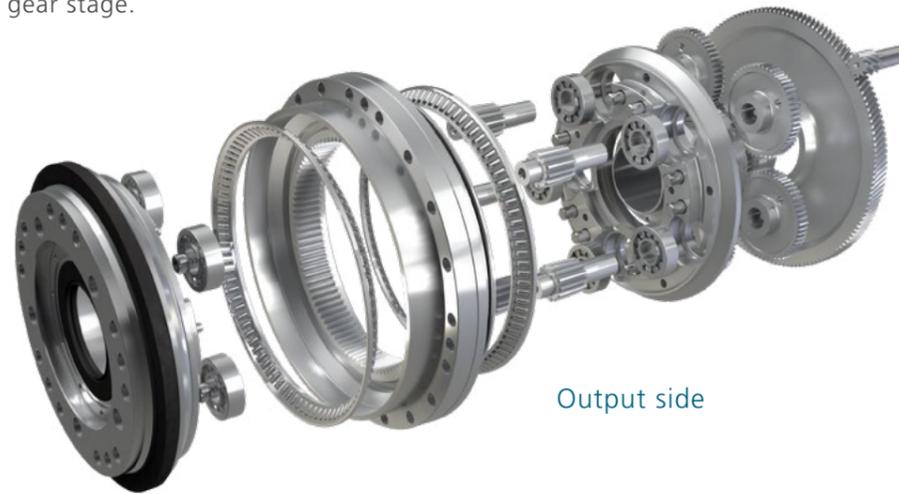


Our low-backlash PSC precision gears achieve a particularly high power-density thanks to multiple gear meshing of the structure with sun gear, planet gears and ring gear. Thereby the efficiency of over 90 percent and the extremely low breakaway torque offer outstanding energy efficiency.

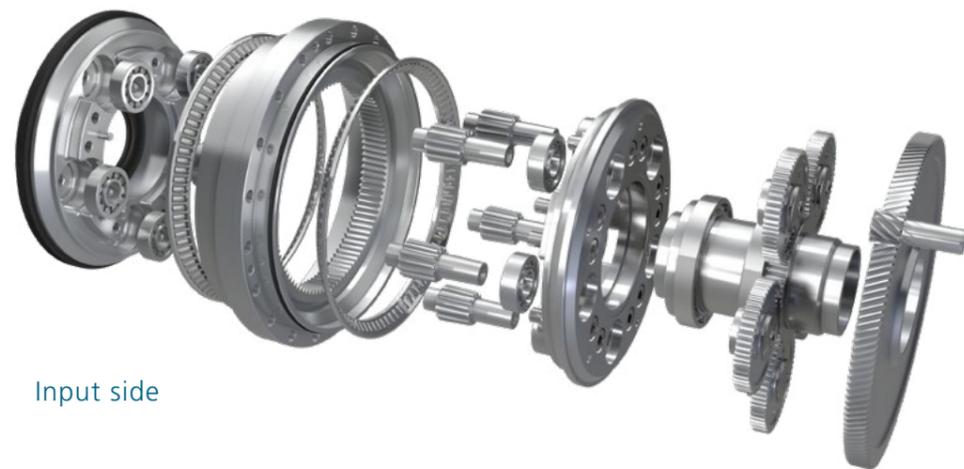
This keeps the temperature of the gearbox at a particularly low level throughout. In addition, elastic seals such as radial sealing rings are much less stressed. It can be that - depending on the application or load cycles - 20,000 or even more operating hours can be achieved, far more than with conventional precision gears and verified in numerous tests.

At the same time, the low-backlash precision gear is extremely quiet. The noise in the working environment is thus reduced. Not only do the sub-assemblies operate quietly, but also precisely, even in the low torque range.

PSC gear units are available as planetary gear units with an integrated helical gear stage.

