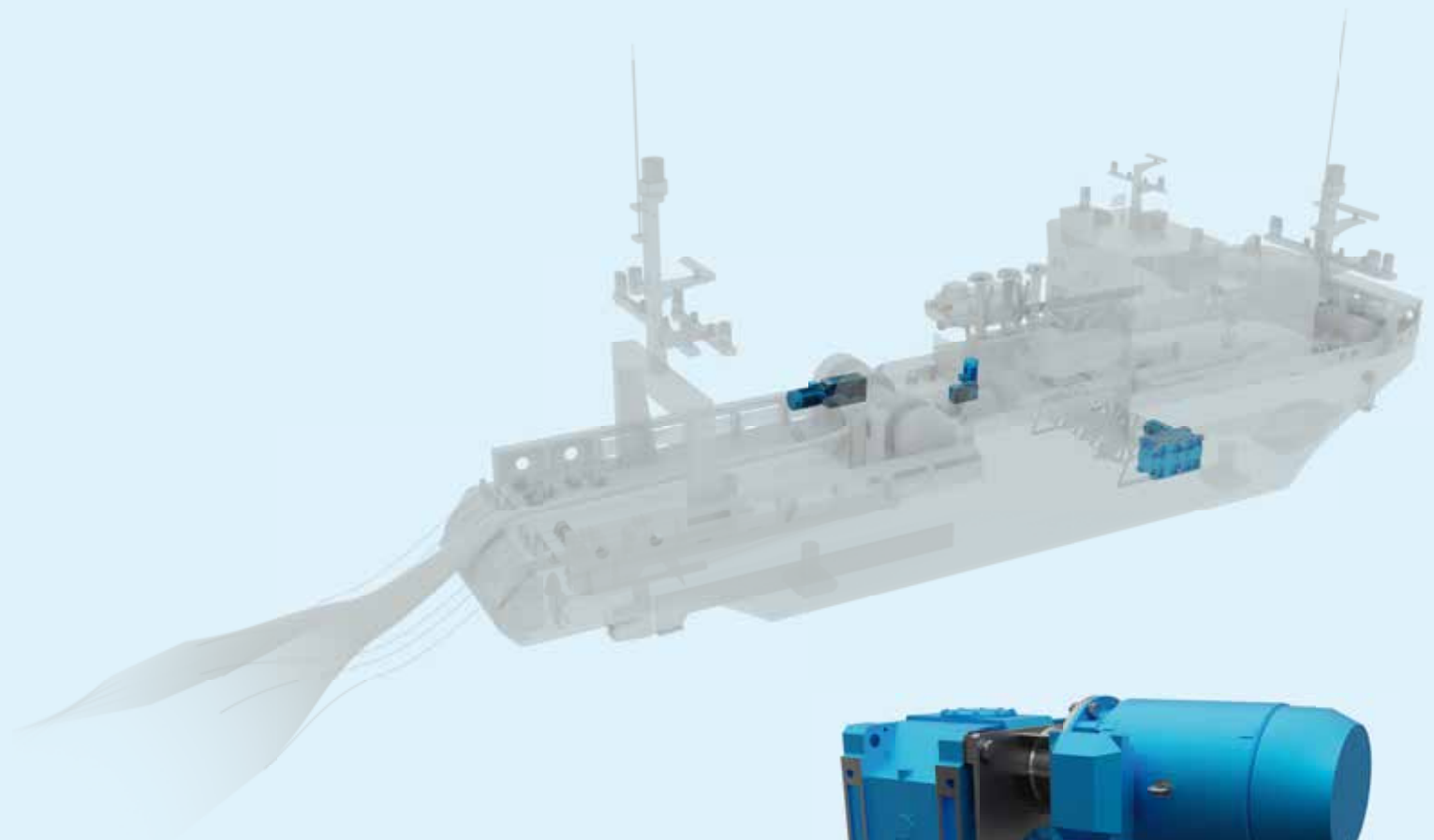
Fishing vessel

Net drum winches

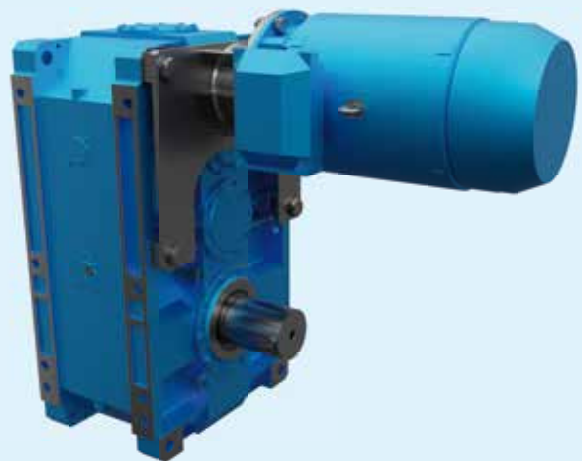
Anchor & Mooring winches

Sweepline winches

Capstan



