

NEW

Planetary Gearheads

High Torque

3,7 Nm

9 000 min⁻¹

Series 22GPT HT

Values at 22°C

Number of gear stages		3	4
Reduction ratio ¹⁾		45:1	135:1
(rounded)		50:1	163:1
		66:1	198:1
		73:1	220:1
		99:1	266:1
		126:1	330:1
		145:1	419:1
		184:1	484:1
			614:1
			653:1
			829:1
			958:1
			1 216:1
Continuous torque, max.	Nm	2,7	3,7
Intermittent torque, max.	Nm	4	5
Peak torque	Nm	10	14
Continuous input speed, max.	min ⁻¹	9 000	9 000
Intermittent input speed, max.	min ⁻¹	10 500	10 500
Continuous output power, max.	W	8	7
Intermittent output power, max.	W	12	10
Efficiency, max.	%	65	60
Input inertia with pinion, max.	gmm ²	40	39
Torsional stiffness, typical	Nm/°	5	5
Backlash, at no-load, typical	°	0,8	0,8
Shaft load, max.:			
– radial (10 mm from mounting face)	N	200	300
– axial	N	160	170
Shaft press fit force, max.	N	175	175
Shaft play:			
– radial (10 mm from mounting face)	mm	≤ 0,05	≤ 0,05
– axial	mm	≤ 0,05	≤ 0,05
Length without motor L2	mm	38,4	44,8
Mass without motor and flange	g	94	109
Operating temperature range	°C	-30 ... +120	
Direction of rotation, drive to output		=	
Housing material		stainless steel	
Geartrain material		stainless steel	
Bearings on output shaft		ball bearings	

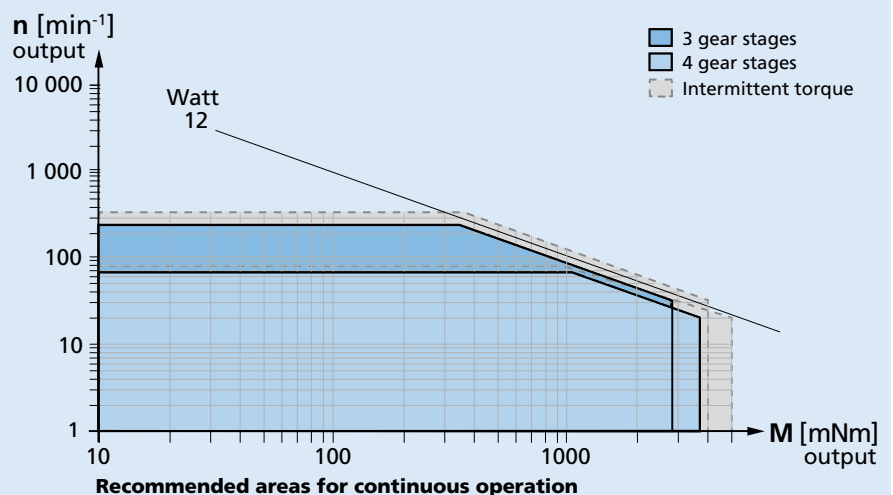
¹⁾ The reduction ratios are rounded, the exact values are available on request or at www.faulhaber.com.

Note: These gearheads are available only with motors mounted.
Reduction ratios 15:1, 19:1, 22:1, 28:1 with 2-stage configuration are available on demand.

