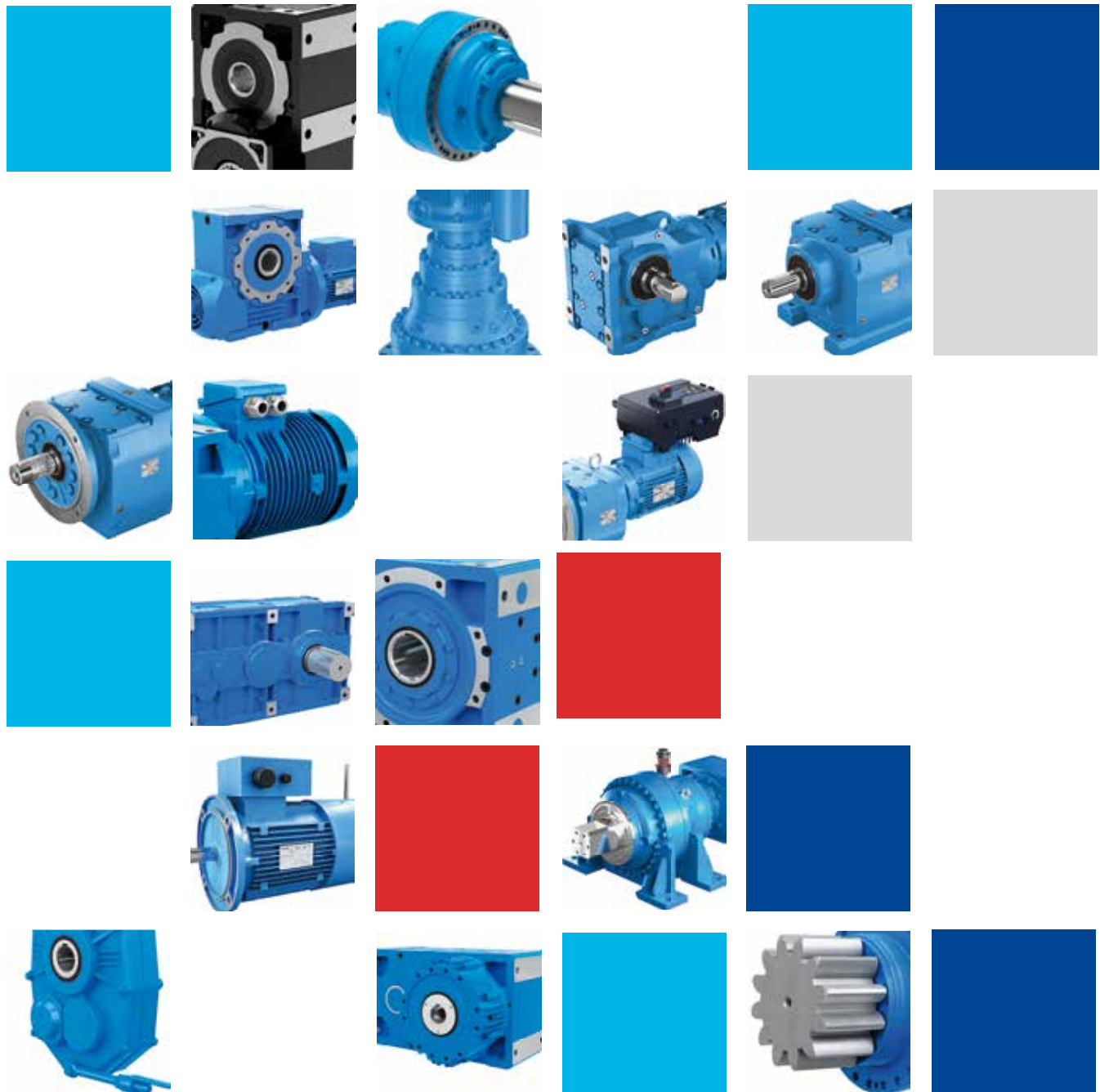




PRODUCT OVERVIEW



GEAR REDUCERS | GEARMOTORS | ELECTRIC MOTORS | MOTION CONTROL

rossi.com

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com



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"

