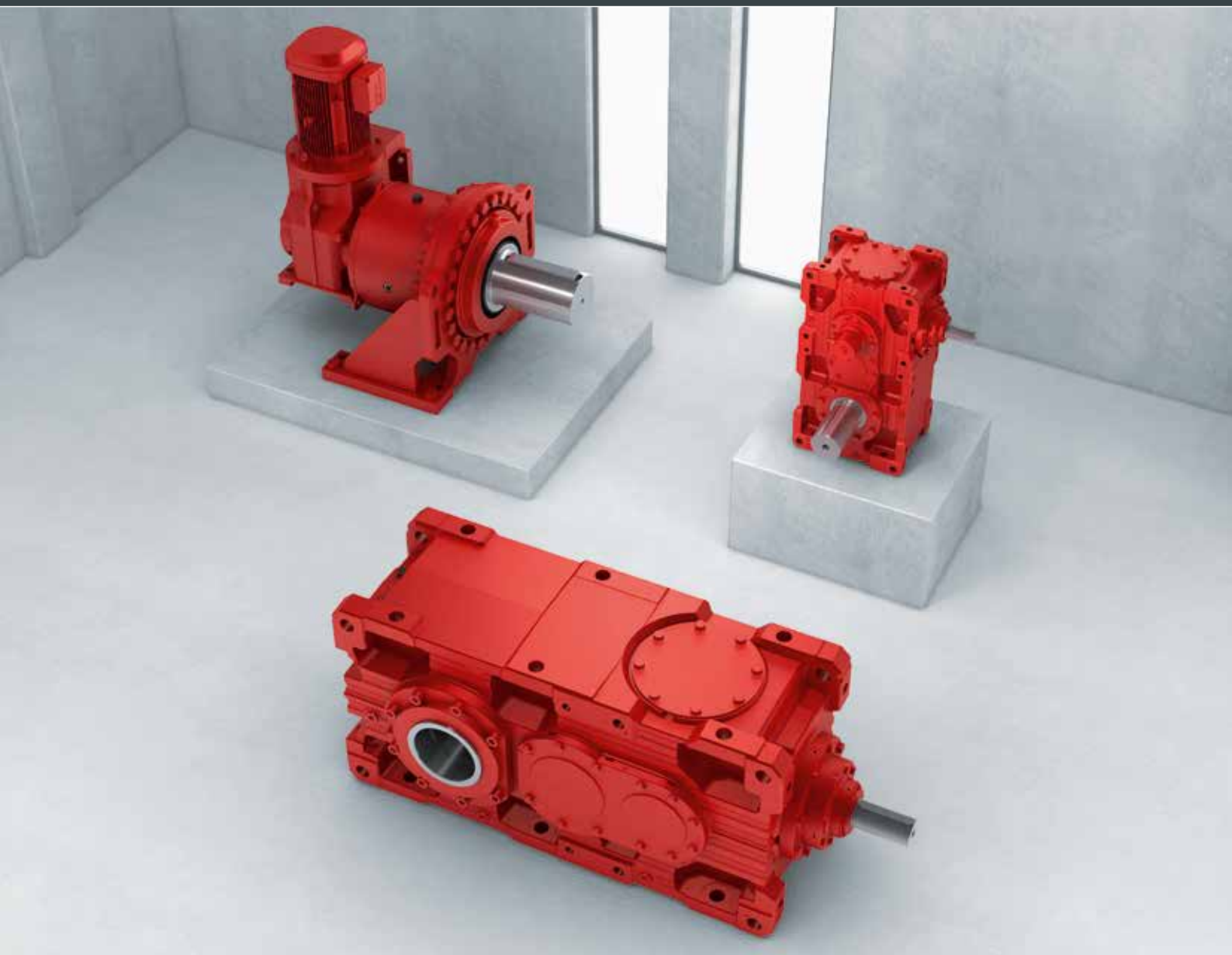


Product Overview

Industrial Gear Units



Versatile and powerful – Industrial gear units from SEW-EURODRIVE

Excellent performance needs a strong partner – SEW-EURODRIVE has been a supplier of drive technology for many decades, and now is among the leading companies for drive technology worldwide.

