



Power generation

rossi.com



Power generation

Green transition requires products with manufacturing improved efficiency, proper of Rossi skillness and attitude. Lubrication patented design helical gearmotors for ACC and or bevel helical gear units both with monolithic casing, CTI compliant, provides a full range of drives for Cooling Tower and ACC applications.

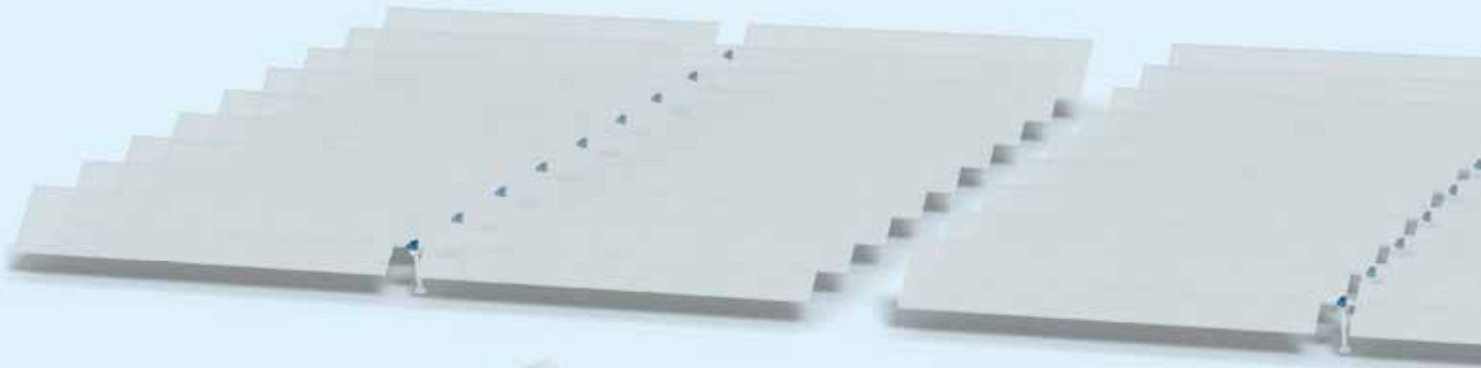
Following sector requirement, the 3 years standard warranty on the entire range of gear units can be provided with an extension option when needed. Low noise level as well as low running temperature are certified by the running test on load performed at the end of the assembly line with the gear unit installed in the application correct mounting position.



