



Recycling & Water Treatment





Recycling & Water treatment

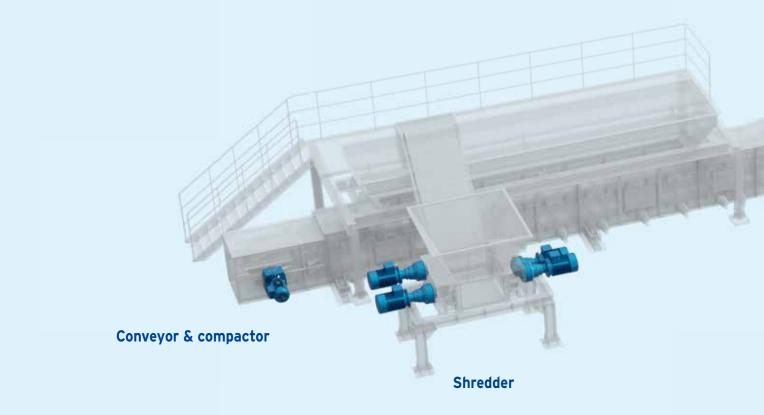
Recycling & Water treatment is a spearhead sector not only for the world economy, but for society as a whole. Our skills in process engineering encompass all the aspects of separation in the water sector, including water treatment and the disposal and recycling of solid waste.

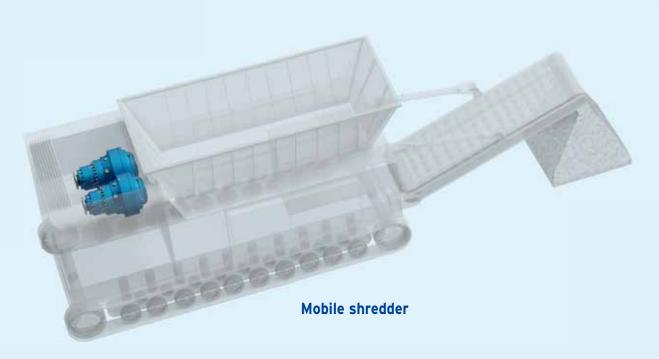
Thanks to a vast range of gear reducers, gearmotors, and accessories you will keep water treatment facilities up and running without downtime. We offer flexible solutions to reduce energy consumption, ensuring greater efficiency.





Recycling





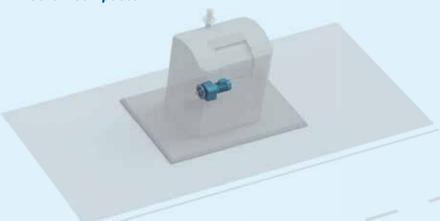




Scan the QR code to watch the video



Screw compactor



Underground compactor

Conveyor & Compactor



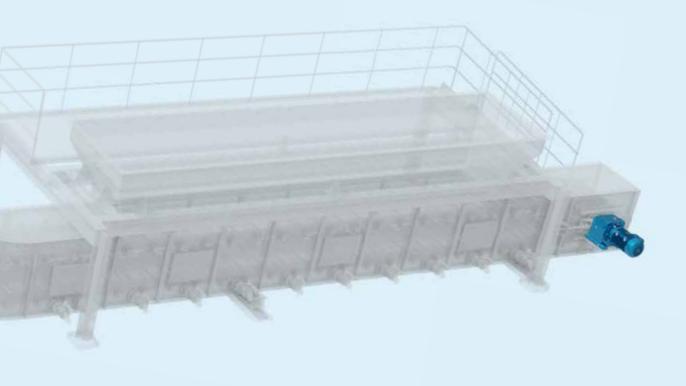




- Backstop device available
- Metric and inches shafts available
- C4, C5 class surface protection according to UNI EN 12944-2 standard available