All services made by SEW-EURODRIVE

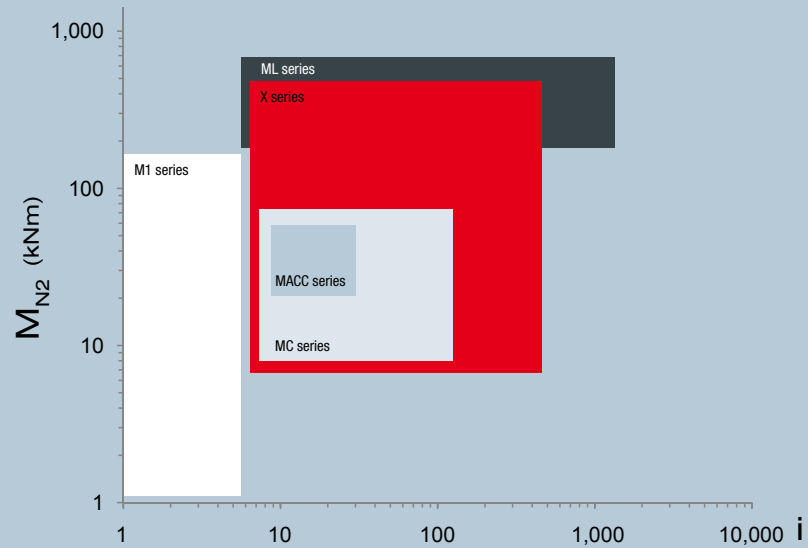
SEW-EURODRIVE offers suitable industrial gear units for applications requiring high torque ratings. The modular concept once again provides optimum adaptation of industrial gear units to meet a wide range of different applications.

SEW-EURODRIVE is your competent partner for all areas, from process planning, through project planning all the way to startup. These services are supported by our renowned, worldwide service for a comprehensive guarantee of reliable completion of all process stages.

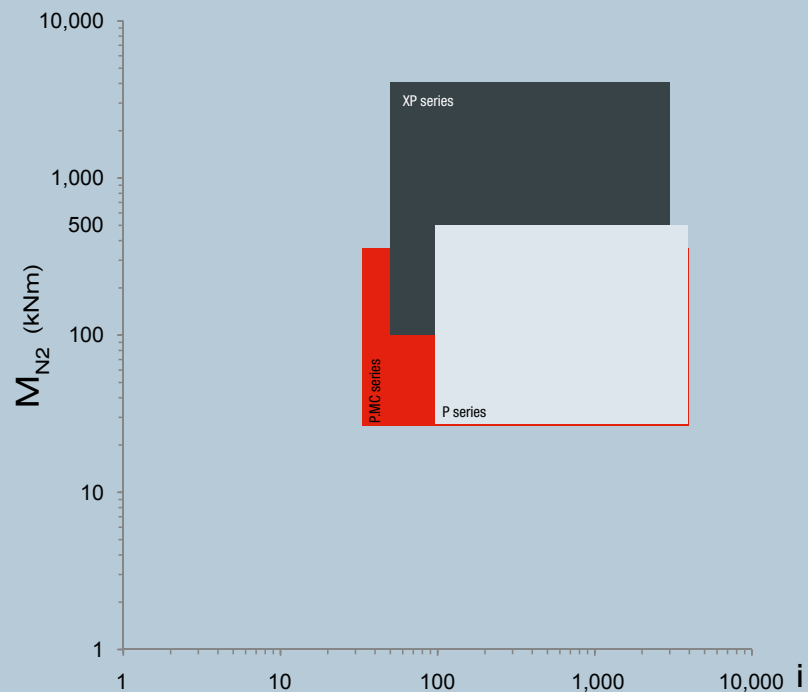


Overview of Products

X/MC/ML/M1/MACC helical and bevel-helical gear units



P/P.MC/XP planetary gear units



The gear units and gearmotors are manufactured and assembled in Germany, Brazil, India, Chile, China, Finland, Australia, South Africa, Singapore, and the United States. Our worldwide service network ensures high product availability.