Power generation



Power generation



Air Cooled Condensers ACC

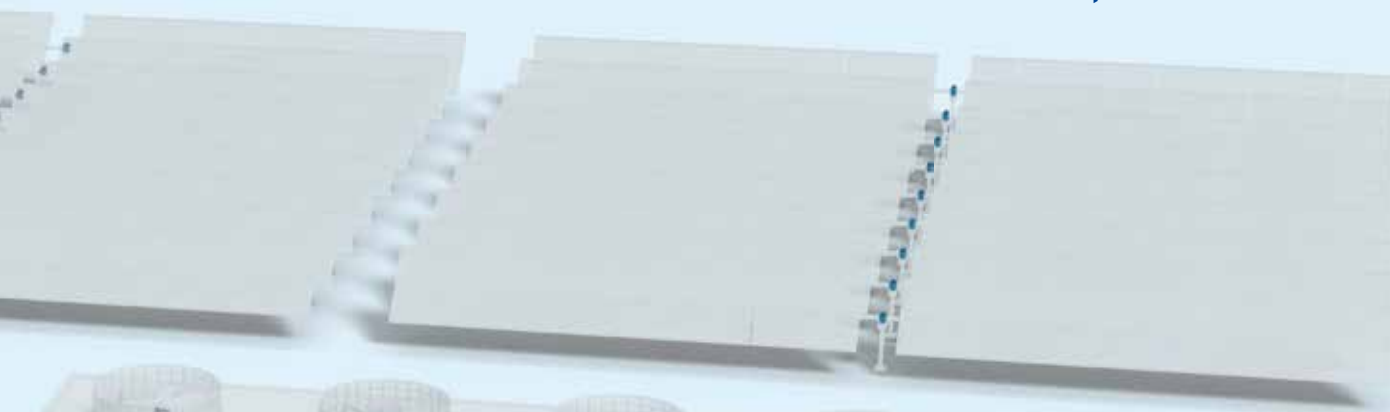


Biogas digesters



Hydrodynamic screw

Photovoltaic plant



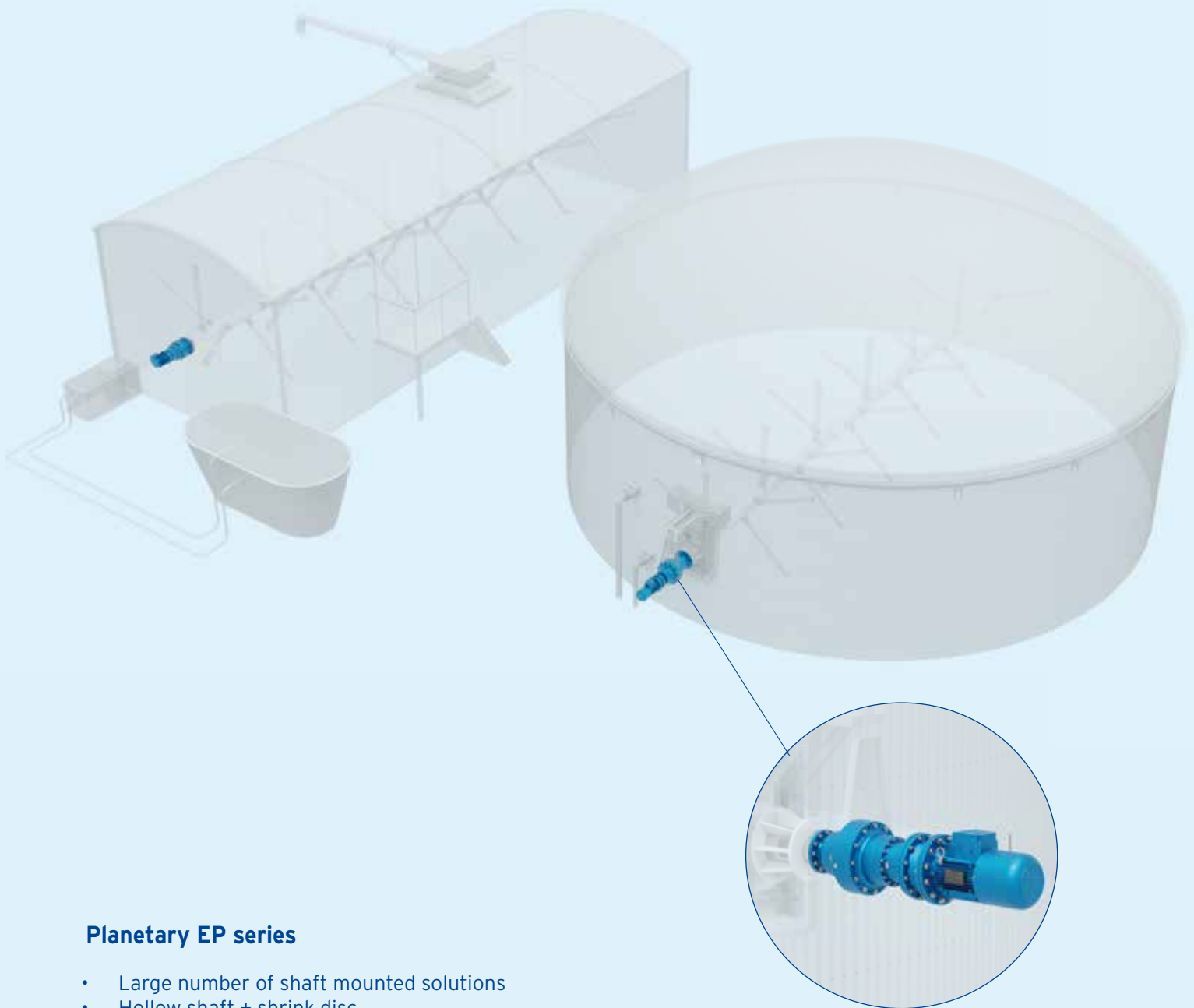
Air Cooled Condensers ACC



Cooling towers

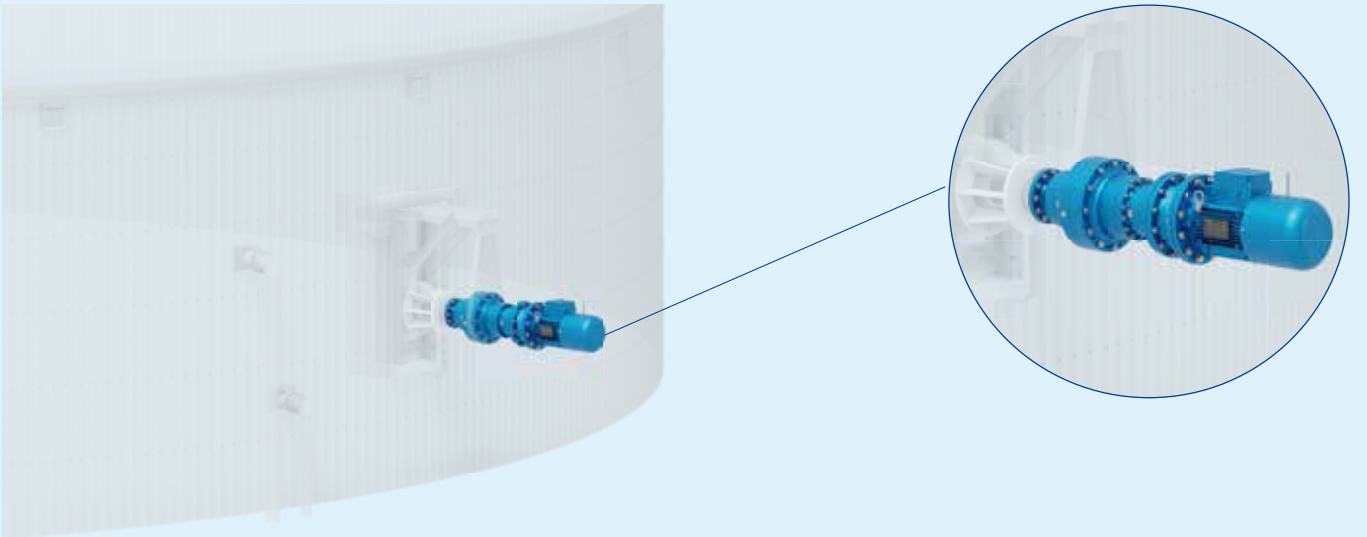
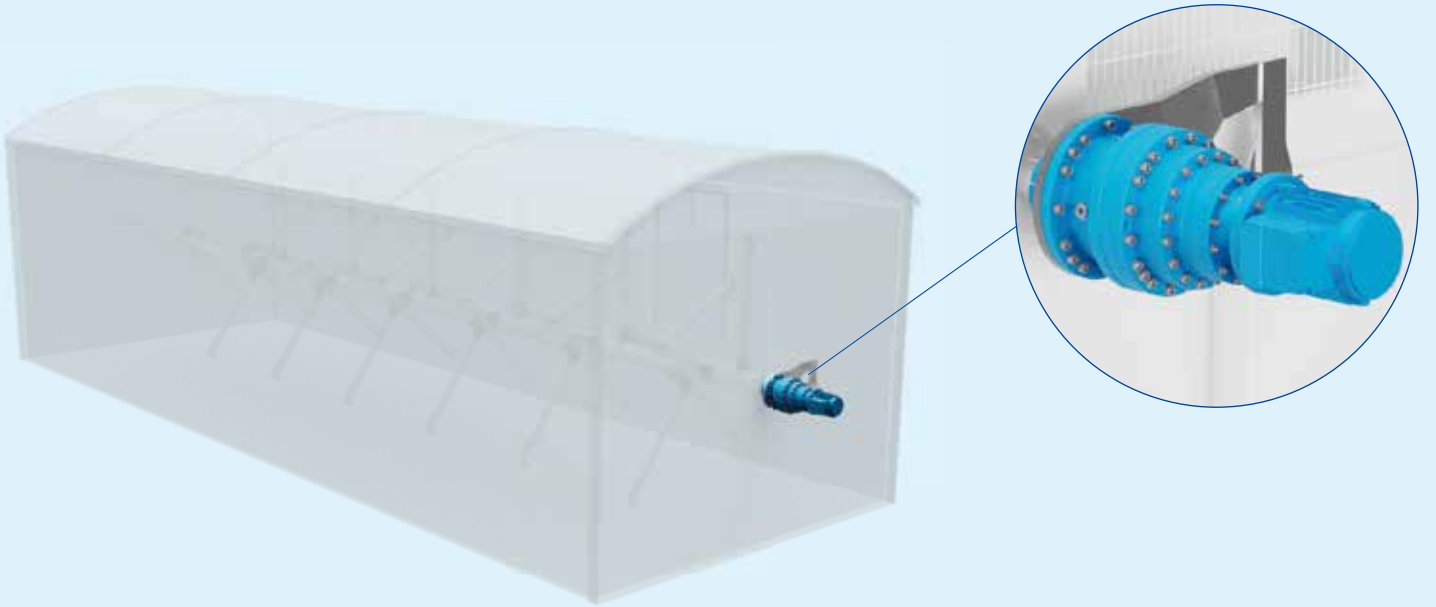