Worm A series





Coaxial E series



Helical inline iFIT series

Mobile shredder





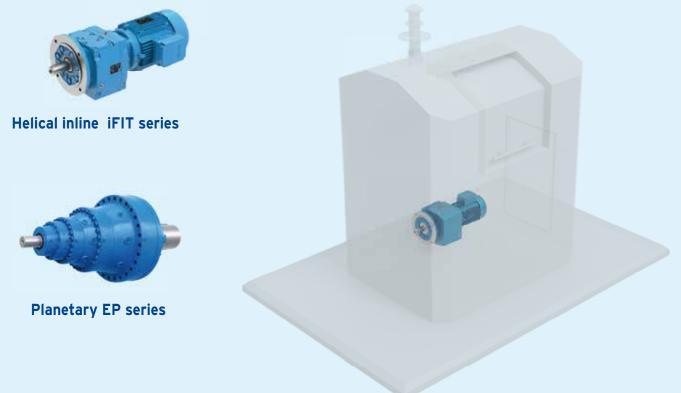
Planetary EP series

- Compact solution
- High torque density 4 satellites

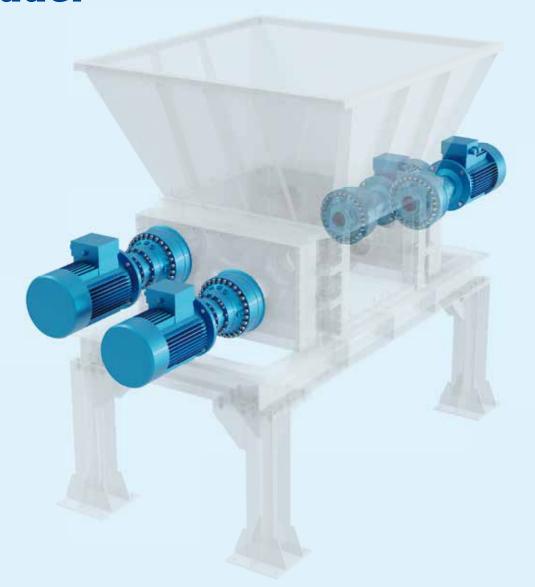
Screw compactor



Underground compactor



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 8,850,000 lb in available
- Spheroidal cast iron housing suited for horizontal and vertical mounting
- High shock load resistance