X series – Heavy-duty

With finely graduated sizes, the X series from SEW-EURODRIVE covers torques ranging from 6.8 to 475 kNm. The large number of predefined accessories offers a high degree of flexibility for adapting to a broad range of application situations – with a minimum of components at maximum availability.

The wide range of gear ratios for helical and bevel-helical gear units from 6 to 400 kNm demonstrates that the X series meets the requirements for a complete and comprehensive gear unit series.

Nearly any mounting position or shaft arrangement can be implemented on the driven machine. The reversible gear unit housing allows for variable installation since CCW and CW design is implemented in a single version, which means

a reduced number of variants for operators and original equipment manufacturers.

Influencing factors, such as operational safety and ease of maintenance were particularly important for the design of the robust housing, low-noise gearing and cooling systems.

Efficient project planning tools, which include the generation of 2D and 3D dimension drawings, as well as predefined drive packages for conveyor drives and bucket elevator drives complete the product range.

And if a specific customer solution should still be missing from our large number of predefined designs, we will of course add this to our range.

X series – The industrial gear unit platform with finely graduated sizes.



The intelligent, comprehensive gear unit concept convinces by finely graduated sizes, variable installation and a great number of modular options, such as motor adapters, backstops, sealing systems, shaft end pumps, mounting flanges, and much more.

X series: the most important facts and figures

Design features

- Independent industrial gear unit platform
- Helical and bevel-helical gear units
- Single-piece and split gear unit housing
- Invertible gear unit housing
- Universal mounting positions
- Distinctive modular technology
- Great number of variants due to predefined accessory equipment and options
- Customization

Advantages

- Extremely robust gear unit housing
- Reduced costs and weight due to high power density and finely graduated sizes
- Effective cooling systems
- CCW and CW versions can be implemented in a single gear unit version
- Flexible mounting capability
- Efficient project planning tools
- Short delivery times for standard versions and spare parts
- Worldwide service

Preferred application areas

- In conveyor systems as used in the building material, extractive, chemical, food and feed industries
- In the environmental industry
- In agitators and mixers
- In the timber and paper industry
- In the steel industry
- For bucket elevators in the handling of bulk material
- For shredders / disintegrators
- As travel drive for cranes
- Calender drives in the plastics industry

X series

Gear ratios and torques

X.F. helical gear units: 2, 3 and 4 stages, gear ratio $i = 6.3$ to 450

X.K. bevel-helical gear units: 2, 3 and 4 stages, gear ratio $i = 6.3$ to 450

X.T. bevel-helical gear units: 3 and 4 stages, gear ratio $i = 12.5$ to 450

Gear unit size	Torque class M_{N2} [kNm]	Gear unit size	Torque class M_{N2} [kNm]
100	6.8	220	112
110	8.5	230	131
120	12.8	240	156
130	16	250	175
140	22	260	205
150	27.5	270	240
160	36	280	270
170	45	290	308
180	58	300	350
190	65	310	425
200	79	320	475
210	90		*

* On request, a project-based solution can be offered for the torque range 475 kNm – 1,200 kNm

X series – Bucket elevator drives

Bucket elevators are conveyor systems that transport large quantities of bulk material vertically upwards. Appropriately high drive powers are required, depending on the capacity of the container and the lifting height. For slow movement of the bucket elevator with the main motor switched off, for instance during maintenance, a directly mounted auxiliary drive is used.

X series bucket elevator drives are standardized application solutions. The mounted auxiliary drive can be supplied in an “empty bucket” or “full bucket” design, so that all drive components are optimally matched to the individual application.



X series bucket elevator drives are based on the proven concept of the basic gear unit.



High availability due to stocked components and the international assembly network of SEW-EURODRIVE.

