

Spur Gearheads

0,1 Nm

For combination with
DC-Micromotors
Stepper Motors

Series 22/2

	22/2	22/2K
Housing material	metal	metal
Geartrain material	metal	metal
Recommended max. input speed for:		
– continuous operation	4 000 min ⁻¹	4 000 min ⁻¹
Backlash, at no-load	≤ 3 °	≤ 3 °
Bearings on output shaft	sintered bearings	ball bearings, preloaded
Shaft load, max.:		
– radial (6 mm from mounting face)	≤ 3 N	≤ 100 N
– axial	≤ 5 N	≤ 5 N
Shaft press fit force, max.	≤ 50 N	≤ 5 N
Shaft play		
– radial (6 mm from mounting face)	≤ 0,05 mm	≤ 0,03 mm
– axial	≤ 0,2 mm	= 0 mm
Operating temperature range	- 30 ... + 100 °C	- 30 ... + 100 °C

Specifications

		2	3	4	5	6	7	8	9	10
Number of gear stages										
Continuous torque	mNm	100	100	100	100	100	100	100	100	100
Intermittent torque	mNm	400	400	400	400	400	400	400	400	400
Mass without motor, ca.	g	58	68	72	77	82	88	93	98	103
Efficiency, max.	%	90	86	81	73	66	59	53	48	43
Direction of rotation, drive to output		=	≠	=	≠	=	≠	=	≠	=
Reduction ratio ¹⁾ (rounded)		3,1:1 5,4:1	9,7:1	17,2:1 30,7:1	54,6:1 97,3:1	173:1 308:1	548:1 975:1	1 734:1 3 088:1	5 490:1 9 780:1	17 386:1 30 969:1
L2 [mm] = length without motor		40,8	46,6	49,5	52,4	55,3	58,2	61,1	64,0	66,9
L1 [mm] = length with motor										
	2224R...SR	45,4	50,0	53,6	56,5	59,4	62,3	65,2	68,1	71,0
	2230F/R...S	51,2	55,8	59,4	62,3	65,2	68,1	71,0	73,9	76,8
	2232R...SR	53,4	58,0	61,6	64,5	67,4	70,3	73,2	76,1	79,0
	2233F/R...S	53,8	58,4	62,0	64,9	67,8	70,7	73,6	76,5	79,4
	AM2224...-14	48,9	53,5	57,1	60,0	62,9	65,8	68,7	71,6	74,5

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

Note: Reduction ratios from 55 057:1 to 983 447:1 are available on request.