Biogas digesters

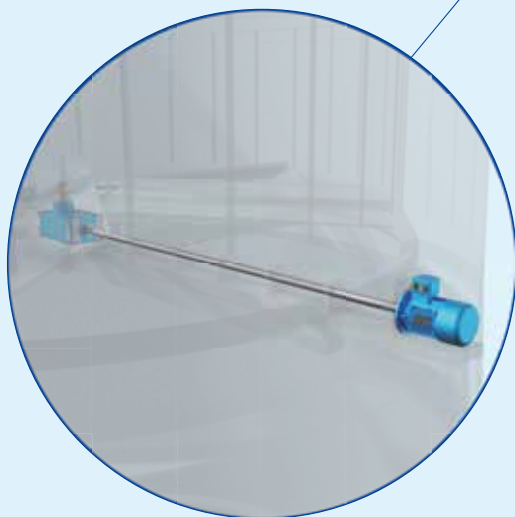
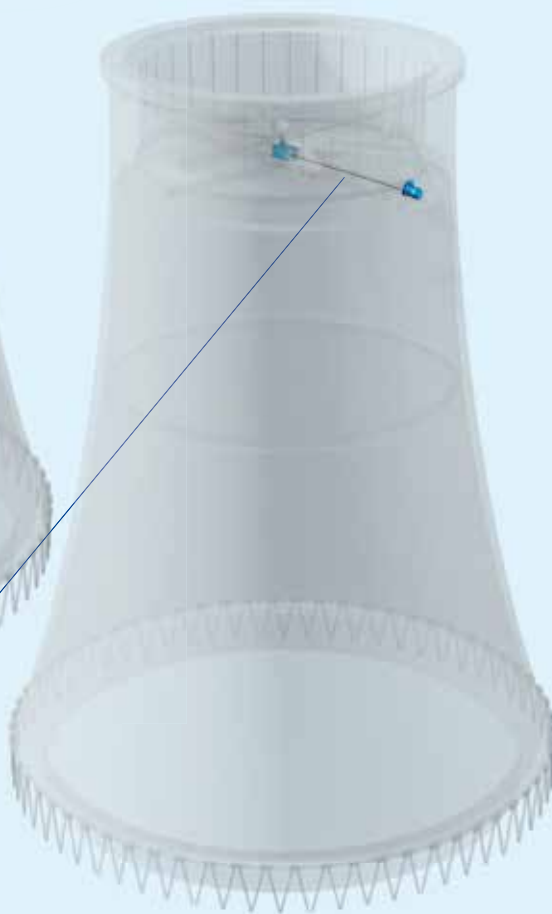


Planetary EP series

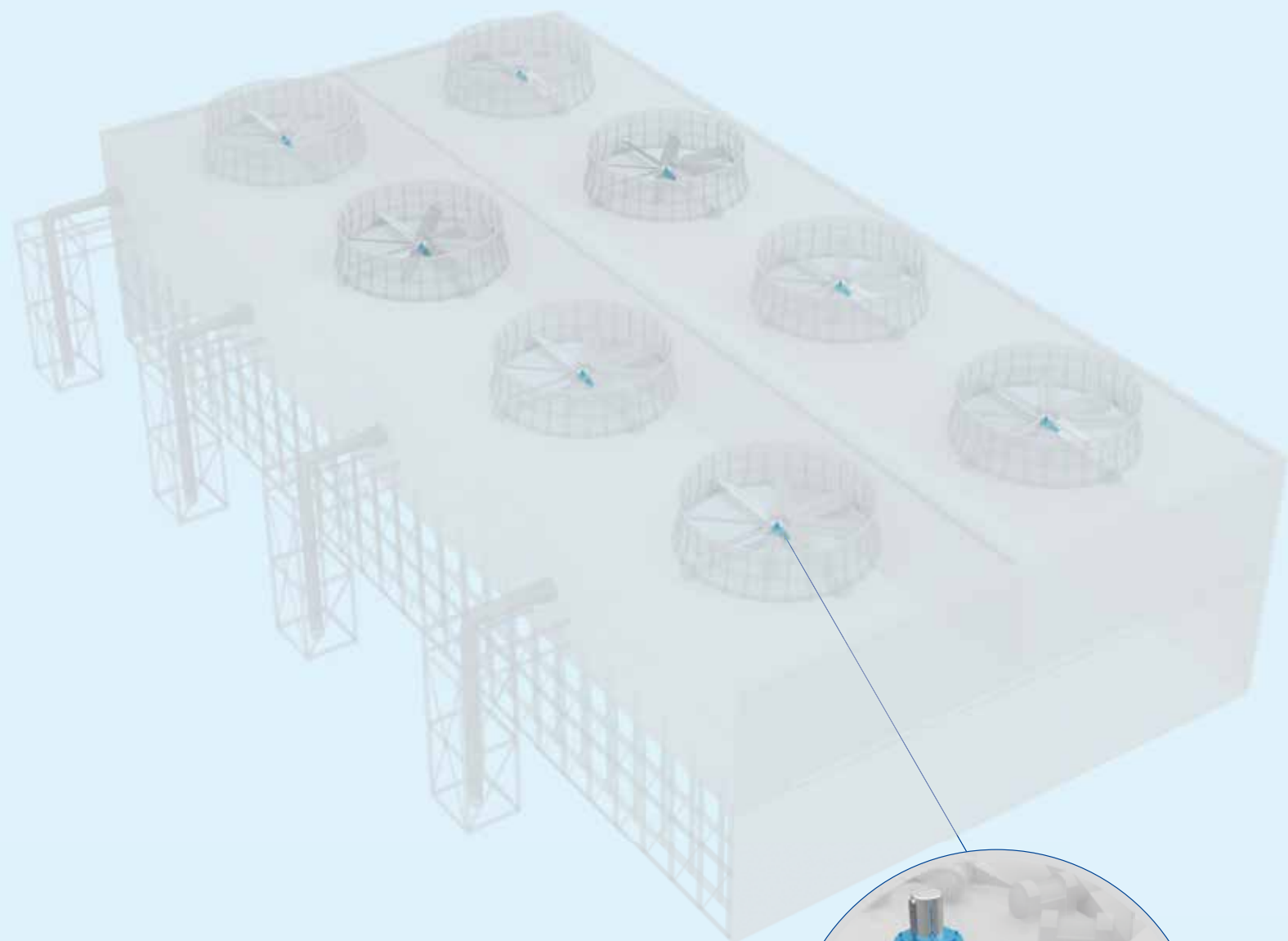
- Large number of shaft mounted solutions
- Hollow shaft + shrink disc
- Hollow shaft with keyway for easy mounting
- Integrated or loose wheel flange for easy maintenance and space saving
- Torque arm (cantilever)