X series – bucket elevator drives: the most important facts and figures

Design features

- Based on the X series with predefined drive components
- Auxiliary drive with the proven SEW-gearmotor
- Auxiliary drive adapter with overrunning clutch and incremental encoder
- Mounted backstop
- Radial labyrinth seal on input and output shafts

Advantages

- All drive components are perfectly matched
- Safety through speed monitoring
- High availability due to modular concept
- Wide range of accessory equipment available upon request
- Worldwide service

Preferred application areas

- For bucket elevators in the handling of bulk material
- In conveyor systems as used in the building material, extractive and chemical industries

X series – bucket elevator drives

Gear ratios and torques

X3K.B... bevel-helical gear units: 3 stages, gear ratio $i = 28$ to 80

Gear unit size	Torque class M_{N2} [kNm]	Gear unit size	Torque class M_{N2} [kNm]
100	6.8	200	79
110	8.5	210	90
120	12.8	220	112
130	16	230	131
140	22	240	156
150	27.5	250	175
160	36	260	205
170	45	270	240
180	58	280	270
190	65		

MC series – Compact

Thousands of MC series gear units have been successfully used in many applications. The MC series in the industrial gear unit portfolio is designed for the small torque range up to 65 kNm and is characterized by little space requirements and high availability.

The gear units are suitable for horizontal, vertical and upright mounting on the customer's machine. The MC series is particularly suited for medium gear ratios.

The modular concept includes a great variety of optional accessory equipment, such as motor adapters, belt drives, and backstops.

Standardized application solutions are available for bucket elevators, cooling towers, and agitators. Even in process engineering plants, large

axial and radial forces occur at the agitator shaft during agitating processes. SEW-EURODRIVE's "EBD" (Extended Bearing Distance) concept offers stronger bearings within the gear unit itself, which means that in many cases separate bearings are no longer required in the agitator or an oversizing of the gear unit can be avoided.

The concept is supplemented by an optional dry-well seal, which prevents oil leakage at the output shaft and allows a standard mounting flange to be used.



MC series: 8 sizes of particularly compact parallel shaft gear units or right-angle gear units.



The proven series for the small torque range with stable single-piece gear unit housing for nearly any industry and application.

MC series: the most important facts and figures

Design features

- Independent gear unit series
- Helical and bevel-helical gear units
- Modular concept
- Special solutions can be implemented
- Block housing design means gear units do not have a parting line
- Universal mounting positions
- All commercially available connection elements are possible at input and output side
- With the EBD concept, various predefined output bearing types depending on the requirement profile and application, variable flange geometries and “drywell” versions are available

Advantages

- The compact drive ensures high torque transmission capability
- Finely graduated torques
- Modular product concept
- Parts for standard versions are in stock, ensuring short delivery times
- Robust unit due to block housing
- Leakage free due to optional “drywell” version
- Worldwide service

Preferred application areas

- In conveyor systems as used in the building material, extractive, chemical, food and feed industries
- In the environmental industry
- In agitators and mixers
- In the timber and paper industry
- For bucket elevators in the handling of bulk material
- For shredders / disintegrators
- As travel drive for cranes

MC series

Gear ratios and torques

MC.P.. helical gear units: 2 and 3 stages, gear ratio $i = 7.1$ to 112

MC.R.. bevel-helical gear units: 2 and 3 stages, gear ratio $i = 7.1$ to 112

Gear unit size	Torque class M_{N2} [kNm]	Standard output shaft \emptyset [mm]	EBD2 output shaft \emptyset for high radial loads, high axial loads [mm]	EBD1 output shaft \emptyset for moderate radial loads, high axial loads [mm]
02	8	80	95	80
03	12	100	115	95
04	16	105	125	105
05	21	120	135	120
06	27	130	150	125
07	37	140	160	–
08	48	160	170	–
09	65	170	180	–

ML series – Versatile

Customer-specific applications and tailor-made solutions must also be implementable for large machines and systems. The ML series meets the specific requirements in the upper torque range from 180 to 680 kNm and ensures the highest degree of flexibility and variability.

A large variety of modules can be mounted on the input and output end of the ML series gear units. Additional elements can easily be connected on both sides of continuous shafts – cutting costs and without any major effort. It goes without saying that gear units of the ML series

meet all the quality-relevant criteria for which SEW-EURODRIVE has stood for decades and that have made our gear units so successful on the global market.



