



Recycling & Water Treatment

rossi.com



Recycling & Water treatment

Recycling & Water treatment is a spearhead sector not only for the world economy, but for society as a whole. Our skills in process engineering encompass all the aspects of separation in the water sector, including water treatment and the disposal and recycling of solid waste.

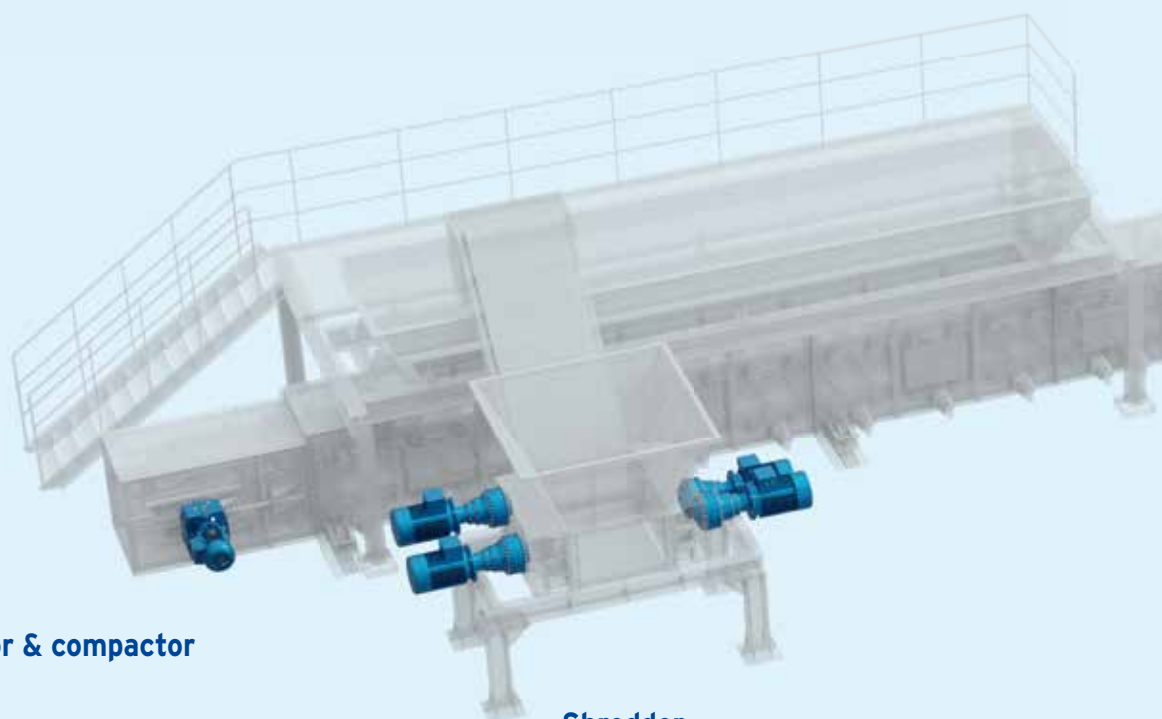
Thanks to a vast range of gear reducers, gearmotors, and accessories you will keep water treatment facilities up and running without downtime. We offer flexible solutions to reduce energy consumption, ensuring greater efficiency.



Recycling & Water treatment



Recycling



Conveyor & compactor

Shredder



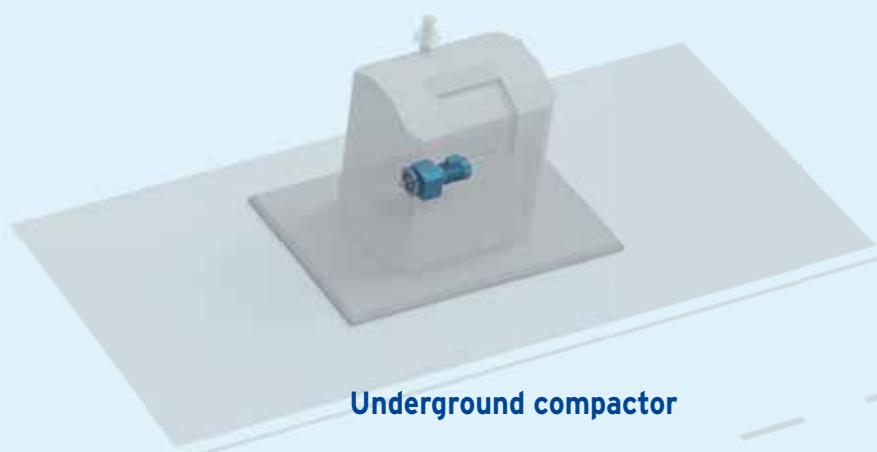
Mobile shredder



Scan the QR code to
watch the video



Screw compactor



Underground compactor

Conveyor & Compactor

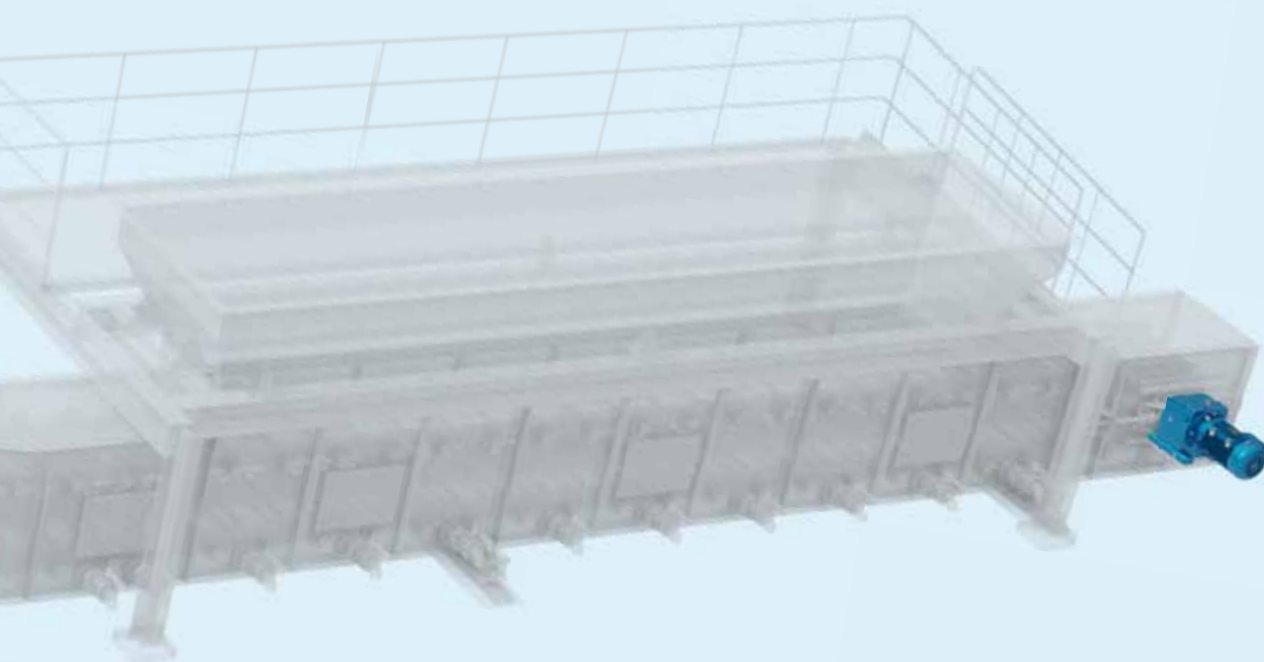


Helical & Bevel helical G series

- Backstop device available
- Metric and inches shafts available
- C4, C5 class surface protection according to UNI EN 12944-2 standard available



