

High-torque!

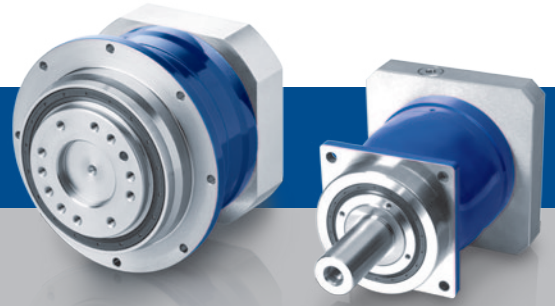
New sizes now available for the MPR and MPG models

Low backlash planetary gearboxes from VOGEL combine maximum flexibility with high power density.

- Universal design allows any type of installation
- Ideal for servo applications with high speed ranges
- Large, continuous ratio range
- Reduced noise emission thanks to maximum concentricity and the special toothing geometry which permits gradual tooth engagement
- Up to 50% higher torques than straight-toothed planetary gearboxes
- Simplified, flexible motor attachment
- Above-average gearbox service life
- MPG design range with flanged shaft
- MPR design range. Solid shaft without key. Optionally with key or with splined shaft DIN 5480



NEW



Technical data

Gear teeth

Helical gearing

Sizes

MPR 400, 500 and 600
MPG 400 and 600

One-stage ratio

in whole numbers and mathematically exact:

$i = 3,0^*$
 $i = 4,0^{**}$
 $i = 5,0$
 $i = 7,0$
 $i = 10,0$

Two-stage ratio

in whole numbers and mathematically exact:

$i = 12,0^*$
 $i = 16,0^{**}$
 $i = 20,0$
 $i = 25,0$
 $i = 28,0^{**}$
 $i = 35,0$
 $i = 40,0^{**}$
 $i = 50,0$
 $i = 70,0$
 $i = 100,0$

Lubrication

Permanent lubrication using synthetic gearbox oil

Protection class

IP65

- dust-tight
- water-jet proof

		Backlash		Max. acceleration torque $T_{2 \text{ bzul}}$	Max. input speed $n_{1 \text{ maxzul}}$
		j			
Size	Number of stages	Standard [arcmin]	Reduced [arcmin]	[Nm]	[min ⁻¹]
MPR 400	1-stage	≤ 3	≤ 1	up to 1600	up to 3500
	2-stage	≤ 5	≤ 3	up to 1600	up to 4000
MPR 500	1-stage	≤ 3	≤ 1	up to 3000	up to 2500
	2-stage	≤ 5	≤ 3	up to 3000	up to 3500
MPR 600	1-stage	≤ 3	≤ 1	up to 4500	up to 2500
	2-stage	≤ 5	≤ 3	up to 4500	up to 3500
MPG 400	1-stage	≤ 3	≤ 1	up to 1600	up to 3500
	2-stage	≤ 3	≤ 1	up to 1600	up to 4000
MPG 600	1-stage	≤ 3	≤ 1	up to 4500	up to 2500
	2-stage	≤ 3	≤ 2	up to 4500	up to 3500

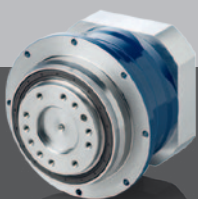
Further details on request. © Note: Errors, technical modifications and printing errors reserved

* Ratios not with MPG 400 and 600

** Ratios not with MPG 600



Up-to-date + compact: All product information can be downloaded from www.vogel-antriebe.de



SERVO gears



MECHANICAL gears



INDUSTRIAL gears