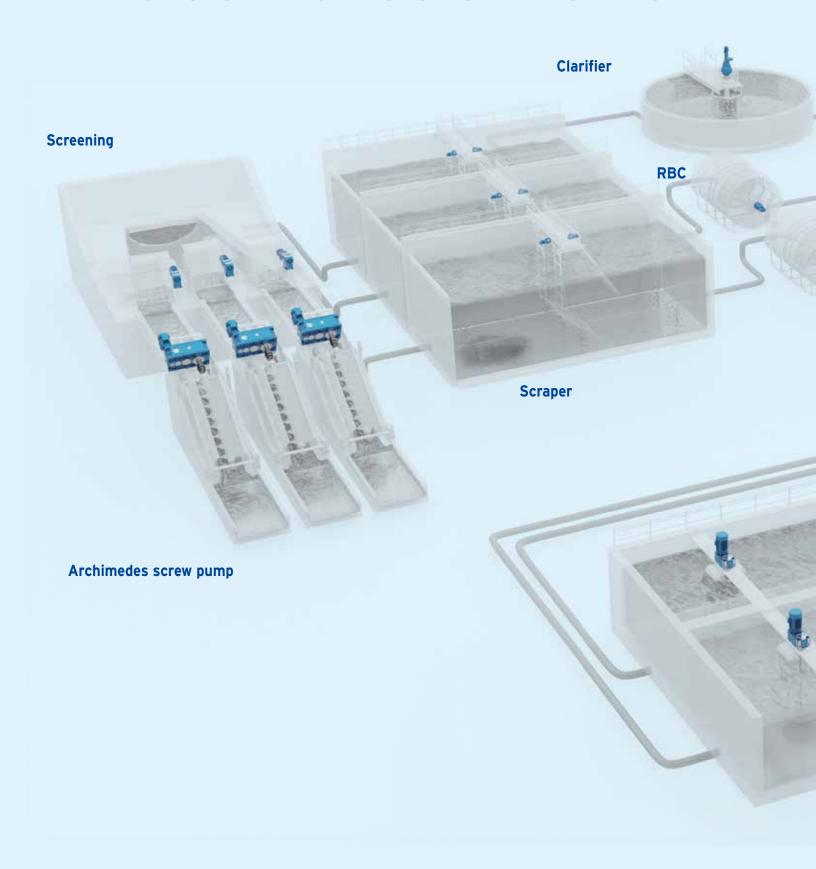


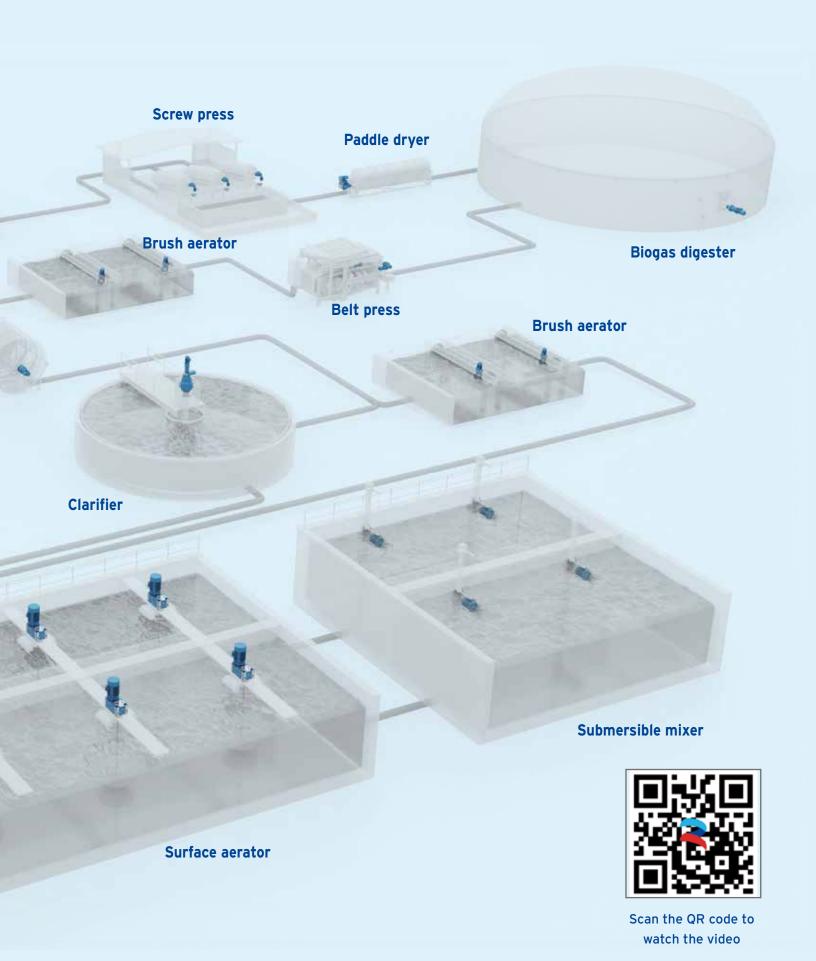
Planetary EP series

- Modular design
- High torque density
- Torque capacity to 26,500,000 lb in available
- High shock load resistance

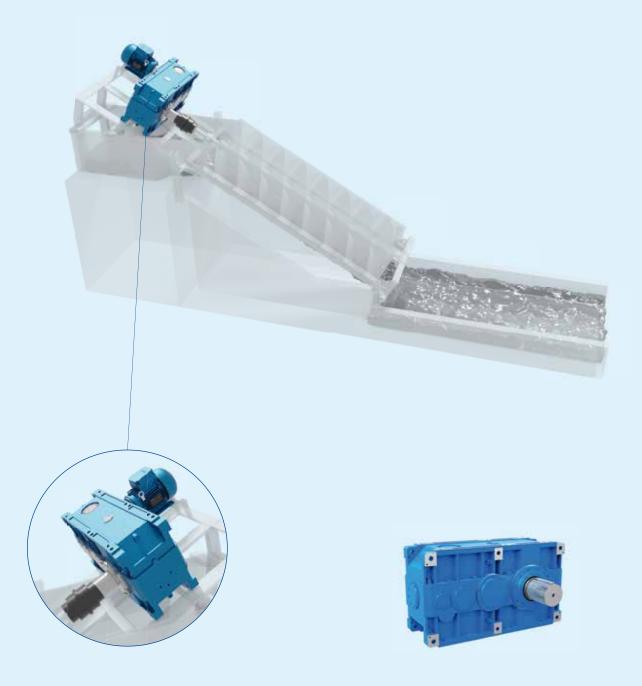


Water treatment





Archimedes screw pump



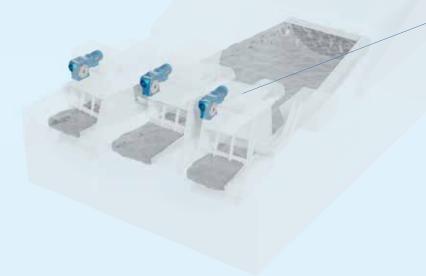
Helical & Bevel helical G series

- 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 8,850,000 lb in
- 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