Bevel helical gearmotor G series

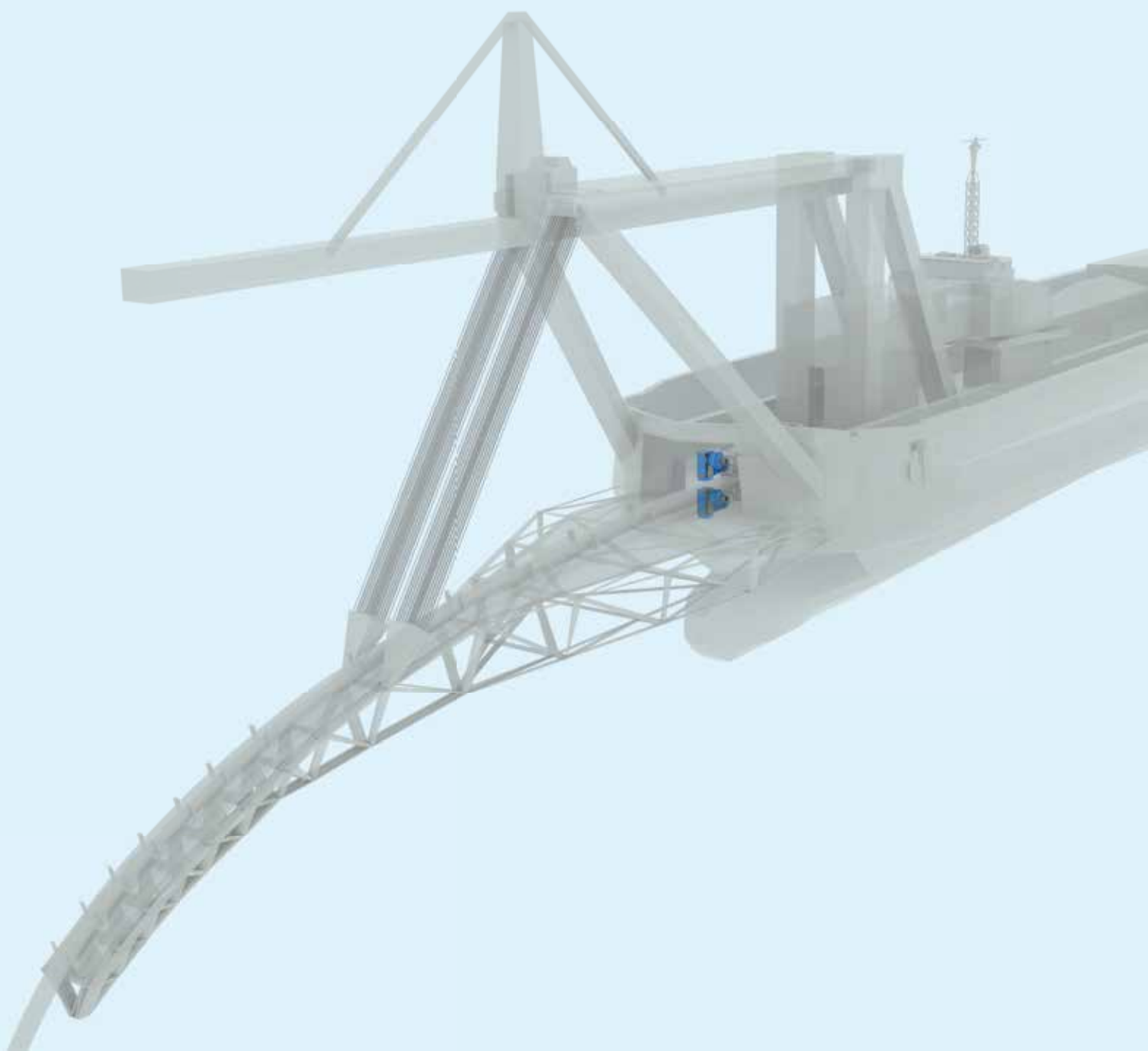


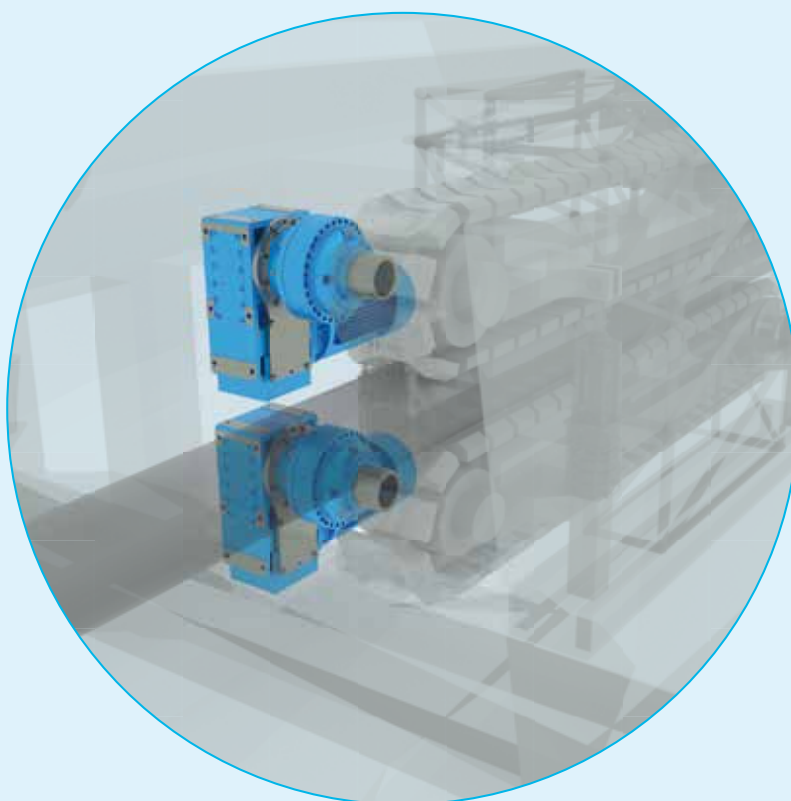
Helical gear reducer H series

Pipe-laying vessel

Deck cranes

Pipe tensioner