Gear units of the ML series are available in five sizes from 180 to 680 kNm. This wide variety allows for numerous application options.



The ML series really shows what it's made of with large machines that need to be reliably driven in the upper torque range.

ML series: the most important facts and figures

Design features

- Independent gear unit series
- Helical and bevel-helical gear units
- Housing in welded construction
- All gear units have a parting line
- All commercially available connection elements are possible at input and output side
- For horizontal mounting positions
- Available with increased center distance for hoist applications

Advantages

- Flexible thanks to the welded construction of the housing
- Easy maintenance due to parting line
- Worldwide service

Preferred application areas

- In mining
- In crane construction/hoists (boom hoist, main hoist/winch)
- In large conveyor drives for handling bulk material
- In mill drives in raw material processing
- In large special and single machines in a variety of industrial applications

ML series

Gear ratios and torques

ML.P.. helical gear units: 2, 3 and 4 stages, gear ratio $i = 5.6$ to 315

ML.R.. bevel-helical gear units: 3, 4 and 5 stages, gear ratio $i = 14$ to 1,250

Gear unit size	Torque class M_{N2} [kNm]
100	180
110	250
120	350
130	460
140	680

P series – Standardized

Not so long ago, huge transmissions and gears were required to achieve low output speeds and high torques. Today, such drives are implemented using planetary gear units with the powerful support of primary gearmotors. The product advantages of this completely new type of planetary gearmotor are impressive.

First of all, they are very compact units. The gear units are designed so that the gearmotor is directly fitted in front of the planetary gear unit. Couplings, intermediate flanges and adapter flanges that take up space and increase costs are a thing of the past. The entire range of SEW-EURODRIVE gearmotors is available for mounting. The series is a standardized product. This

means: You can access the current dimension sheets and dxf files at any time, for example for planning and calculation purposes. Thanks to the modular concept of SEW-EURODRIVE, considerable synergies can also be achieved in production processes. The result: An excellent price/performance ratio and short delivery times.



A standardized series of planetary gearmotors.



SEW-EURODRIVE also offers standardized planetary gearmotors for the upper torque range.

P series: the most important facts and figures

Design features

Planetary gear units ...

- can transmit high torque
- are very compact
- offer high torsional rigidity

Gearmotors ...

- offer a large variance on the input side
- are variable in their gear ratio range
- can be combined with the planetary gear unit in helical or bevel-helical designs

Advantages

- Perfectly matching units (gear unit and motor)
- Large range of options due to the SEW-EURODRIVE modular concept
- Short, compact design because there is no need for couplings and adapter flanges
- Standardized units means excellent price/performance ratio and short delivery times

Preferred application areas

In all applications where low output speeds and high torques are required.

For example:

- For drying processes in the construction materials industry
- For filling processes in the cement industry
- For slow-running material processing systems, e.g. mixers, rotary filters
- For all branches of industry with similar requirements
- In the food industry

P series

Gear ratios and torques

P.RF... helical planetary gear units:

4 and 5 stages, gear ratio $i = 100$ to 4,000

P.KF. bevel-helical planetary gear units:

5 stages, gear ratio $i = 140$ to 4,000

Gear unit size	Torque class M_{N2} [kNm]
002	24
012	36
022	51
032	69
042	100
052	124
062	185
072	245
082	359
092	423
102	500

P.MC series – High power density

Many applications, including those used in the handling of bulk material or in the environmental and recycling industry, require drives with high torque. SEW-EURODRIVE has the solution: a perfectly matched unit comprising planetary gear units and standardized, primary helical or bevel-helical gear units.

The P.MC gear units consist of a combination of a planetary gear unit and a primary gear unit from the proven MC series. All mounting options and optional features of the MC series are

available. All bearings (including backstop) are oil lubricated and supplied by a shared oil chamber.

For applications with high torques: the P.MC series.



The helical or bevel-helical designs of the primary gear units of the MC series can be combined with the P series planetary gear units.



P.MC series: the most important facts and figures

Design features

Planetary gear units ...