Worm gear units A series

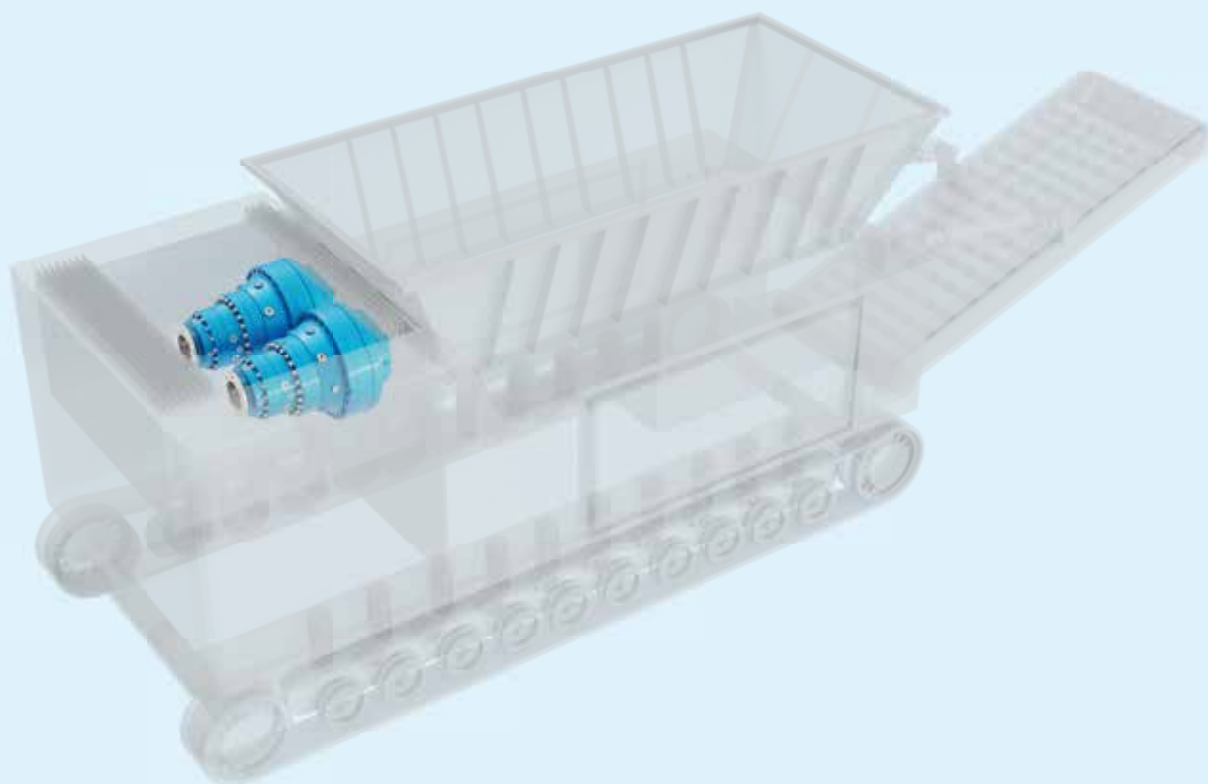


Coaxial E series



Helical inline iFIT series

Mobile shredder

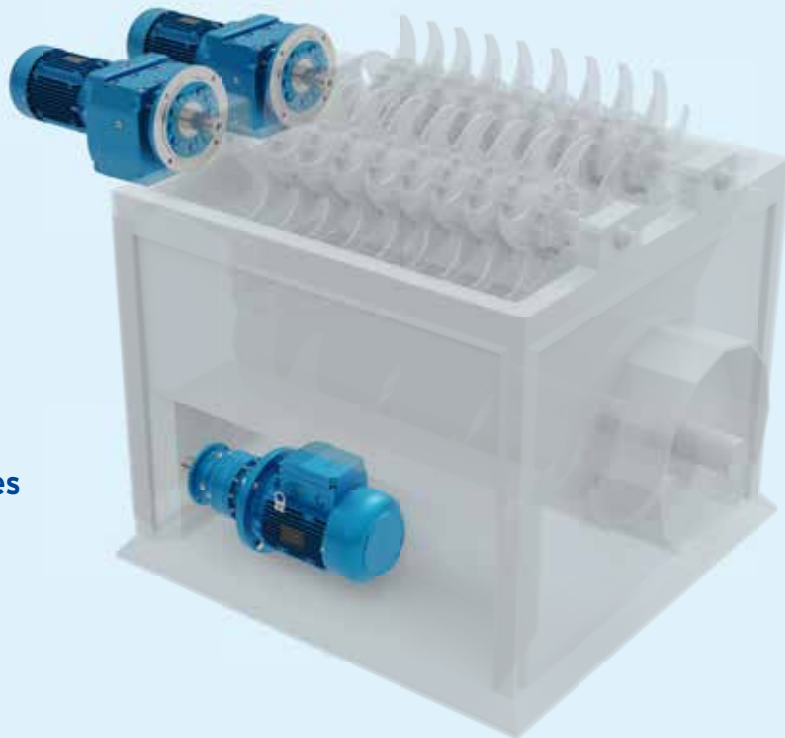


Planetary EP series

- Compact solution
- High torque density 4 satellites

Screw compactor

Helical inline iFIT series



Planetary EP series

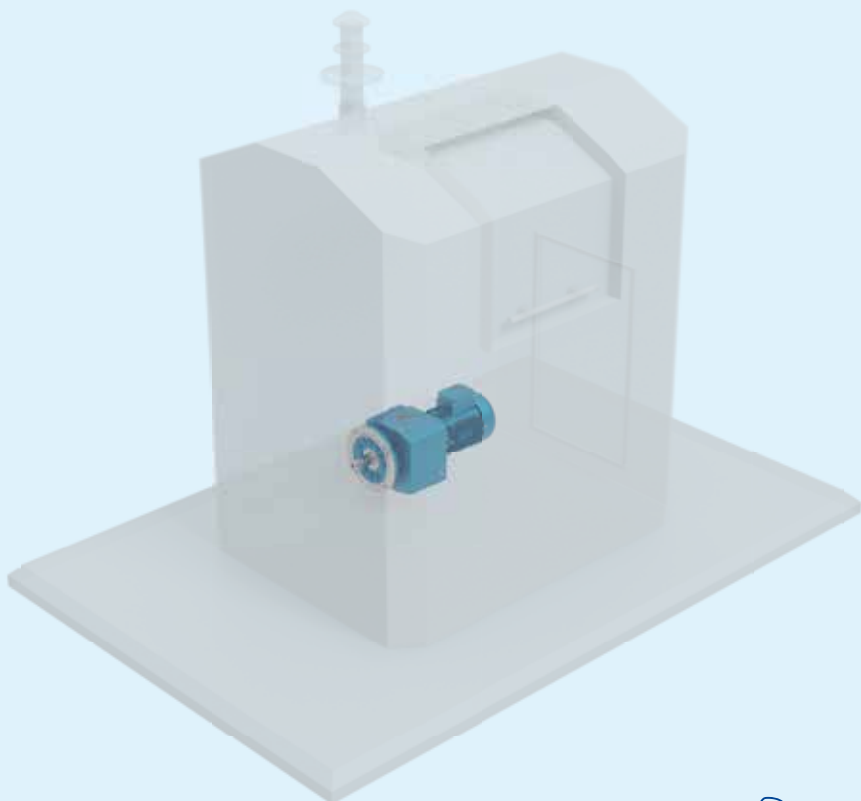
Underground compactor



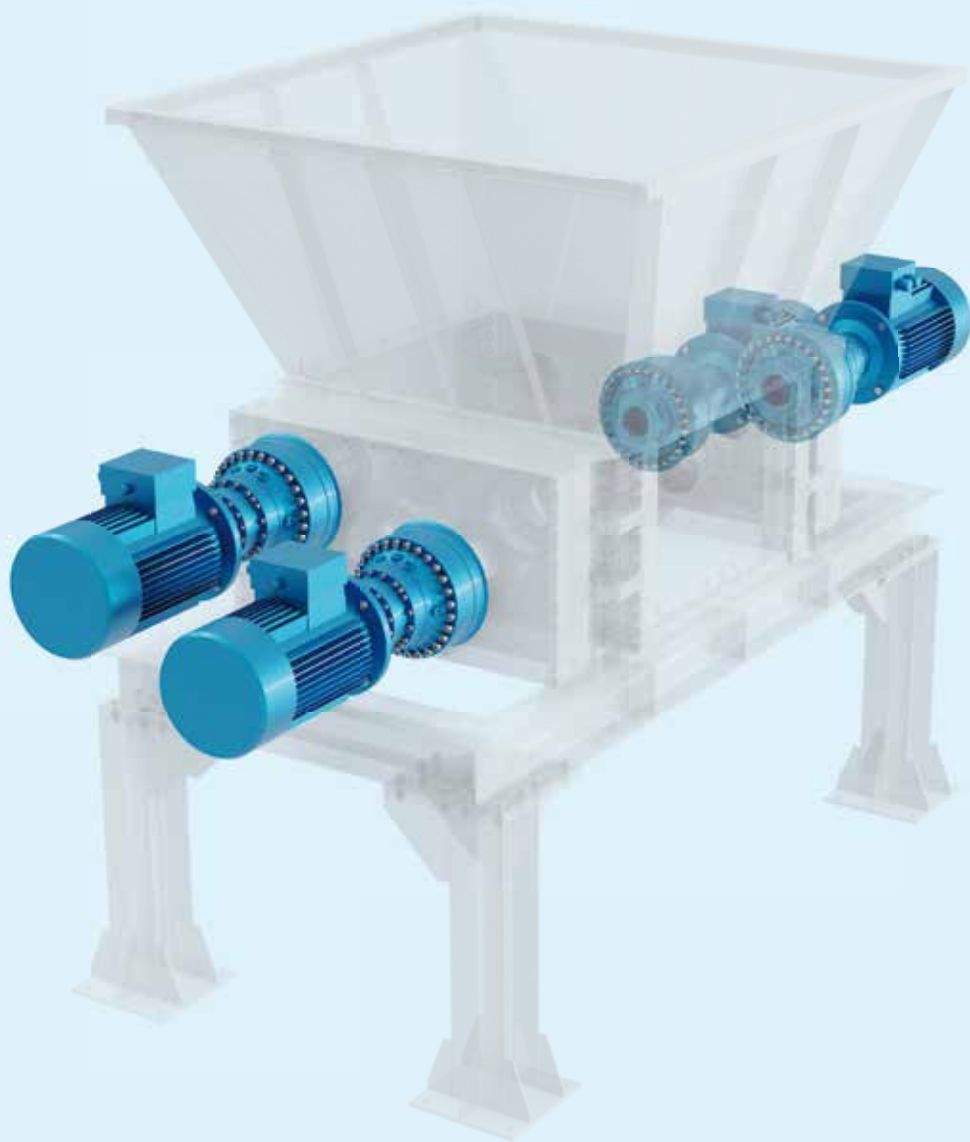
Helical inline iFIT series



Planetary EP series



Shredder



Helical & Bevel helical G series

- Single piece housing with high structural stiffness
- Flexible mounting arrangements
- High shock load resistance



Helical & Bevel helical H series

- Customized solutions on request, starting from a modular design
- Torque capacity to 1 000 kN m available
- Spheroidal cast iron housing suited for horizontal and vertical mounting
- High shock load resistance

