





A TIMELINE OF OUR HISTORY

1953 1965 1970 1980 1986 1992-97 2002





Rossi	
	2 Rossi
	200ss

New subsidiary in India Habasit Holding AG, a company based in Reinach (BL), Switzerland, acquires 51% of Rossi capital New subsidiaries in China and USA 2003-05	Development of a new line of industrial use planetary gear units Development of a new line of electric motors Expansion of the production facility at Ganaceto (Modena), with introduction of new technologies	Doubling of the production facility in Lecce, with introduction of new technologies Habasit Holding AG acquires the remaining portion of Rossi capital Merger of SMEI and SEIMEC into Rossi by takeover	New subsidiaries in Benelux, Poland, Turkey, South Africa, Malaysia and Taiwan Brand is changed from Rossi Motoriduttori to Rossi 2010-12	USA opens new Headquarters Development of new, extralarge helical and planetary gear reducers and an increase in performance	New subsidiary in Brazil Start-up of a new center for manufacturing housings in extra-large sizes, complete with measurement system 2015	Further extension of our extra large helical / bevel helical and planetary gear reducers
---	--	---	---	---	--	--

A series Worm 14 sizes 355 ... 71,000 lbf in



AS series STANDARDFIT Worm

6 sizes 315 ... 6 000 lbf in



E series

Coaxial 16 sizes 335 ... 90,000 lbf in



ES series

STANDARDFIT Coaxial 8 sizes 500 ... 8000 lbf in



SR series

Worm 10 sizes 375 ... 17,000 lbf in



SR series

Coaxial 11 sizes 250 ... 13,200 lbf in



SR series

Helical and bevel helical 9 sizes 630 ... 30,000 lbf in



G series

Helical and bevel helical 20 sizes 750 ... 900,000 lbf in



GX series extruder

Helical and bevel helical 16 sizes 12,500 ... 1,180,000 lbf in



H series

Helical and bevel helical 12 sizes 950,000 ... 8,850,000 lbf in



EP series

Planetary 24 sizes 14,000 ... 26,500,000 lbf in

EXTENSIVE RANGE OF GEA 742 6 000 118 0315 225 335 101 13 200 83 100 0 12 500

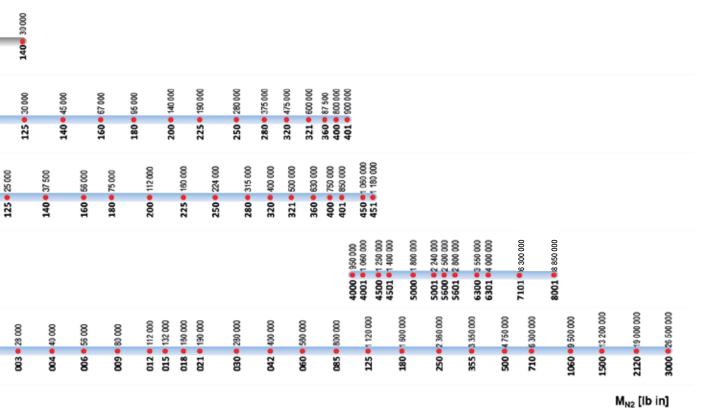




AR REDUCERS AND GEARMOTORS

26 500	000 04	71000
161	200	250

31 500	45 000	83 000	000 06
126	140	160	180



25 000 27 000 28 000 40 000 40 000 50 000 60 000







	FEATURES	BENEFITS
Service Service	Modular design	Reliability, different mounting positions, shorter delivery times, availability on stock, tailor made products from a modular design
	High gear efficiencies	Low energy consumption and better thermal rating
	Optimized gear tooth profile	Low noise and increased torque
	Design with FEA	Housing rigidity
	Single piece housing from 750 to 900,000 lbf in	Greater stiffness, high precision, higher torque rating, low noise
	Axial cooling fan	Lower surface temperature and improved oil life
	Contactless seals option	Unlimited seal life, reduced maintenance, lower oil level and better efficiency
	World leading brand roller bearings	Improved L10 service life, higher dynamic and static load capability
	Leak-free "Taconite" sealing option	Long-lasting life in abrasive environment
	Backstop device special design	More robust and reliable solution Easy to replace
	Hollow shaft options (single keyway, shrink disk, etc.)	More compact and cost effective solution
	Improved lubrication system	Lower surface temperatures, improved bearing life
	3 year warranty worldwide	High quality and performance
	All units tested to Rossi specifications on test bench	Aiming for zero non-conformances improving reliability standards
	Compact design	Higher power to weight ratio

