Product Overview

Industrial Gear Units
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.

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.
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.
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 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

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**X series**

**Gear ratios and torques**

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<thead>
<tr>
<th>Gear unit size</th>
<th>Torque class Mₙ₂ [kNm]</th>
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<tbody>
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<td>100</td>
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<tr>
<th>Gear unit size</th>
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<td>425</td>
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<td>320</td>
<td>475</td>
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**On request, a project-based solution can be offered for the torque range 475 kNm – 1,200 kNm**
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.
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

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**X series – bucket elevator drives**

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**Gear ratios and torques**

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

<table>
<thead>
<tr>
<th>Gear unit size</th>
<th>Torque class $M_{x2}$ [kNm]</th>
<th>Gear unit size</th>
<th>Torque class $M_{x2}$ [kNm]</th>
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<tbody>
<tr>
<td>100</td>
<td>6.8</td>
<td>200</td>
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<td>270</td>
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<td>190</td>
<td>65</td>
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</table>
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

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### 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 $112$

<table>
<thead>
<tr>
<th>Gear unit size</th>
<th>Torque class $M_{	ext{fr}}$ [kNm]</th>
<th>Standard output shaft Ø [mm]</th>
<th>EBD2 output shaft Ø [mm] for high radial loads, high axial loads</th>
<th>EBD1 output shaft Ø [mm] for moderate radial loads, high axial loads</th>
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<tbody>
<tr>
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</table>
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.

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

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.

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

**Gear ratios and torques**

<table>
<thead>
<tr>
<th>Gear unit size</th>
<th>Torque class $M_{\text{nom}}$ [kNm]</th>
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<tbody>
<tr>
<td>100</td>
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<tr>
<td>140</td>
<td>680</td>
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</tbody>
</table>

**ML series**

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 $1,250$
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.

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

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### P series

**Gear ratios and torques**

<table>
<thead>
<tr>
<th>Gear ratio and torque</th>
<th>Torque class $\text{M}_{\text{in}}$ [kNm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>P.R.F... helical planetary gear units: 4 and 5 stages, gear ratio $i = 100$ to $4,000$</td>
<td></td>
</tr>
<tr>
<td>P.K.F... bevel-helical planetary gear units: 5 stages, gear ratio $i = 140$ to $4,000$</td>
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</tr>
<tr>
<td>Gear unit size</td>
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<tr>
<td>$\text{M}_{\text{in}}$ [kNm]</td>
<td>24</td>
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</tbody>
</table>
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

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**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 $4,000$

<table>
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<th>Gear unit size</th>
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<td>072</td>
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<td>082</td>
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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.

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

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**Gear ratios and torques**

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

<table>
<thead>
<tr>
<th>Gear unit size</th>
<th>Torque class $M_{kg}$ [kNm]</th>
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<thead>
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<th>Gear unit size</th>
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<td>2500</td>
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<td>25</td>
<td>4000</td>
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</tbody>
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1) In combination with primary gear units from the SEW modular system
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

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### MACC series

<table>
<thead>
<tr>
<th>Gear unit size</th>
<th>H</th>
<th>W</th>
<th>L</th>
<th>Max. nominal torque $M_{\text{in}}$ [kNm] approx.</th>
<th>Nominal ratio range</th>
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</thead>
<tbody>
<tr>
<td>05</td>
<td>484</td>
<td>480</td>
<td>897</td>
<td>21</td>
<td>9 … 25</td>
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<tr>
<td>06</td>
<td>516</td>
<td>530</td>
<td>992</td>
<td>28</td>
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<td>540</td>
<td>570</td>
<td>1055</td>
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<td>9 … 25</td>
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<td>08</td>
<td>585.5</td>
<td>716</td>
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<td>9 … 25</td>
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<td>606</td>
<td>730</td>
<td>1267</td>
<td>66</td>
<td>9 … 25</td>
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</tbody>
</table>
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.
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

<table>
<thead>
<tr>
<th>Size M1P</th>
<th>Nominal output torque $M_{n2}$ [kNm]</th>
<th>Nominal ratio $i_n$</th>
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</thead>
<tbody>
<tr>
<td>1.12</td>
<td>1.25</td>
<td>1.40</td>
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<tr>
<td>1.60</td>
<td>1.80</td>
<td>2.00</td>
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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.

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