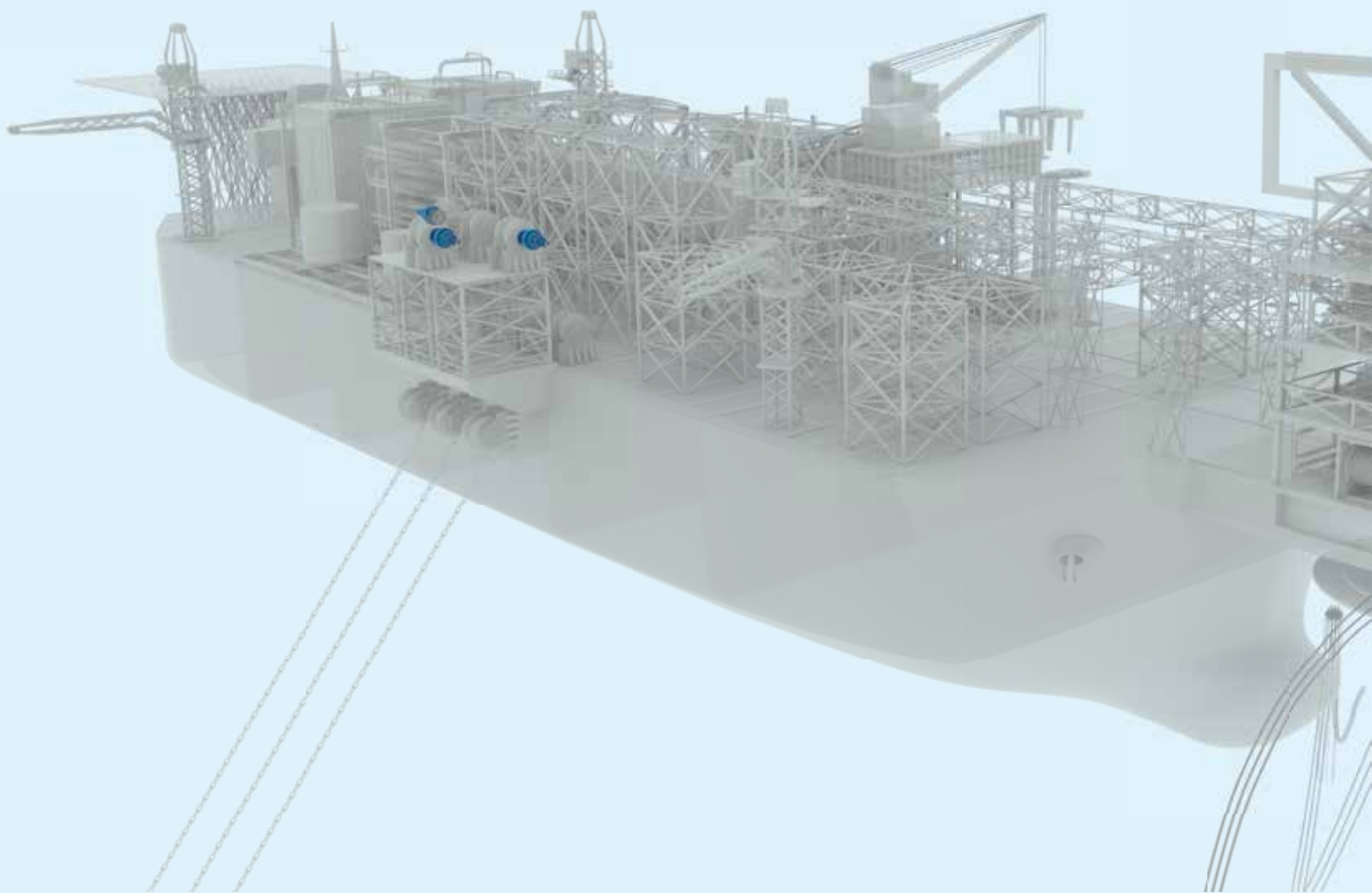
Bevel helical planetary combined unit

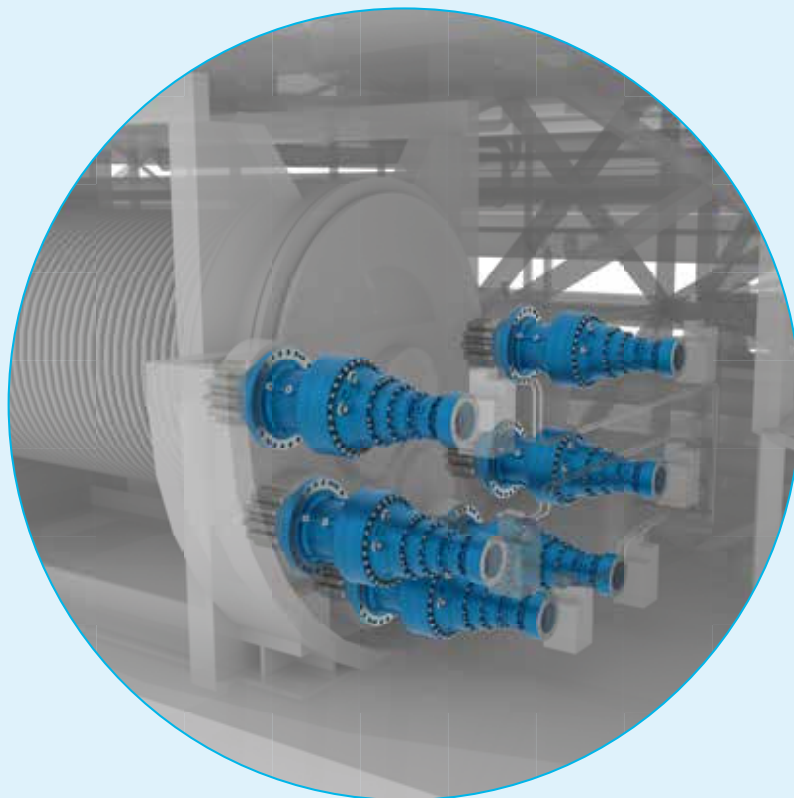
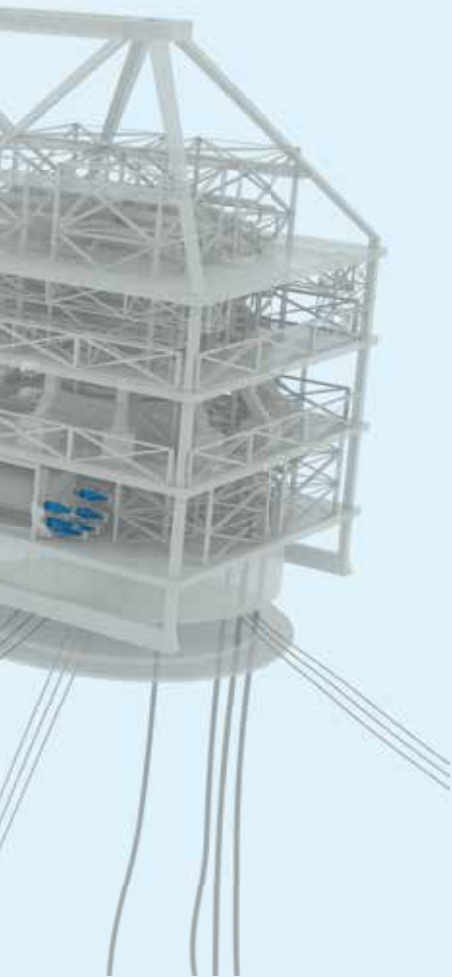
FPSO equipment