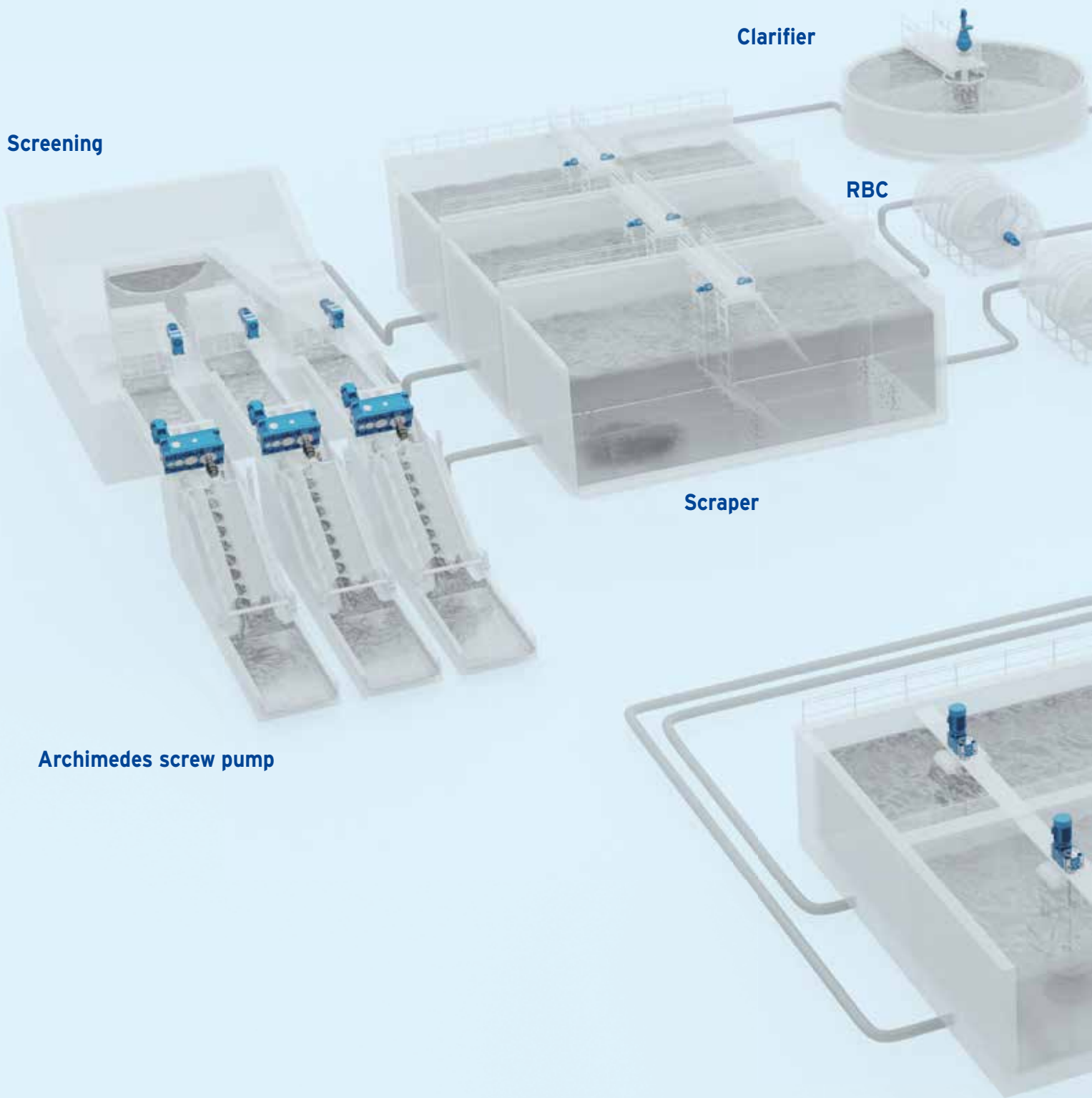


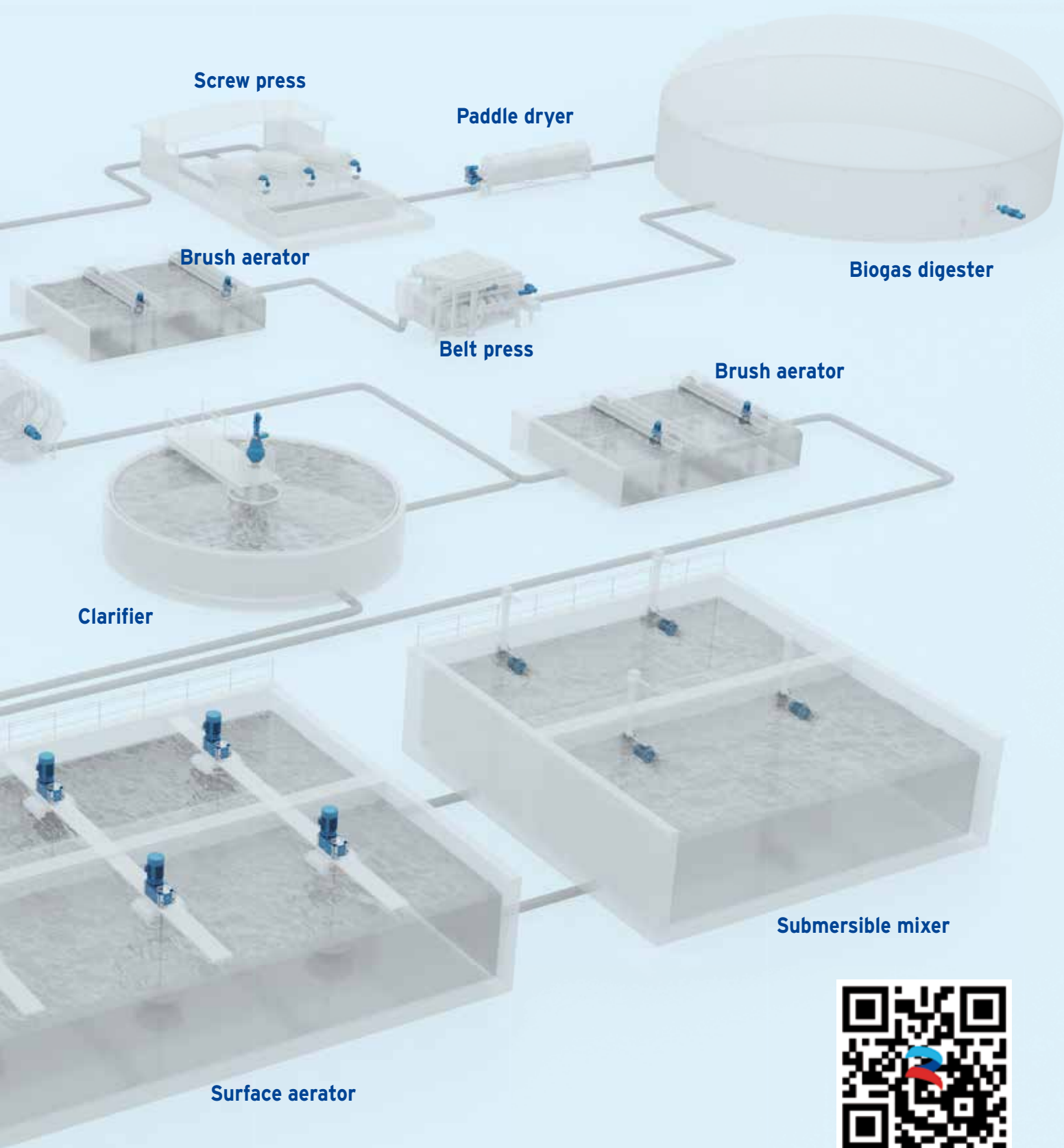
Planetary EP series

- Modular design
- High torque density
- Torque capacity to 3 000 kN m available
- High shock load resistance



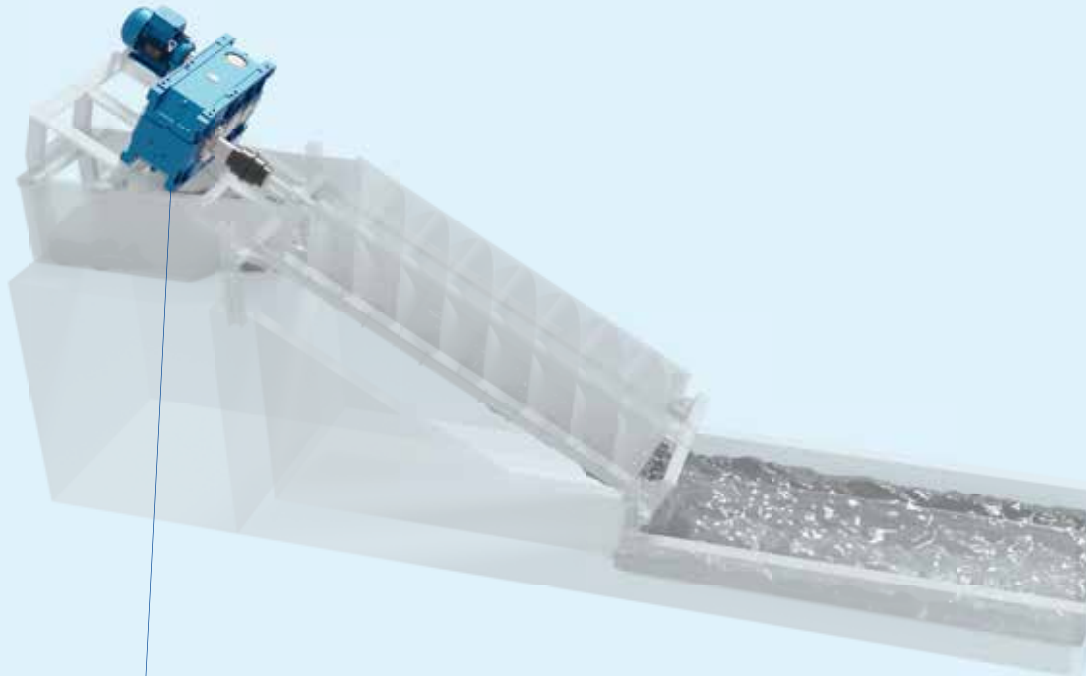
Water treatment





Scan the QR code to
watch the video

Archimedes screw pump



Helical & Bevel helical G series

- High resistance in harsh conditions
- Premium bearing load capacity
- Premium sealing options
- C4 and C5 class surface protection according to UNI EN 12944-2 available
- Customized solutions available on request
- Suitable for foot mounting