WORM GEAR REDUCERS AND GEARMOTORS



Worm gear reducers and gearmotors

A SCITCS		
Size		14 sizes (32 250)
Nominal torque	T_{N2}	up to 70,000 lbf in
Transmission ratio	i_N	7 16,000

Features

- Universal mounting
- Forced ventilation for an easy thermal power dissipation
- Wide range of accessories and non-standard designs
- Worm wheels of A gear reducers and gearmotors made of nickel bronze with controlled phosphor content, in order to achieve improved performance, a higher load capacity, greater reliability and more wear resistance
- Higher worm efficiency

Benefits

- Easy and functional shaft mounting
- High performance and reliability
- Long life
- Noiselessness, constant performance also for the heaviest applications
- Lower power consumption



Worm gearmotors STANDARDFIT AS series

Size		6 sizes (118 742)
Nominal torque	T_{N2}	up to 6000 lbf in
Transmission ratio	i_N	6 75

Features

- Universal mounting with lower feet integral with housing, and B14 flange on 2 faces
- Improved modular construction both for components and assembled products
- Nickel bronze worm wheels
- Generous internal space between train of gears and housing
- Tapered roller bearings on worm shaft
- Flange for motor mounting integral with housing
- Higher worm efficiency

- Interchangeability with major competitors without changing the machine
- High performance and reliability
- Long life
- Excellent low noise running
- Lower power consumption

COAXIAL GEAR REDUCERS AND GEARMOTORS





Coaxial gear reducers and gearmotors E series		
Size		16 sizes (32 180)
Nominal torque	T_{N2}	up to 90,000 lbf in
Transmission ratio	i_N	4 6,300

Features

- Strong patented housing
- Wide range of sizes
- Final stage pinion with 3 bearings for increased torque capacity

Benefits

- Long life
- Minimum maintenance requirements
- High performance and reliability
- Universal mounting
- Strength and suitability also for the heaviest applications



Coaxial gearmotors STANDARDFIT ES series			
Size 8 sizes (0 7)			
Nominal torque	T_{N2}	up to 8000 lbf in	
Transmission ratio	i_N	4 200	

Features

- Foot mounting integral with housing
- Proportioned bearings to withstand high loads

- Dimensional interchangeability with other manufacturers for flexible replacement options
- Maximum compactness
- High performance
- Excellent low noise running for any critical environment

HELICAL AND BEVEL HELICAL GEAR REDUCERS AND GEARMOTORS



Helical and bevel helical gear reducers and gearmotors G series		
Size 20 sizes (40 401)		
Nominal torque	T_{N2}	up to 900,000 lbf in
Transmission ratio	i_{N}	2 160

Features

- Wide range of accessories and non-standard designs
- Single piece housing with high structural stiffness

Benefits

- Easy and functional shaft-mounting design
- Minimum maintenance requirements
- High, reliable and tested performance
- Suitability for the heaviest duties



Helical and bevel helical gear reducers for extruders GX series		
Size 16 sizes (100 451)		
Nominal torque	T_{N2}	up to 1,180,000 lbf in
Transmission ratio	i_N	6.3 28

Features

- Extruder support conceived for heavy applications
- Option of long models

Renefits

- Excellent gear reducer transmitted torque to weight ratio

PRODUCT RANGE





Helical and bevel helical gear reducers H series			
Size		10 sizes (4000 8001)	
Nominal torque	T_{N2}	up to 8,850,000 lbf in	
Transmission ratio i_N 8 315			

Features

- Large size gear reducers produced in series specifically conceived for heavy industry applications
- New options
- Flexible mounting arrangements typical mountings include horizontal vertical, inclined and oscillating mounting positions
- Nodular cast iron housings for all sizes

- Highest reliability in heaviest application conditions
- Long life
- Split housing for simplified maintenance



