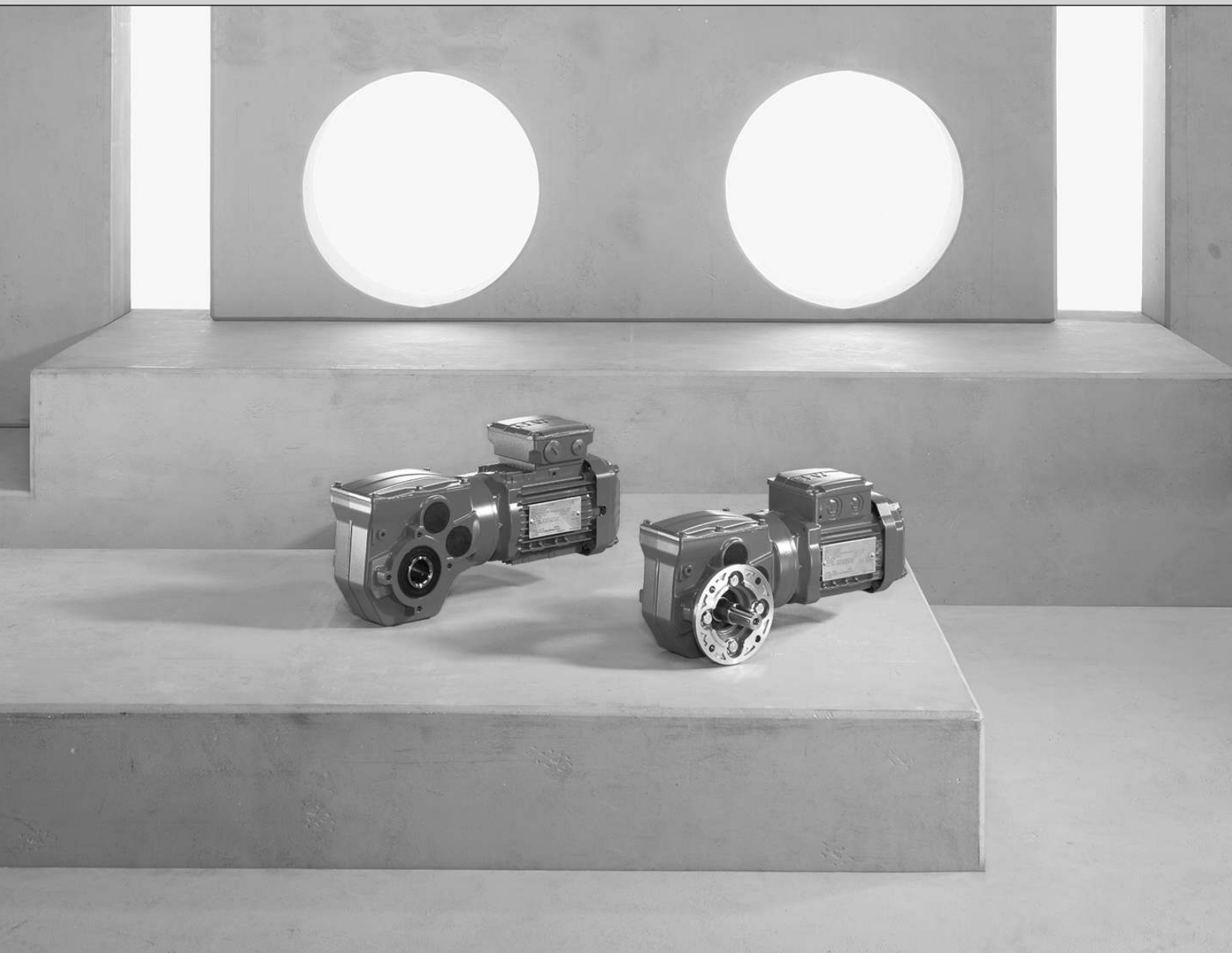




SEW
EURODRIVE

Addendum to the Catalog



DRN.. Gearmotors (IE3)

W..29HG – W..59HG DRN.. Gearmotors



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1 Product features

1.1 SPIROPLAN® right-angle gear units of the W..9HG series

SPIROPLAN® W..9HG right-angle gear units are space-saving and extra-light drives for particularly slow-running applications. What makes the W..9HG right-angle gear units stand out is the wear-free SPIROPLAN® gearing. It ensures reliable power transmission and speed adjustment for your conveying system. Thanks to this gearing, the W..9HG right-angle gear units deliver gear ratio ranges from approximately $i = 200$ to $i = 2400$, depending on the gear unit size.