- can transmit high torque
- are very compact
- offer high torsional rigidity

Primary gear units of the MC series ...

- offer application-specific sealing systems and lubricants as well as options for torque arms, mounting flanges, motor brackets, motor adapters, swing bases and drive flange hubs
- are variable in their gear ratio range

Advantages

- Increased power density due to planetary output stage
- Individual customer solutions using standard components
- Oil lubricated and maintenance-free roller bearings and backstops

Preferred application areas

- Drying processes in the construction materials industry
- Filling processes in the cement industry
- Slow-running material processing systems, e.g. mixers, rotary filters
- Industrial areas with requirements similar to those above
- Food industry
- Boom drives for cranes

P.MC series

Gear ratios and torques

P1.MC.. helical/bevel-helical planetary gear units: Gear unit size 002 to 061, gear ratio $i = 31.5$ to 500

P2.MC.. helical/bevel-helical planetary gear units: Gear unit size 032 to 082, gear ratio $i = 140$ to 4,000

Gear unit size	Torque class M_{N2} [kNm]
002	24
012	36
022	51
032	69
042	100
052	124
062	185
072	245
082	359

For combinations with nominal torques exceeding 359 kNm, please contact us.

XP series – Specialized

Applications in the highest torque range generally require highly individual and very specific drive solutions. The XP series fulfills the necessary requirements up to a maximum output torque of 4,000 kNm.

XP series gear units are primarily designed as stand-alone gear units with free input shafts. The number of stages and the individual gear ratios are very flexible and can be adapted to

individual customer applications. They can also be directly coupled with a primary gear unit from the SEW modular system.



XP gear units as customer-specific solutions for the highest output torque ratings.



Gear units from the XP series can also be offered at torques above the specified torque range.

XP series: the most important facts and figures

Design features

- Highest torques
- High power density
- Maximum flexibility
- Various mounting positions
- Foot or flange mounting
- Can be combined with a primary gear unit

Advantages

- Tailor-made solutions
- Individual gear ratios can be modified more easily
- Highly variable due to coupling with gear units from the SEW modular system on the input side
- Wide range of equipment options
- Worldwide service

Preferred application areas

- In materials handling technology
- In raw materials processing
- In the timber and paper industry
- In the food industry
- In agitators and mixers
- In many other applications requiring the highest torques

XP series

Gear ratios and torques

XP planetary gear units: 2 and 3 planetary stages, gear ratio $i = 50$ to $3,000^1$

Gear unit size	Torque class M_{N2} [kNm]	Gear unit size	Torque class M_{N2} [kNm]
07	100	16	900
08	125	17	1000
09	185	18	1200
10	245	19	1600
11	360	21	1900
12	450	22	2200
13	500	23	2500
14	600	25	4000
15	800		

¹⁾ In combination with primary gear units from the SEW modular system

MACC series – Air cooled condensers

A dedicated gear unit series for air cooled condensers – reliable, powerful, quiet, and efficient design with high quality internals, rigid housing and bearing arrangement to fulfill the wide variety of demands of the application, such as high torque, fan impeller loads, extensive speed range including wind-milling, low noise level and support of motor weight.

High thermal capacity due to large housing, cooling ribs, optimized oil level and oil circulation. Low-noise axial cooling fan as option for increased thermal capacity. For aggressive

ambient conditions, a reliable surface treatment is available. All necessary optional accessories are provided in a maintenance-friendly way, accessible from the walkway on the fan bridge.



Also available on request:

- Special ratio
- ATEX environment



Reliable surface treatment for aggressive ambient conditions.

MACC Series: the most important facts and figures

Design features

- Enhanced motor lantern
- Drywell
- Shaft end pump for pressure lubrication
- Cooling fan
- Backstop, internal design

Advantages

- Optimized thermal rating
- High housing stiffness
- High thrust load capacity on LSS

Preferred application areas

- Air cooled condensers

MACC series

Gear unit size	H	W	L	Max. nominal torque M_{N2} [kNm] approx.	Nominal ratio range
05	484	480	897	21	9 ... 25
06	516	530	992	28	9 ... 25
07	540	570	1055	37	9 ... 25
08	585.5	716	1187	51	9 ... 25
09	606	730	1267	66	9 ... 25

M1 series – Low ratio applications

Energy prices are expected to rise also in the future and will further increase the cost pressure in the paper industry. This is why the persons responsible in the paper mills will have to intensify their efforts in using energy sparingly to be able to achieve cost savings. The gear units of SEW-EURODRIVE can contribute a lot to reduce these energy costs.

