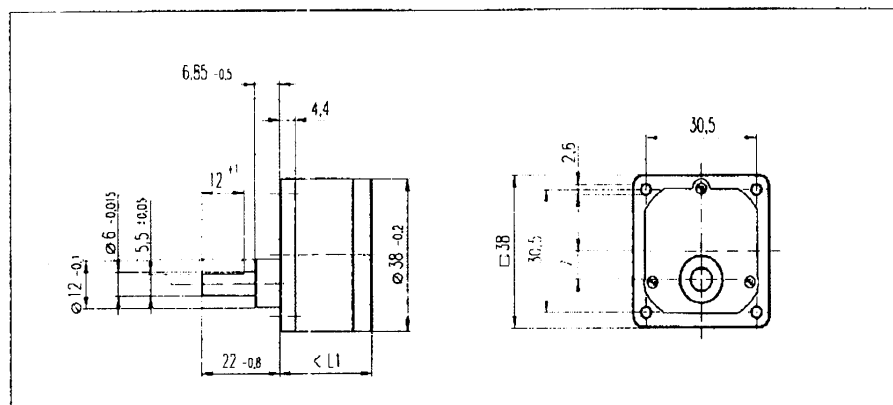


Spur Gearhead GS 38

Ø38 mm, 0.1-0.6 Nm



Technical Data

Spur Gearhead	straight teeth
Output shaft	stainless steel
Bearing at output	sleeve bearing
Radial play, 5 mm from bearing	max. 0.1 mm
Axial play	0.03 - 0.2 mm
Max. perm. radial load, 5 mm from bearing	50 N
Max. permissible axial load	30 N
Max. permissible force for press fits	500 N
Average backlash no load	2°
Backlash at nominal load torque	3°
Recommended input speed	< 5000 rpm
Recommended temperature range	-5/+80°C

Gearhead Data

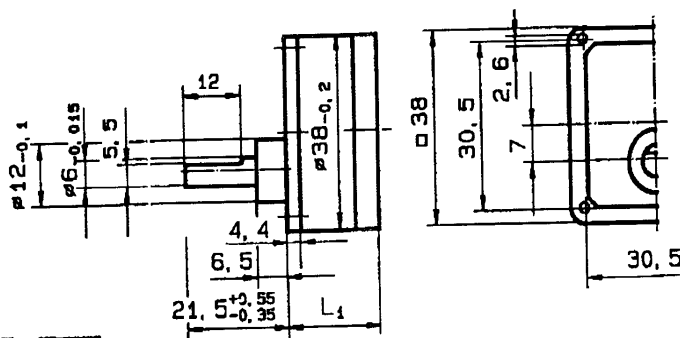
Order number		110451	110452	110453	110454	110455	110456	110457	110458	110459
1 Reduction		6 : 1	10 : 1	18 : 1	30 : 1	60 : 1	100 : 1	200 : 1	500 : 1	900 : 1
2 Reduction absolute		6	10	18	30	60	100	200	500	900
3 Number of stages		2	2	3	3	4	4	5	6	6
4 Max. continuous torque at gear output	Nm	0.1	0.1	0.2	0.2	0.6	0.6	0.6	0.6	0.6
5 Intermittently permissible torque at gear output	Nm	0.3	0.3	0.6	0.6	1.8	1.8	1.8	1.8	1.8
6 Sense of rotation, drive to output		=	=	≠	≠	=	=	≠	=	=
7 Max. efficiency	%	81	81	73	73	66	66	59	53	53
8 Weight	g	55	55	60	60	65	65	70	75	75
9 Gearhead length L1	mm	20.7	20.7	23.2	23.2	25.7	25.7	28.2	30.7	30.7



☒ Stock program
☐ Standard program
☐ Special program (on request!)

