Spur Gearheads

0,1 Nm

For combination with
DC-Micromotors

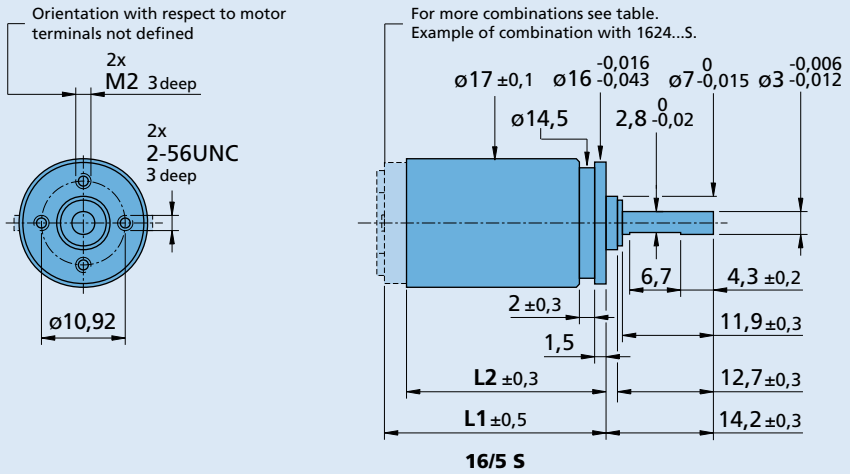
Series 16/5 S

	16/5 S
Housing material	metal
Geartrain material	steel
Recommended max. input speed for:	
– continuous operation	5 000 rpm
Backlash, at no-load	≤ 3 °
Bearings on output shaft	ball bearings, preloaded
Shaft load, max.:	
– radial (6,5 mm from mounting face)	≤ 25 N
– axial	≤ 5 N
Shaft press fit force, max.	≤ 5 N
Shaft play	
– radial (6,5 mm from mounting face)	≤ 0,02 mm
– axial	= 0 mm
Operating temperature range	- 30 ... + 100 °C

Specifications										
Number of gear stages		**2**	**3**	**4**	**4**	**5**	**5**	**6**	**6**	**7**
Continuous torque	mNm	60	60	100	100	100	100	100	100	100
Intermittent torque	mNm	150	150	300	150	300	150	300	150	300
Weight without motor, ca.	g	17	19	21	21	22	22	24	24	25
Efficiency, max.	%	81	73	66	66	59	59	53	53	48
Direction of rotation, drive to output		=	≠	=	=	≠	≠	=	=	≠
Reduction ratio [1] (rounded)		**6,3:1** **11,8:1**	**22:1** **41:1**	**76:1**	**141:1**	**262:1**	**485:1**	**900:1**	**1 670:1**	**3 101:1**
L2 [mm] = length without motor		26,2	29,9	32,0	32,0	34,1	34,1	36,2	36,2	38,3
L1 [mm] = length with motor 1624E...S		37,1	40,8	42,9	42,9	45,0	45,0	47,1	47,1	49,2

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

Note: The gearheads as S-type have all steel gears and heavy duty lubricant for extended lifetime performance.



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Shaft play	
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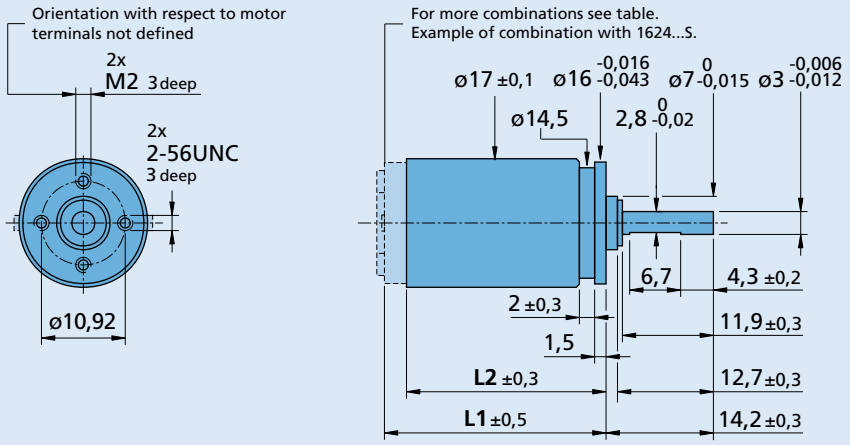
– axial	= 0 mm
Operating temperature range	- 30 ... + 100 °C

Specifications								
Number of gear stages		**7**	**8**	**8**	**9**	**9**	**10**	**10**
Continuous torque	mNm	100	100	100	100	100	100	100
Intermittent torque	mNm	150	300	150	300	150	300	150
Weight without motor, ca.	g	25	26	26	28	28	30	30
Efficiency, max.	%	48	43	43	39	39	35	35
Direction of rotation, drive to output		≠	=	=	≠	≠	=	=
Reduction ratio [1] (rounded)		**5 752:1**	**10 683:1**	**19 813:1**	**36 796:1**	**68 245:1**	**126 741:1**	**235 067:1**
L2 [mm] = length without motor		38,3	40,4	40,4	42,5	42,5	44,6	44,6
L1 [mm] = length with motor 1624E...S		49,2	51,3	51,3	53,4	53,4	55,5	55,5

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

Note: The gearheads as S-type have all steel gears and heavy duty lubricant for extended lifetime performance.



16/5 S

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