Cooling towers

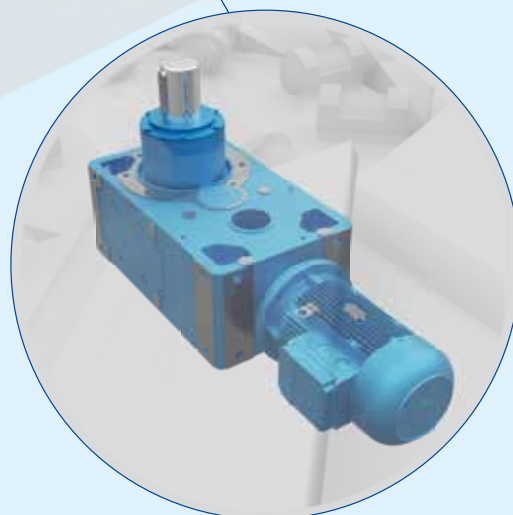


Air Cooled Condensers ACC

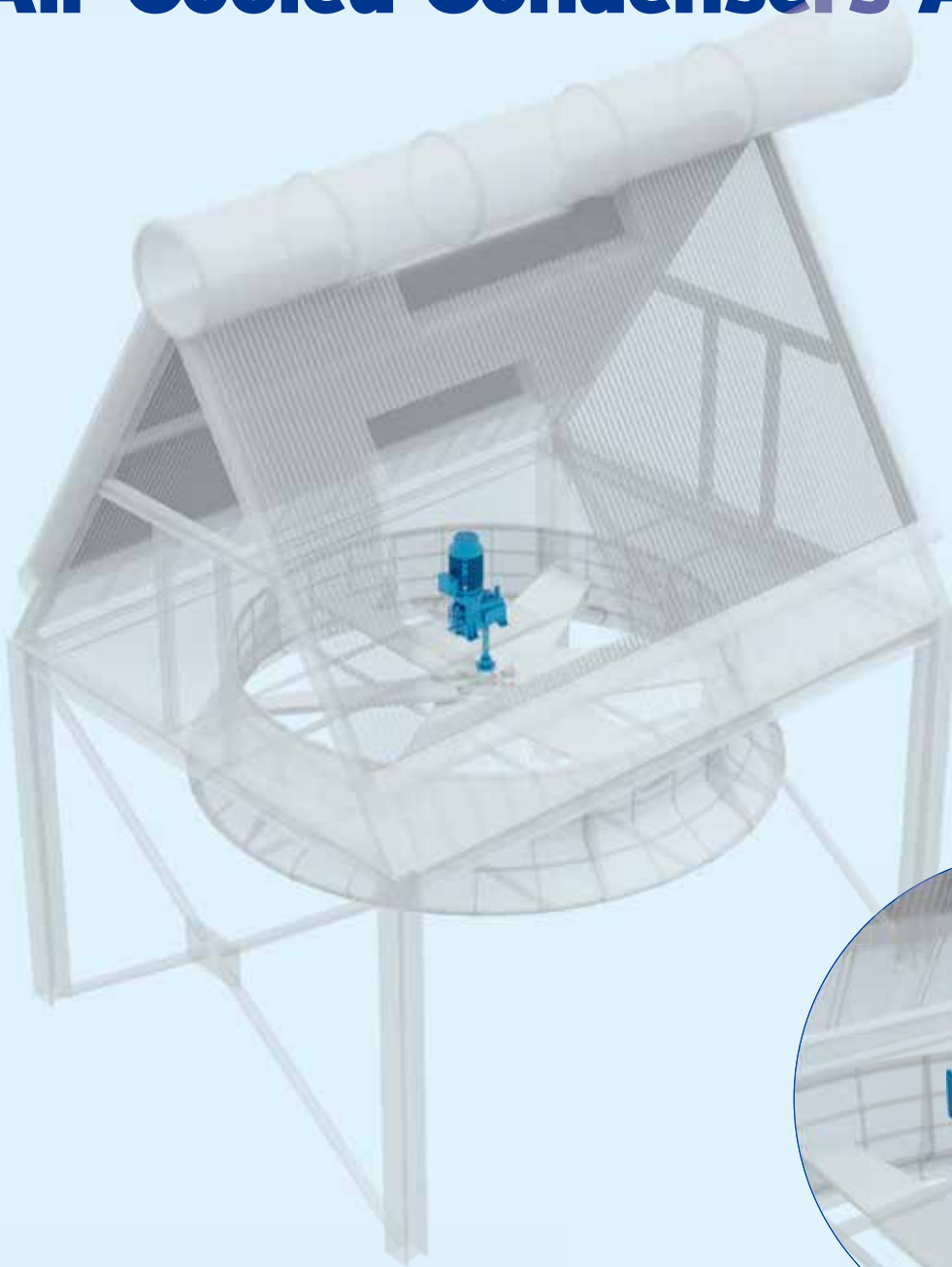


Helical & Bevel helical G series

- C4 and C5 class surface protection according to UNI EN 12944-2 available
- Customized solutions available on request
- Suitable for foot mounting



Air Cooled Condensers ACC



Helical G series with PP5A design

- Helical gearboxes in vertical mounting position
- High reliability, AGMA service factor > 2 according to CTI 167
- Long life, bearings calculated life time $> 100,000$ h according to CTI 167
- (Patented) oil bath lubrication system
- Electric motor bell housing with axial fan and heat exchanger for gearbox cooling
- Integrated foot mounted housing
- Patented lubrication circuit: no pressure, with slave pump, reduced oil quantity, and all oil bathed bearings
- Possibility of bidirectional oil slave pump
- Increased gearbox thermal capacity
- Possibility of cold starting from -15°C and oil temperature pre-heating
- Lower output shaft bearing protected with dry well solutions