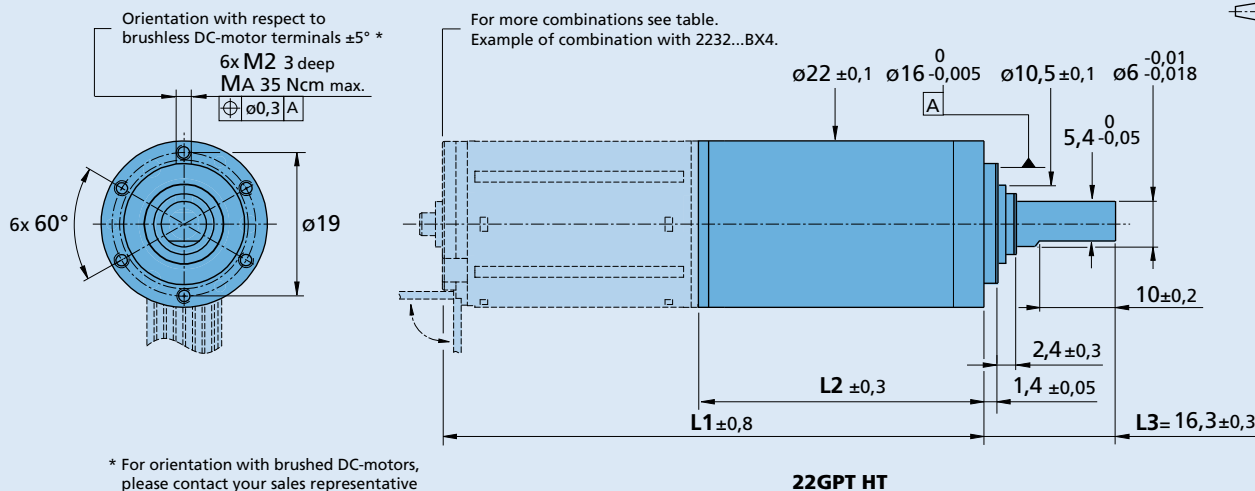
Note:

The display shows the range of possible operation points of the drives at a given ambient temperature of 22°C.

The diagram indicates the recommended output speed in relation to the available torque at the output shaft.



Dimensional drawing



Options

Example product designation: **22GPT HT 99:1 KS5KL1**

Option	Type	Description
KS1	Output shaft	Round plain shaft, L3= 16,3 mm
KS2	Output shaft	Longer round plain shaft, L3= 27 mm
KS3	Output shaft	Shaft with double flat shape of 12 mm length on opposite sides, L3= 21 mm
KS4	Output shaft	Shaft with DIN 6885-A keyway and mating key with dimensions 2x2x12 mm, L3= 21 mm
KS5	Output shaft	Shaft with 12 mm single flat shape, L3= 21 mm
KS7	Output shaft	Shaft with 10 mm single flat shape and M2.5 axial threaded hole, L3= 16,3 mm
KS9	Output shaft	Shaft with KS4 option and M2.5 axial threaded hole, L3= 21 mm
KP1	Ingress Protection	Gearhead with IP54 ingress protection rating (to be combined with specific protected motor)
KL1	Ambient conditions	Low temperature range of -55°C ... +100°C
KL2	Ambient conditions	Vacuum down to 10 ⁻⁵ Pa @ 22°C
KL3	Ambient conditions	Temperature range of -55°C ... +150°C and vacuum down to 10 ⁻³ Pa @ 60°C
KC1	Cable orientation	Motor cable/wires or terminals oriented at 15° CCW vs gearhead front threads
KC2	Cable orientation	Motor cable/wires or terminals oriented at 30° CCW vs gearhead front threads
KC3	Cable orientation	Motor cable/wires or terminals oriented at 45° CCW vs gearhead front threads

Note: Specified values may differ from the standard values depending on the option. Please consult your sales representative for further information.

Product combination

Number of gear stages	3	4
L2 [mm] = length without motor	38,4	44,8
L1 [mm] = length with motor	70,6	77,0
2232U...SR	75,4	81,8
2342X...CR	79,3	85,7
2642X...CR/CXR	82,7	89,1
2657X...CR/CXR	97,7	104,1
2668X...CR	108,7	115,1
2232X...BX4	71,1	77,5
2250X...BX4	89,1	95,5
2264X...BP4	104,7	111,1
2214X...BXTH	52,1	58,5
2214X...BXTR	51,3	57,7
3216X...BXTH	54,1	60,5
3216X...BXTR	53,3	59,7
2057X...B	94,3	100,7
2444X...B	81,3	87,7
AM2224...10	66,1	72,5