

## Heavy Industry

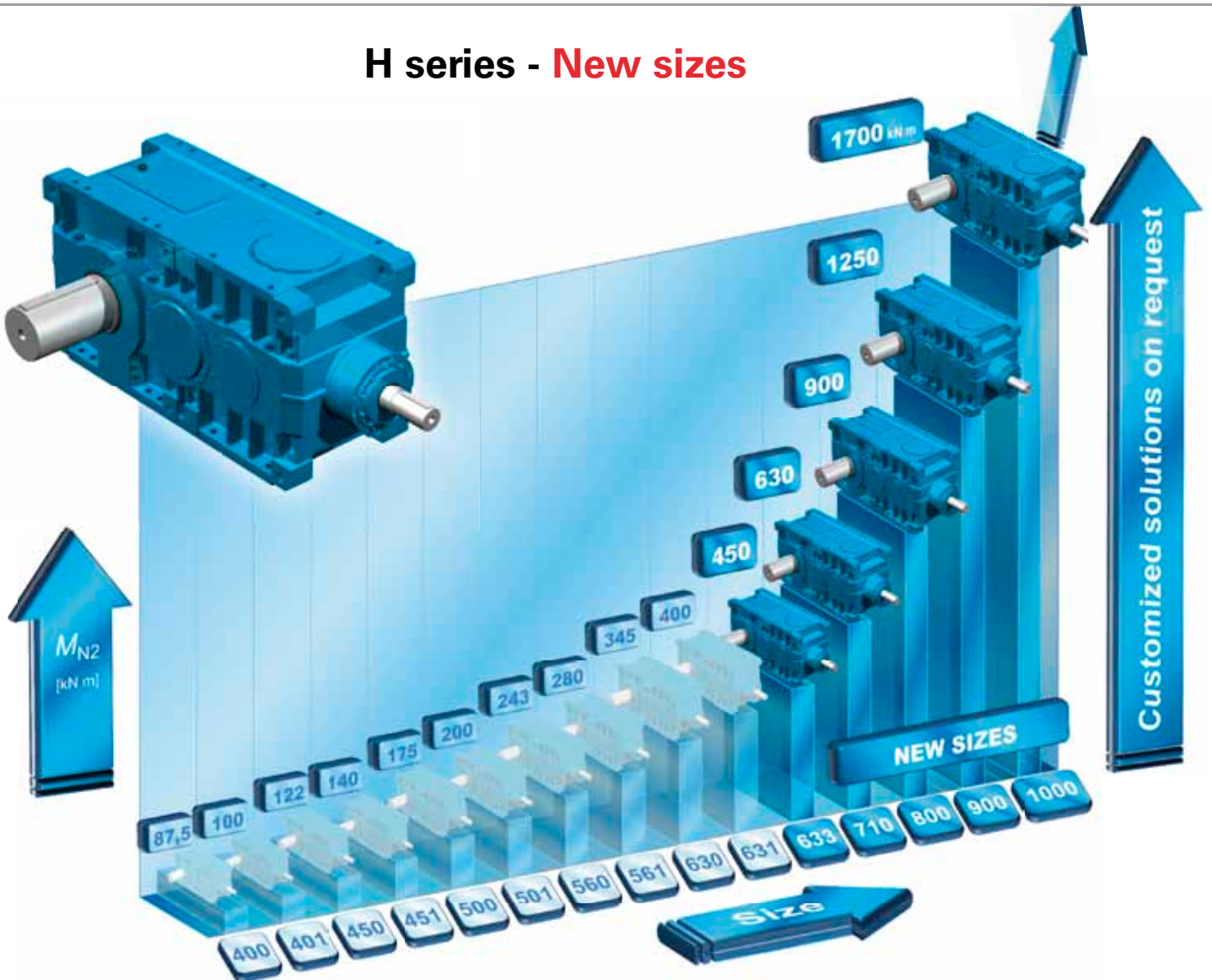
**EP** new planetary gear units

**H** new helical and bevel-helical gear units

Edition March 2013



## H series - New sizes



Size *		400	401	450	451	500	501	560	561	630	631	633	710	800	900	1 000
$M_{N2max}$	kN m	87,5	100	122	140	175	200	243	280	345	400	450	630	900	1 250	1 700
Range of nominal ratios	2 stages	8...18	8...18	8...20	9...20	8...14	9...14	8...14	9...14	-	-	-	-	-	-	-
	3 stages	20...100	20...100	22,4...125	22,4...125	22,4...125	22,4...125	25...125	25...125	28...100	28...100	14...71	14...71	14...71	14...71	14...63
	4 stages	125...315	125...315	125...315	125...315	125...315	125...315	125...315	125...315	125...315	125...315	-	-	-	-	-
∅ Output Shaft	mm	190	200	210	220	240	250	270	280	300	320	340	360	400	440	460
Length	mm	1 630	1 630	1 680	1 680	2 040	2 040	2 100	2 100	2 315	2 315	2 590	2 915	3 285	3 695	4 100
Shaft height	mm	450	450	450	450	560	560	560	560	630	630	630	710	800	900	1000