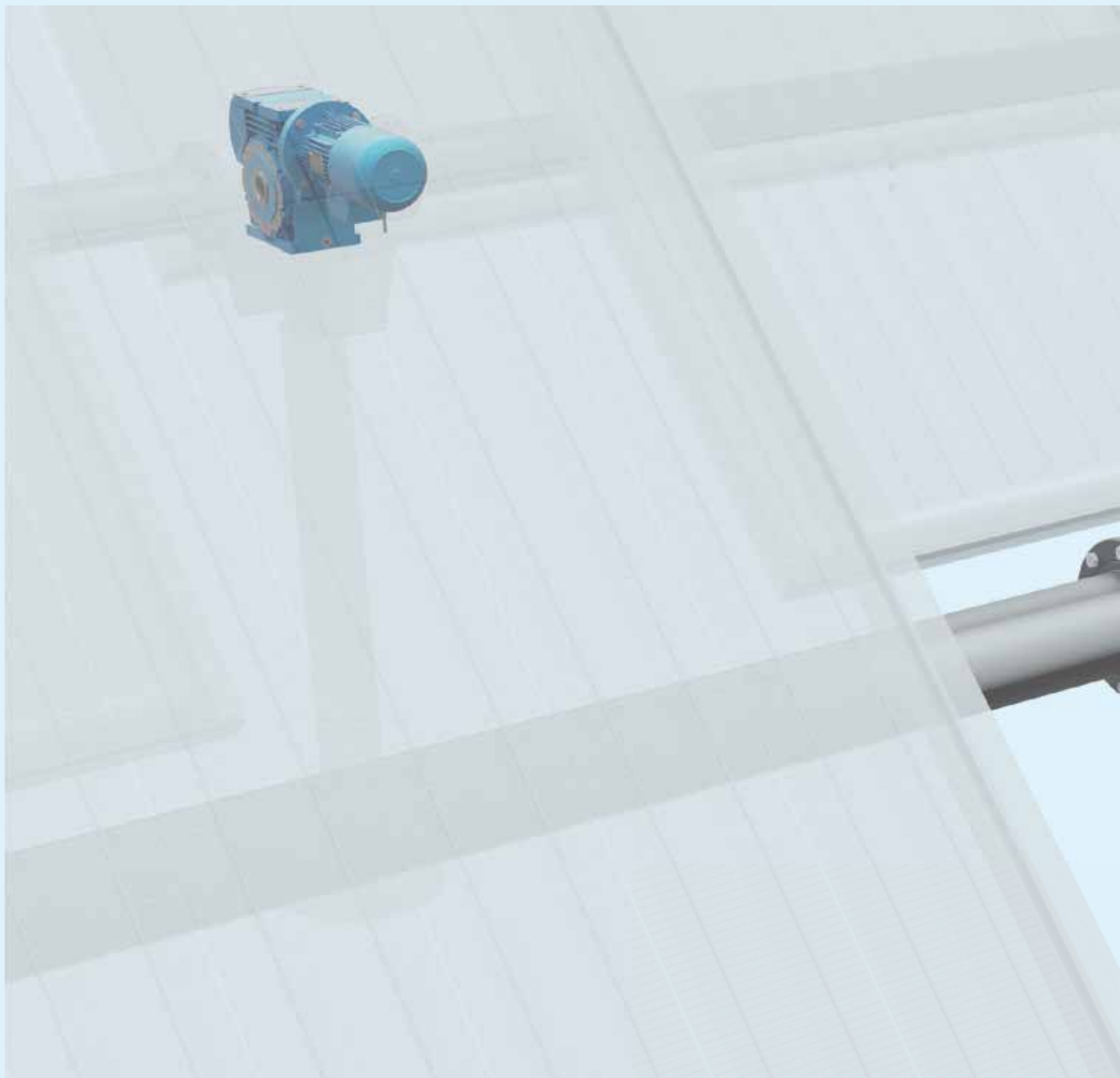
Hydrodynamic screw



Helical & Bevel helical G and H series

- C4 and C5 class surface protection according to UNI EN 12944-2 available
- Customized solutions available on request
- Suitable for foot mounting

Solar tracker





Worm A series

- Universal mounting with integral feet
- Rigid and precise cast iron single piece housing

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
- 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
- Wide range of hydraulic brakes

Benefits

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



EPS 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.



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

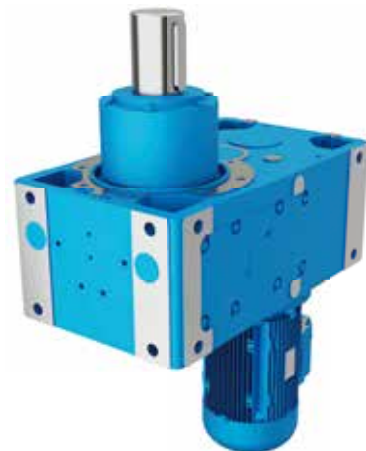
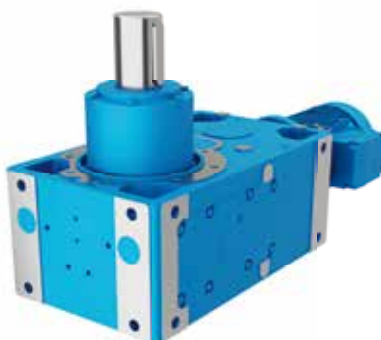
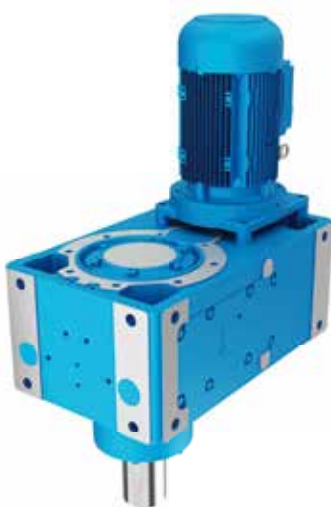
Benefits