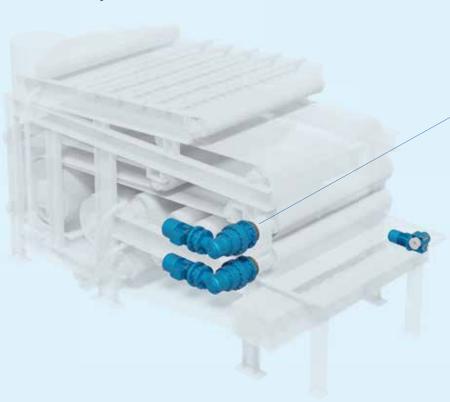
• Suitable for shaft and flange mounting



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



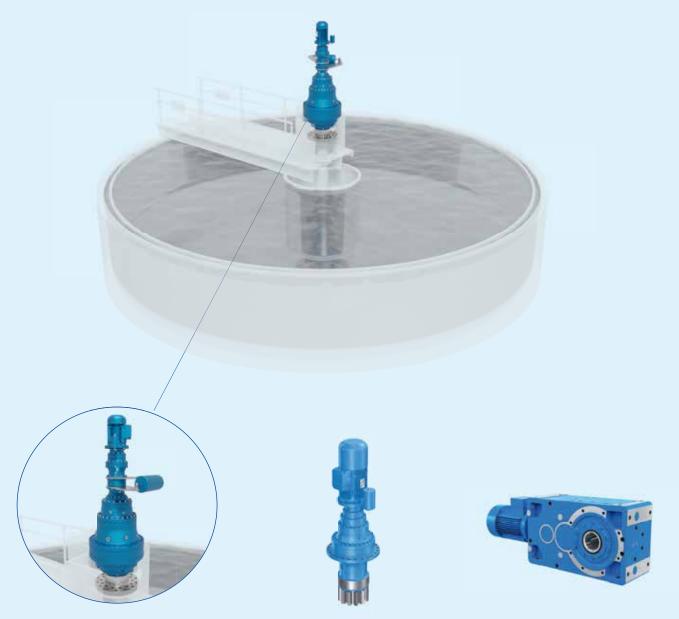
Helical & Bevel helical G series

- 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

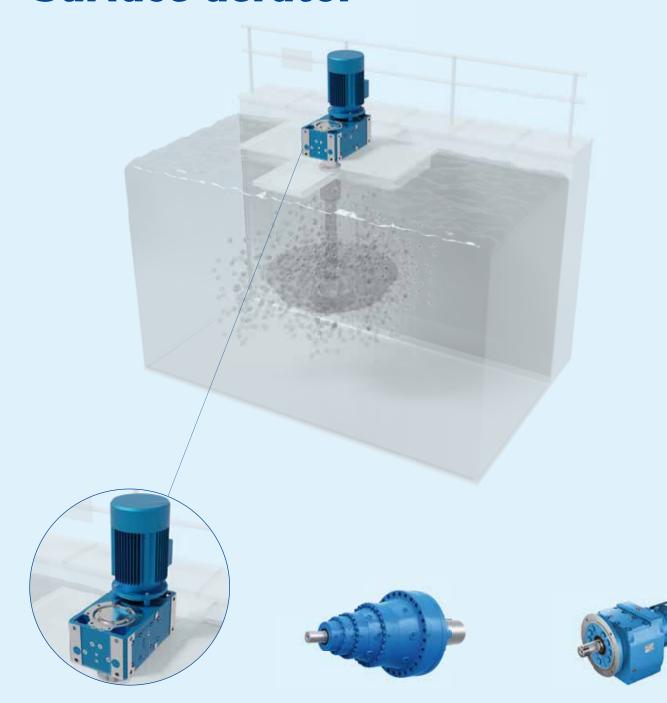
- Complete drive solution
- Modular design with unlimited reduction ratios, theoretically unlimited reduction ratios (1:30 000)
- Nominal torque up to 26,500,000 lb in •
- High resistance in harsh conditions
- Premium bearing load capacity
- Premium sealing
- Easy solution to mount a load cell
- Torque 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

