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HIGH PRECISION GEARBOXES

PRODUCT OVERVIEW



High Precision Gearboxes

As one of the first movers in high precision gearboxes for the Robotics industry, we have supplied reliable and precise gearboxes for various industry sectors for over 35 years.

Our customers benefit from our in-depth know-how in standard gearboxes as well as for individual customised solutions, ensuring that we are able to provide a fast and efficient response to the demanding needs of the various markets we serve.

At Melior Motion you will find everything about precision gearboxes.

Our strengths:

- We offer solutions that make your application more precise, efficient and smarter
- We fully support our customers from design phase to serial delivery
- A highly motivated, experienced team is behind our innovative products

Our gearboxes can be found in the following industries: robotics, automation, machine tools, rotary tables, packaging machines and many more.



Customised solutions

We adapt the gearbox size to the specific customer requirements.

Whether for new developments or optimization of your application: we support you in the development of ideas and accompany you from the design phase to serial delivery. In our test lab, the technical parameters can be checked, validated and documented.

Our standard product range



Gearbox sub-assembly

PSC V/H-E

- Can be installed directly into your drive

- Backlash ≤ 0.1 arcmin
- Patented self-adjusting solution to regulate wear
- Solid and hollow shaft design
- Ratios from 35.5 up to 200:1
- Efficiency $\geq 90\%$
- High tilting and torsion stiffness
- Planetary gear with integrated spur gear stage
- Torque range from 400 up to 3300 Nm (nominal torque)



Fully enclosed gearbox unit

PSC V/H-B

- Ready to install
- Easy motor adaption



Delta Serie

PSD

- Backlash ≤ 0.5 arcmin
- Solid and hollow shaft design
- Scope of ratios from 20 up to 51:1
- High input speeds
- Compact and light weight
- 2-stage spur gear unit

Examples for customised solutions



SP243

- Gearbox with extra-large hollow shaft for feed through of cables and pipes
- Backlash ≤ 1 arcmin
- Extremely high tilting stiffness



SP244

- Linear axis gearbox with pinion on the output side for rack
- Reduced backlash
- Helical gearbox with ratio of 10:1
- Adaption of different servomotors possible



SP191

- Multi-axis robotics gearbox
- Hollow shaft with a diameter of up to 80 mm
- Backlash ≤ 0.1 arcmin
- Max. torques up to 2000 Nm