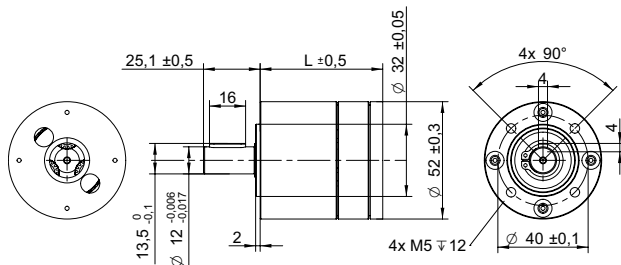


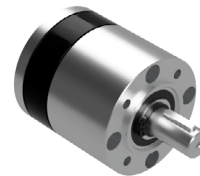
HP52 | Ø 52 mm | PLANETARY GEARBOX



DRAWING (mm)



PHOTO



MODEL NO. DESIGNATION

HP52 - GEAR RATIO

Example: HP52-004

ACCESSORIES

● C = customizations are offered on demand even for smaller quantities. Typical customizations are indicated with a green dot at column end. Please contact us for any customization request.

PLANETARY GEARBOX DATA STAGE 1 TO 2

		4:1	4.6:1	5.4:1	7:1	9:1	14:1	16:1	17:1	19:1	23:1	25:1	27.8:1	28.1:1	34:1	45:1	58:1
Gear ratio		4:1	4.6:1	5.4:1	7:1	9:1	14:1	16:1	17:1	19:1	23:1	25:1	27.8:1	28.1:1	34:1	45:1	58:1
Gear stage		1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2
Max. nominal input speed	rpm	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000
Max. nominal torque	Nm	3.9	3.9	3.9	3.9	3.9	12	12	12	12	12	12	12	12	12	12	12
Peak torque	Nm	5.9	5.9	5.9	5.9	5.9	18	18	18	18	18	18	18	18	18	18	18
Efficiency	%	80	80	80	80	80	75	75	75	75	75	75	75	75	75	75	75
Length L	mm	54.3	54.3	54.3	54.3	54.3	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
Weight	g	690	690	690	690	690	890	890	890	890	890	890	890	890	890	890	890
Backlash no load	°	0.7	0.7	0.7	0.7	0.7	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Radial load ¹	N	200	200	200	200	200	310	310	310	310	310	310	310	310	310	310	310
Shaft axial load	N	59	59	59	59	59	98	98	98	98	98	98	98	98	98	98	98

PLANETARY GEARBOX DATA STAGE 3

		67:1	70:1	81:1	84:1	91:1	98:1	102:1	106:1	115:1	123:1	128:1	137:1	145:1	166:1	176:1	192:1	232:1	302:1	393:1
Gear ratio		67:1	70:1	81:1	84:1	91:1	98:1	102:1	106:1	115:1	123:1	128:1	137:1	145:1	166:1	176:1	192:1	232:1	302:1	393:1
Gear stage		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Max. nominal input speed	rpm	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000
Max. nominal torque	Nm	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Peak torque	Nm	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
Efficiency	%	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
Length L	mm	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
Weight	g	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
Backlash no load	°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Radial load ¹	N	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440
Shaft axial load	N	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150

OTHER GEARBOX DATA

Service life	h	1000
Performance tolerances	%	15
Operating temperature	°C	-30 to 100
Relative humidity	%	20 to 85
Noise level ²	dB(A)	Depending on motor model
IP rating		IP42
Manufacturing standard		ISO 9001 ISO 14001 ISO 5001
CE label UL label		No No
Shaft press fit force max.	N	490
Radial play	mm	0.05
Thrust play	mm	0.3
Bearing type		Ball bearing
Shaft material		Steel
Housing material		Steel
Direction of rotation		CW and CCW

MOTOR COMPATIBILITY³

Compatible motor types: Brushed DC motors, brushless DC motors, and stepping motors.

EXAMPLE GEAR MOTOR DATA FOR COMPATIBLE MODEL

Motor model	987-5025F-C
Gearbox	HP52-058
Gear ratio	58:1
Nominal speed	rpm 69
Nominal torque	Nm 3.7
Nominal power	W 26

NOTES

1. 10 mm from flange.
2. Contact us for more detailed information.
3. Transmotec offers a range of different compatible motors. Visit www.transmotec.com for more information.