Helical & Bevel helical H series

- Nominal torque up to 1 000 kN m
- High resistance in harsh conditions
- Premium bearing load capacity
- Premium sealing options
- C4 and C5 class surface protection according to UNI EN 12944-2 available
- Customized solutions available on request
- Suitable for foot mounting

Screening



Worm A series

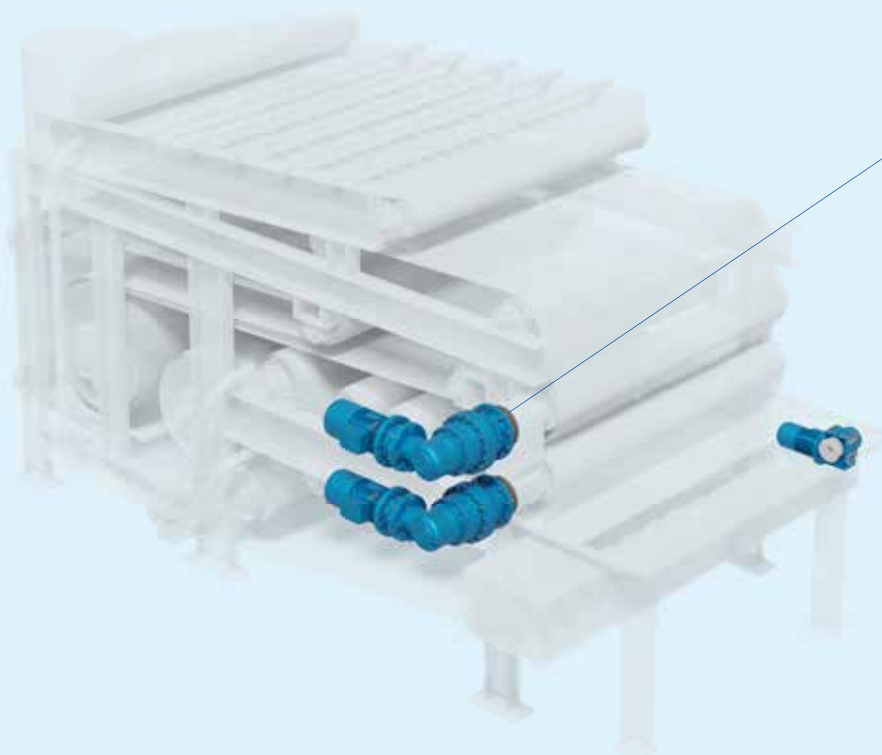
- Suitable for shaft and flange mounting



Planetary EP series

- Suitable for shaft and flange mounting

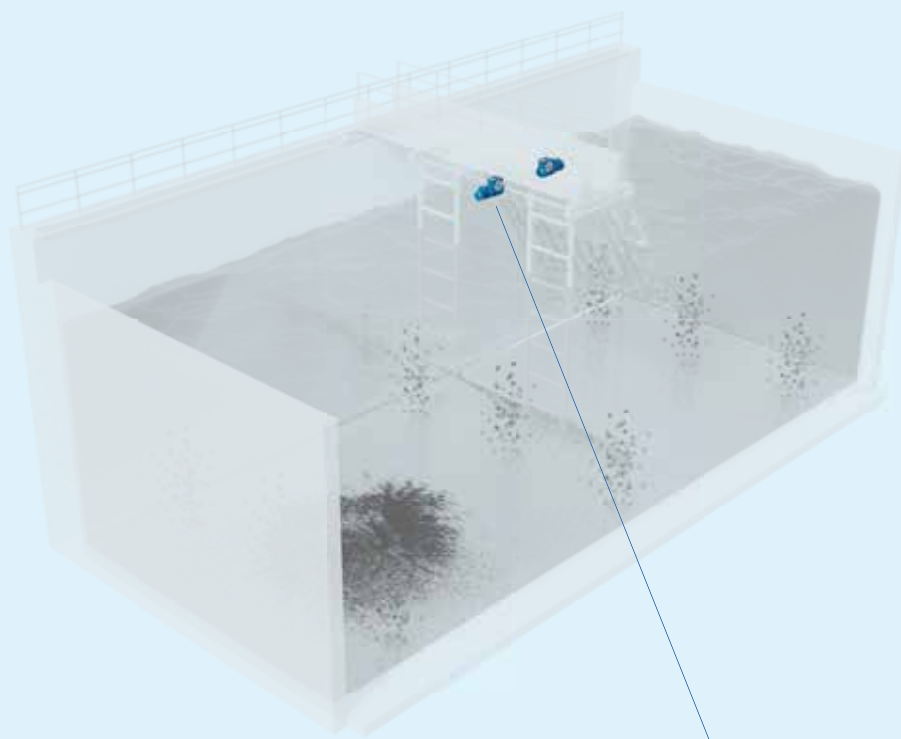
Belt press



Planetary EP series

- Modular design
- High flexibility in layout and mounting position
- Large number of output shaft types
- High resistance in harsh and dusty environments
- High torque density

Scraper



Helical & Bevel helical G series

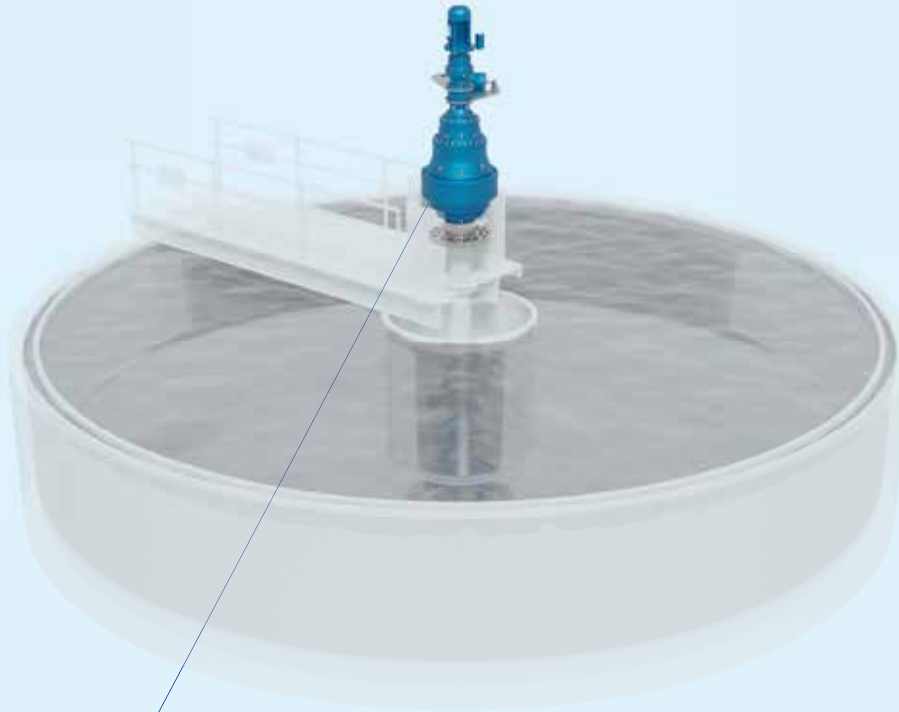
- Standard hollow low speed shaft (metric or inches)
- High resistance in harsh conditions
- Premium bearing load capacity
- Premium sealing options
- C4 and C5 class surface protection according to UNI EN 12944-2 available
- Customized solutions available on request



Worm A series

- Standard hollow low speed shaft
- High resistance in harsh conditions
- Premium bearing load capacity
- Premium sealing options
- C4 and C5 class surface protection according to UNI EN 12944-2 available
- Customized solutions available on request

Clarifier



Planetary EP series

- Complete drive solution
- Modular design with unlimited reduction ratios, theoretically unlimited reduction ratios (1:30 000)
- Nominal torque up to 3 000 kN m
- High resistance in harsh conditions
- Premium bearing load capacity
- Premium sealing
- Easy solution to mount a load cell
- Torque limiter available
- Wheel flange option