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



G Series

Agitator output design for Cooling towers and ACC

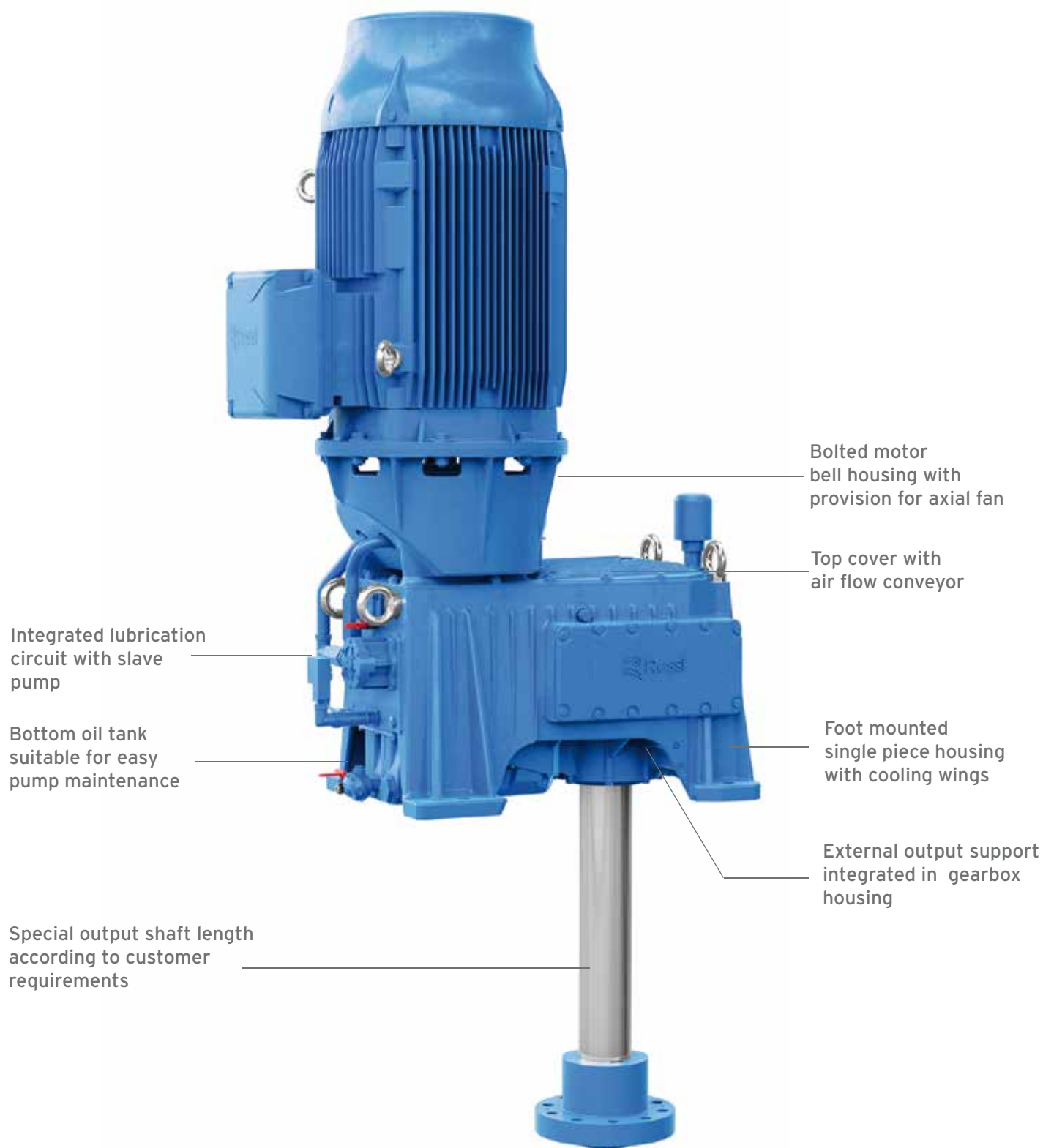


PP5A design for ACC

4 sizes 250, 280, 320 and 360

Nominal torque (M_{N2}) up to 75,000 N m

Transmission ratio (i_N) 10 ... 25



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 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

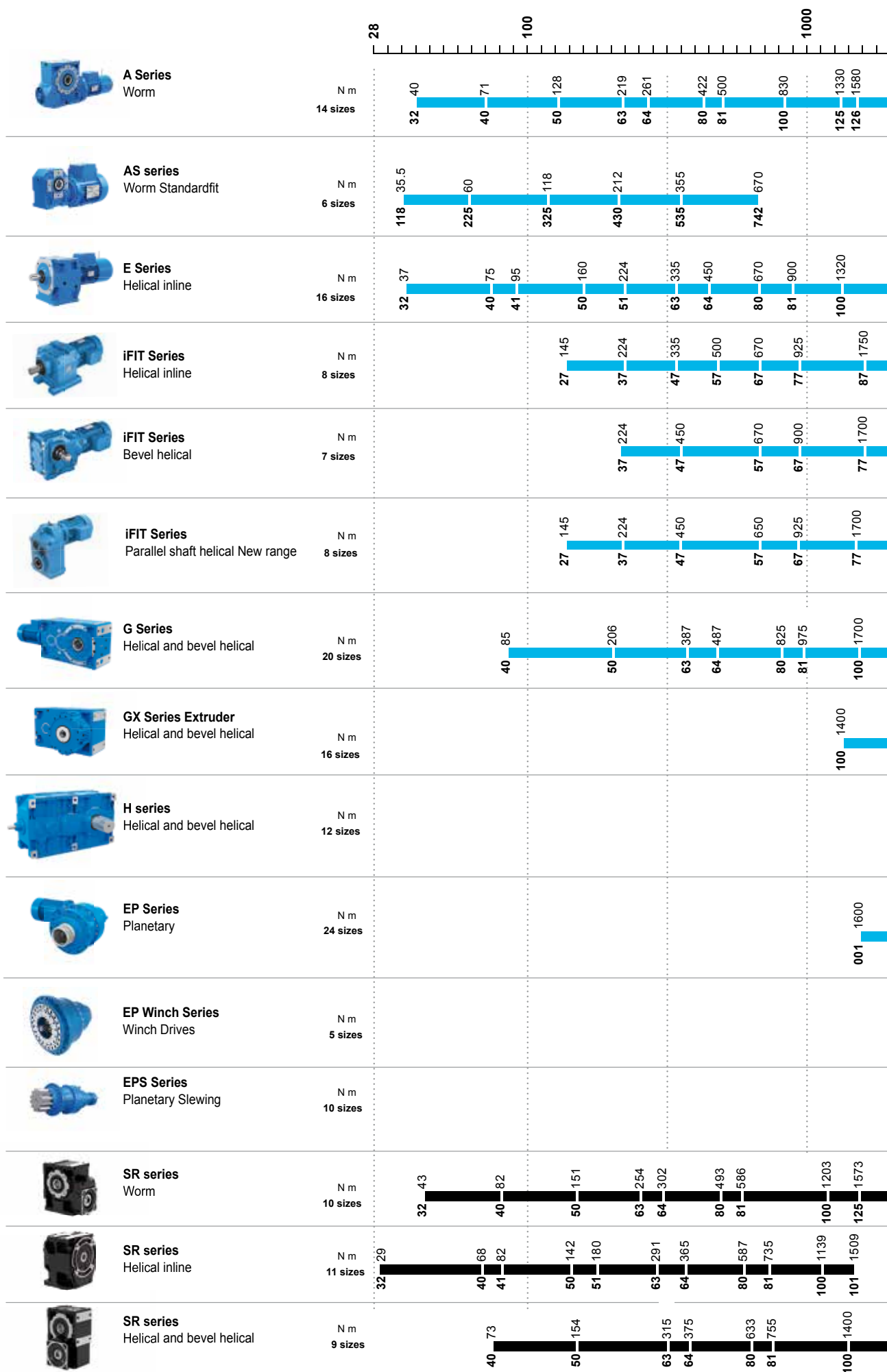
- Reduced electric cabinet dimension and cooling systems
- Compact solution of inverter, motor, and gearbox
- Suitable for hard environmental operating conditions
- No need of motor encoder for speed control
- High Safety Performance Level (up to PL E)
- To develop your own dedicated control functions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