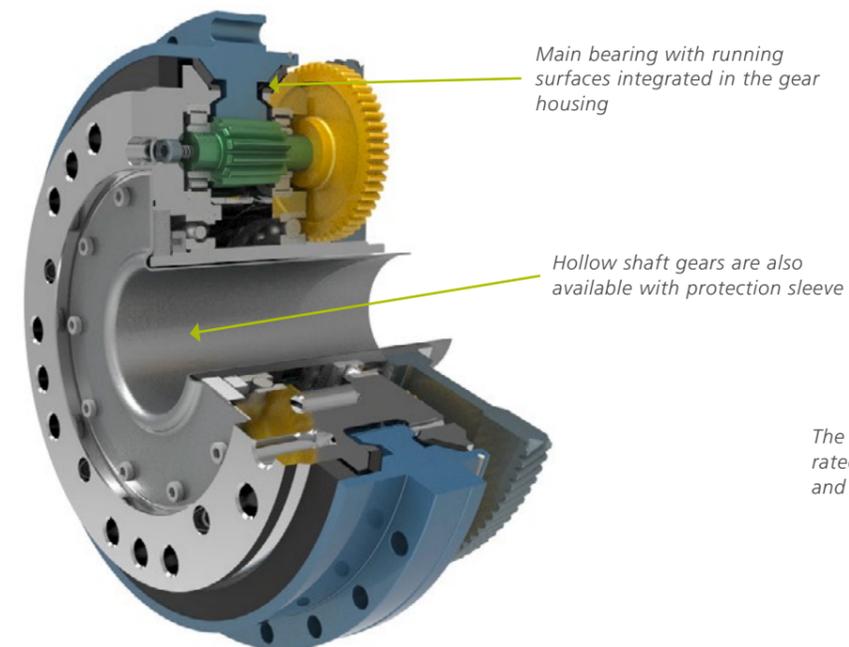
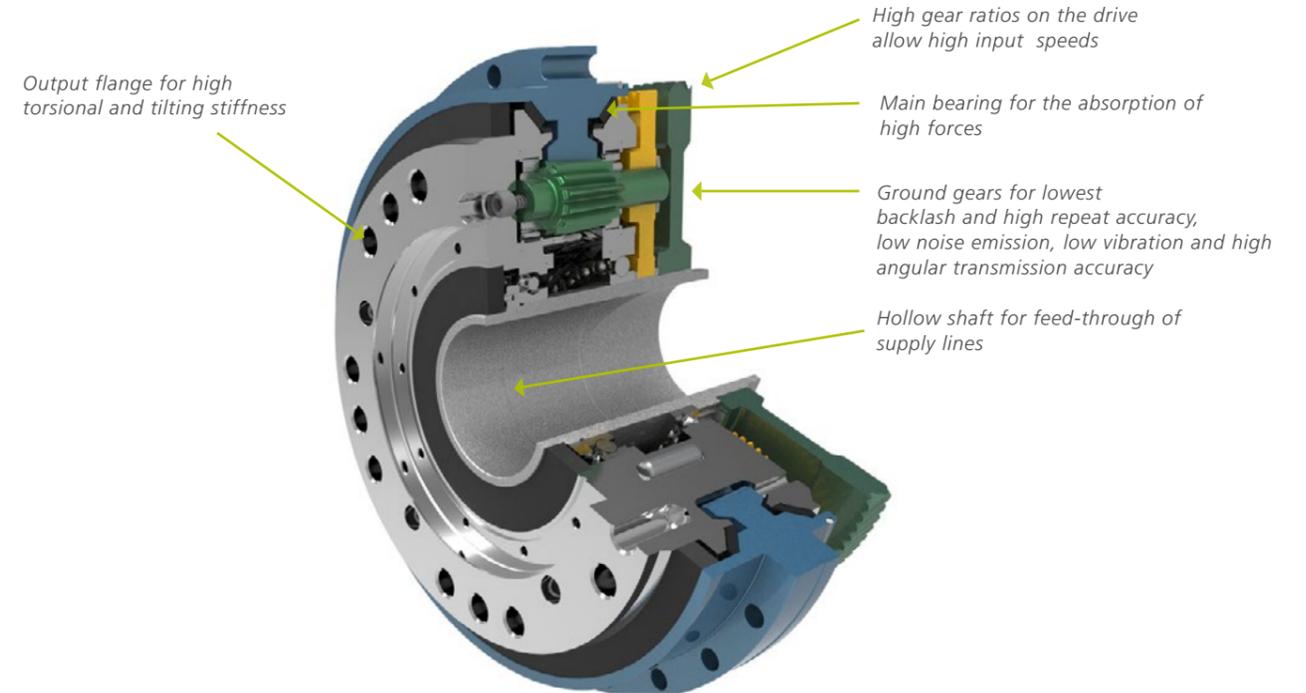


Output side



Input side

The macro and micro geometry are optimized for highest precision. Our patented solution for wear regulation ensures consistent precision over the entire service life.