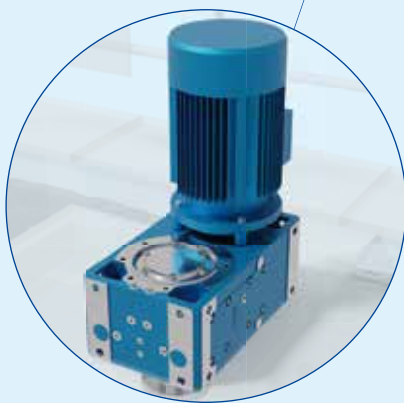
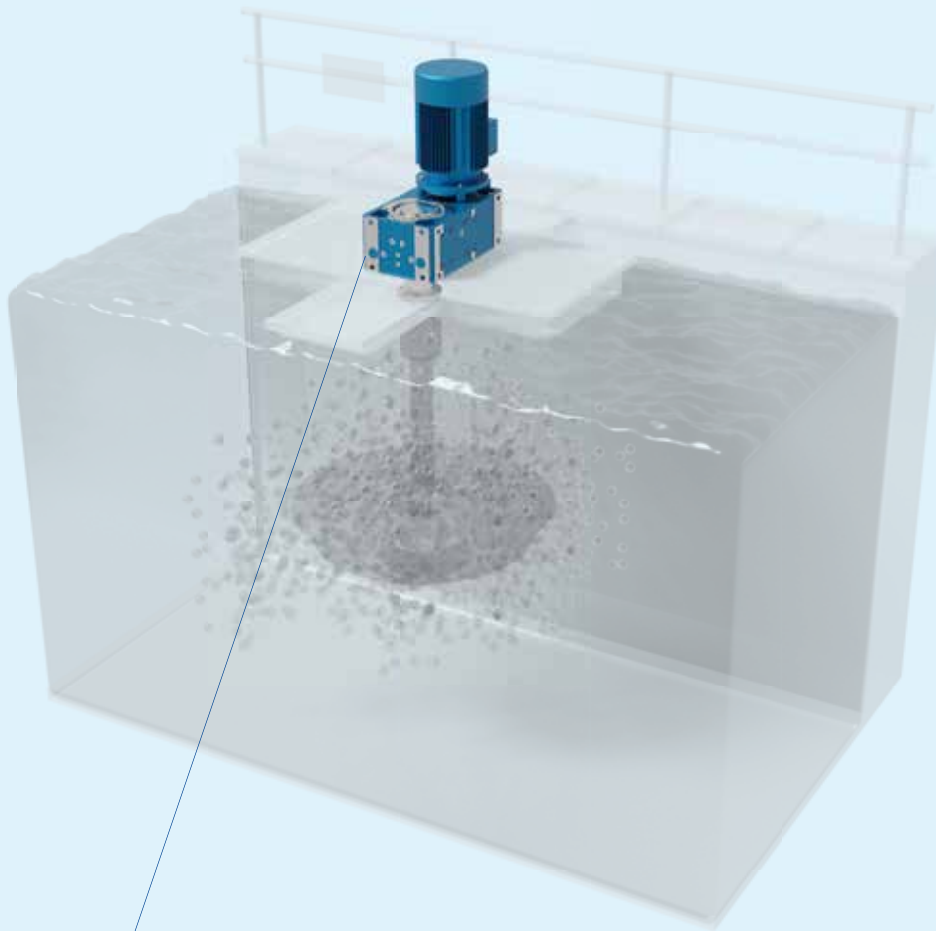
Slewing drives EPS series

- Standard or customized slewing gearbox available
- Double centering or front flange solution
- Loose or integral slewing pinion
- Direct connection to hydraulic or electric motor (IEC or NEMA)



Helical & Bevel helical G series

Surface aerator



Helical & Bevel helical G series

- Dry well available
- Design for agitators available
- Large radial load capacity
- Metal plugs
- Premium sealing
- C4 and C5 class surface protection according to UNI EN 12944-2 available

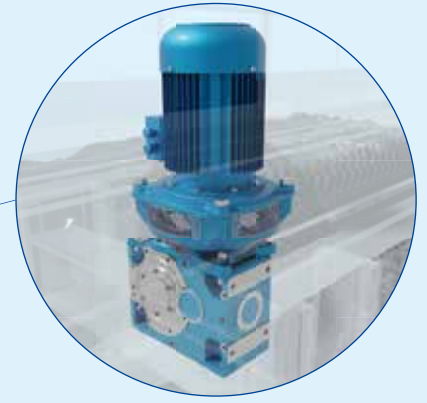
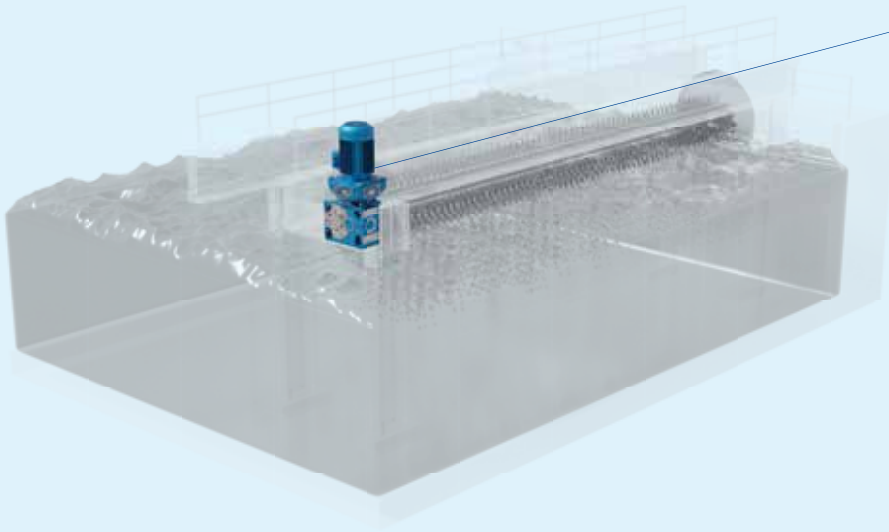
Planetary EP series

- Large radial load capacity
- Ground gears: low noise
- Metal plugs
- Premium sealing
- C4 and C5 class surface protection according to UNI EN 12944-2 available

Helical inline iFIT series

- Drop-in design to major competitors brands
- Metric or inches output shaft
- Foot or flange mounting design
- Compact electric motors as standard
- Input IEC or NEMA adapter available

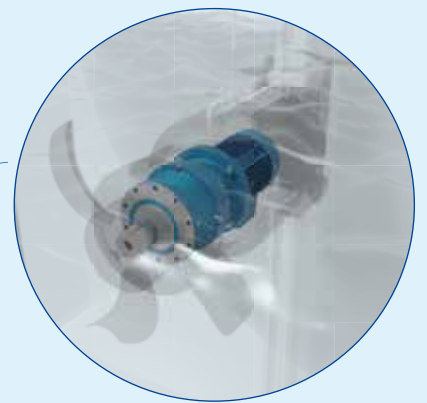
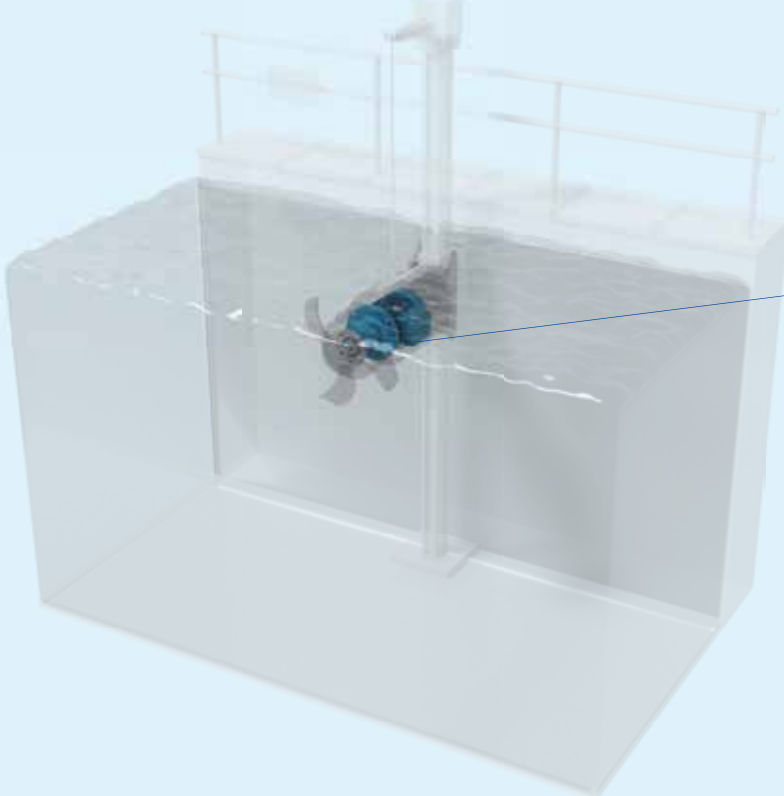
Brush aerator



Helical & Bevel helical G series

- Bell housing made of spheroidal cast iron for IEC and NEMA electric motors
- Flexible coupling available
- Standard heavy duty radial load capacity