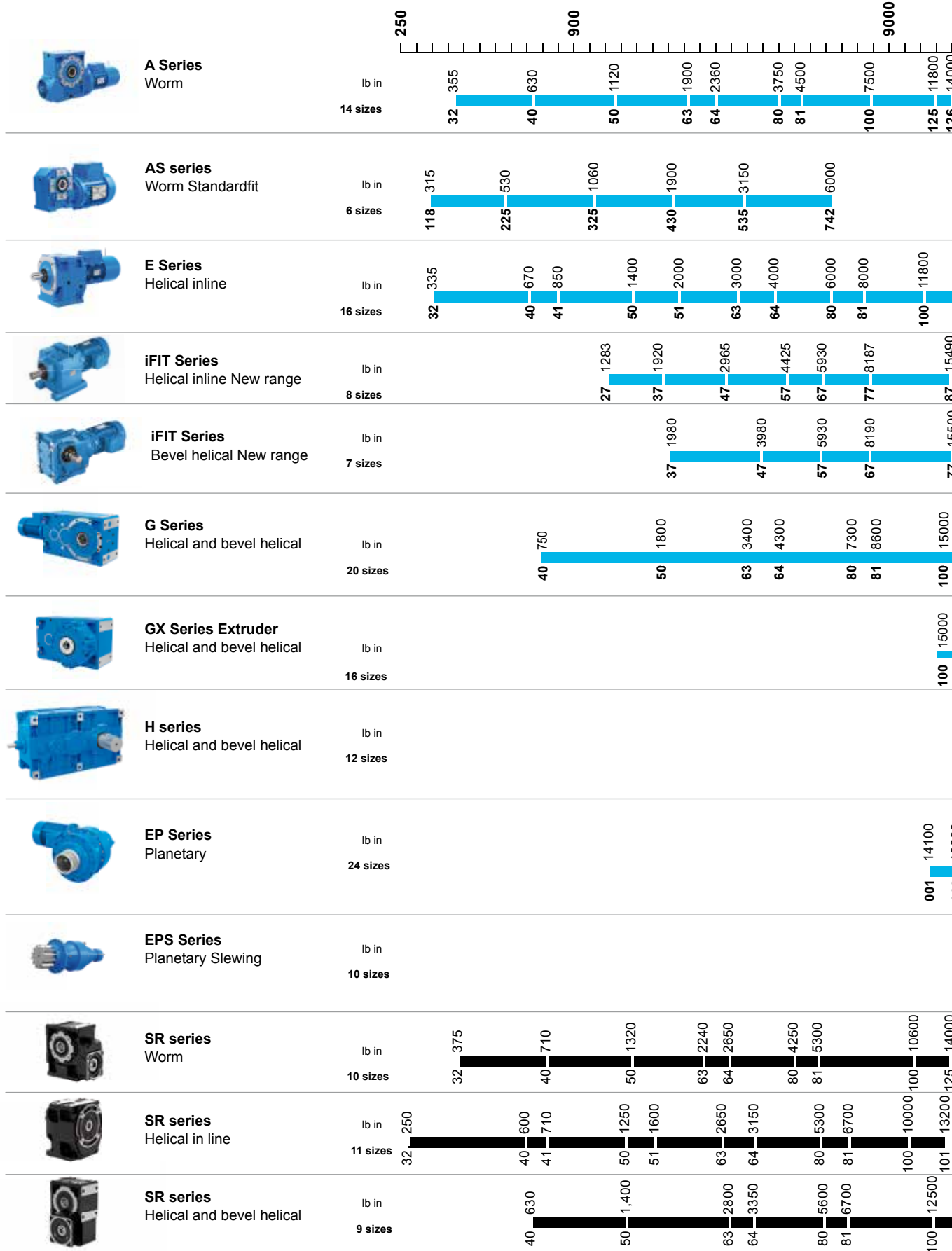
fully expresses our corporate philosophy: We are a flexible and dynamic reality, able to satisfy all requirements of a continuously evolving industrial world, thanks to our innovative solutions.

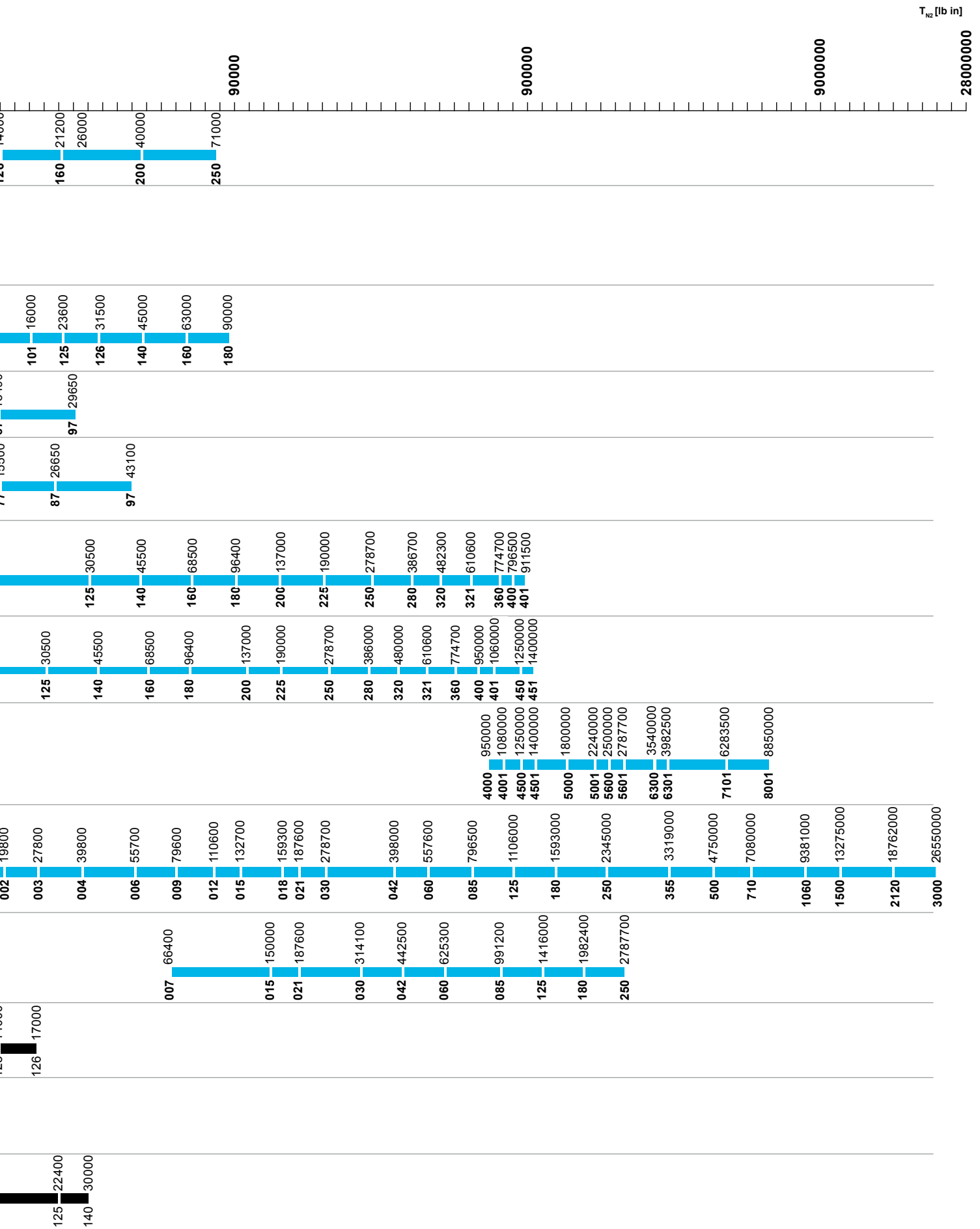
- Cutting-edge manufacturing
- Specialized housing machining
- Extensive systematic controls
- Experience and know-how
- Excellence and innovation
- Reliable customer support.



