

Planetary gear

IMS.32 Pro IMS.32 Pro LN

Our planetary gear from the Pro Series with outer diameter 32 mm combines performance with robustness. Due to easy adaptations of the configuration all Pro gears are also available in Low Noise (LN) design.



Low Noise (LN)

Due to the use of helical gearing in the first stage available as Low Noise variant.



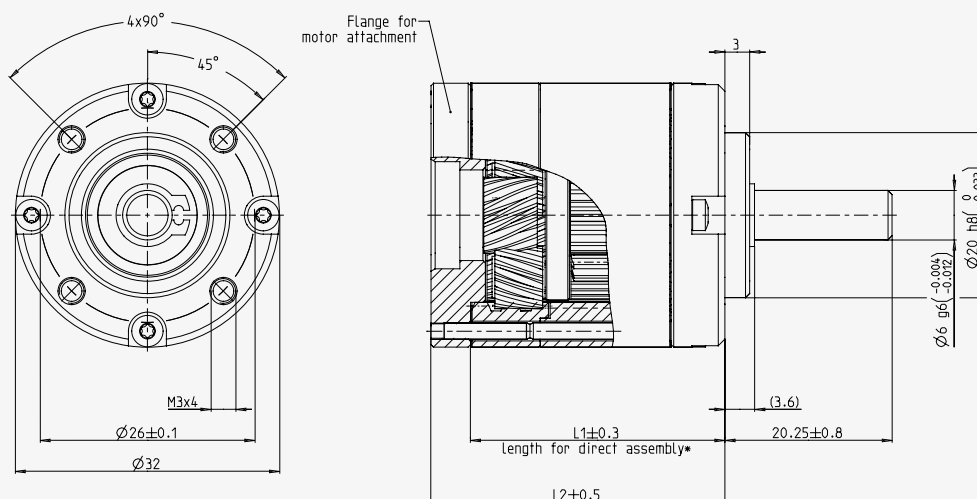
Temperature

Also ideally suited for demanding temperature ranges from -30° to +120°C.



Parameter	1-stage	2-stage	3-stage
Perm. output torque T_{AB} (Appl. factor $C_B = 1.0$)	0.75 Nm	2.25 Nm	4.50 Nm
Gearbox efficiency, approx.	0.80	0.75	0.70
Max. backlash	1.50 °DEG*	1.55 °DEG	1.60 °DEG
Recommended initial speed	3,000 U/min	3,000 U/min	3,000 U/min

* LN: 2,00 °DEG. For plastic PL wheels only! Impact of 1st stage for 2-4 stage versions is negligible.



All dimensions in millimeters [mm]

Current reduction ratios i rounded

Pro / Pro LN	Pro / Pro LN	Pro / Pro LN
1-stage	2-stage	3-stage
4:1 (3.71)	14:1 (13.73)	51:1 (50.89)
4:1 (4.29)	16:1 (15.88)	59:1 (58.86)
5:1 (5.18)	18:1 (18.37)	68:1 (68.07)
7:1 (6.75)	19:1 (19.20)	71:1 (71.16)
	22:1 (22.21)	79:1 (78.72)
	25:1 (25.01)	93:1 (92.70)
	27:1 (26.85)	95:1 (95.18)
	29:1 (28.93)	100:1 (99.51)
	35:1 (34.98)	107:1 (107.21)
	46:1 (45.56)	115:1 (115.08)
		124:1 (123.98)
		130:1 (129.62)
		139:1 (139.14)
		150:1 (149.90)
		169:1 (168.85)
		181:1 (181.25)
		195:1 (195.27)
		236:1 (236.10)
		308:1 (307.55)

Output side with ball bearing (2Z)	1-stage	2-stage	3-stage
Max. load, radial (Middle output shaft)	40 N	70 N	100 N
Max. load, axial	10 N	20 N	30 N
Max. perm.fitting pressure	120 N	120 N	120 N
Weight approx.	160 g	210 g	260 g

Gearbox length in	1-stage	2-stage	3-stage
Length 1 ^a	21.3 ± 0.3	30.8 ± 0.3	40.3 ± 0.3
Length 2 ^b	25.8 ± 0.5	35.3 ± 0.5	44.8 ± 0.5

^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.

All figures are approximate values.

Variations are possible and may arise for example due to non-standardized inspection and measurement methods. For more detailed information, please contact us directly. The company always reserves the right to make technical modifications. For current status, please consult www.imsgea.com