Width	mm	580	580	580	580	725	725	725	725	795	795	925	1 040	1 190	1 340	1 490
Mass ≈	kg	2 470	2 470	2 830	2 830	4 650	4 650	5 300	5 300	7 260	7 260	9 000	14 000	20 000	28 000	40 000

\* Values relevant to bevel-helical gear units

### Technical features

- New sizes 633 ... 1 000
- Helical and bevel-helical gear units with 2 and 3 gear stages
- Ratios to R20 series
- Split housing; nodular cast iron frame (sizes ≤ 710)
- Helical and bevel gear with ground and optimized profile

### Solution range

- Solid output shaft
- Hollow output shaft with key
- Hollow output shaft with shrink discs
- Backstop device
- Swing base
- Pony drives

### Benefits

- One of the widest torque range from a single supplier
- Customized solutions on request starting from a standard modular design
- Reduced delivery times
- Optimized design for belt conveyor applications

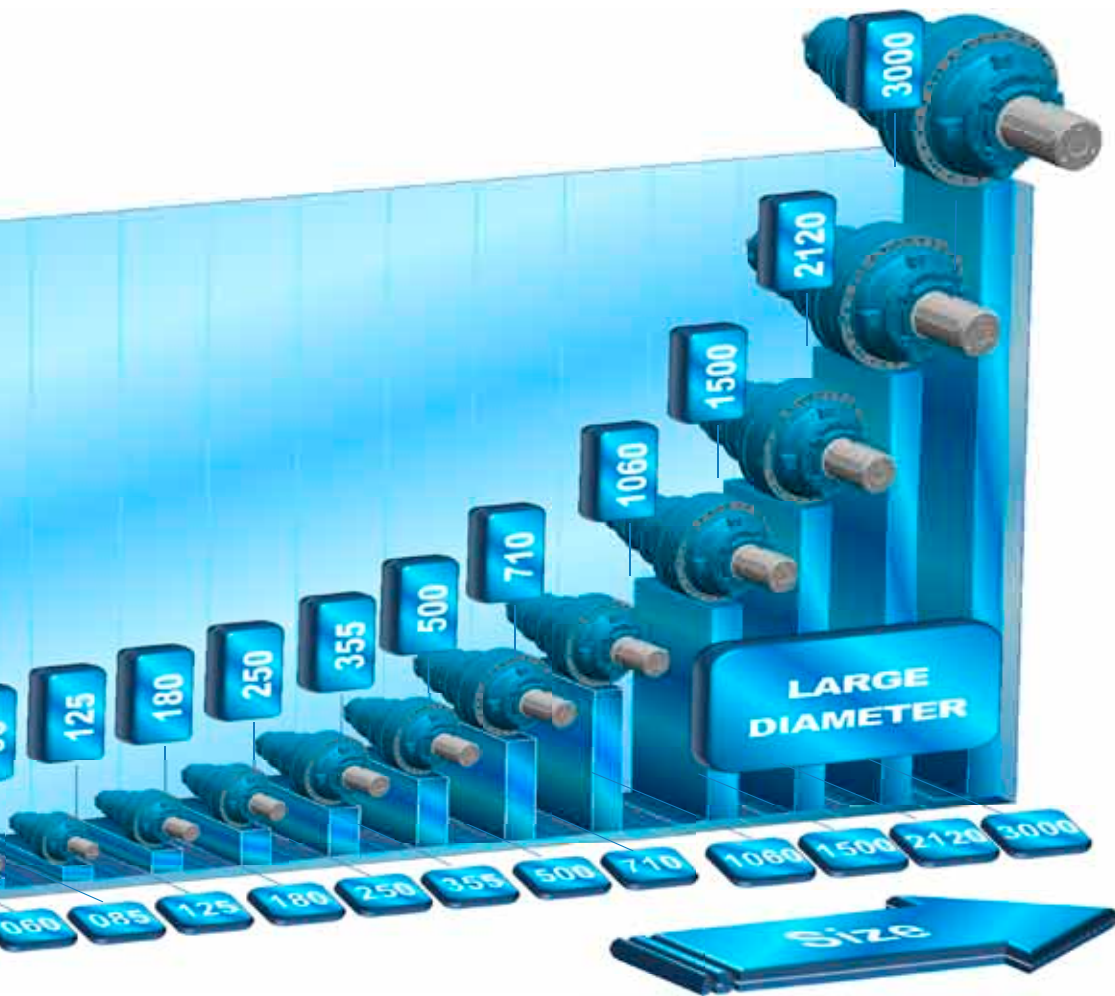
# New solutions for heavy industry applications