Product range

Gear reducers and gearmotors





GEAR REDUCERS & GEARMOTORS

Worm gear reducers & gearmotors

A Series



A Series

Worm gear reducers & gearmotors

Features

- Universal mounting with lower feet integral on the housing and B14 flanges
- Rigid and precise cast iron monobloc housing
- Forced ventilation for an easy thermal power dissipation (size ≥ 100)
- Worm wheels made of nickel bronze with controlled phosphor content to achieve improved performance, a higher load capacity, greater reliability and wear resistance
- Higher worm efficiency
- Wide range of accessories and non-standard designs

Benefits

- Longer life and lower power consumption
- Easy and functional shaft mounting
- High performance and greater reliability
- Smooth and precise running, reduced and constant backlash
- Constant performance in heavy duty applications



A Standardfit Series

Worm gearmotors

Features

- Mounting with lower integral feet and B14 flanges on 2 faces integral on the housing
- Rigid and precise cast iron monobloc housing
- Worm wheels made of nickel bronze with controlled phosphor content to achieve improved performance, a higher load capacity, greater reliability and wear resistance
- Generous internal space between train of gears and housing
- Tapered roller bearings on worm shaft
- Motor mounting flange integral to the housing
- Higher worm efficiency

Benefits

- Longer life and lower power consumption
- Interchangeability with major manufacturers
- High performance and greater reliability
- Smooth and quiet running

14 sizes 32 ... 250

Nominal torque (T_{N2}) up to 71,000 lb in

Transmission ratio (i_N) 7 ... 16,000

Size Torque [lb in]

Size	Torque [lb in]
A 32	355
A 40	630
A 50	1,120
A 63	1,900
A 64	2,360
A 80	3,750
A 81	4,500
A 100	7,500
A 125	11,800
A 126	14,000
A 160	21,200
A 161	26,500
A 200	40,000
A 250	71,000

6 sizes 118 ... 742

Nominal torque (T_{N2}) up to 6,000 lb in

Transmission ratio (i_N) 6 ... 75

Size Torque [lb in]

Size	Torque [lb in]
AS 118	315
AS 225	530
AS 325	1,060
AS 430	1,900
AS 535	3,150
AS 742	6,000



E Series

Coaxial gear reducers & gearmotors

Features

- Universal mounting with lower/upper feet and B5 flange integral to the housing
- Rigid and precise cast iron monobloc housing
- Helical toothed gear pairs with ground profile
- Wide range of sizes
- Final stage pinion with 3 bearings for increased torque capacity

Benefits

- Longer life
- Minimum maintenance requirements
- High performance and greater reliability
- Strength and reliability for heavy duty applications

16 sizes 32 ... 180

Nominal torque (T_{N2}) up to 90,000 lb in

Transmission ratio (i_N) 4 ... 6,300

Size	Torque [lb in]
E 32	335
E 40	670
E 41	850
E 50	1,400
E 51	2,000
E 63	3,000
E 64	4,000
E 80	6,000
E 81	8,000
E 100	11,800
E 101	16,000
E 125	23,600
E 126	31,500
E 140	45,000
E 160	63,000
E 180	90,000

Helical inline & bevel helical gearmotors



iFIT Series
Helical inline gearmotors

8 sizes iC 27 ... iC 97
Nominal torque (M_{N2}) up to 29,650 lb in
Transmission ratio (i_N) 3.4 ... 290

Size	Torque [lb in]
iC 27	1,283
iC 37	1,983
iC 47	2,965
iC 57	4,425
iC 67	5,930
iC 77	8,187
iC 87	15,489
iC 97	29,650



iFIT Series
Bevel helical gearmotors

7 sizes iO 37 ... iO 97
Nominal torque (M_{N2}) up to 43,100 lb in
Transmission ratio (i_N) 5.4 ... 197

Size	Torque [lb in]
iO 37	1,980
iO 47	3,980
iO 57	5,930
iO 67	8,190
iO 77	15,500
iO 87	26,650
iO 97	43,100

Features

- Fully interchangeable with market standards
- Made in Europe
- Full range with robust cast iron housing
- Gear precision as per DIN/ISO 6 or better
- New IE2, IE3 compact electric motors
- High quality sealing solutions
- Round shaped, smooth housing surface
- Higher torque

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. Better hygiene
- Up to 12% torque higher than market standard

Parallel shaft helical gearmotors



iFIT Series
Parallel shaft helical gearmotors

Coming soon...