The steel-steel material combination of the gearing and the special tooth meshing ratio enable a short gear unit design, resulting in space-saving drive installation. This makes the SPIROPLAN® W..9HG right-angle gear units significantly more compact than the corresponding compound gear units that are normally used for large gear ratios.

Thanks to the aluminum housing, the SPIROPLAN® right-angle gear units are truly lightweight solutions and the lubrication for life ensures that they require very little maintenance. These gear units are optimized for long-term, reliable operation. In addition, the many design variants mean that SPIROPLAN® right-angle gear units are suitable for nearly all drive tasks.

1.2 Operating temperatures

Gear units and gearmotors from SEW-EURODRIVE are suitable for use in a wide range of ambient temperatures.

When filling the gear units in accordance with the lubricant table, the following standard temperature ranges are permitted:

Gear unit	Filling with	Permitted standard temperature range
W..29HG – W..59HG	CLP PG VG460	-20 °C to +40 °C

The rated data of the gear units and gearmotors specified in the catalog refer to an ambient temperature of +25 °C.

Gear units from SEW-EURODRIVE can be operated outside the standard temperature range if project planning is adapted to ambient temperatures from as low as up to -40 °C in the intensive cooling range up to +60 °C. Project planning must take special operating conditions into account and adapt the drive to the ambient conditions by selecting suitable lubricants and seals.

SEW-EURODRIVE recommends thermal project planning for the drives in general and offers to perform the project planning.

1.3 Especially low output speeds without primary gear unit

Thanks to their large gear ratio range, the W..9HG gear units enable especially low rotational speeds without a primary gear unit.

1.4 Type designation of a W..9HG gear unit

1

An example of the designation of a SPIROPLAN® right-angle gear unit with extended gear ratio range:

WA59HG	
W..	Gear unit type
A	Gear unit design
59	Gear unit size
HG	Identification for extended gear ratio range

1.5 W..9HG gear unit designs

Designation	Description
WF..	B5 flange-mounted design, output shaft with key
WAF..	B5 flange-mounted design and hollow shaft with keyway
WA..	Hollow shaft with keyway
WH..	Hollow shaft with shrink disk
WHF..	B5 flange-mounted design and hollow shaft with shrink disk
WT..	Hollow shaft with TorqLOC® hollow shaft mounting system

1.6 Overview of the technical data

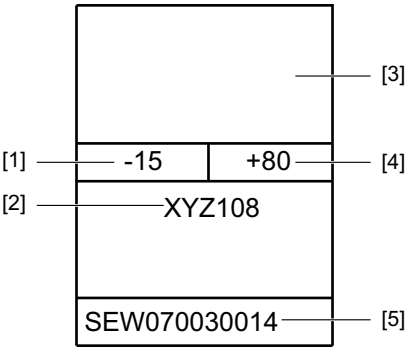
- 4 gear unit sizes: W..29HG / W..39HG / W..49HG / W..59HG
- Permitted output torques M_{amax} of 130 – 600 Nm
- Combination with DR.63 and DR.71 motor sizes

Size	M_{amax} in Nm	Gear ratio range
W..29HG	130	203.19 – 2100.14
W..39HG	200	233.35 – 2355.20
W..49HG	400	224.25 – 2426.20
W..59HG	600	262.28 – 2123.38

1.7 Lubricants

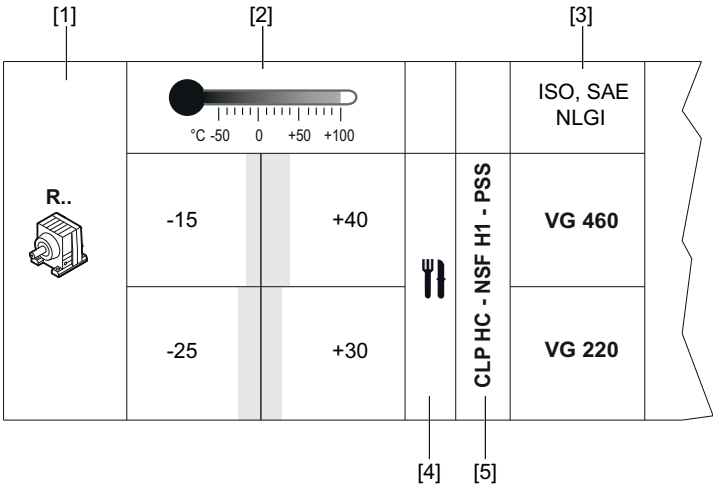
Unless a special arrangement is made, SEW-EURODRIVE supplies the drives with a lubricant fill adapted for the specific gear unit and mounting position. The decisive factor is the mounting position specified when ordering the drive. If you change the mounting position later, you must adapt the lubricant fill quantity accordingly.

