

PM 105/LN \varnothing 105 mm, Metal-Low-Noise

| Parameter | 1-stage | 2-stage | 3-stage |
|--|-------------|-------------|-------------|
| Perm. output torque T_{AB} (Appl. factor $C_B = 1.0$) | 35.0 Nm | 105.0 Nm | 195.0 Nm |
| Gearbox efficiency, approx. | 0.80 | 0.75 | 0.70 |
| Max. backlash | 0.55 °DEG* | 0.60 °DEG | 0.65 °DEG |
| Recommended initial speed | 3,000 U/min | 3,000 U/min | 3,000 U/min |
| Min. Operating temperature | -30 °C | -30 °C | -30 °C |
| Max. Operating temperature | +120 °C | +120 °C | +120 °C |

* LN: 0,90 °DEG. For plastic PL wheels only! Impact of 1st stage for 2-4 stage versions is negligible.

Current reduction ratios i rounded

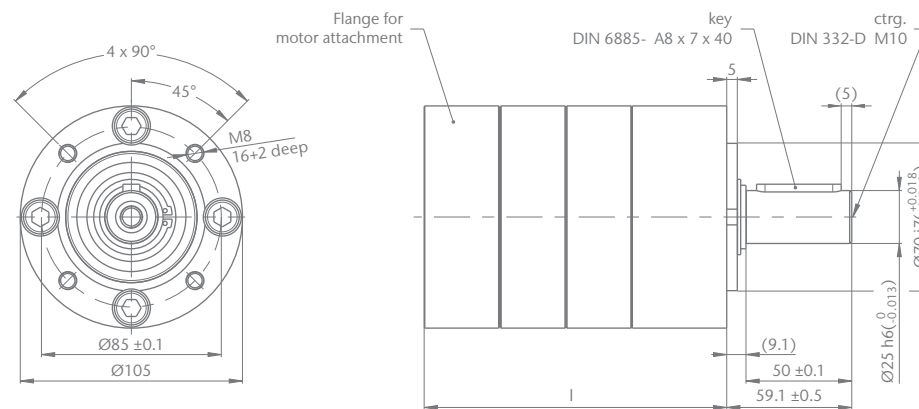
| 1-stage | | 2-stage | | 3-stage | |
|------------|---------------|--------------|---------------|----------------|-----------------|
| PM | LN | PM | LN | PM | LN |
| 4:1 (3.71) | 4:1 (3.65) | 14:1 (13.73) | 14:1 (13.53) | 51:1 (50.89) | 50:1 (50.16) |
| 4:1 (4.29) | 5:1 (4.59) | 16:1 (15.88) | 16:1 (15.65) | 59:1 (58.86) | 58:1 (58.01) |
| 5:1 (5.18) | 5:1 (5.36) | 18:1 (18.37) | 17:1 (17.00) | 68:1 (68.07) | 67:1 (67.08) |
| 7:1 (6.75) | 7:1 (6.55) | 19:1 (19.20) | 19:1 (18.92) | 71:1 (71.16) | 70:1 (70.13) |
| | 9:1 (8.63) | 22:1 (22.21) | 23:1 (22.96) | 79:1 (78.72) | 81:1 (81.11) |
| | *13:1 (13.20) | 25:1 (25.01) | 25:1 (24.65) | 93:1 (92.70) | 91:1 (91.36) |
| | | 27:1 (26.85) | 28:1 (27.76) | 95:1 (95.18) | 98:1 (98.07) |
| | | 29:1 (28.93) | 28:1 (28.05) | 100:1 (99.51) | 102:1 (101.89) |
| | | 35:1 (34.98) | 34:1 (33.92) | 107:1 (107.21) | 106:1 (105.65) |
| | | 46:1 (45.56) | 45:1 (44.69) | 115:1 (115.08) | 115:1 (114.77) |
| | | | 58:1 (58.22) | 124:1 (123.98) | 123:1 (123.20) |
| | | | *68:1 (68.40) | 130:1 (129.62) | 128:1 (127.74) |
| | | | *89:1 (89.10) | 139:1 (139.14) | 137:1 (136.99) |
| | | | | 150:1 (149.90) | 145:1 (145.36) |
| | | | | 169:1 (168.85) | 166:1 (166.40) |
| | | | | 181:1 (181.25) | 176:1 (175.75) |
| | | | | 195:1 (195.27) | 192:1 (191.54) |
| | | | | 236:1 (236.10) | 232:1 (231.59) |
| | | | | 308:1 (307.55) | 302:1 (301.68) |
| | | | | | 393:1 (392.98) |
| | | | | | *462:1 (461.70) |
| | | | | | *601:1 (601.43) |

* not all reduction ratios available ex-stock

| Output side with ball bearing (2RS) | 1-stufig | 2-stufig | 3-stufig |
|---|----------|----------|----------|
| 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 | 2,000 N | 2,000 N | 2,000 N |
| Weight approx. with motor flange C80 | 4.4 kg | 6.0 kg | 7.6 kg |

| Gearbox length in mm | 1-stage | 2-stage | 3-stage |
|----------------------|------------|-------------|-------------|
| Length l* | 94.3 ± 0.6 | 125.6 ± 0.6 | 156.6 ± 0.6 |

* The minimum length is only possible with an optimal attachment to the motor, the actual length we like to determine for you.



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.imsgear.com