8 sizes iP 27 ... iP 97
Nominal torque (M_{N2}) up to 43,100 lb in
Transmission ratio (i_N) 3.77 ... 281.71

Size	Torque [lb in]
iP 27	1,280
iP 37	1,980
iP 47	3,980
iP 57	5,930
iP 67	8,070
iP 77	15,000
iP 87	29,600
iP 97	43,100

The **i**nnovative, **i**nternational, **i**nterchangeable gearmotors designed for a world in motion

READY TO FIT YOUR NEEDS

CONSTRUCTION

PACKAGING

WASTE & WATER TREATMENT

INTRALOGISTICS HANDLING

FOOD & BEVERAGE



G Series

Helical & bevel helical gear reducers & garmotors

Features

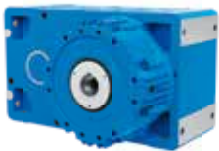
- Universal symmetrical cast iron housing suited for horizontal and vertical mounting having integral feet with housing on 4 faces and 2 faces B14
- Single piece housing for high structural stiffness
- Wide range of sizes, train of gears solutions and non-standard designs
- Suitable to be equipped with large NEMA & IEC motors
- Extended input-output center distance housing for U-layout
- Case hardened and hardened gear pairs
- Helical gear pairs with ground profile
- GLEASON spiral bevel gear pairs with ground profile

Benefits

- Easy and functional shaft-mounting design
- Minimum maintenance requirements
- High performance and greater reliability
- Strength and reliability for heavy duty applications

20 sizes 40 ... 401
Nominal torque (T_{N2}) up to 900,000 lb in
Transmission ratio (i_N) 2 ... 160

Size	Torque [lb in]
G 40	750
G 50	1,800
G 63	3,400
G 64	4,300
G 80	7,300
G 81	8,600
G 100	15,000
G 125	30,500
G 140	45,500
G 160	68,500
G 180	96,400
G 200	137,000
G 225	190,000
G 250	278,700
G 280	386,700
G 320	482,300
G 321	610,600
G 360	774,700
G 400	796,500
G 401	911,500



GX Series

Helical & bevel helical extruders design

Excellent specific series for extruders with the same Features and Benefits of G series

Additional Features

- Extruder support conceived for normal and heavy applications
- Optional extended input-output center distance housing for U-layout

16 sizes 100 ... 451
Nominal torque (T_{N2}) up to 1,400,000 lb in
Transmission ratio (i_N) 6.3 ... 28

Size	Torque [lb in]
GX 100	15,000
GX 125	30,500
GX 140	45,500
GX 160	68,500
GX 180	96,400
GX 200	137,000
GX 225	190,000
GX 250	278,700
GX 280	386,700
GX 320	480,000
GX 321	610,600
GX 360	774,700
GX 400	950,000
GX 401	1,060,000
GX 450	1,250,000
GX 451	1,400,000



H Series

Helical & bevel helical gear reducers

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



G & H Series

Drive units on swing base

Features

- Customized and innovative solutions for every specific application in order to maximize cost efficiency
- Swing base structures are made of hollow profiles or beams appropriately combined, treated and machined
- Wide range of gearboxes and possible combinations with a wide range of accessories and available options
- Customer support and assistance during the design stage, fabrication and commissioning taking advantage of Rossi's long experience
- Assembly and alignment by experienced and skilled manpower
- Global qualified suppliers of components for swing base and special design assemblies

Benefits

- Supply of turn-key complete drive units
- Simplified installation at job site
- Maximum efficiency and cost effectiveness

12 sizes 4000 ... 8001

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

Transmission ratio (i_N) 8 ... 315

Size	Torque [lb in]
H 4,000	950,000
H 4,001	1,060,000
H 4,500	1,250,000
H 4,501	1,400,000
H 5,000	1,800,000
H 5,001	2,240,000
H 5,600	2,500,000
H 5,601	2,787,700
H 6,300	3,540,000
H 6,301	3,982,500
H 7,101	6,283,500
H 8,001	8,850,000

Power (P_N)
 Nominal torque (T_{N2})
 Transmission ratio (i_N) } according to Customer's requirements

Planetary gear reducers & gearmotors



EP series Planetary gear reducers & gearmotors

Features

- 2, 3, 4 or 5 and 6 reduction stages for both coaxial and right angle units
- Modular design, with multi-optional executions
- Suitable to be equipped with NEMA, hydraulic & IEC motors
- External gear pair made of casehardened and hardened steel; internal gear made from nitride steel
- Cylindrical spur gear with ground profile and flank modification
- GLEASON spiral bevel gear pairs with ground profile
- Very compact size and reduced mass of gearbox
- Wide range of accessories and non-standard designs
- Lower backlash, enhanced stiffness and heavy duty bearing
- 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 and output speeds available



EPSlewing series Planetary Slewing drives

Excellent specific series for slewing drives with the same Features and Benefits of EP series.

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
- Enable to benefit of the wider range of options of the EP industrial catalog

24 sizes 001 ... 3000

Nominal torque (T_{N2}) up to 26,500,000 lb in

Transmission ratio (i_N) 3.55 ... 3,550

Size Torque [lb in]

Size	Torque [lb in]
EP 001	14,100
EP 002	19,800
EP 003	27,800
EP 004	39,800
EP 006	55,700
EP 009	79,600
EP 012	110,600
EP 015	132,700
EP 018	159,300
EP 021	187,600
EP 030	278,700
EP 042	398,000
EP 060	557,600
EP 085	796,500
EP 125	1,106,000
EP 180	1,593,000
EP 250	2,345,000
EP 355	3,319,000
EP 500	4,750,000
EP 710	7,080,000
EP 1,060	9,381,000
EP 1,500	13,275,000
EP 2,120	18,762,000
EP 3,000	26,550,000

10 sizes 007 ... 250

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

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

Size Torque [lb in]

Size	Torque [lb in]
EPS 007	66,400
EPS 015	150,000
EPS 021	187,600
EPS 030	314,100
EPS 042	442,500
EPS 060	625,300
EPS 085	991,200
EPS 125	1,416,000
EPS 180	1,982,400
EPS 250	2,787,700