1.7.1 Information on the various lubricants



- [1] Lowest oil sump temperature in °C, going below this value during operation is not permitted.
- [2] Trade name
- [3] Manufacturer
- [4] Highest oil sump temperature in °C. The service life will be considerably reduced when this temperature is exceeded. Adhere to the lubricant change intervals in chapter "Current lubricant change intervals" in the operating instructions.
- [5] Approvals regarding compatibility of the lubricant with approved oil seals

1.7.2 Information on the table structure



18014416412986635

- [1] Gear unit type
- [2] Ambient temperature range
- [3] Viscosity class
- [4] Information about special approvals
- [5] Lubricant type

The specified ambient temperatures are guide values for selecting a suitable lubricant. The exact upper and lower temperature limits for project planning are specified in the table with the respective trade name. Bear in mind during project planning that the viscosity increases at low temperatures and that this might influence the starting behavior.

1.7.3 Lubricant compatibility with oil seals

Approval	Explanation
SEW07004_13:	A lubricant especially recommended with regard to compatibility with the approved oil seals. The lubricant exceeds the state-of-the-art requirements regarding elastomer compatibility.

Permitted application temperature range of the oil seals

In the low temperature range, oil seals can withstand shaft deflections (e.g. through overhung load) only to a limited extent. Take special care to avoid or limit pulsating and changing radial displacements of the shaft. Contact SEW-EURODRIVE if necessary.

Oil seal Material class	Permitted Oil sump temperature
NBR	-40 °C to +80 °C
FKM	-25 °C to +115 °C
FKM-PSS	-25 °C to +115 °C

Restrictions of use of oil seals with the specific lubricant are described in the following table:

Material class			Manufacturer		Material	
S	1	NBR	1	Freudenberg		72 NBR 902
			2	Trelleborg		4NV11
	2	FKM	1	Freudenberg	1	75 FKM 585
					2	75 FKM 170055
			2	Trelleborg	1	VCBVR
			3	SKF	1	FKM 00934

Examples:

S11: Only the elastomer 72NBR902 from Freudenberg meets the approval requirements in conjunction with the specific lubricant.

S2: Only the elastomer FKM meets the approval requirements in conjunction with the specific lubricant.

1 Product features

Lubricants

1.7.4 Lubricants for W..9HG gear units

The lubricant table is valid on the day this document is published. See www.sew-eurodrive.de/lubricants for the latest tables.

Observe the thermal limits of the oil seal materials; see chapter "Lubricant compatibility with oil seals".

W..0 HW..0 W..9HG	[3] °C -50 0 +50 +100	[1] Ex	[2] CLP PG	ISO, SAE NLGI	SEW EURODRIVE	b remer & leguit	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	Shell	SINOPEC	TotalEnergies
W..0 HW..0 W..9HG	+60	Ex	CLP PG	VG 460	GearOil Poly 460 W E1								
	+20	Ex	CLP PG NSF H1 (PSS)	VG 460	GearOil Poly 460 H1 E1								
	-20	Ex	CLP PG NSF H1 (PSS)	VG 150	GearOil Poly 150 H1 E1								
	-40	Ex	APL GL5	SAE 75W/90 (~VG 100)	GearOil Poly 75W/90								

[1] Information about special approvals
[2] Oil type

[3] Ambient temperature range
[4] Default

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1.7.5 Lubricant fill quantities for WF..9HG, WA..9HG, WAF..9HG, WH..9HG, WHF..9HG, WT..9HG

Gear unit	Fill quantity in liters					
	M1	M2	M3	M4	M5	M6
W..19HG		0.34		0.51		0.51
W..29HG		0.54		0.78		0.72
W..39HG		0.85		1.35		1.25
W..49HG		1.39		2.19		2.15
W..59HG		2.0		3.04		3.0

2 Geometrically possible combinations for W..9HG DRN..

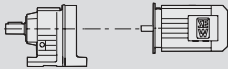
WA29HG, $n_e=1400 \text{ min}^{-1}$					130 Nm
n_a min^{-1}	M_{amax} Nm	F_{Ra} N	$\Phi_{(R)}$ °	i	DRN 63MS 63M 71MS 71M
 3					
0.67	130	3500	-	2100.14	
0.96	130	3500	-	1465.23	
1.3	130	3500	-	1096.44	
1.3	130	3500	-	1042.71	
1.8	130	3500	-	764.97	
2.0	130	3500	-	694.66	
2.6	130	3500	-	544.38	
2.9	130	3500	-	484.65	
3.4	130	3500	-	409.26	
3.9	130	3500	-	362.67	
4.1	130	3500	-	344.90	
4.9	130	3500	-	285.53	
5.5	130	3500	-	253.03	
6.6	130	3500	-	213.66	
6.9	130	3500	-	203.19	

