

Spur Gearheads

Zero Backlash

15 mNm

For combination with
DC-Micromotors
Brushless DC-Motors
Stepper Motors

Series 08/3

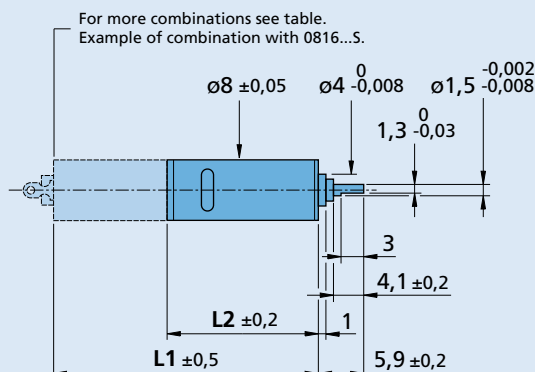
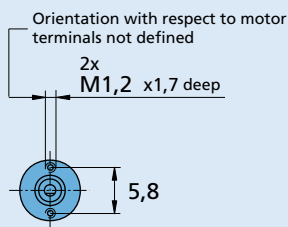
	08/3
Housing material	metal
Geartrain material	metal
Recommended max. input speed for:	
– continuous operation	8 000 min ⁻¹
Backlash, at no-load	0 °
Bearings on output shaft	ball bearings
Shaft load, max.:	
– radial (4,5 mm from mounting face)	≤ 5 N
– axial	≤ 3 N
Shaft press fit force, max.	≤ 5 N
Shaft play	
– radial (4,5 mm from mounting face)	≤ 0,06 mm
– axial	≤ 0,05 mm
Operating temperature range	- 30 ... + 100 °C

Specifications

Number of gear stages		6	7	8	9
Continuous torque	mNm	15	15	15	15
Intermittent torque	mNm	25	25	25	25
Mass without motor, ca.	g	4,5	4,9	5,3	5,7
Efficiency, max.		-	-	-	-
Direction of rotation, drive to output		=	≠	=	≠
Reduction ratio ¹⁾ (rounded)		120:1	279:1	650:1	1 518:1
L2 [mm] = length without motor		18,8	20,6	22,4	24,2
L1 [mm] = length with motor	0816D...SR	34,7	36,5	38,3	40,1
	0824D...B	42,9	44,7	46,5	48,3
	AM0820...-12	32,6	34,4	36,2	38,0

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.



Spur Gearheads

Zero Backlash

0,03 Nm

For combination with
DC-Micromotors
Brushless DC-Motors
Stepper Motors

Series 12/5

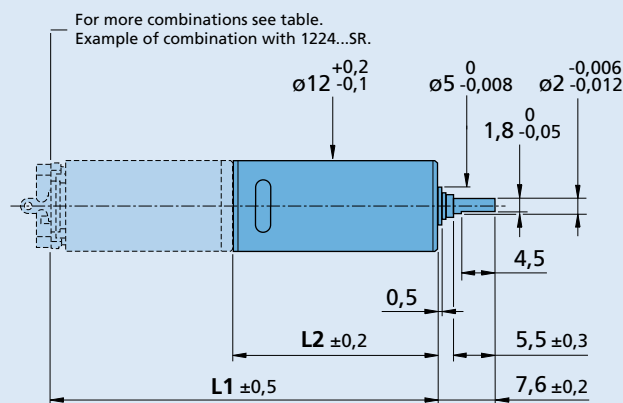
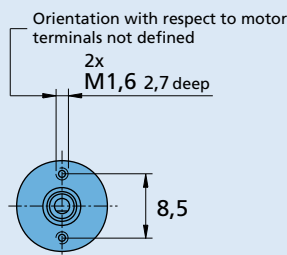
	12/5
Housing material	metal
Geartrain material	metal
Recommended max. input speed for:	
– continuous operation	5 000 min ⁻¹
Backlash, at no-load	0 °
Bearings on output shaft	ball bearings, preloaded
Shaft load, max.:	
– radial (4,5 mm from mounting face)	≤ 5 N
– axial	≤ 5 N
Shaft press fit force, max.	≤ 10 N
Shaft play	
– radial (4,5 mm from mounting face)	≤ 0,04 mm
– axial	= 0 mm
Operating temperature range	- 30 ... + 100 °C

Specifications

Number of gear stages		5	6	7	8	9	
Continuous torque	mNm	30	30	30	30	30	
Intermittent torque	mNm	100	100	100	100	100	
Mass without motor, ca.	g	11	12	13	14	15	
Efficiency, max.		-	-	-	-	-	
Direction of rotation, drive to output		≠	=	≠	=	≠	
Reduction ratio ¹⁾ (rounded)		69,2:1	161:1	377:1	879:1	2 050:1	
L2 [mm] = length without motor		18,7	20,8	22,9	25,0	27,1	
L1 [mm] = length with motor	1024E...S	42,4	44,5	46,6	48,7	50,8	
	1224E...SR	42,9	45,0	47,1	49,2	51,3	
	1028E...B	46,8	48,9	51,0	53,1	55,2	
	1218E...B	36,7	38,8	40,9	43,0	45,1	
	1226E...B	44,7	46,8	48,9	51,0	53,1	
	ADM1220S...-57	36,1	38,2	40,3	42,4	44,5	
	AM1020...-10	34,6	36,7	38,8	40,9	43,0	

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.