EP Combined Units Series

Combined planetary gear reducers & gearmotors

Features

- Planetary drives combined with other Rossi products to optimize performances on a broad spectrum of application needs
- Possible combinations with standard Rossi series using the planetary drives with worms, coaxial, helical and helical bevel drives and gearmotors

Benefits

- Easy customization to meet customer needs
- Flexibility and adaptability to specific application needs
- Interchangeability

24 sizes 001 ... 3,000

Nominal torque (T_{N2}) up to 26,000,000 lb-in

Transmission ratio (i_N) according to Customer's requirements

Size Torque [lb in]

Size	Torque [lb in]
EP 001	14,000
EP 002	20,000
EP 003	27,800
EP 004	39,800
EP 006	55,700
EP 009	79,600
EP 012	110,600
EP 015	132,700
EP 018	159,300
EP 021	187,600
EP 030	278,700
EP 042	398,000
EP 060	557,500
EP 085	796,500
EP 125	1,106,000
EP 180	1,593,000
EP 250	2,345,000
EP 355	3,319,000
EP 500	4,690,000
EP 710	7,080,000
EP 1,060	9,381,000
EP 1,500	13,275,000
EP 2,120	18,762,000
EP 3,000	26,550,000

Servo gear reducers

SR Series



Worm servo gear reducers

MR type
7 sizes 32 ... 81
Nominal Torque up to 5,186 lb in
Accelerating torque up to 6,300 lb in
Transmission ratio (i_N) 7 ... 239

R type
9 sizes 40 ... 126
Nominal Torque up to 16,500 lb in
Accelerating torque up to 20,000 lb in
Transmission ratio (i_N) 7 ... 125

Size	Torque [lb in]
SR 32	375
SR 40	710
SR 50	1,320
SR 63	2,240
SR 64	2,650
SR 80	4,250
SR 81	5,300
SR 100	10,600
SR 125	14,000
SR 126	17,000



Helical & bevel helical servo gear reducers

MR type
8 sizes 40 ... 125
Nominal Torque up to 22,400 lb in
Accelerating torque up to 28,000 lb in
Transmission ratio (i_N) 6.16 ... 139

R type
8 sizes 50 ... 140
Nominal Torque up to 30,000 lb in
Accelerating torque up to 40,000 lb in
Transmission ratio (i_N) 6.42 ... 127

Size	Torque [lb in]
SR 40	630
SR 50	1,400
SR 63	2,800
SR 64	3,350
SR 80	5,600
SR 81	6,700
SR 100	12,500
SR 125	22,400
SR 140	30,000



Helical inline servo gear reducers

MR type
11 sizes 32 ... 101
Nominal Torque up to 13,300 lb in
Accelerating torque up to 18,000 lb in
Transmission ratio (i_N) 4 ... 154

Size	Torque [lb in]
SR 32	250
SR 40	600
SR 41	710
SR 50	1,250
SR 51	1,600
SR 63	2,650
SR 64	3,150
SR 80	5,300
SR 81	6,700
SR 100	10,000
SR 101	13,200

MR type features

- Wide range of Servo gearboxes, designed to fit almost all servo motors found on the market
- Designed for the highest torsional stiffness and the lowest angular backlash, for the maximum torque and overhung loads
- Bush with slots and hub clamp for servomotor coupling

MR type benefits

- Enhanced dimensional compactness due to direct servomotor coupling
- The correct technical solution thanks to a comprehensive range of sizes, gear stages, transmission ratios, designs, and non-standard designs
- Widest range of possible servomotor coupling dimensions

L - P Series

Right angle shaft and Shaft mounted gear reducers



7 sizes 80 ... 320

Nominal torque (T_{N2}) up to 50,000 lb in

Transmission ratio (i_N) 1 ... 6.25

L Series

Right angle shaft gear reducers

Features

- Right angle units with multiple options of executions
- Compact size
- Rigid and durable housing of cast iron
- Several output solutions, with solid or hollow shaft

Benefits

- Low ratios available
- Capability for multiple drives synchronization
- Easy adjustment to specific applications
- High performance and reliability



7 sizes 80 ... 250

Nominal torque (T_{N2}) up to 100,000 lb in

Transmission ratio (i_N) 10 ... 25

P Series

Shaft mounted gear reducers

Features

- Split housing reducers
- Simplified design, with narrow housing execution

Benefits

- Very easy maintenance, with minimal requirements
- Easy and functional shaft mounting
- Durable solution dedicated for conveyors

MOTORS

Electric motors

TX - S Series



TX Series

Premium line electric asynchronous three-phase motors and brake motors

Features

- IEC standard motors
- IP 55, IP 65 and protection
- IE3 and IE4 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



S Series

Heavy duty roller table motors

Features

- IEC asynchronous three-phase 4 and 6 poles motors with cage rotor, totally enclosed, without fan
- Motor cooling by natural convection over a large radiating surface area and obtained by ring fins

Benefits

- Specifically designed for heavy industry, in particular roller tables and conveyor roller tables

TX Series

Sizes 63 ... 315

Power (P_N) 0.12 ... 147 hp

Polarity 2, 4, 6 poles

S Series

Sizes 112 ... 250

Power (P_N) 37.5 ... 56,4 hp

Polarity 4, 6 poles

- Asynchronous three-phase motors
- Asynchronous three-phase brake motors (sizes from 225 to 315 available on request)
- Asynchronous three-phase heavy duty roller table motors

