



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.











Scan the QR code to watch the video



Screw compactor

Underground compactor

3

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 A series





Coaxial E series



Helical inline iFIT series

5

Mobile shredder





- Compact solution
- High torque density 4 satellites



Screw compactor

Helical inline iFIT series



Underground compactor



Helical inline iFIT series











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



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





Water treatment

Clarifier

RBC

Screening

Scraper

Archimedes screw pump



Surface aerator

Scan the QR code to watch the video

11

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

Belt press





Worm A series

• Suitable for shaft and flange mounting



Planetary EP series

• Suitable for shaft and flange mounting



- 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







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





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 Helical & Bevel helical G series

Standard or customized slewing gearbox available

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

Recycling & Water treatment

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



- 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

- 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



• 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 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 ($M_{_{N2}}$) 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

- 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

- · 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 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

- 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





8 sizes iC 27 ... iC 97 Nominal torque ($M_{_{N2}}$) up to 30,000 lb in Transmission ratio ($i_{_N}$) 3.4 ... 290



iFit iO Series Bevel helical gearmotors

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





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

- "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 (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 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

- 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



d 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

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



Recycling & Water treatment

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		A Series Worm	lb in 14 sizes	32 355	40 630		50 1120	63 1900	64 2360	80 3750	81 4500	100.7500		125 11800 126 14000
		AS series Worm Standardfit	lb in 6 sizes	118 315	225 530	325 1060		430 1900	535 3150		742 6000			
	10	E Series Helical inline	lb in 16 sizes	32 335		41 850	50 1400	51 2000	63 3000	64 4000	80 6000	1.1	100 11800	
	1	iFIT Series Helical inline	lb in 8 sizes				27 1283	37 1920	47 2965	57 4425	67 5930			87 15490
	C	iFIT Series Bevel helical	lb in 7 sizes			6 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		37 1980	4 4 5 4 4 4 4 4 5 5 6 4 4 4 4 4 4 4 4 4	47 3980	57 5930	. 67 8190		77 15500
		iFIT Series Parallel shaft helical New range	lb in 8 sizes			:	27 1280	37 1980		47 3980	57 5930	67 - 8070		77 15000
_		G Series Helical and bevel helical	lb in 20 sizes		40 750			50 1800	53 2100			80 7300		100 15000
	C 0	GX Series Extruder Helical and bevel helical	lb in 16 sizes						* * * * * * * * * * * * * * * * * * *			6 6 7 8 8 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		100 15000
		H series Helical and bevel helical	lb in 12 sizes											
	6	EP Series Planetary	lb in 24 sizes									2 	001 14100	
		EP Winch Series Winch Drives	lb in 5 sizes			6 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 9 8 9 8			4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9			0 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
		EPS Series Planetary Slewing	lb in 10 sizes			6 6 6 6 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9						4 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		
	0	SR series Worm	lb in 10 sizes	32_375	40 710	6 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	50 1320		63 2240 64 2650	80 4 250	81 5300	6 9 6 6 6 7 8 8 8 8 8 8 8 9 8 9 8 9 8 9 9 9 9 9 9	100 10600	125
	C	SR series Helical in line	lb in 11 sizes	32 250	40 600 41 710	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		51 1600		64 3150	80 5300	81 6700	100 10000	101 13200
M	Rossi O	SR series Helical and bevel helical	lb in 9 sizes	•	40 630		50 1,400			64 3350	80 5600	81 6700		









We deliver reliable solutions worldwide

SECONDARY CLARIFIER



BRUSH AERATORS G SERIES









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BRUSH AERATOR G SERIES

ARCHIMEDES SCREW PUMP 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



Who we are

Key figures





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

150 9001:2015

150 14001:2015

ISO 45001:2023

Product certifications



DN





RoHS





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