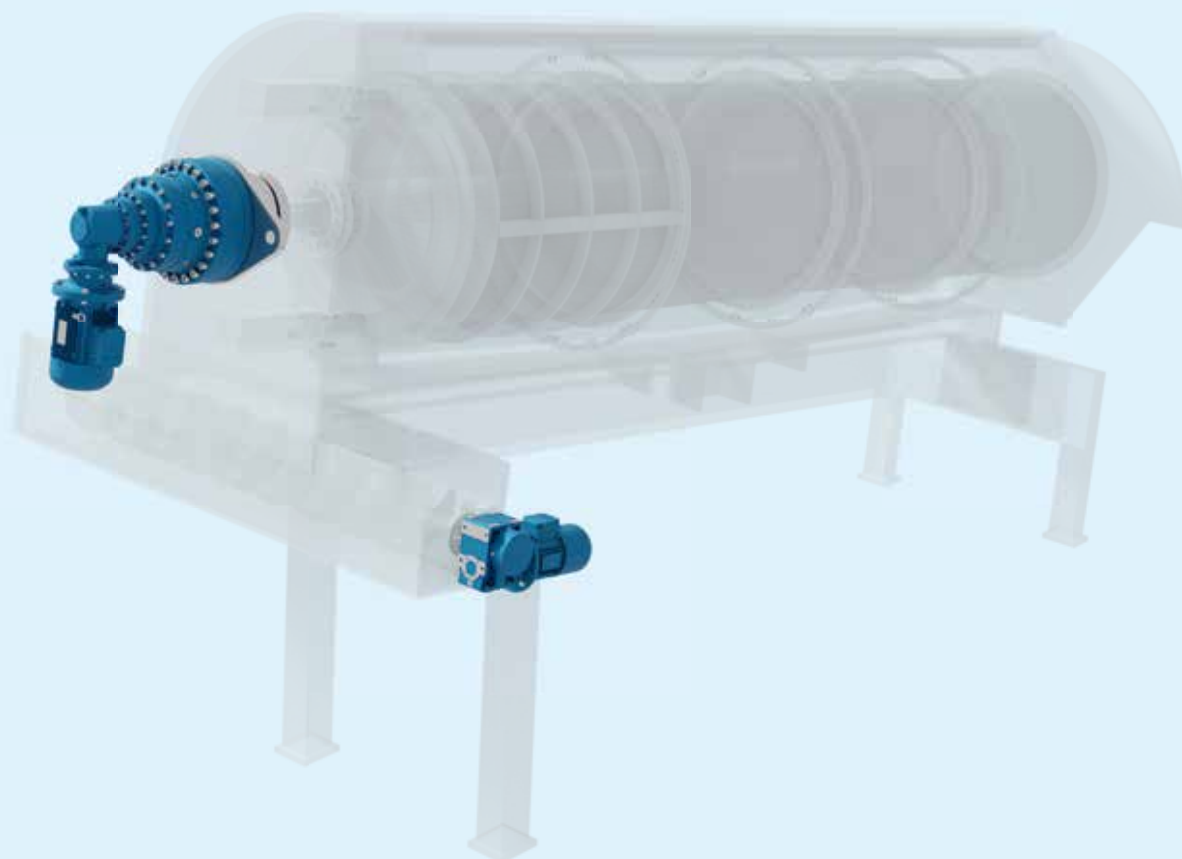
Submersible mixer



Planetary EP series

- Very compact solution
- Ground gears

Screw press



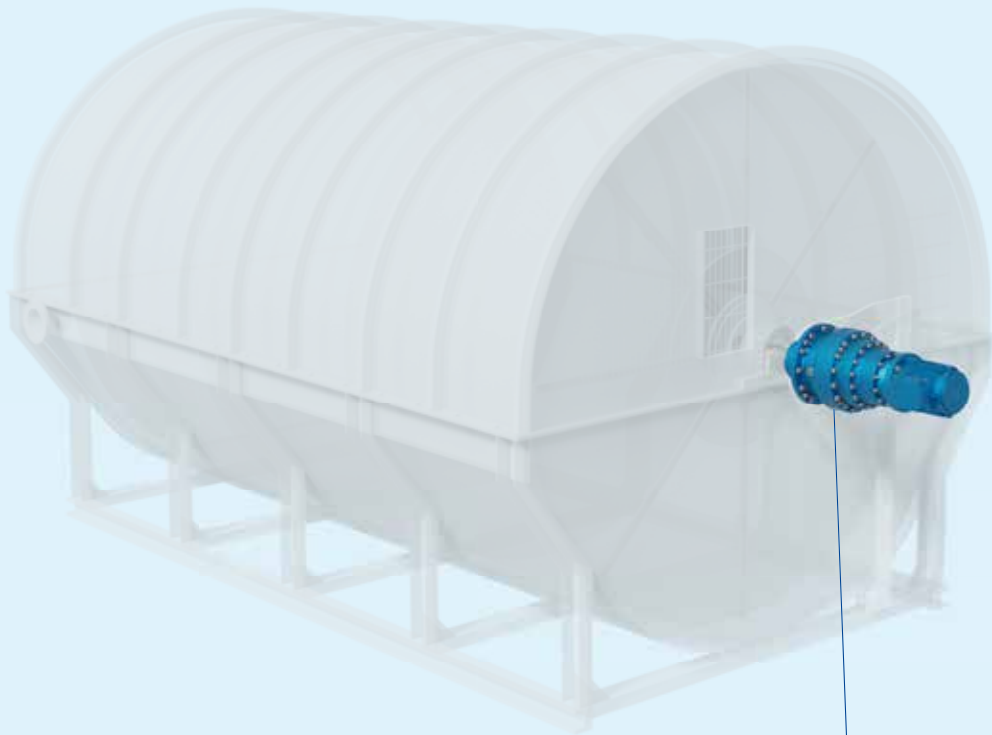
Planetary EP series

- High resistance in harsh and dusty environments
- High torque density
- Standardized or customized torque arms for shaft mounting available

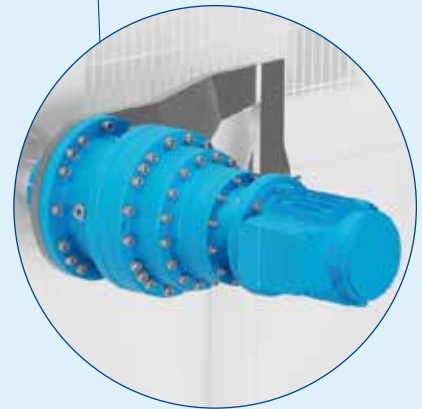


Helical & Bevel helical G series

Rotating biological contactor



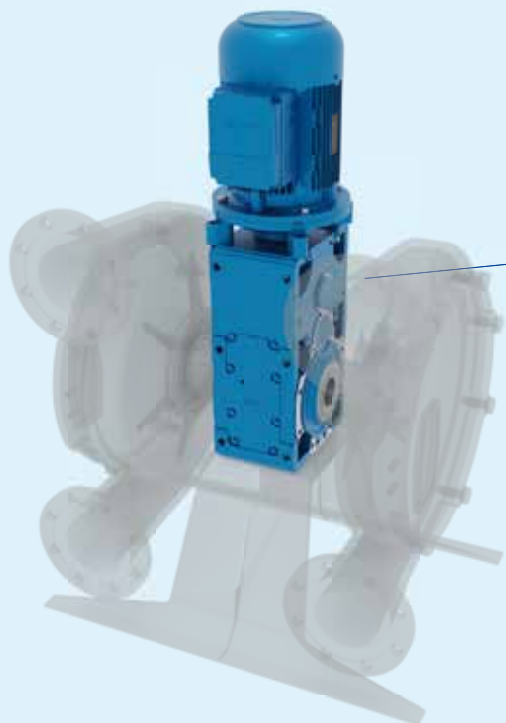
Helical combined unit



Planetary EP series

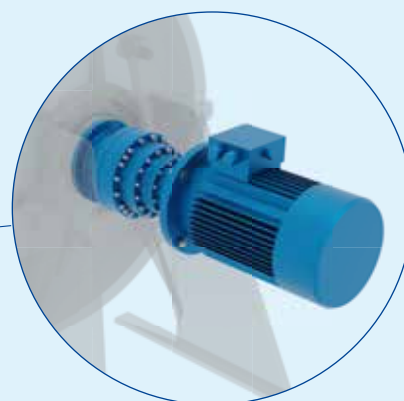
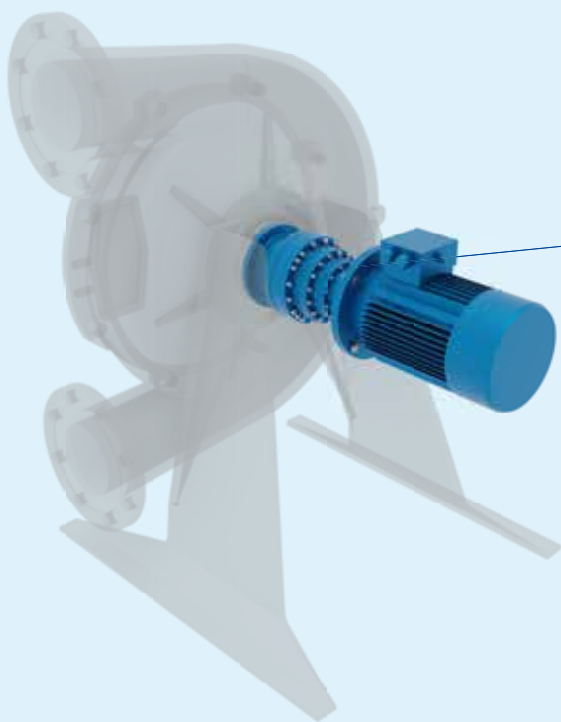
- Large number of shaft mounted solutions
- Hollow shaft + shrink disc
- Hollow shaft with keyway for easy mounting
- Integral wheel flange option available

Hose pump



Bevel helical G series

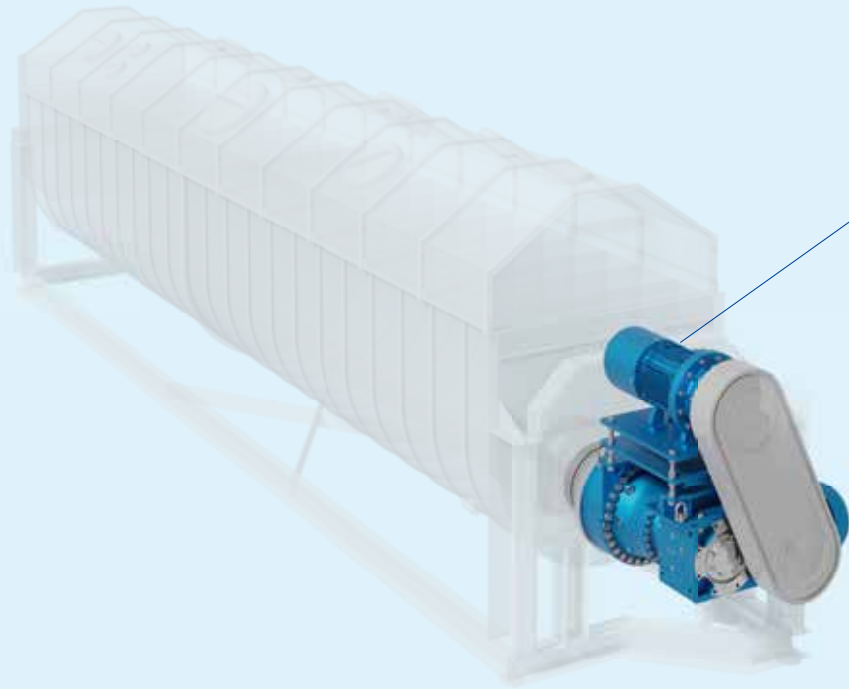
- High resistance in harsh conditions
- Premium bearing load capacity
- Premium sealing options
- C4 and C5 class surface protection according to UNI EN 12944-2
- ATEX certification on request