Mooring winches

Riser pull-in winches

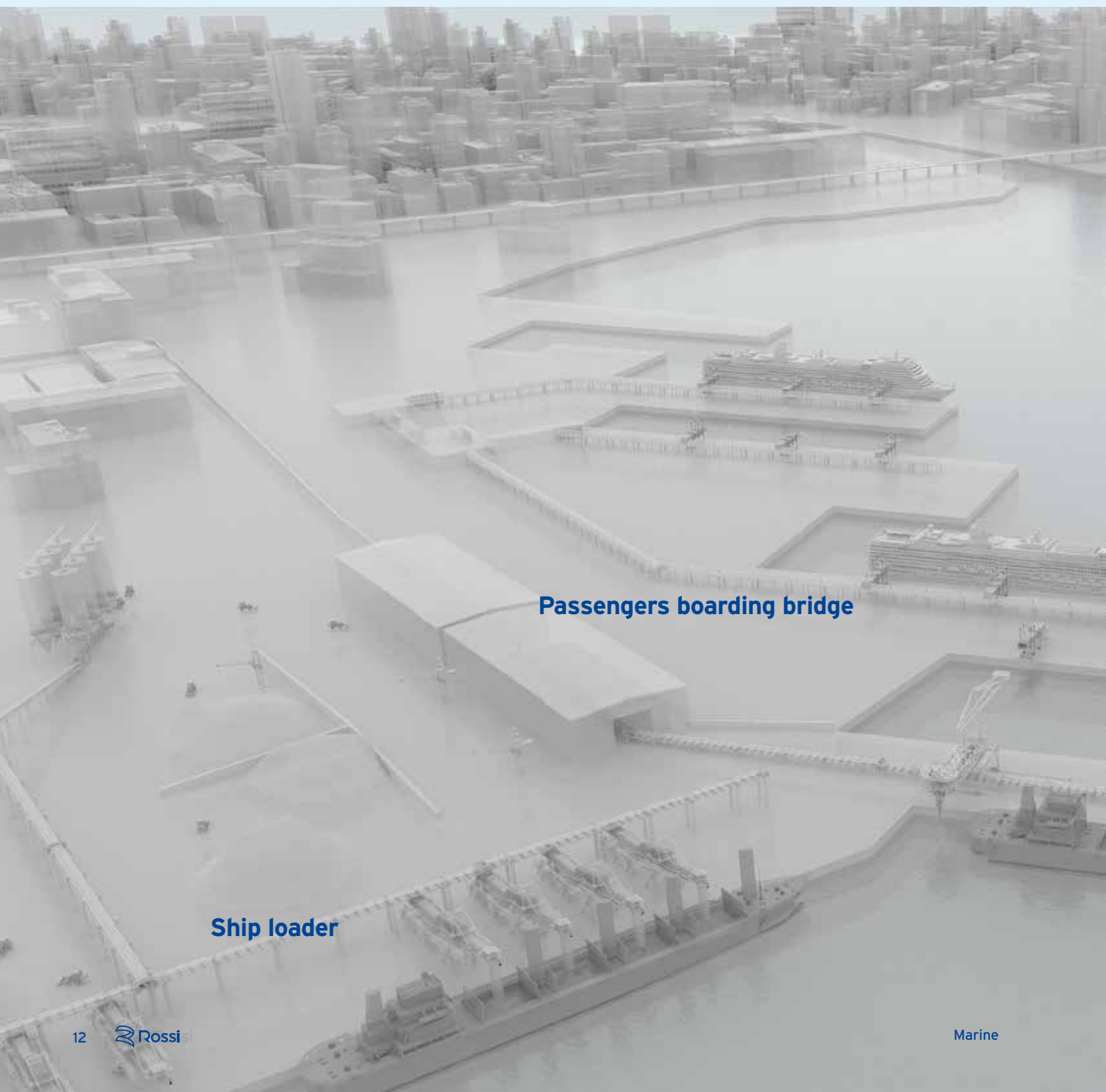
Auxiliary winches





Slewing drives EPS series

Port equipment



Passengers boarding bridge

Ship loader



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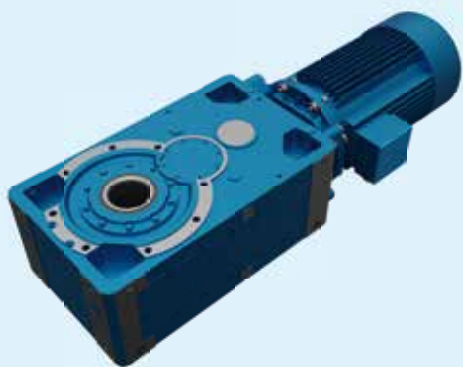