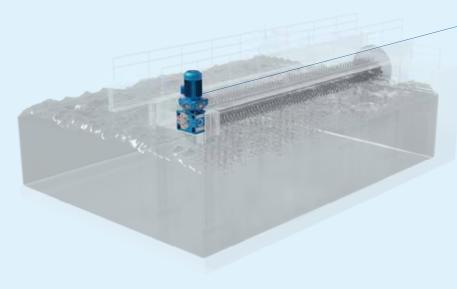
Planetary EP series

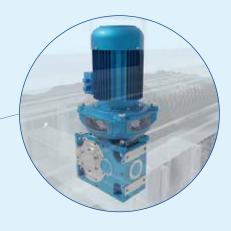
- Large radial load capacity
- Ground gears: low noise
- Metal plugs
- Premium sealing
- C4 and C5 class surface protect according to UNI EN 12944-2 available

Helical inline iFIT series

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

Brush aerator

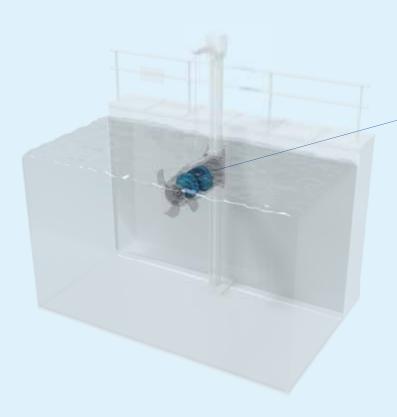


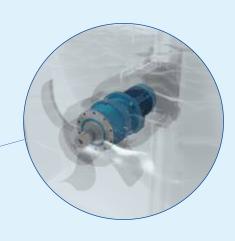


Helical & Bevel helical G series

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

Submersible mixer

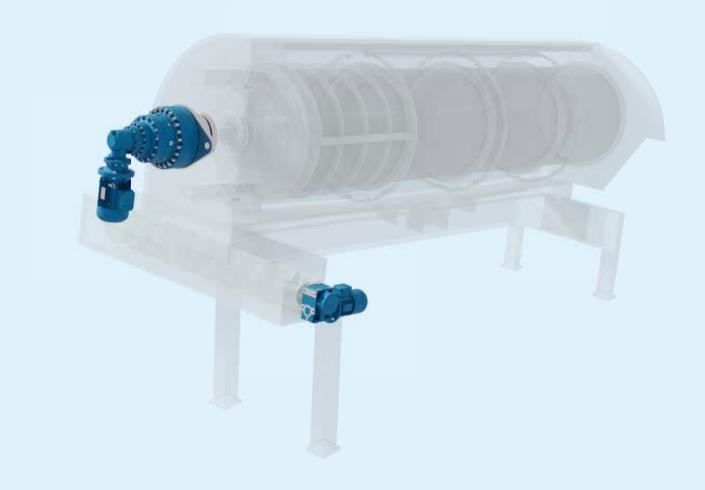




Planetary EP series

- Very compact solution
- Ground gears

Screw press







- 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

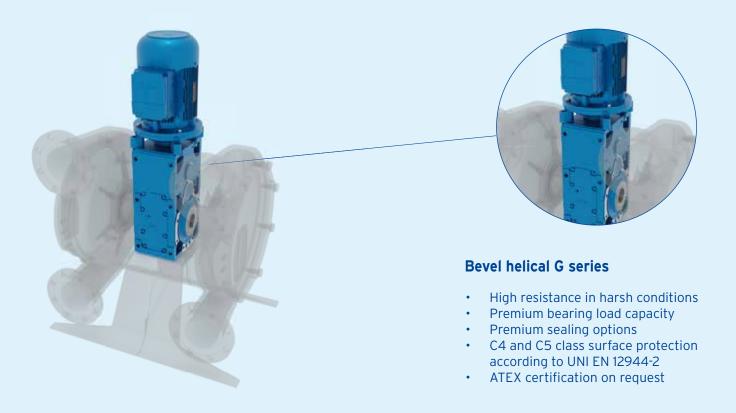


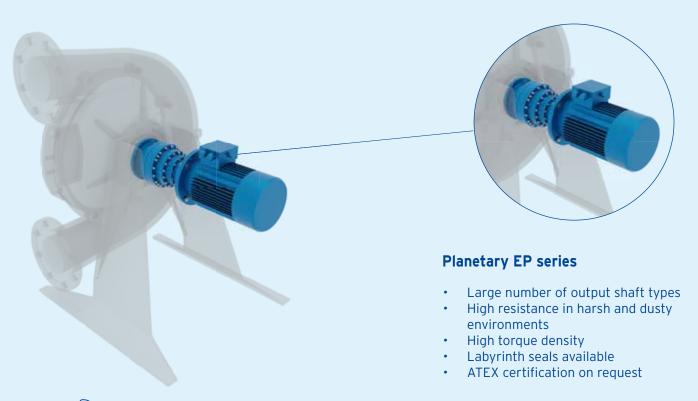
Helical combined unit

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





Paddle dryer





Combined planetary EP series

- Bespoke compact solution available: a completely modular combined planetary + helical gearbox
- Large thermal capacity
- Torque capacity to 26,500,000 lb in available
- High resistance in harsh conditions
- High torque density

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 ($\rm M_{N2}$) up to 8,850,000 lb in Transmission ratio ($\rm i_N$) 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 ($T_{\rm N2}$) up to 26,550,000 lb in Transmission ratio ($i_{\rm N}$) 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



23

Recycling & Water treatment

EP Slewing Series

Planetary Slewing drives

10 sizes 007 ... 250 Nominal torque (M $_{\rm N2}$) up to 3,540,000 lb in Transmission ratio (i $_{\rm N}$) 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 ($T_{\rm N2}$) up to 71,000 lb in Transmission ratio ($i_{\rm N}$) 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 quite and constant performance even in the hardest applications