Size	P _N [hp]
63	0.24
71	0.74
80	1.5
90	2.9
100	4
112	7.4
132	14.75
160	20
180	29.5
200	40.23
225	60.35
250	73.8
280	120.7
315	147.5



dDrive Inverter Series Decentralized Drive

dDrive Inverter Series

Sizes A, B, C

Rec. motor rating 0.75 ... 10 hp

Supply Voltage 3x200V AC...480V AC

280V DC...680V DC

Rated current 1.7A...16.5A

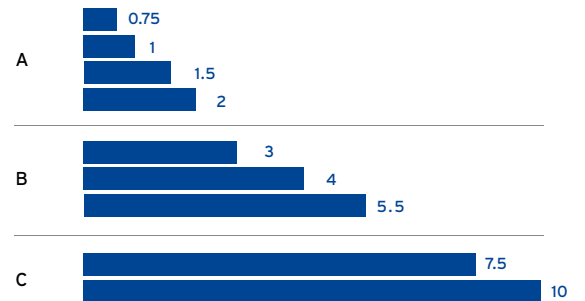
Features

- 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
- Internal PLC
- A large number of field buses available
- Bluetooth Interface

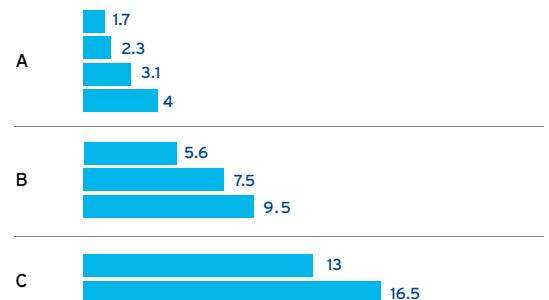
Benefits

- 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)
- Customizable to fit all different application features
- To develop your own dedicated control functions
- Ease integration with existing automation controllers
- Fast and smart inverter parametrization access

Size Rated Powers [hp]



Size Rated Current (A) (@ 4 kHz)



Customized solutions

Ask us whatever you need



Ship unloader drive

- Flexibility
- Reliability
- Special design
- Heavy duty

Modularity can be considered the foundation of the Rossi product line. Modular products and processes allow us to engineer a solution for most industrial applications requiring a gearmotor or gear reducer. To us, modularity means flexibility, wide range of options, faster delivery, and most important of all, competitiveness. Even more it allows to assemble in any assembly facility with almost limitless configurations allowing us to deliver solutions, regardless if it comes to supply a standard unit or an engineered one, in a cost effective manner.

This capability is made possible through our ability to understand the customer's requirements and translate the needs of that customer into a commercially and technically acceptable solution.

Of course our modular approach doesn't stop at the delivery of a product or solution. For us this is just the start, with strong online support systems our customers have access to leading interactive product and service care.

Test room drive

Features

- Project management
- Accurate selection and sizing of the components
- Precise certified alignment of the complete drive

Benefits

- Heavy customized and innovative solution to match customer requirements
- Feasibility study to find optimal solution
- Turn key drive units design
- Easy and quick installation on site

Power, nominal torque and transmission ratio according to Customer's requirements.



Our project management

Once the order is assigned, a dedicated team with skilled technicians will provide application support offering assistance and innovative solutions during the design phase.

Customer order management

We ensure that all processes within the IT platform are designed with rapid transfer of data needed for internal processes as well as for the management

of the order by the customers themselves. We have chosen to operate with Oracle's JD Edwards EnterpriseOne. This facilitates order management on one platform for both the customer and our staff anywhere in the world. Through a standard operating platform we are able to configure customers unique forecasting, shipping standards, transportation sequence and reporting processes in coordination with commercial contracts and associated quality control documentation - all integrated to one ERP system.

Total quality

Quality is about our commitment to continuously moving our company and our customers forward.

For Rossi, quality means professionalism and a proactive attitude in taking care of each individual customer. Rossi has been a pioneer in the gear industry in adopting the ISO 9001 standards, proud of its technology which has obtained major industry acknowledgments over the years. Our products comply with the main industry regulations (AGMA, GL, CTI, etc.).

Our research and development activities are stimulated by the desire to develop ever more complex electromechanical drive systems for our customers. We are committed to developing processes and products able to meet the growing demands of the modern digital age. Small incremental improvements in elements such as gear quality, housing rigidity and sealing arrangements can have a significant impact on the Total Life Cycle of the product.