Ship To Shore

Ship unloader

Passenger boarding bridge

Hoisting

Trolley



Bevel helical gearmotor G series



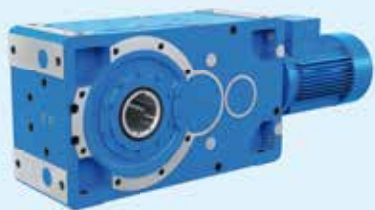
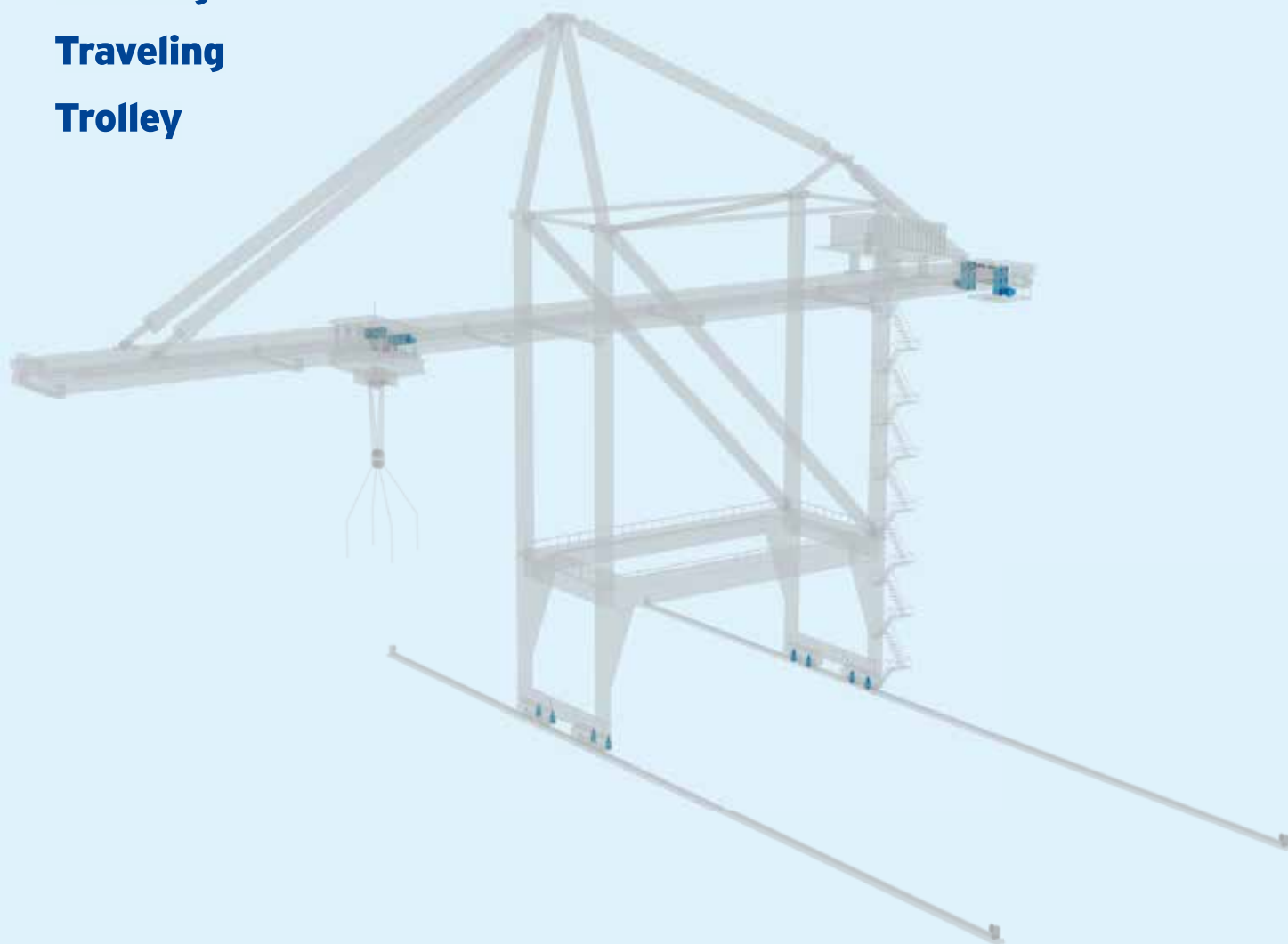
Planetary gearmotor EP series