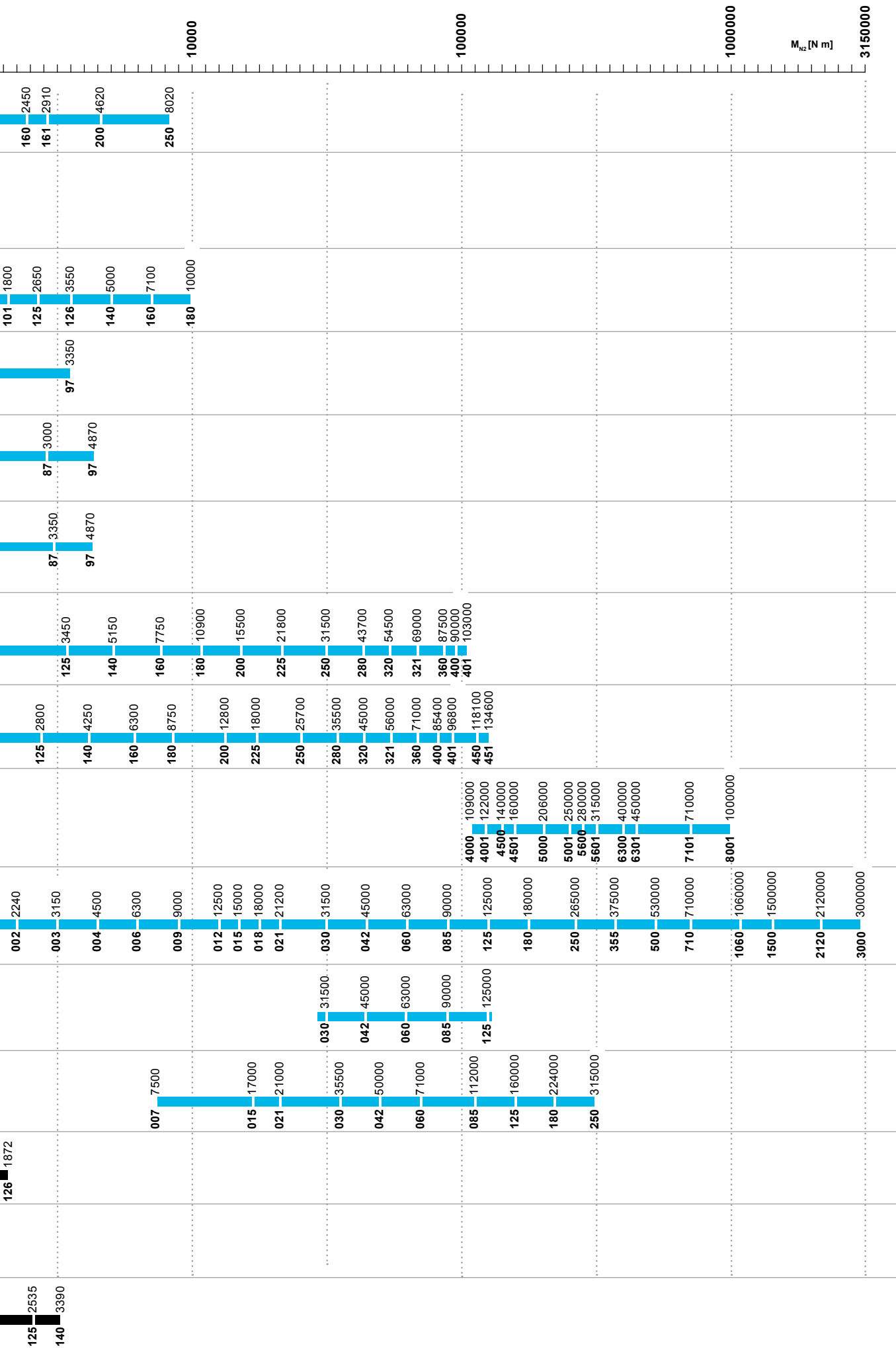


dDrive



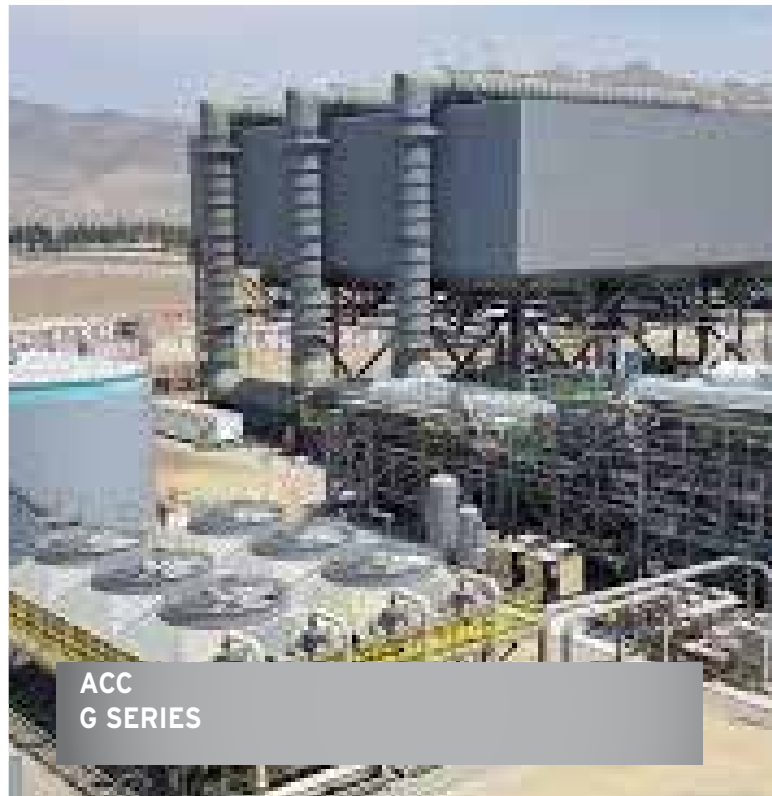
Gear reducers and gearmotors







ACC
G SERIES PP5A DESIGN



ACC
G SERIES

**We deliver
reliable
solutions
worldwide**



BIOMASS MIXERS
EP SERIES





**COOLING TOWERS
G SERIES**



**PHOTOVOLTAIC PLANT
EP AND A SERIES**



**DIGESTER
EP SERIES**



**ACC
G SERIES PP5A DESIGN**



**ACC
G SERIES PP5A DESIGN**

Solutions for an evolving industry

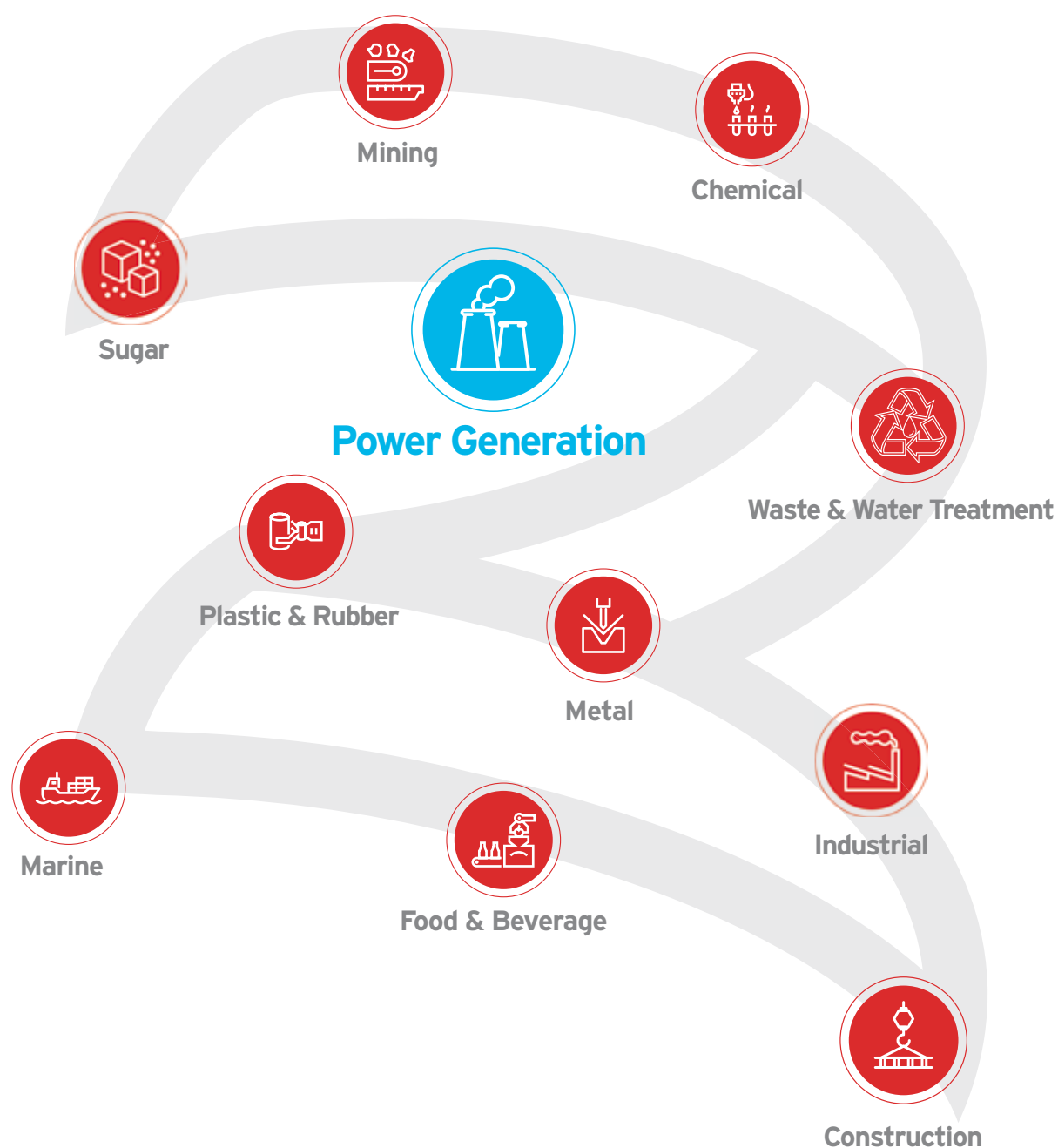
In the global marketplace, our customers, investors, partners value our products and services for