The M1 series gearboxes are single-stage gear units for applications with low ratios in the range of 1.25 to 7.1. The maximum nominal torque is 168 kNm. Typical fields of application are, for

example, pump drives or rollers and refiners (paper industry) where foot-mounted helical gear units are required.



The horizontal, split housing design is maintenance-friendly.



Worldwide service to improve your productivity.

M1 series: the most important facts and figures

Design features

- Cooling with fan or with cooling coil
- Oil heating available
- Sealing concept also for rough conditions

Advantages

- Optimized thermal rating
- Easy maintenance
- Fine-tuned range

Preferred application areas

- Paper industry
- Pump applications
- Many other applications where low ratios are mandatory

M1 series

Size M1P	Nominal output torque M_{N2} [kNm]																
	Nominal ratio i_N																
	1.12	1.25	1.40	1.60	1.80	2.00	2.25	2.50	2.80	3.15	3.55	4.00	4.50	5.00	5.60	6.30	7.10
19	1.47	1.55	1.64	1.69	1.75	1.70	1.68	1.59	1.53	1.45	1.31	1.21	1.09	0.92	0.76	0.69	0.51
20	5.22	5.51	5.81	6.04	6.34	6.60	6.84	7.09	6.79	6.42	5.93	5.46	4.96	4.36	3.73	3.09	2.51
30	9.42	9.94	10.5	10.9	11.4	11.9	12.1	12.3	12.3	12.4	11.8	10.8	10.0	8.49	6.93	6.50	5.12
40	13.0	13.7	14.5	15.1	15.8	16.4	17.1	17.8	18.3	18.6	17.3	15.9	14.4	12.8	11.0	9.28	7.59
50	19.1	20.1	21.3	22.2	23.2	24.1	25.2	26.0	26.9	26.1	24.4	21.9	19.8	17.5	15.4	12.9	10.5
60	24.6	26.0	27.4	28.6	30.1	31.4	32.6	33.6	34.4	34.6	34.5	31.7	28.3	25.1	21.0	18.1	15.3
70	35.1	37.1	39.2	40.7	42.6	44.6	46.2	48.0	49.4	50.9	49.0	45.1	40.5	36.2	31.9	27.3	22.5
80	47.1	49.7	52.5	54.7	57.6	59.5	62.4	64.3	66.8	68.7	70.6	66.5	60.0	54.3	47.1	40.1	32.1
90	59.3	62.6	66.2	69.0	72.3	75.2	78.4	81.3	83.8	86.3	88.9	91.1	86.0	71.4	66.3	58.3	-
100	82.3	87.1	92.3	96.1	100	104	109	113	116	120	124	127	126	107	98.3	88.3	-
110	106	112	119	124	130	135	141	146	151	155	160	165	168	133	135	123	-

Application-specific solutions

The key to attaining a real competitive advantage lies in creating innovative, safe and energy-efficient concepts: from the comprehensive modular system of drive components to the solution-oriented, function-optimized and cost-optimized packages with a high degree of adaptability to specific applications.

SEW-EURODRIVE, a leading specialist in drive technology, calls this Drive 360° – Seeing the big picture: from problem-solving expertise to system availability, from energy efficiency to the finished system that sets new standards.

SEW-EURODRIVE has supported and guaranteed all of this with a global presence for over 80 years – with manufacturing and assembly plants in Australia, Brazil, Chile, China, Finland, Germany, India, Singapore, South Africa, and the USA. In addition, our worldwide service ensures high product availability and shorter downtimes.

