

## Overview of Gearboxes

### Gearboxes AP

Art. No.	0.0.666.05	0.0.666.06	0.0.666.07	0.0.666.11	0.0.666.12	0.0.666.13	0.0.666.17	0.0.666.18	0.0.666.19
Product name	Gearbox AP 40-3	Gearbox AP 40-5	Gearbox AP 40-7	Gearbox AP 60-3	Gearbox AP 60-5	Gearbox AP 60-7	Gearbox AP 80-3	Gearbox AP 80-5	Gearbox AP 80-7
Efficiency	0.98	0.98	0.97	0.98	0.98	0.97	0.98	0.98	0.97
Gear ratio i	3	5	7	3	5	7	3	5	7
Rated output torque [Nm]	11	14	8.5	28	40	25	85	110	65
Max. mechanical input speed [1/min]	18000	18000	18000	13000	13000	13000	7000	7000	7000
Mass moment of inertia [kgcm <sup>2</sup> ]	0.014 - 0.027			0.359 - 0.654			0.359 - 0.654		
Torsional rigidity [Nm/arcmin]	0.7 - 1			1.7 - 2.3			4.3 - 5.8		
Backlash [arcmin]	15			10			7		
Type	Planetary gearbox, inline								
Operating temperature	-25°C to 90°C								
Protection class	IP54								

### Gearboxes WP

Art. No.	0.0.666.08	0.0.666.09	0.0.666.10	0.0.666.14	0.0.666.15	0.0.666.16	0.0.666.20	0.0.666.21	0.0.666.22
Product name	Gearbox WP 40-3	Gearbox WP 40-5	Gearbox WP 40-7	Gearbox WP 60-3	Gearbox WP 60-5	Gearbox WP 60-7	Gearbox WP 80-3	Gearbox WP 80-5	Gearbox WP 80-7
Efficiency	0.94	0.94	0.94	0.95	0.95	0.94	0.96	0.95	0.95
Gear ratio i	3	5	7	3	5	7	3	5	7
Rated output torque [Nm]	3.96	6.6	7.48	12.32	21.12	22	35.2	58.96	57.2
Max. mechanical input speed [1/min]	18000	18000	18000	13000	13000	13000	7000	7000	7000
Mass moment of inertia [kgcm <sup>2</sup> ]	0.032 - 0.049			0.221 - 0.376			0.917 - 1.409		
Torsional rigidity [Nm/arcmin]	0.6-0.8			1.5-2			3.8-5.1		
Backlash [arcmin]	21			16			13		
Type	Planetary gearbox, right angle								
Operating temperature	-25°C to 90°C								
Protection class	IP54								