Product certifications



EAC

CE

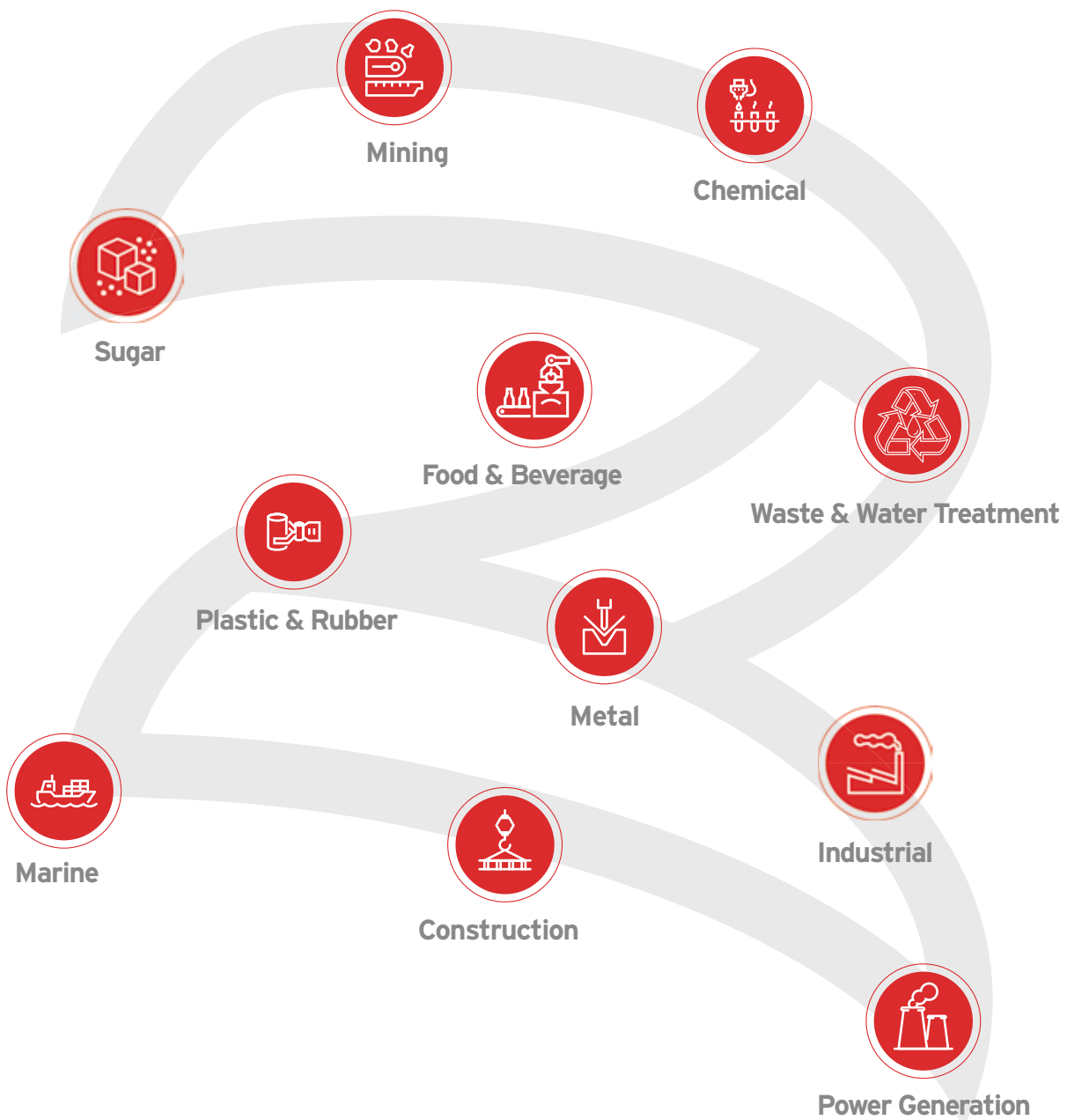
RoHS

BUREAU VERITAS
Marine & Offshore

DNV



We have a solution for every segment





**We deliver
reliable
solutions
worldwide**



Global presence local service



Local support
Sales, customer service,
technical support, spare parts



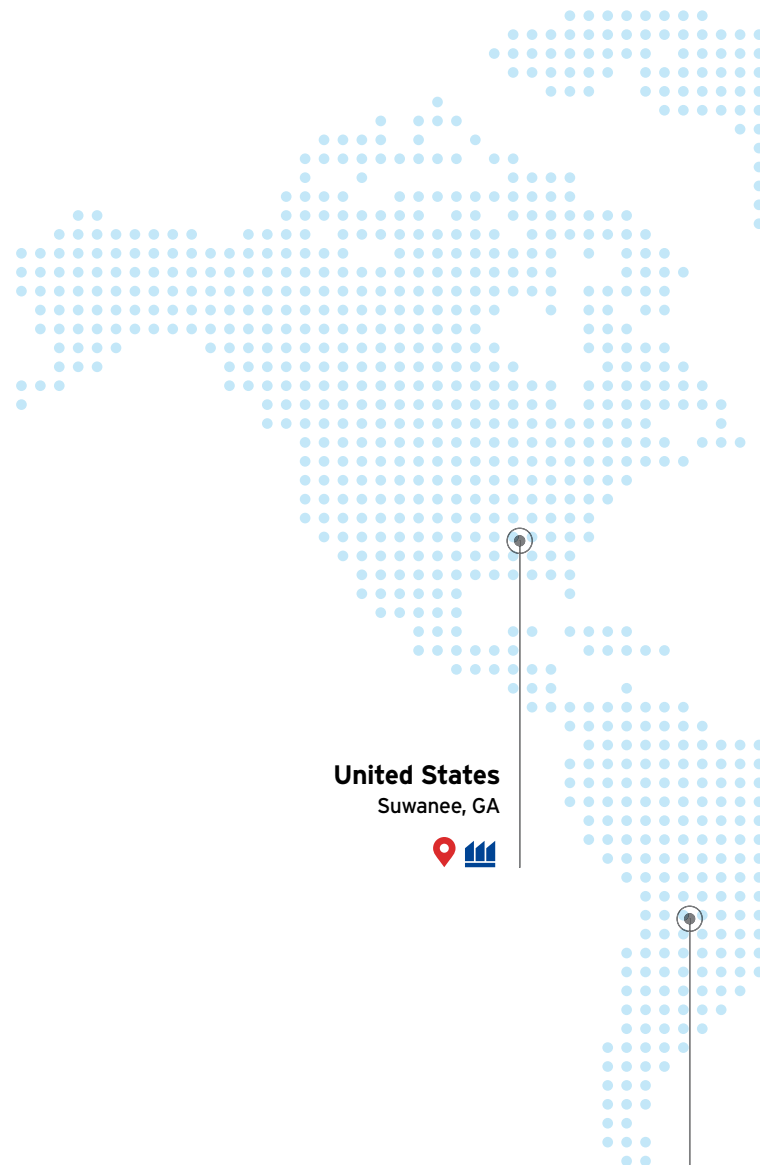
15 branches*



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.