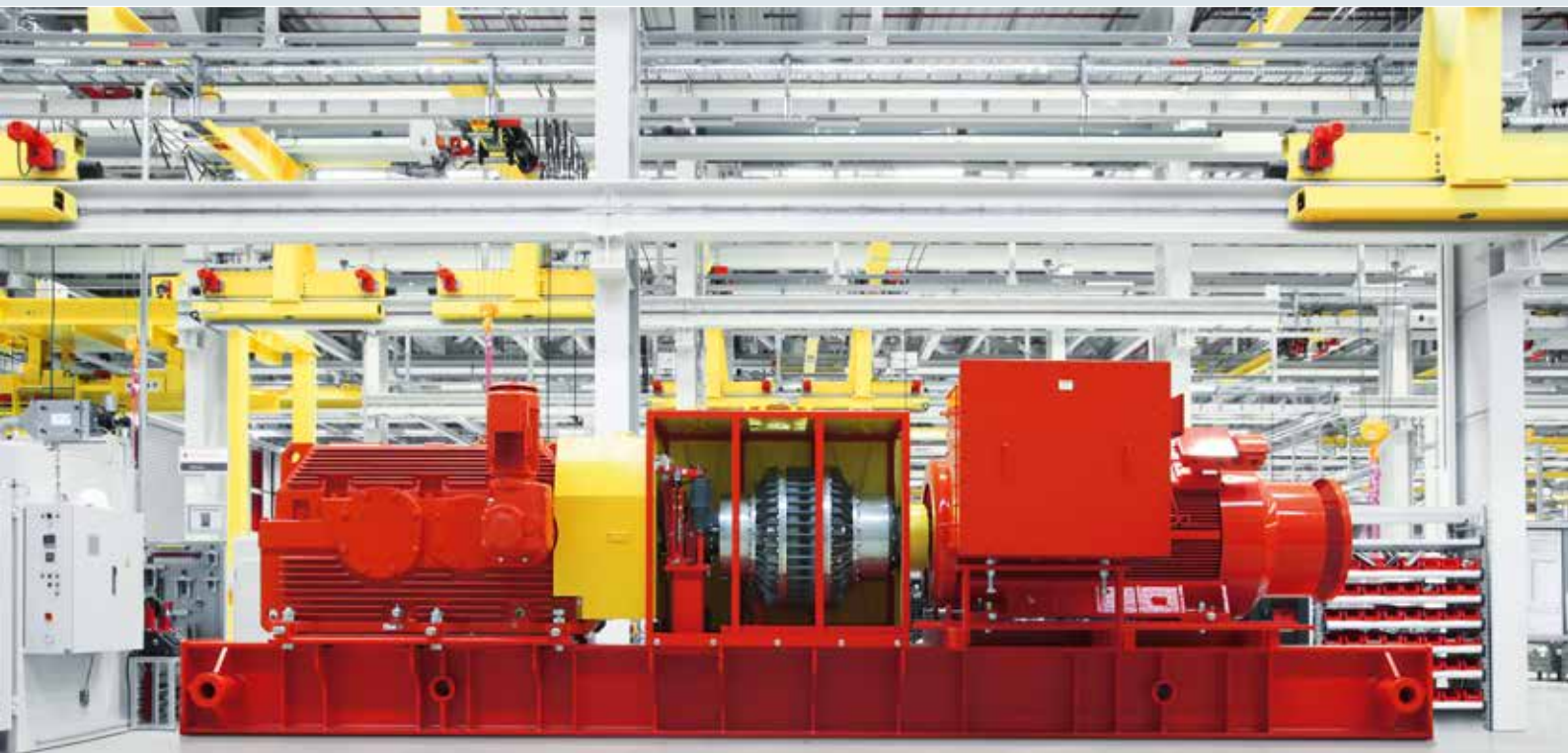


The DUV vibration sensor and the DUO oil aging sensor make it possible to monitor the condition of the gear unit.



Reduce your indirect costs, minimize your production losses and avoid unplanned downtimes using condition monitoring.

Example drive packages and application-specific solutions
for industrial applications



How we're driving the world



SEW-EURODRIVE
Driving the world

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