The P-X series – where two industrial gear unit worlds meet
The P-X series unites a compact planetary stage with robust, versatile industrial gear units. Thanks to their outstanding performance and high level of operational reliability, these units are the perfect solution for drives in the medium to high torque range – even for extremely heavy applications.

Be it hollow shaft or solid shaft, with key, smooth or spline to DIN 5480, whether horizontal, vertical or inclined mounting position, the P-X series offers a whole range of alternatives. The increased load-bearing capacity of the flanges means that even heavy motors can be mounted, which enables extraordinary economic advantages to be achieved – e.g. through easy installation and alignment. Combined with the high level of operational reliability, these advantages also deliver a reduction in maintenance and repair costs.

The P-X series is a high-performance planetary gear unit with a small gear ratio for diverse areas of application.

When a compact solution with high thermal rating is required, the combined, standardized and high-performance planetary gear units of the P-X series cannot fail to impress.
Wide range of available features

Torque arm

DRN.. energy efficient motor with efficiency class IE3

Motoradapter with radial fan; Available up to size IEC 355

Condition monitoring, e.g. with temperature sensor
Solid shaft with key

Hollow shaft with shrink disc

Optimal sealing system for all applications e.g. 2 seals, regreasable labyrinth seal

X.K housing with integrated intermediate flange
P-X series:  the most important facts and figures

**Design features**
- High-performance planetary gear unit with medium overall gear ratio (i = 160 – 550)
- Rigid connection between the P series and X series gear units
- Wide range of variants for connecting motors and fans
- Heating rods can be housed in the series X housing and in the intermediate flange
- Shared oil chamber with efficient oil circulation
- Primary gear unit mounted horizontally on the right- or left-hand side as standard. Other mounting positions possible on request (M2/M4/M5/M6 and pivoted mounting positions)
- SEP shaft end pump and backstop possible

**Advantages**
- High thermal rating
- Usable at low temperature ranges < -25 °C
- Variety of options means a wider area of application
- No need for replacement gear units (with double gear units) thanks to invertible housing
- Easy selection since it is a standardized drive from the catalog
- Fast delivery times thanks to global availability
- Worldwide service provision
- No swing base, even with higher motor power levels with motor adapter (IEC/NEMA)
- Customer-specific system solutions with motors, coupling, brake and fan on a compact motor scoop

**Preferred application areas**
- Apron feeders
- Bucket wheel drives
- Stacker/reclaimers
- Shredders
- Wood panel system
- Cranes
- Drum washing machine
- Sugar mills
- Winches

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**Gear ratios and torques**

**P-X… helical/bevel-helical gear units:**
Gear units sizes 042 to 102, gear ratio i = 160 – 550

<table>
<thead>
<tr>
<th>Gear unit size</th>
<th>Torque class $M_{02}$ kNm</th>
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<tbody>
<tr>
<td>042</td>
<td>100</td>
</tr>
<tr>
<td>052</td>
<td>124</td>
</tr>
<tr>
<td>062</td>
<td>185</td>
</tr>
<tr>
<td>072</td>
<td>245</td>
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<td>082</td>
<td>359</td>
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<tr>
<td>092</td>
<td>420</td>
</tr>
<tr>
<td>102</td>
<td>500</td>
</tr>
</tbody>
</table>

For gear ratios outside this range, please contact us.
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