Ship To Shore

Hoisting

Traveling

Trolley



Bevel helical gearmotor G series



Helical gear reducer H series

Ship loader (dry bulk material)

Belt conveyor

Turret slewing drive

Trolley



Helical & Bevel helical G series



Slewing drive EPS series

Ship unloader (dry bulk material)

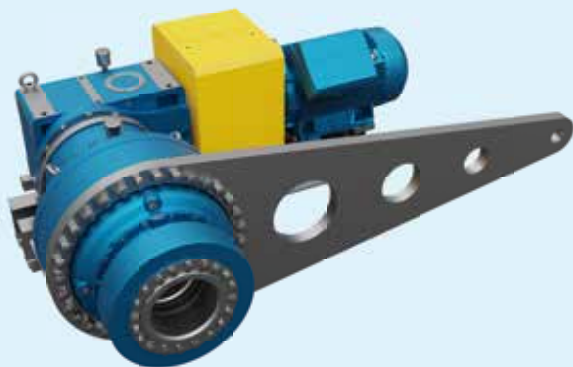
Belt conveyor

Main slewing drive

Turret slewing drive

Bucket chain conveyor

Trolley



Bevel helical planetary combined unit



Slewing drive EPS series

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

- 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



H Series

Helical & bevel helical gear reducers

12 sizes 4,000 ... 8,001

Nominal torque (M_{N2}) up to 8,850,000 lb in

Transmission ratio (i_N) 8 ... 315

Features

- Universal spheroidal cast iron housing suited for horizontal and vertical mounting having integral feet
- Two-piece housing with stiffening ribs for high structural stiffness and high oil capacity
- 12 sizes, train of gears solutions and non-standard designs
- Helical gear units with 2 and 3 gear stages
- Bevel helical gear units with 1, 2 and 3 gear stages
- Case hardened and hardened gear pairs
- Helical gear pairs with ground profile
- GLEASON spiral bevel gear pairs with ground profile

Benefits

- One of the widest torque range from a single supplier
- Customized solutions on request starting from a standard modular design
- Short delivery times
- Optimized design for heavy industry applications
- Wide range of accessories available



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
- 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



EP Combined Units Series

Combined planetary gear reducers & gearmotors

24 sizes 001 ... 3,000

Nominal torque (M_{N2}) up to 26,550,000 lb in

Transmission ratio (i_N) according to Customer's requirements

Features

- Planetary drives combined with other Rossi products to optimize performances
- Possible combinations with standard Rossi products utilizing planetary drives in conjunction with worm, inline, helical or bevel drive/gearmotors

Benefits

- Flexibility and adaptability to specific application needs
- Large thermal capacity
- High torque density
- Unlimited reduction ratios available



EPS Slewing Series

Planetary Slewing drives

10 sizes 007 ... 250

Nominal torque (M_{N2}) up to 3,540,000 lb in

Transmission ratio (i_N) 12.5 ... 2,800

Excellent specific series from the standard EP series

Additional features

- 10 modular sizes
- 3 different output supports: Dual pilot flange (R), Dual compact pilot design (S), single pilot flange (H)
- Loose or integral slewing pinions available
- Wide range of hydraulic brakes

Additional benefits

- Wide range of drives allows for very high performance while being cost-efficient



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
- 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



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



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 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 complex executions available (encoders, axial cooling, increased protection, etc.)