United States
Suwanee, GA




Brazil


Cordeiropolis, SP

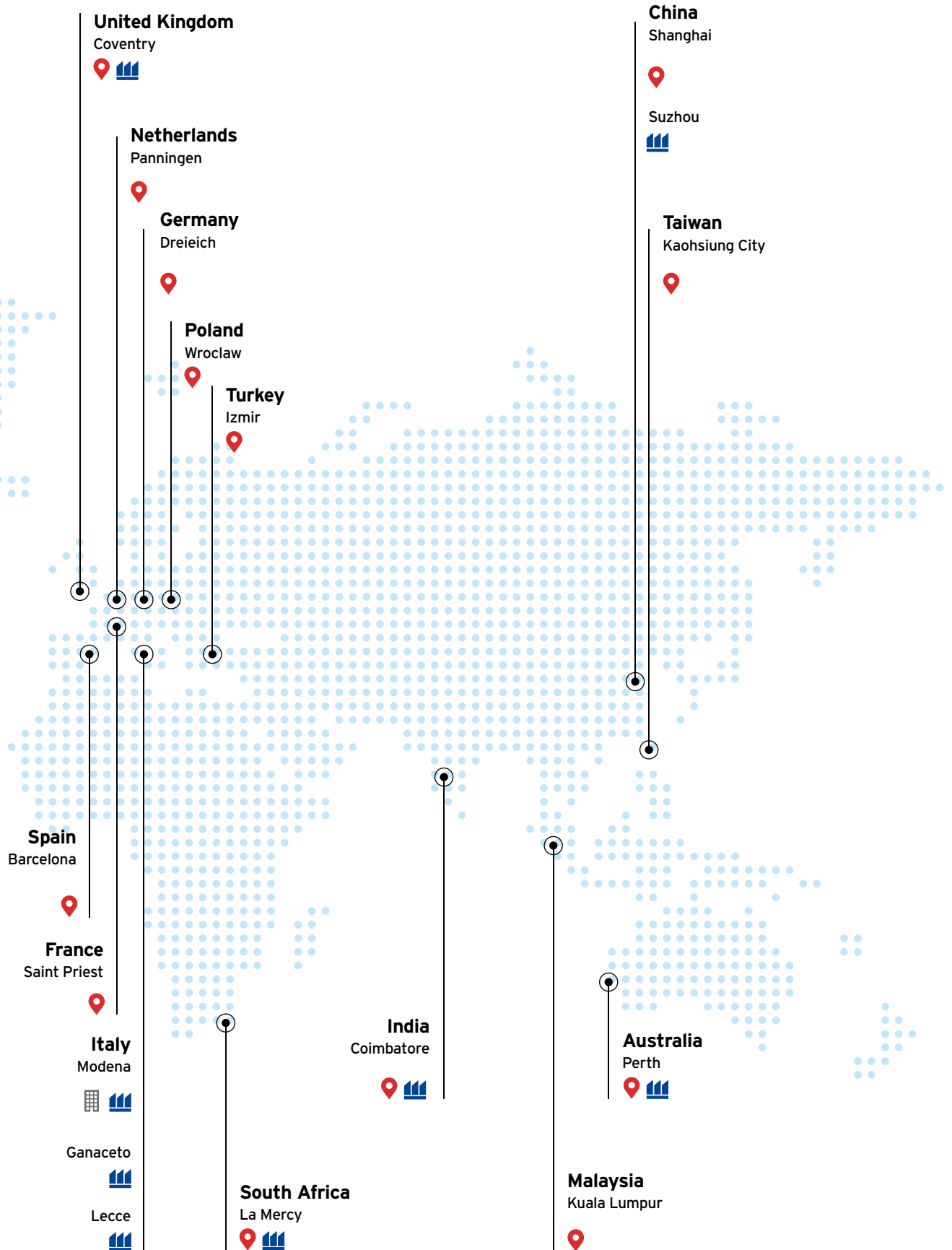


*All contacts available on www.rossi.com

 Headquarters

 Branches

 Production facilities/Assembly plants



Key figures



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.

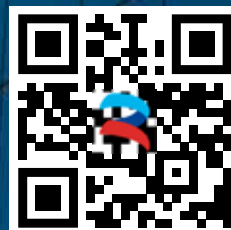
Quality

3 years warranty*

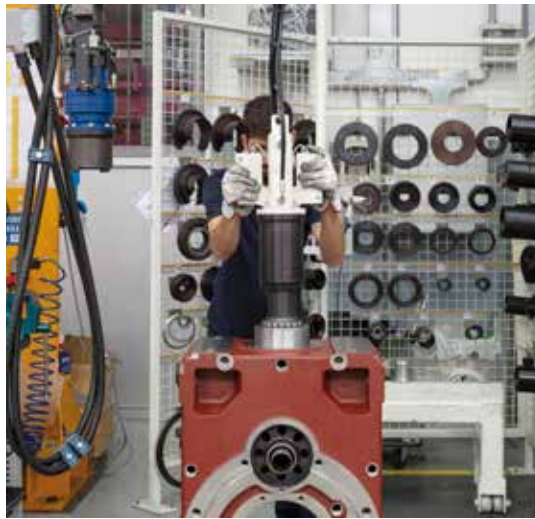


Our drive is to innovate and boost operations by manufacturing performing, precise, reliable and high-quality products all over the world. We are always one step forward in offering and developing solutions that can satisfy an unlimited number of application needs, even in the most demanding conditions.

* As per our warranty terms.



Visit us at
rossi.com



Solutions for
an evolving
industry

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