12/5

Spur Gearheads

Zero Backlash

0,1 Nm

For combination with
DC-Micromotors
Stepper Motors

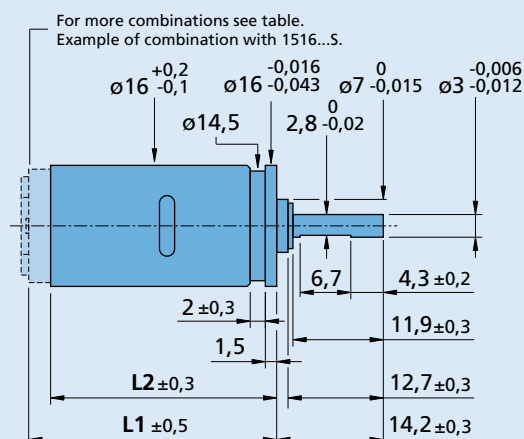
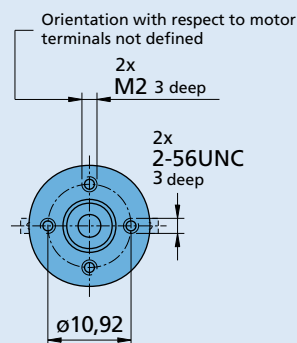
Series 15/8

	15/8
Housing material	metal
Geartrain material	steel
Recommended max. input speed for:	
– continuous operation	5 000 min ⁻¹
Backlash, at no-load	0 °
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)	≤ 0,03 mm
– axial	= 0 mm
Operating temperature range	- 30 ... + 100 °C

Specifications							
Number of gear stages		4	4	5	5	6	6
Continuous torque	mNm	100	100	100	100	100	100
Intermittent torque	mNm	300	150	300	150	300	150
Mass without motor, ca.	g	24	24	26	26	28	28
Efficiency, max.		-	-	-	-	-	-
Direction of rotation, drive to output		=	=	≠	≠	=	=
Reduction ratio ¹⁾ (rounded)		76:1	141:1	262:1	485:1	900:1	1 670:1
L2 [mm] = length without motor		32,0	32,0	34,1	34,1	36,2	36,2
L1 [mm] = length with motor	1516E...SR	34,9	34,9	37,0	37,0	39,1	39,1
	1524E...SR	42,9	42,9	45,0	45,0	47,1	47,1
	AM1524...-57	35,5	35,5	37,6	37,6	39,7	39,7

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.



15/8

Spur Gearheads

Zero Backlash

0,1 Nm

For combination with
DC-Micromotors

Series 16/8

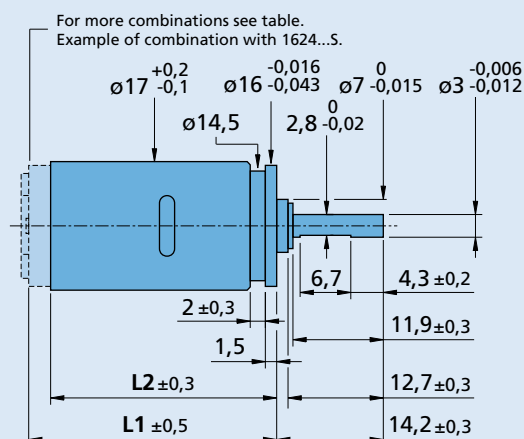
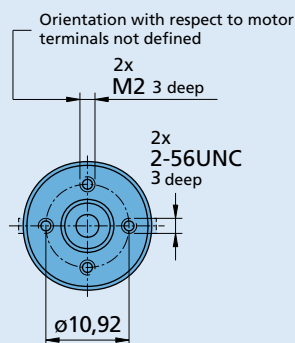
	16/8
Housing material	metal
Geartrain material	steel
Recommended max. input speed for:	
– continuous operation	5 000 min ⁻¹
Backlash, at no-load	0 °
Bearings on output shaft	ball bearings, preloaded
Shaft load, max.:	
– radial (6,5 mm from mounting face)	≤ 25 N
– axial	≤ 5 N
Shaft press fit force, max.	≤ 5 N
Shaft play	
– radial (6,5 mm from mounting face)	≤ 0,03 mm
– axial	= 0 mm
Operating temperature range	- 30 ... + 100 °C

Specifications

	4	4	5	5	6	6
Number of gear stages						
Continuous torque	mNm	100	100	100	100	100
Intermittent torque	mNm	300	150	300	150	300
Mass without motor, ca.	g	24	24	26	26	28
Efficiency, max.	-	-	-	-	-	-
Direction of rotation, drive to output	=	=	≠	≠	=	=
Reduction ratio ¹⁾ (rounded)	76:1	141:1	262:1	485:1	900:1	1 670:1
L2 [mm] = length without motor	32,0	32,0	34,1	34,1	36,2	36,2
L1 [mm] = length with motor 1624E...S	42,9	42,9	45,0	45,0	47,1	47,1

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.



16/8

Spur Gearheads

Zero Backlash

0,1 Nm

For combination with
DC-Micromotors
Stepper Motors

Series 22/5

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

Specifications

Number of gear stages		5	6	7	8	9
Continuous torque	mNm	100	100	100	100	100
Intermittent torque	mNm	400	400	400	400	400
Mass without motor, ca.	g	80	85	90	95	105
Efficiency, max.		-	-	-	-	-
Direction of rotation, drive to output		≠	=	≠	=	≠
Reduction ratio ¹⁾ (rounded)		69,2:1	161:1	377:1	879:1	2 050:1
L2 [mm] = length without motor		50,9	54,6	59,5	63,2	68,1
L1 [mm] = length with motor	2224R...SR	57,8	61,6	66,5	70,3	75,2
	2230F/R...S	63,6	67,4	72,3	76,1	81,0
	2232R...SR	65,8	69,6	74,5	78,3	83,2
	2233F/R...S	66,2	70,0	74,9	78,7	83,6
	AM2224...-14	61,4	65,2	70,1	73,9	78,8

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.