Planetary gear reducers and gearmotors EP series			
Size		20 sizes (001710)	
Nominal torque	T_{N2}	up to 6,300,000 lbf in	
Transmission ratio	$i_{\rm N}$	3.55 3,550 (in line) 9 2,240 (bevel)	

Features

- 2, 3 or 4 reduction stages for both coaxial and right angle shaft
- Wide range of accessories and non-standard designs
- Modular design, with multi-optional executions
- Very compact size and reduced mass of gearbox

Renefits

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



Slewing drives EP series		
Size		10 sizes (007 250)
Nominal torque	\mathcal{T}_{N2}	up to 2,800,000 lbf in
Transmission ratio	i_{N}	12.5 2,800

Features

- Slew drive gear reducers, ranging from 9 kNm to 400 kNm maximum output torque over 10 primary sizes and 3 output reinforced support configurations:
 - R: dual pilot flanged
 - S: dual pilot compact
 - H: single pilot front flanged
- Modular design, with multi-optional executions

- 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





Combined units EP series		
Size		6 sizes (125710)
Nominal torque	T_{N2}	1,120,000 6,300,000 lbf in
Transmission ratio	i_{N}	according to Customer's requirements

Features

- Standard products
- Catalog G + EP

Benefits

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



Parking brakes EP

Size 3 sizes (PB10, PB30, PB90)

Features

- Direct coupling with standard U flanges
- On the same housing, extensive range of braking torques
- Ideal for outdoor and sparking-free operations

- Modular system
- Extensive brake range

MOTION CONTROL



Worm servo gear reducers SR series		MR	R
Size		7 sizes (32 81)	9 sizes (40 126)
Accelerating torque	T_{A2}	280 6300 lbf in	500 20,000 lbf in
Transmission ratio	i	7 239	7 125







Helical and bevel helical servo gea SR series	r reducers	MR	R
Size		8 sizes (40 125)	8 sizes (50 140)
Accelerating torque	T_{A2}	560 28,000 lbf in	1250 40,000 lbf in
Transmission ratio	i	6.16 139	6.42 127

Type MR

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

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

PRODUCT RANGE





Coaxial servo gear reducers SR series		MR	R	
Size		11 sizes (32 101)	_	
Accelerating torque	T_{A2}	280 18,000 lbf in	_	
Transmission ratio	i	4 154	_	

MOTORS



Premium line electric asynchronous three-phase motors and brake motors TX series			
Size		63 280	
Power	P_{N}	0.12 150 hp	
Polarity 2, 4, 6, 8 poles			

Features

- IEC standard motors
- IP 55 protection
- IE3 Energy efficiency
- Standard and safety brake (AC. DC)
- Optional complex executions available (encoders, axial cooling, increased protection, etc.)

- Compactness and flexibility
- Suitable for running with inverter
- Reduced environmental impact and energy saving

DRIVE UNITS ON SWING BASE





Drive units on swing base RE series		
Gear reducer size		140 8001
Nominal torque	T_{N2}	up to 8,850,000 lbf in

Features

- Accurate design and selection of equipment
- Unique reference for commercial and technical issues
- Precise certified alignment of the complete drive
- Global well known and qualified brands of equipment suppliers

Benefits

- Turn key drive units
- Easy and quick installation on site
- Precise and qualified design for baseplates

ROSSI SPECIAL PROJECTS



Rossi Special Projects		
Power	$P_{\rm N}$	according to Customer's requirements
Nominal torque	T_{N2}	according to Customer's requirements
Transmission ratio	i	according to Customer's requirements

Features

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

- 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

HEAVY INDUSTRY



Planetary gear reducers and gearmotors EP series			
Size		4 sizes (10603000)	
Nominal torque	$T_{\sf N2}$	from 9,500,000 to 26,500,000 lbf in	
Transmission ratio	i _N	80 1,000	

Features

- Multi-stage modular design
- Easy customization
- Modular add-on accessories
- Ground gears (bevel and planet wheels)

- Easy to fit in any industrial application
- Reduced maintenance intervals
- Easy maintenance
- -Worldwide product and service support