two reasons: excellence and reliability. At Rossi, we utilize change as a strategic lever for our growth. "Solutions for an evolving industry" fully expresses

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



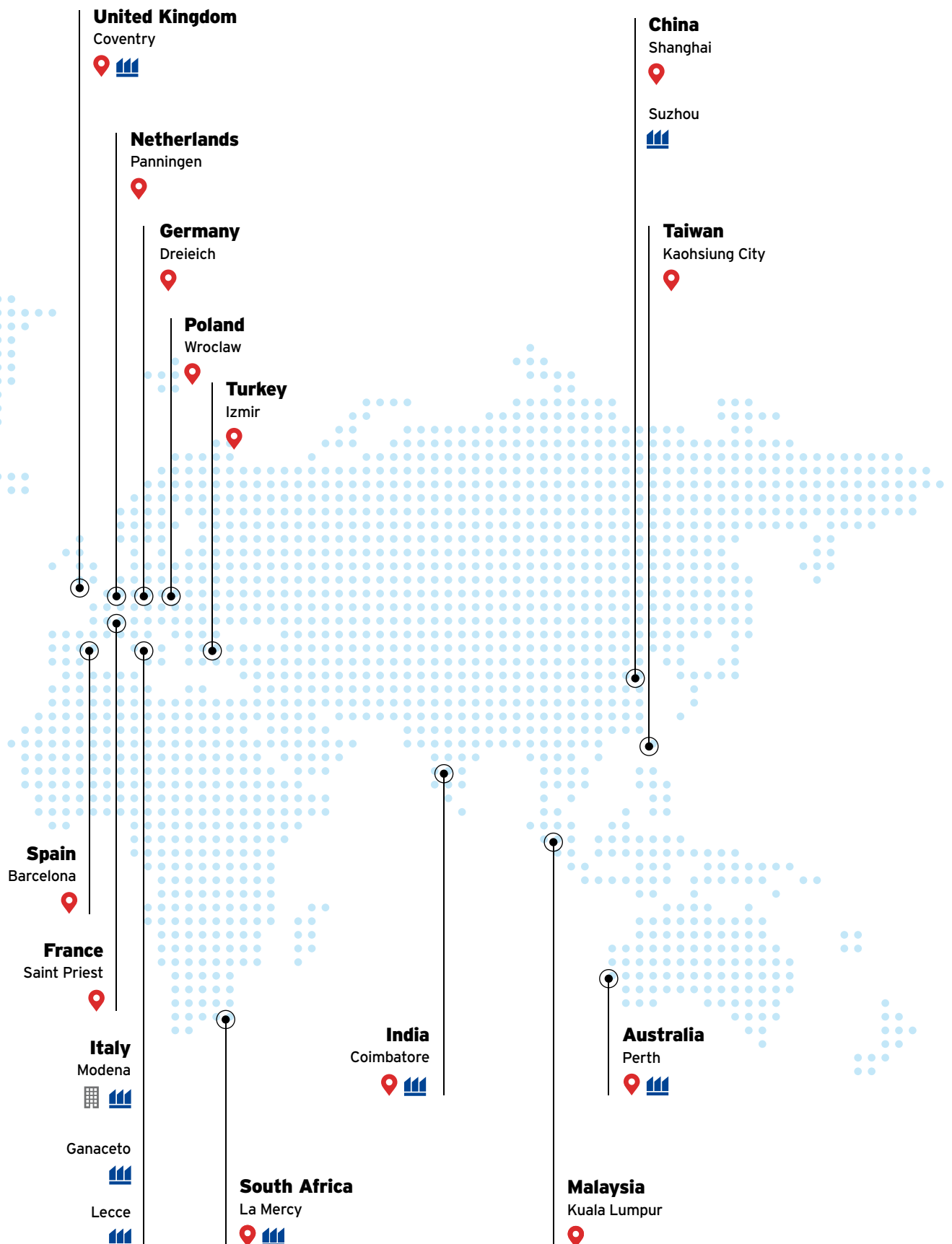
Main offices



Affiliated companies



Production facilities/Assembly plants



Key figures



over
1,000 people around
the world



5,000 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
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



Product compliance





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