Combination

+ Motor	Page	+ Tacho	Page	Overall length [mm]							
S 2325, 6 W	71/72			65.4	65.4	67.9	67.9	70.4	70.4	72.9	75.4
S 2325, 6 W	72	DC-Tacho 22	173	86.7	86.7	89.2	89.2	91.7	91.7	94.2	96.7
S 2325, 6 W	72	Digital Encoder 22	174	81.3	81.3	83.8	83.8	86.3	86.3	88.8	91.3
S 2325, 6 W	72	Digital Encoder HED_55_	176/178	85.2	85.2	87.7	87.7	90.2	90.2	92.7	95.2
S 2332, 11 W	73/74			65.8	65.8	68.3	68.3	70.8	70.8	73.3	75.8
S 2332, 11 W	74	DC-Tacho 22	173	82.7	82.7	85.2	85.2	87.7	87.7	90.2	92.7
S 2332, 11 W	74	Digital Encoder 22	174	82.3	82.3	84.8	84.8	87.3	87.3	89.8	92.3
S 2332, 11 W	74	Digital Encoder HED_55_	177/179	85.5	85.5	88.0	88.0	90.5	90.5	93.0	95.5
F 2140, 4 W	88			64.7	64.7	67.2	67.2	69.7	69.7	72.2	74.7
F 2140, 6 W	89/90			68.7	68.7	71.2	71.2	73.7	73.7	76.2	78.7
F 2140, 6 W	90	Digital Encoder 22	175	86.3	86.3	88.8	88.8	91.3	91.3	93.8	96.3
A-mat: 26	109-116			65.4	65.4	67.9	67.9	70.4	70.4	72.9	75.4
A-mat: 26	109-115	Digital Magnetic Encoder 13	184	72.5	72.5	75.0	75.0	77.5	77.5	80.0	82.5
A-mat: 26	110-116	Digital Encoder 22	175	79.9	79.9	82.4	82.4	84.9	84.9	87.4	89.9
A-mat: 26	110-116	Digital Encoder HED_55_	177/179	83.8	83.8	86.3	86.3	88.8	88.8	91.3	93.8
A-mat: 32	117-119			80.7	80.7	83.2	83.2	85.7	85.7	88.2	90.7
A-mat: 32	118/120	Digital Encoder HED_55_	177/179	99.1	99.1	101.6	101.6	104.1	104.1	106.6	109.1



Spur gearhead	straight teeth
Bearing at output	sleeve bearing
Radial play, 12 mm from flange	0.1 mm
Axial play	0.05–0.2 mm
Max. perm. radial load, 16 mm from flange	50 N
Max. permissible axial load	30 N
Max. permissible force for press fits	500 N
Average backlash no load	2°
Backlash at nominal load torque	3°
Efficiency per stage	~ 90%
Recommended input speed	< 5000 rpm
Recommended temperature range	-5/+80°C

Gearhead Order Number	Reduction	No. of stages	max. Torque		Sense of direction	g	L ₁ mm	L ₂ mm	L ₃ mm	L ₄ mm	L ₅ mm	L ₆ mm	L ₇ mm	L ₈ mm	L ₉ mm
			contin- uous Nm	inter- mittent Nm											
293E.802-0006.0-000	6:1	2	0.1	0.3	=	55	20.7	65.4	86.7	81.5	85.15	65.75	82.65	81.6	85.5
293E.802-0010.0-000	10:1	2	0.1	0.3	=	55	20.7	65.4	86.7	81.5	85.15	65.75	82.65	81.6	85.5
293E.803-0018.0-000	18:1	3	0.2	0.6	≠	60	23.2	67.9	89.2	84.0	87.65	68.25	85.15	84.1	88.0
293E.803-0030.0-000	30:1	3	0.2	0.6	≠	60	23.2	67.9	89.2	84.0	87.65	68.25	85.15	84.1	88.0
293E.804-0060.0-000	60:1	4	0.3	0.9	=	65	25.7	70.4	91.7	86.5	90.15	70.75	87.65	86.6	90.5
293E.804-0100.0-000	100:1	4	0.6	1.8	=	65	25.7	70.4	91.7	86.5	90.15	70.75	87.65	86.6	90.5
293E.805-0200.0-000	200:1	5	0.6	1.8	≠	70	28.2	72.9	94.2	89.0	92.65	73.25	90.15	89.1	93.0
293E.806-0500.0-000	500:1	6	0.6	1.8	=	75	30.7	75.4	96.7	91.5	95.15	75.75	92.65	91.6	95.5
293E.806-0900.0-000	900:1	6	0.6	1.8	=	75	30.7	75.4	96.7	91.5	95.15	75.75	92.65	91.6	95.5

+ Tacho/Encoder

Technical drawing of a shaft with a keyway. The drawing shows a cross-section of the shaft with a keyway. The dimension L_3 is indicated for the length of the shaft section, and L_4 is indicated for the length of the keyway.

Technical drawing of a shaft with a dimension $L.5$ indicated.

Technical drawing of a shaft-hub assembly. The drawing shows a shaft with a keyway inserted into a hub. The length of the hub, labeled L_{gi} , is indicated by a dimension line below the assembly.

Technical drawing of a shaft with a keyway. A dimension line below the shaft indicates a length l_7 from the left end to the start of the keyway.

Technical drawing of a mechanical part, labeled '9'. It shows a cross-section of a cylindrical component with a central hole and a smaller hole on the left side.

28 22 . 800

34	16	.	...
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34	07	...
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28 22 . 80

34	16	..
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34	07	.	.
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May 88 edition/subject to change