Planetary EP series

- Large number of output shaft types
- High resistance in harsh and dusty environments
- High torque density
- Labyrinth seals available
- ATEX certification on request

Paddle dryer



Combined planetary EP series

- Bespoke compact solution available: a completely modular combined planetary + helical gearbox
- Large thermal capacity
- Torque capacity to 3 000 kN m available
- High resistance in harsh conditions
- High torque density

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
- 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

H Series

Helical & bevel helical gear reducers

12 sizes 4,000 ... 8,001

Nominal torque (M_{N2}) up to 1,000,000 N m

Transmission ratio (i_N) 8 ... 315



Features

- Ductile iron housing suitable for horizontal or vertical mounting with integral feet
- Horizontal split housing
- 12 sizes available
- Helical gear units with 2 and 3 gear stages
- Bevel helical gear units with 1, 2 and 3 gear stages
- Case carburized gear sets
- Helical gear pairs with ground profile
- Ground GLEASON spiral bevel gear set

Benefits

- One of the widest torque range from a single supplier
- Custom solutions available on request
- Short delivery times
- Optimized design for heavy industry applications

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 ... 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

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 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
- 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

EP Slewing Series

Planetary Slewing drives

10 sizes 007 ... 250

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

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 (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
- Noiselessness and constant performance even in the hardest applications



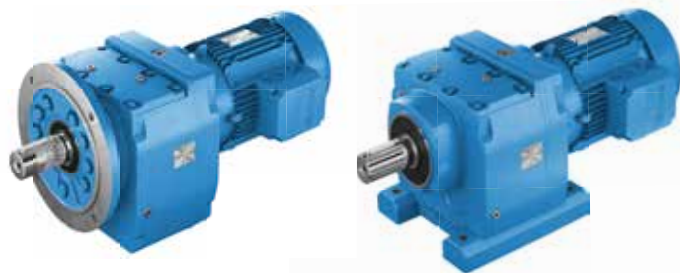
iFit iC Series

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 iO Series

Bevel helical gearmotors

7 sizes iO 37 ... iO 97

Nominal torque (M_{N2}) up to 3,650 N m

Transmission ratio (i_N) 5.4 ... 197



iFit iP Series

Parallel shaft helical gearmotors

7 sizes iP 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

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 great reliability
- Strength and reliability for heavy duty 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 high load capacity, great reliability and wear resistance
- No thermal limitation
- Tapered roller bearings on worm shaft
- Motor mounting flange integral to the housing

Benefits

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



TX Series

Premium line electric asynchronous three-phase motors and brake motors

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 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