The bearing of the first stage gear is integrated in the gearbox, no external support and alignment is required

### PSC precision gears as two-stage sub-assembly

The sub-assemblies of the PSC gear unit series are also available in two-stage versions on request. In these cases, the sun pinion serves as the input pinion and can be adapted directly to the motor shaft so that the drive is centred.

For the PSC030 the sun pinion is designed as a plug-in pinion, for the other sizes PSC056 to PSC400 as a slip-on pinion. The available gear ratios can be found in the tables below.

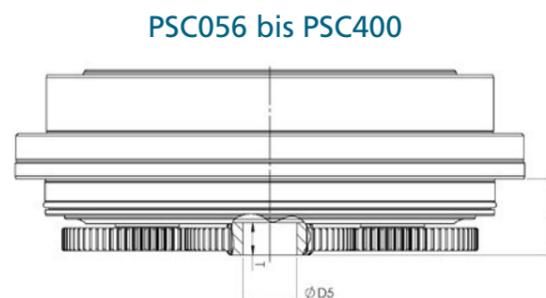
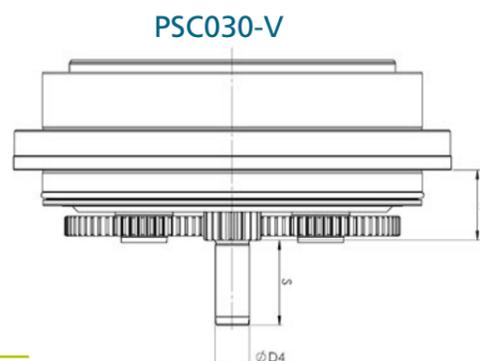
With the exception of the input speeds, the other dimensions and performance data correspond to those of the standard sub-assemblies and gear units (page 22). In the case of two-stage mounting kits, the speeds are limited to the maximum output speeds specified therein.



Gearbox	$i_{nenn}$	$i_{exakt}$	$R \pm 0,25$	$\varnothing D4$	S
PSC030-V-E	20	4379/221	24.75	12 x6	30.00

Gearbox	$i_{nenn}$	$i_{exakt}$	$R \pm 0.25$	$\varnothing D5$	T
PSC056-V-E	14	6139/435	26.75	19 H6	11.50
PSC080-V-E	14	1508/105	29.25	22 H6	12.25
PSC112-V-E	14	6139/435	33.00	24 H6	14.00
PSC160-V-E	14	3169/225	36.25	28 H6	14.50
PSC224-V-E	14	99/7	38.50	28 H6	16.00
PSC300-V-E	14	3169/225	42.50	32 H6	18.00
PSC400-V-E	14	3169/225	47.75	38 H6	19.75

Gearbox	$i_{nenn}$	$i_{exakt}$	$R \pm 0,25$	$\varnothing D5$	T
PSC057-H-E-11	11	692/65	26.25	19 H6	13.00
PSC080-H-E-10	10	5858/611	28.25	24 H6	15.00
PSC112-H-E-9	9	223/25	33.50	28 H6	16.00
PSC160-H-E-9	9	2003/221	35.75	32 H6	18.00
PSC224-H-E-9	9	5587/637	37.00	32 H6	20.00
PSC300-H-E-9	9	2003/221	40.00	38 H6	20.00
PSC400-H-E-9	9	112/13	45.50	38 H6	28.00



### Plug-and-play

Our gear units are ideal for applications in which the customer's adjacent construction is to be designed with minimum effort.

The ready-to-install gear units are fully enclosed and easy to adapt to the motor. We can provide them with different motor mounting variants - including oil filling for immediate use.