Benefits

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

dDrive Inverter Series

Decentralized Drive

Sizes A, B, C

3/4HP to 10HP available

Supply Voltage 3x200V AC...480V AC

280V DC...680V DC

Rated current 1.7A...16.5A



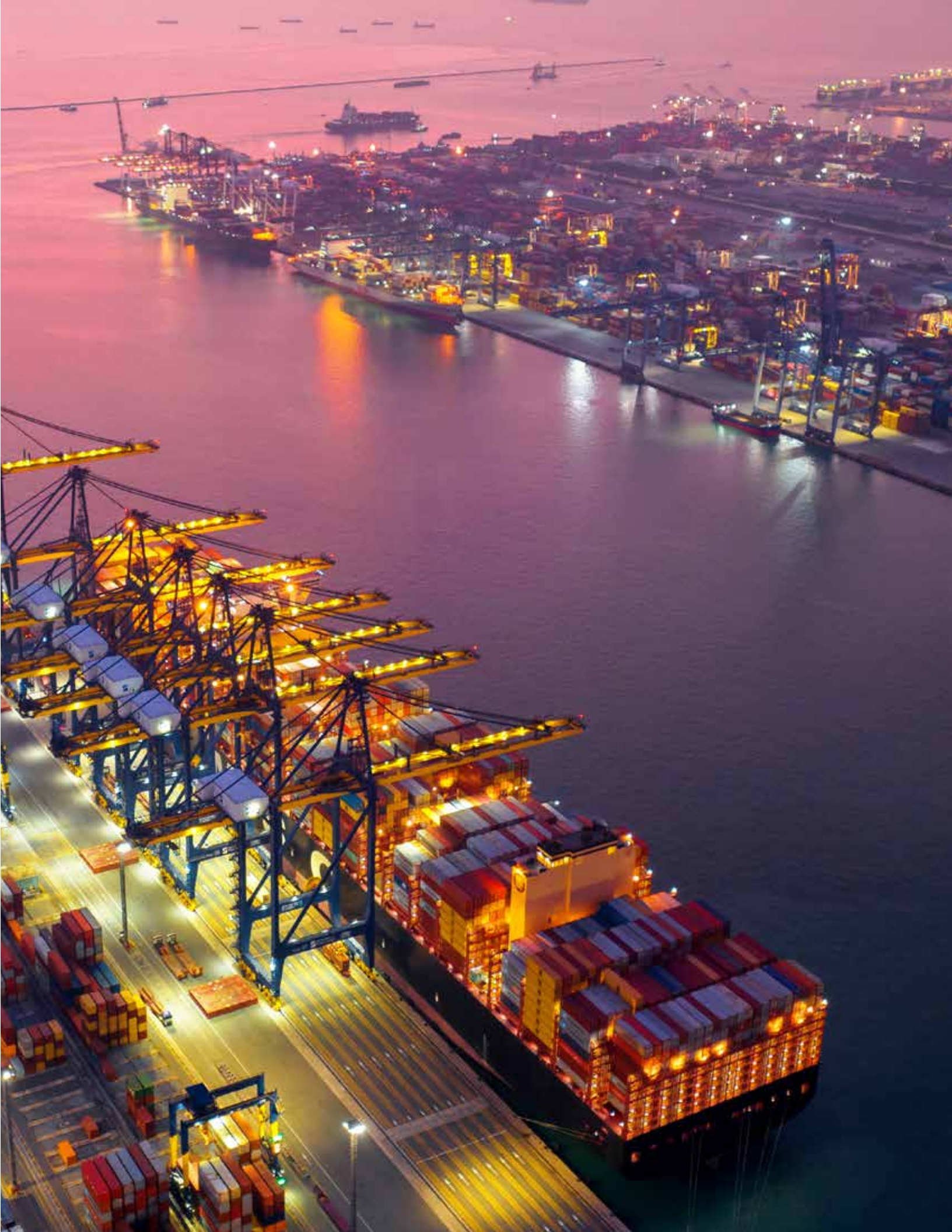
dDrive

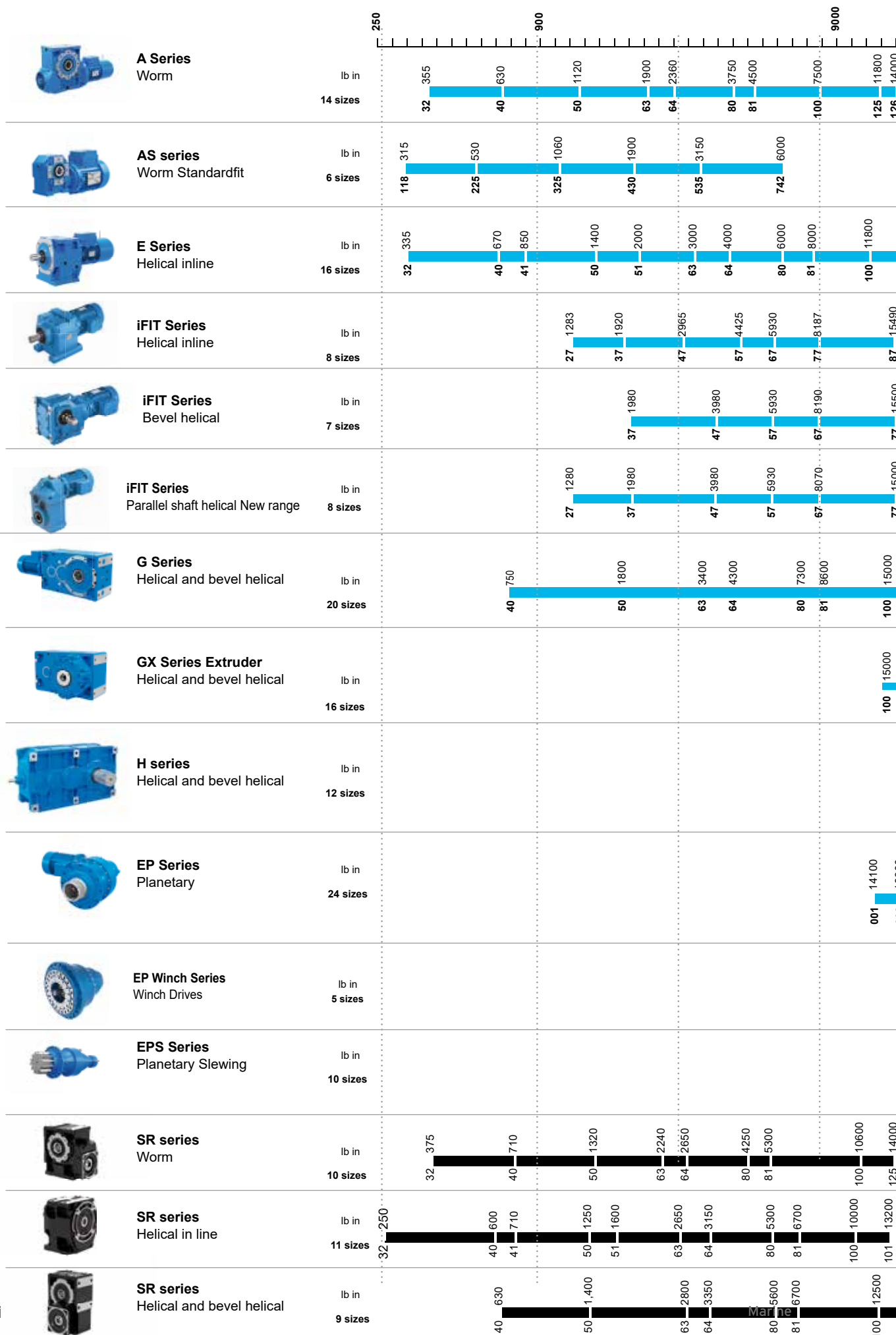
Features

- 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







Our references



FPSO
Mooring system



SHIP TO SHORE