ifit iC Series

Helical inline gearmotors

8 sizes iC 27 ... iC 97 Nominal torque (M $_{\rm N2}$) up to 30,000 lb in Transmission ratio (i $_{\rm N}$) 3.4 ... 290



ifit io Series

Bevel helical gearmotors

7 sizes iO 37 ... iO 97 Nominal torque ($\rm M_{N2}$) up to 32,300 lb in Transmission ratio ($\rm i_{N}$) 5.4 ... 197





ifit iP Series

Parallel shaft helical gearmotors

8 sizes iP 27 ... iP 97 Nominal torque ($\rm M_{N2}$) up to 43,100 lb in Transmission ratio (i $_{\rm N}$) 3.77 ... 281.71





25

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

Recycling & Water treatment

E Series

Coaxial gear reducers & gearmotors

16 sizes 32 ... 180 Nominal torque ($T_{\rm N2}$) up to 90,000 lb in Transmission ratio (i,,) 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
- · Optional synthetic oil for food industry

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 ($T_{\rm N2}$) up to 6,000 lb in Transmission ratio ($i_{\rm N}$) 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 - 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



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

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

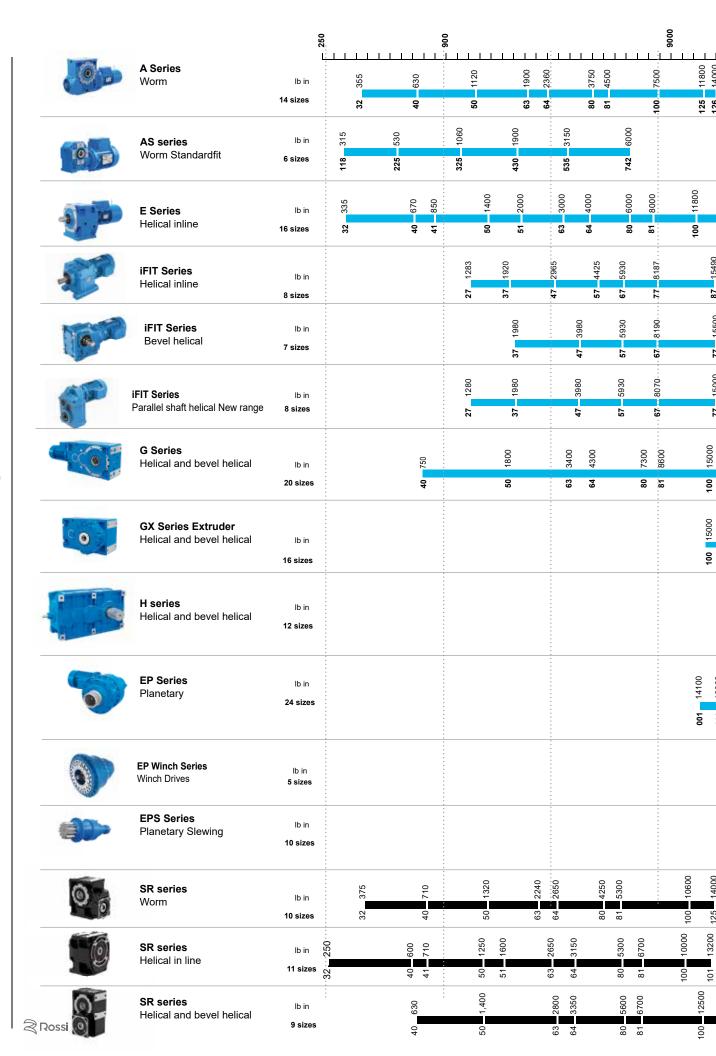
- Reduced electric cabinet dimension and cooling systems
- · Compact solution of inverter, motor, and gearbox
- · Suitable for hard environmental operating conditions
- · No need of motor encoder for speed control
- High Safety Performance Level (up to PL E)
- To develop your own dedicated control functions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

