

Planetary gear

IMS.120 Pro

Our planetary gear from the Pro Series with outer diameter 120 mm combines performance with robustness.



Performance

Powerful, long-lived and robust - the planetary gear convinces in a multitude of applications.

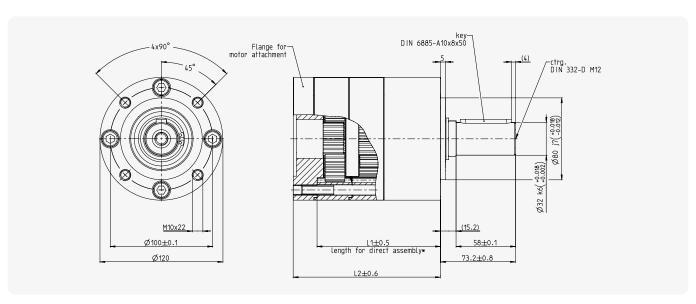


Temperature

Also ideally suited for demanding temperature ranges from -30 $^{\circ}$ to +120 $^{\circ}$ C.



Parameter	1-stage	2-stage	3-stage
Perm. output torque T_{AB} (Appl. factor $C_{B} = 1.0$)	50.0 Nm	150.0 Nm	300.0 Nm
Gearbox efficiency, approx.	0.80	0.75	0.70
Max. backlash	1.00 °DEG*	1.50 °DEG	2.00 °DEG
Recommended initial speed	3,000 U/min	3,000 U/min	3,000 U/min



All dimensions in millimeters [mm]



Current reduction ratios i rounded

Pro LN	Pro LN	Pro LN
1-stage	2-stage	3-stage
4:1 (3.71)	14:1 (13.73)	51:1 (50.89)
7:1 (6.75)	25:1 (25.01)	93:1 (92.70)
	46:1 (45.56)	169:1 (168.85)
		308:1 (307.55)

Output side with ball bearing (2RS)	1-stage	2-stage	3-stage
Max. load, radial (Middle output shaft)	600 N	900 N	1,500 N
Max. load, axial	120 N	180 N	300 N
Max. perm.fitting pressure	2,500 N	2,500 N	2,500 N
Weight approx. with motor flange C105	5.6 kg	8.0 kg	10.4 kg

Gearbox length in	1-stage	2-stage	3-stage
Length 1ª	86.3 ± 0.5	120.45 ± 0.5	154.6 ± 0.5
Length 2 ^b	109.2 ± 0.6	143.4 ± 0.6	177.5 ± 0.6

All figures are approximate values.

^a Shortest possible gear length, can only be realized if motor design directly matches our ring gear.
^b The calculatory minimum length of the gear is indicated on condition of an optimum connection of flange and motor. Please contact us directly for your concrete project.