**We deliver
reliable
solutions
worldwide**



SHIP PASSENGER BOARDING BRIDGE





DECK CRANE



PIPE-LAYING VESSEL



BULK MATERIAL SHIP LOADER



CAROUSEL DRIVE



OFFSHORE SUPPORT VESSEL



BULK MATERIAL SHIP LOADER

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



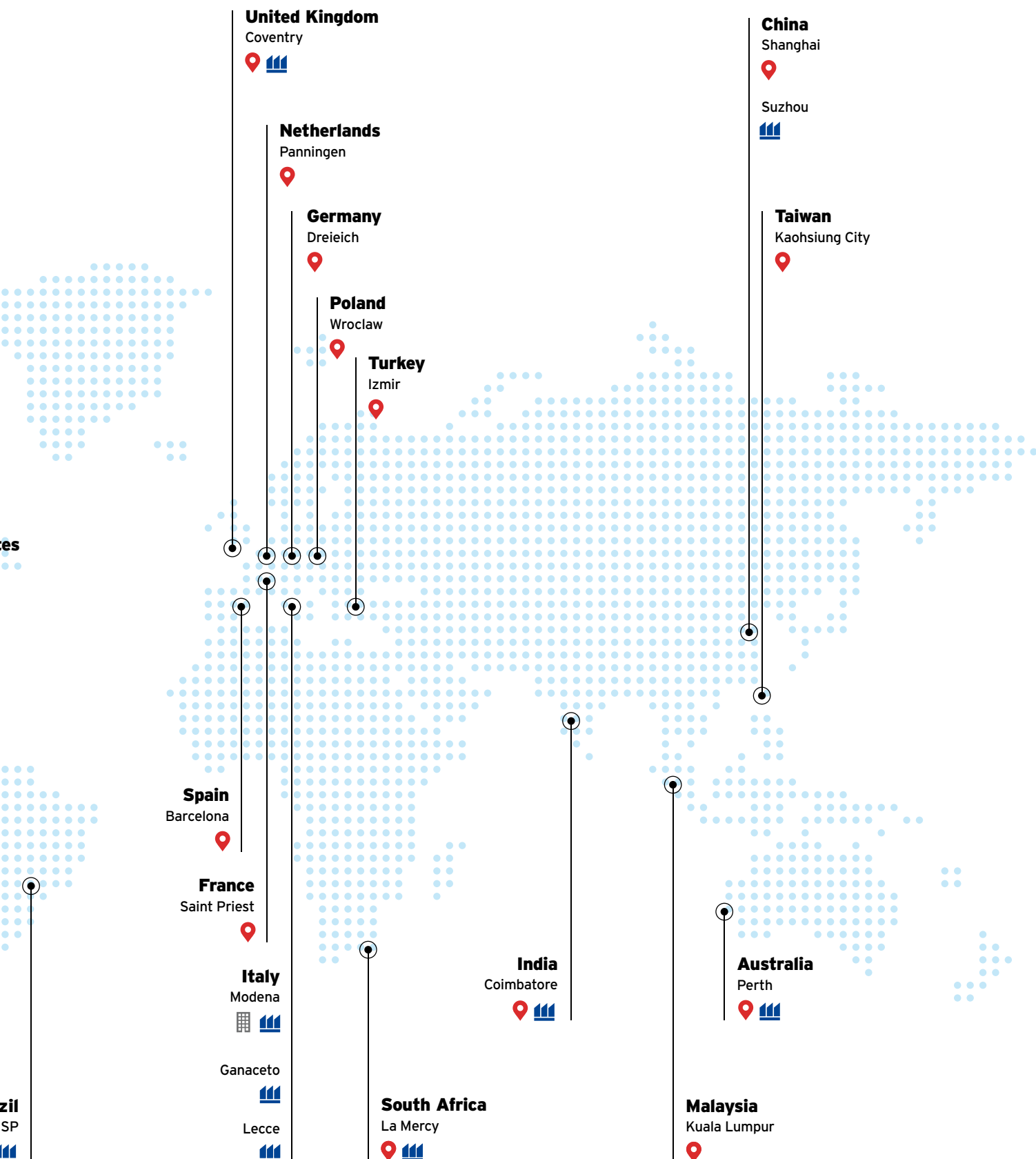
Main offices



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





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