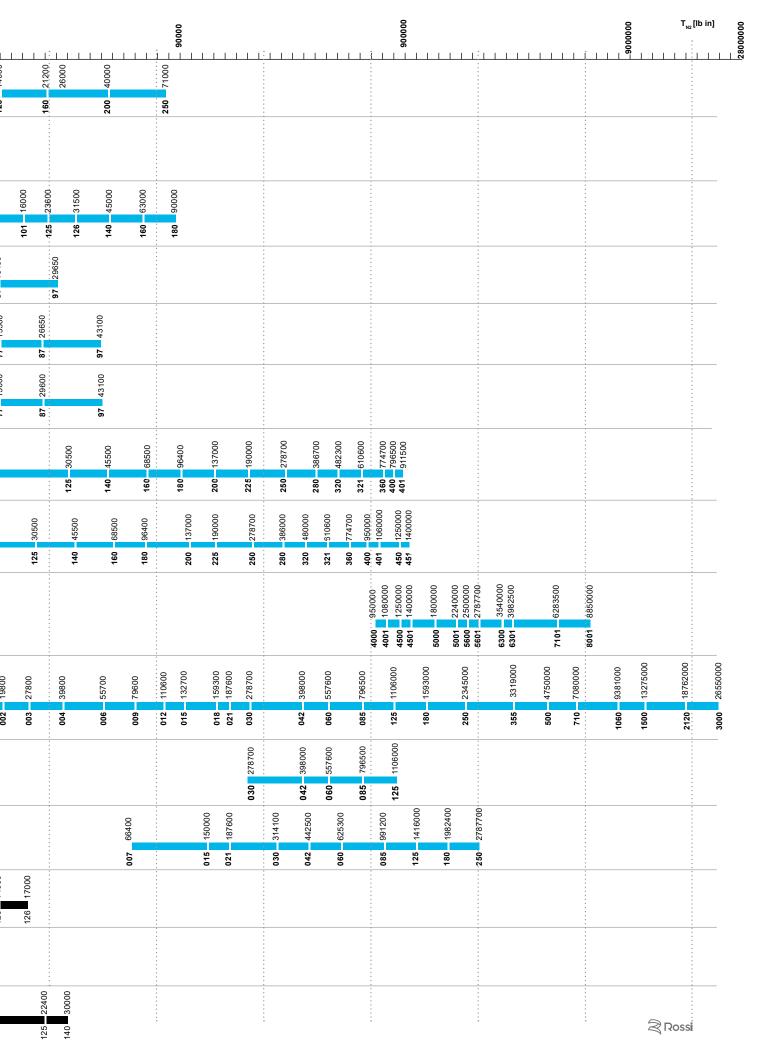




27

Recycling & Water treatment



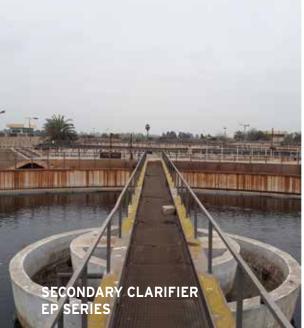








We deliver reliable solutions worldwide





















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

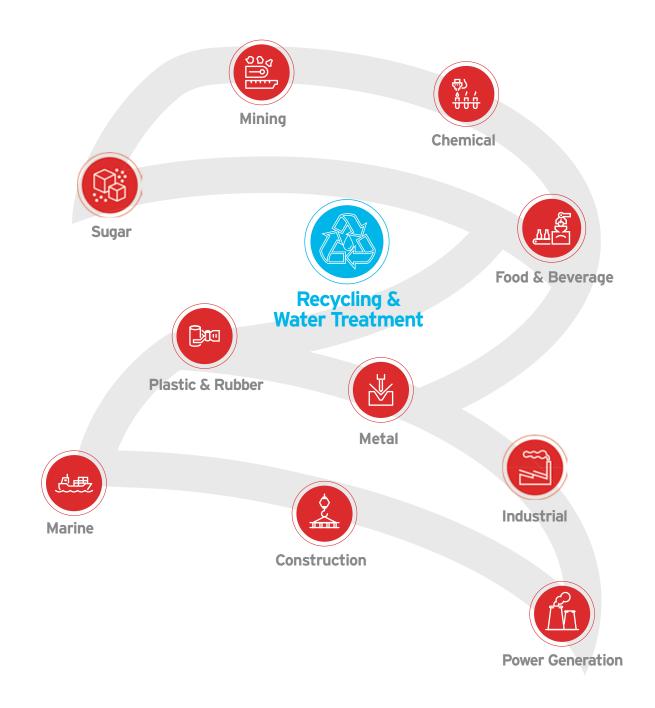
expresses our corporate philosophy: We are a flexible and dynamic reality, able to satisfy all requirements of a continuously evolving industrial world, thanks to our innovative solutions.

- 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*



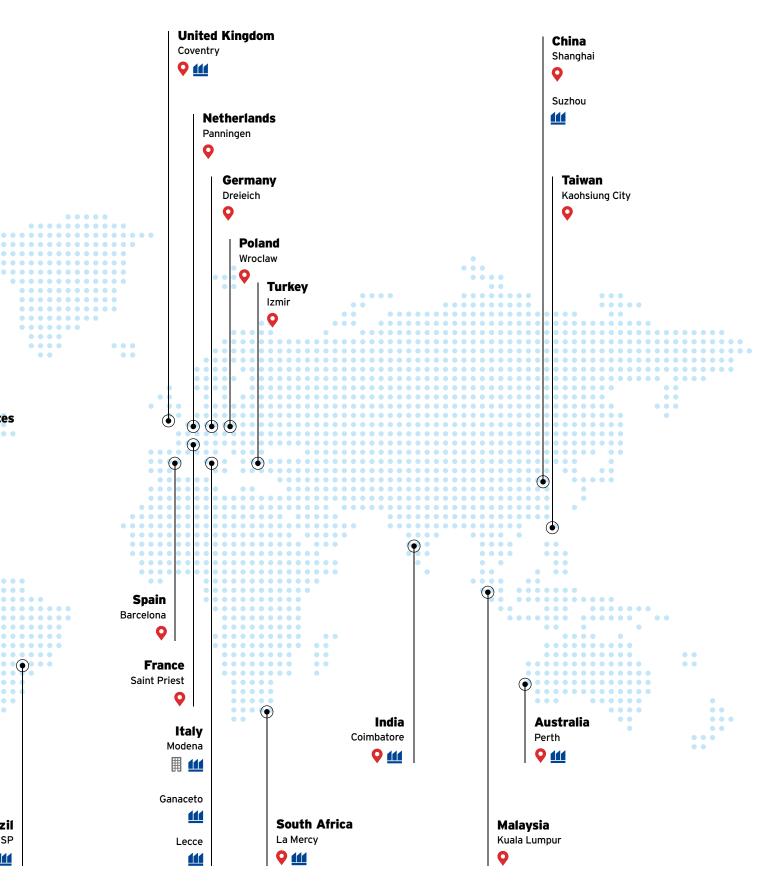
Worldwide distribution network*



Bra Cordeiropolis,



^{*}All contacts available on www.rossi.com



Key figures



1,000

people around the world



5.000 customers worldwide



years of experience



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



affiliated companies



production facilities



assembly plants

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

















BUREAU VERITAS Marine & Offshore





Rossi North America 3355 Martin Farm Road, Suite #400 Suwanee, GA 30024

Phone - 1 800 931-2044 Fax - 1 678- 288-3658

info.northamerica@rossi.com www.rossi.com/northamerica