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

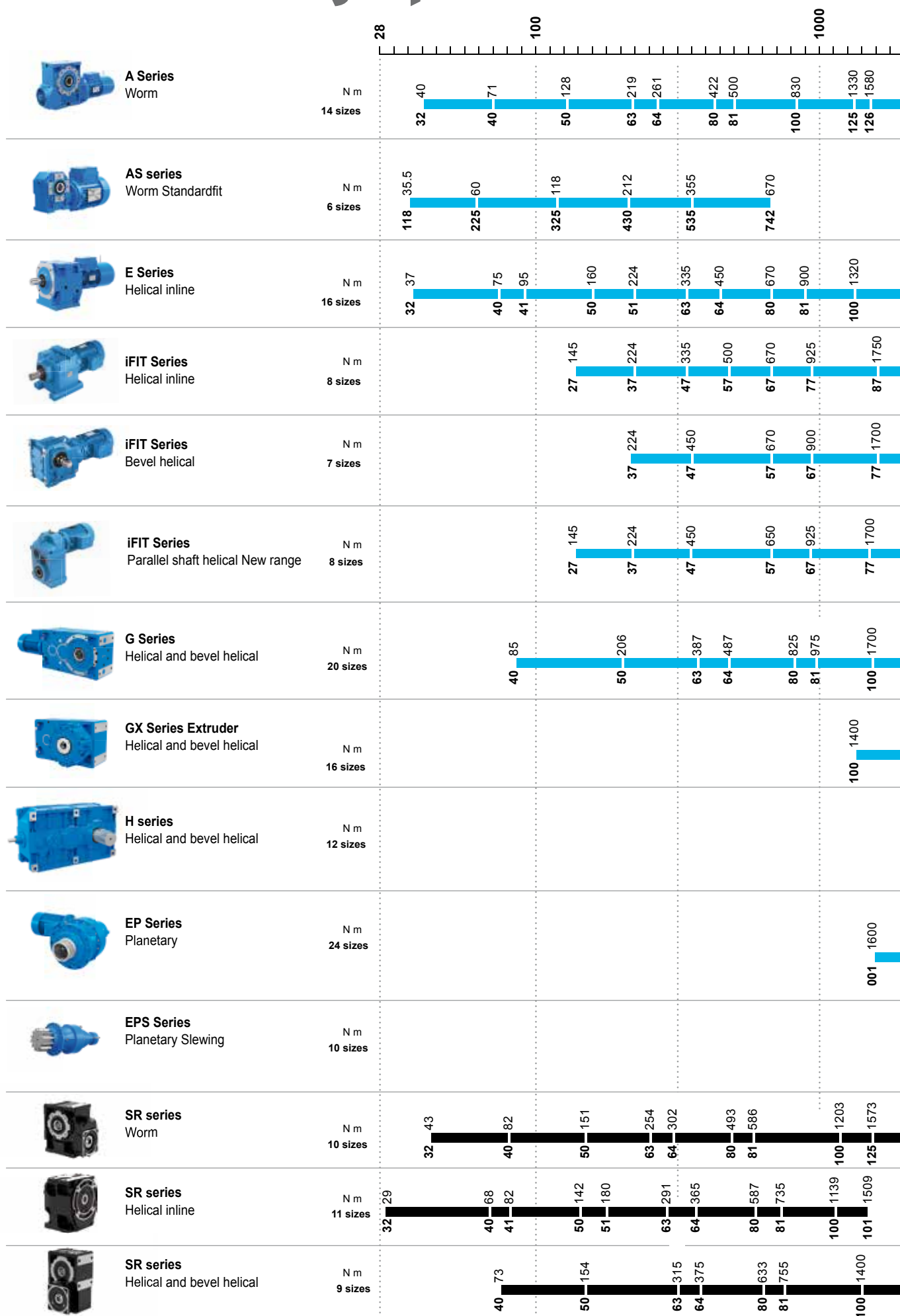
Benefits

- 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



Product range performances

Gear reducers and gearmotors



Our references



CLARIFIER
EPS SERIES

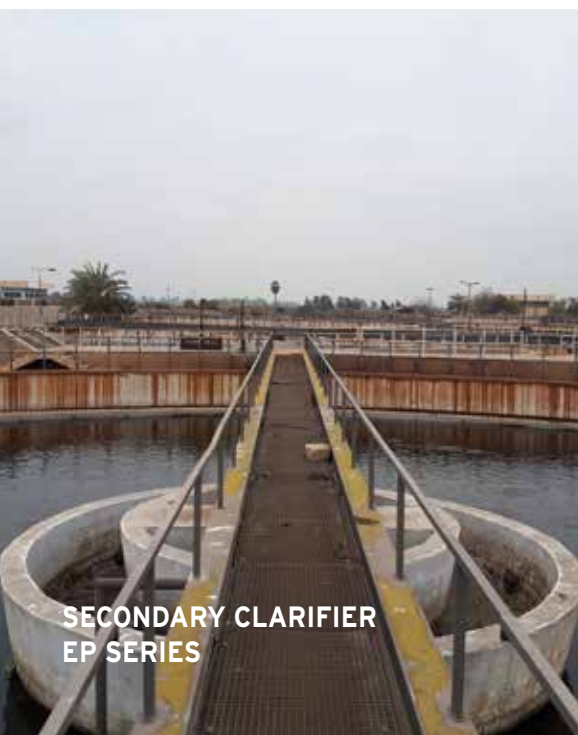


PADDLE DRYER
EP SERIES

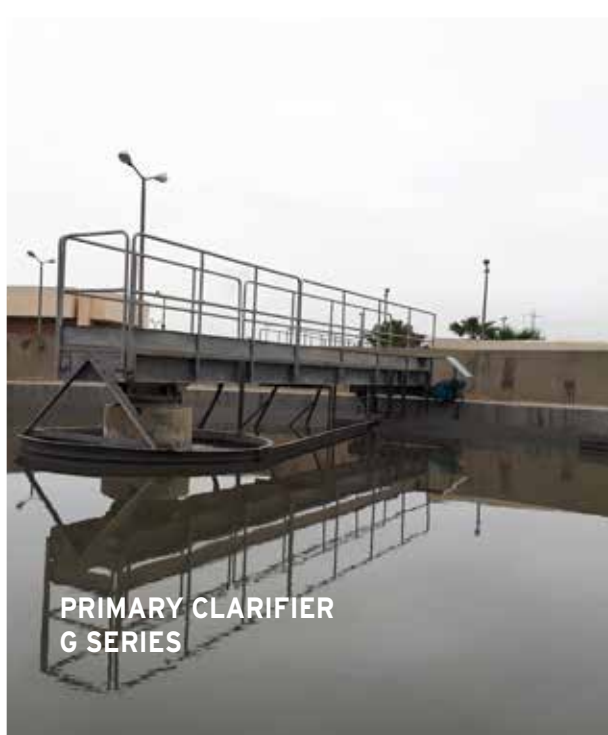


BRUSH AERATOR
G SERIES

**We deliver
reliable
solutions
worldwide**



SECONDARY CLARIFIER
EP SERIES



PRIMARY CLARIFIER
G SERIES



BRUSH AERATORS
G SERIES



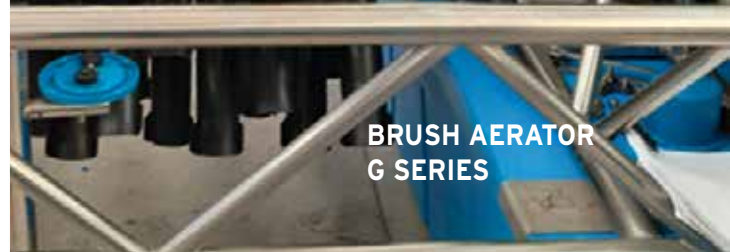
RBC
EP SERIES



BRUSH AERATOR
G SERIES



SURFACE AERATOR
G SERIES



ARCHIMEDES SCREW PUMP
G SERIES



SCREENING
A SERIES

Solutions for an evolving industry

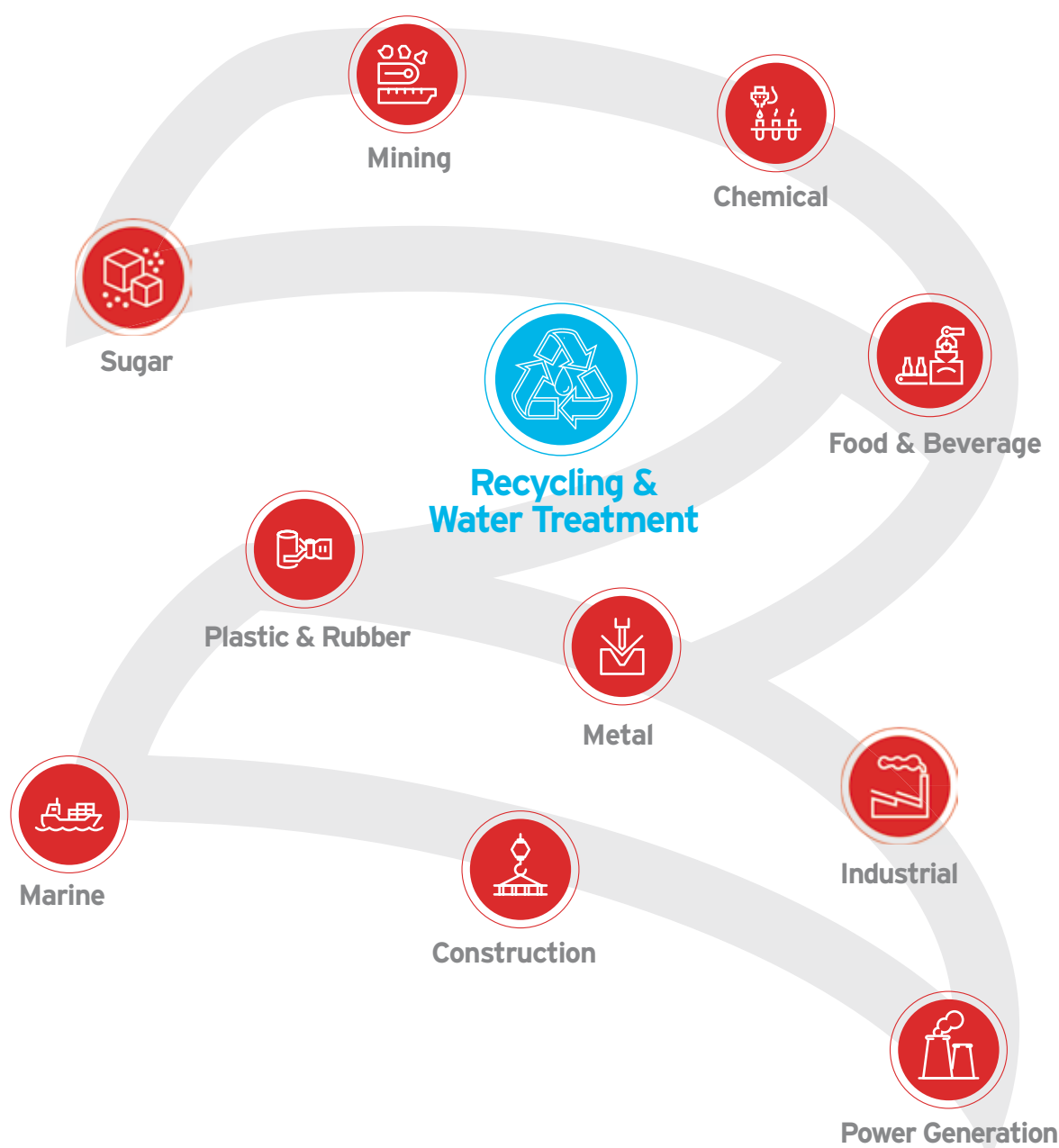
In the global marketplace, our customers, investors, partners value our products and services for two reasons: excellence and reliability. At Rossi we utilize change as a strategic lever for our growth. "Solutions for an evolving industry" fully expresses

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



17 branches*



Worldwide distribution network*

A global network of subsidiaries and dealers. From design and execution to after-sales service. Rossi is always close to you: a local, reliable and flexible partner.

Alongside our 24/7 **Rossi for You** portal you have a suite of digital support tools enabling real time access to your order tracking, invoices, spare part tables download and contact to our service.



*All contacts available on www.rossi.com



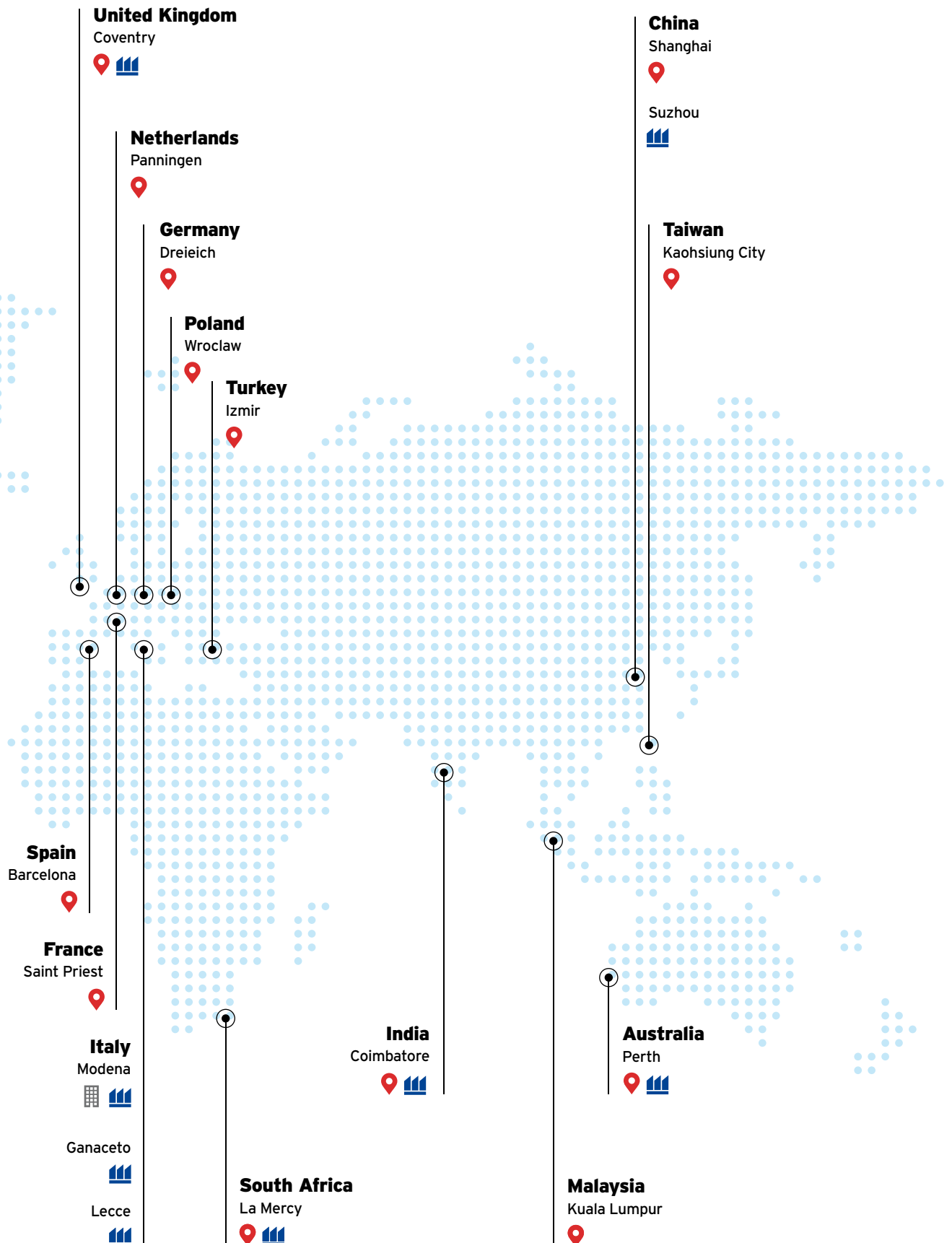
Main offices



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



17 affiliated
companies



5 production
facilities



8 assembly
plants

After-sale service



Highly trained mechanics and support teams can ensure a fast and efficient after-sale service providing support worldwide.

Digital support



Rossi Drawings, Selector and Download area enable real-time access to your order tracking, invoices, spare part tables download and contact to our service. Fast and easy online access is available 24/7, in 5 languages.

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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