## EP series - **New sizes**



Size		001	002	003	004	006	009	012	015	018	021	030	042	060	
$M_{N2max}$	kN m	1,6	2,24	3,15	4,5	6,3	9	12,5	15	18	21	31,5	45	63	
Range of nominal ratios	Coaxial	12,5 ... 3 000										12,5 ... 2 500	14 ... 2 240	14 ... 1 800	14 ... 2 000
	Bevel gear	9 ... 2 500					9 ... 2 120					12,5 ... 1 800	10 ... 1 400	10 ... 1 400	10 ... 1 600
∅ Output Shaft	mm	42	50	55	60	70	80	90	90	100	100	110	120	140	
∅ External diameter	mm	190	190	236	236	236	282	282	282	330	330	347	405	440	
Length*	mm	435	440	476	529	544	643	633	703	739	739	803	848	916	
Mass* ≈	kg	33	34	47	51	58	90	101	105	144	147	178	240	310	

\* Values relevant to 4 stages coaxial gear reducer



085	125	180	250	355	500	710	1 060	1 500	2 120	3 000
90	125	180	250	355	500	710	1 060	1 500	2 120	3 000
18 ... 1 800	18 ... 1 800	18 ... 1 400	18 ... 1 250	71 ... 1 400	71 ... 1 250	71 ... 1 000	71 ... 1 000	71 ... 1 000	71 ... 1 000	71 ... 1 000
10 ... 1 250	10 ... 1 250	45 ... 1 120	45 ... 900	45 ... 900	180 ... 900	180 ... 900	Combined gear reducer			
160	180	200	220	250	280	320	400	460	500	600
500	570	630	715	805	885	970	1 200	1 360	1 560	1 760
1 138	1 214	1 364	1 591	1 741	1 981	2 257	2 600	2 950	3 350	3 800
460	620	860	1 220	1 740	2 470	3 260	4 000	5 500	7 000	9 500

### Technical features

- From 1 kN m to 3 000 kN m
- Multi-stage modular design
- Reduced number of components
- Universal Mounting position
- Reduced noise
- Easy customization
- Modular add-on accessories
- Ground gears (bevel and planet wheels)

### Solution range

- Comprehensive planetary and bevel planetary range
- Shaft rotating and case rotating suitable design
- Large options of transmission ratio
- Enhanced bearing life
- Electric and Hydraulic motor adapters

### Benefits

- Extremely dependable and shock absorbing design
- Reduced weights
- Increased operational safety
- Easy to fit in any industrial application
- Reduced maintenance intervals
- Easy maintenance
- Worldwide product and service support

# Rossi benefits

- Complete modular system providing customer tailored solutions starting from standard production
- State-of-the-art quality for maximum reliability offering 3 year warranty
- Tough products, labyrinth seals, oil heaters, cooling fan / coil / independent cooling units, painting cycle, everything studied for the most challenging application or environment
- Final functional tests performed on every product for heavy industry applications
- "One-stop-shop" supplier achieving cost-effective solutions
- Web portal Rossi for You, allowing you to have 24/7 everything concerning Rossi supplies (order tracking, documentation ...) in real time
- Dedicated Segment Managers sharing specific know-how for heavy applications
- Customer oriented worldwide sale and service network



Planetary gear units EP series

Planetary units combined with  
bevel-helical units

Bevel-helical gear units H series



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**About Rossi**

Founded in 1953, Rossi has been developing its business in the most critical applications to become one of the world's leading gearmotor manufacturers.

Rossi's network includes 15 affiliated companies, and over 50 distributors worldwide for a real customer oriented sales service.

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