PRODUCT RANGE





Helical and bevel helical gear reducers H series			
Size		2 sizes (7101, 8001)	
Nominal torque	T_{N2}	up to 8,850,000 lbf in	
Transmission ratio	$i_{_{ m N}}$	according to Customer's requirements	

Features

- Helical and bevel-helical gear units with 2 and 3 gear stages
- Ratios to R20 series
- Split housing; nodular cast iron frame
- Helical and bevel gear with ground and optimized 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

OTHER PRODUCTS



Right angle shaft gear reducers L series

2 001100			
Size		7 sizes (80 320)	
Nominal torque	T_{N2}	up to 50,000 lbf in	
Transmission ratio	i_{N}	1 6.25	

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 performace and reliability



Shaft mounted gear reducers P series

1 361163			
Size		7 sizes (85 250)	
Nominal torque	T_{N2}	up to 100,000 lbf in	
Transmission ratio	$i_{\rm N}$	10 25	

Features

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

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

INDUSTRIAL SEGMENTS



OUR MAIN INDUSTRIAL SEGMENTS

With over 60 years experience in the design, manufacturing and commissioning of gear reducers and gearmotors, Rossi has become a power transmission leader in all industrial segments.

Rossi has forged many strategic partnerships with leading companies and OEM in various sectors throughout the world.

Relationships forged from Rossi's know-how and expertise, offering turnkey solutions for nearly every application.

Rossi smart solutions, thanks to product designed around modularity, robustness and reliability, help customers to minimize Total Cost of Ownership of plants, reducing maintenance costs and enhancing energy saving.

Steel making

Mining

Food and beverage

Cranes and hoisting machinery

Construction machinery

Water and waste treatment

Chemical, oil and gas

Rubber and plastics

Energy (thermal and renewable)

Motion engineering (bulk and packaged products)

Marine, offshore and harbor sectors

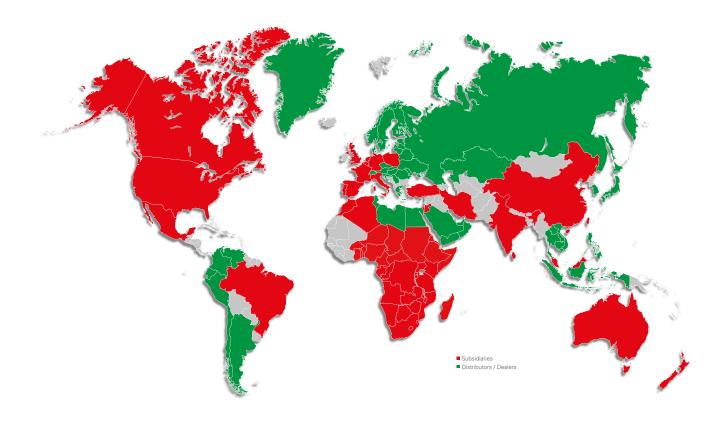
Wood and paper

Packaging









GLOBAL PARTNERSHIP FOR LOCAL SOLUTIONS

As a result of the rapidly growing importance of the global market for power transmission systems, Rossi has set up a network of subsidiaries and dealers in nearly all industrialized countries. Support during the design phase, local availability of the required drive technology and rapid local service make Rossi a flexible and dependable partner throughout the world.

Cooperation with Rossi is especially customer-friendly and efficient with **Rossiforyou** - a communication network which provides a 24/7 global coordination of the ordering, supply and service processes.







GLOBAL SERVICE

We don't stop with the sale of our product, we provide our customers with service and back-up.

Through our subsidiaries' inventories and assembly centers worldwide we make sure that we are not only able to supply gearboxes but that we can also back them up, if need be, with the spare parts required. Our Global Service has the possibility to reach our customer's plants quickly, in case of breakdown. Our main goal is to return our customers' plants to operation as soon as possible and to keep maintenance overheads as low as possible.

Rossi s.p.A. Headquarters Via Emilia Ovest 915/A 41123 Modena - Italy Phone +39 059 33 02 88 e-mail: info@rossi.com www.rossi.com Rossi North America 3355 Martin Farm Rd. US - Suwanee, GA 30024 phone +1 800 931 2044 e-mail: info.northamerica@rossi.com www.rossi.com/northamerica