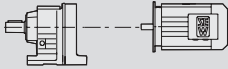
WA39HG, $n_e=1400 \text{ min}^{-1}$					200 Nm
n_a min^{-1}	M_{amax} Nm	F_{Ra} N	$\Phi_{(R)}$ °	i	DRN 63MS 63M 71MS 71M
 3					
0.59	200	4500	-	2355.20	
0.89	200	4500	-	1580.24	
1.0	200	4500	-	1371.28	
1.1	200	4500	-	1228.80	
1.3	200	4500	-	1088.00	
1.5	200	4500	-	920.07	
1.7	200	4500	-	824.47	
2.0	200	4500	-	715.45	
2.3	200	4500	-	597.33	
2.5	200	4500	-	567.65	
2.9	200	4500	-	480.04	
3.5	200	4500	-	400.78	
4.0	200	4500	-	347.79	
4.2	200	4500	-	330.51	
5.1	200	4500	-	275.94	
6.0	200	4500	-	233.35	

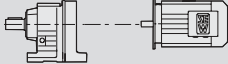
WA49HG, $n_e=1400 \text{ min}^{-1}$					400 Nm
n_a min^{-1}	M_{amax} Nm	F_{Ra} N	$\Phi_{(R)}$ °	i	DRN 63MS 63M 71MS 71M
 3					
0.58	400	6000	-	2426.20	
0.77	400	6000	-	1811.30	
0.89	400	6000	-	1571.89	
1.1	400	6000	-	1315.60	
1.2	400	6000	-	1173.52	
1.4	400	6000	-	982.18	
1.7	400	6000	-	842.08	
1.9	400	6000	-	727.04	
2.0	400	6000	-	704.79	
2.1	400	6000	-	666.34	
2.3	400	6000	-	608.50	
2.4	400	6000	-	592.30	
2.8	400	6000	-	497.47	
3.2	400	6000	-	442.20	
3.3	400	6000	-	418.60	
3.9	400	6000	-	356.97	
4.4	400	6000	-	317.31	
4.5	400	6000	-	312.51	
4.5	400	6000	-	308.20	
5.1	400	6000	-	273.96	
6.2	400	6000	-	224.25	

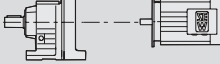
WA59HG, $n_e=1400 \text{ min}^{-1}$					600 Nm
n_a min^{-1}	M_{amax} Nm	F_{Ra} N	$\Phi_{(R)}$ °	i	DRN 63MS 63M 71MS 71M
 3					
0.66	600	8000	-	2123.38	
0.93	600	8000	-	1509.38	
0.97	600	8000	-	1444.60	
1.4	600	8000	-	1026.87	
1.6	600	8000	-	887.64	
1.9	600	8000	-	748.40	
2.2	600	8000	-	630.97	
2.6	600	8000	-	531.99	
3.0	600	8000	-	461.23	
3.8	600	8000	-	368.98	
4.3	600	8000	-	327.86	
5.3	600	8000	-	262.28	

3 Selection tables for W..9HG DRN.. in kW

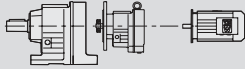
P _m = 0.09 kW										
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
1.2	540	748.40	8000	1.10	WA WAF WF	59HG 59HG 59HG	DRN DRN DRN	63MR6 63MR6 63MR6	20	28
1.5	435	630.97	8000	1.35					22	27
1.7	385	531.99	8000	1.55					23	27
2.0	365	461.23	8000	1.65						
2.5	300	368.98	8000	2.0						
2.8	260	327.86	8000	2.3						
3.5	210	262.28	8000	2.8						
1.4	475	666.34	5690	0.85	WA WAF WF	49HG 49HG 49HG	DRN DRN DRN	63MR6 63MR6 63MR6	16	25
1.6	440	592.30	6000	0.90					17	24
1.9	355	497.47	6000	1.10					18	24
2.1	330	442.20	6000	1.20						
2.2	330	418.60	6000	1.20						
2.6	255	356.97	6000	1.55						
2.9	235	317.31	6000	1.70						
2.9	245	312.51	6000	1.60						
3.0	220	308.20	6000	1.80						
3.4	200	273.96	6000	1.95						
4.1	176	224.25	6000	2.3						
2.6	240	347.79	4110	0.80	WA WAF WF	39HG 39HG 39HG	DRN DRN DRN	63MR6 63MR6 63MR6	12	22
3.9	162	233.35	4500	1.25					13	20
									13	20
3.6	162	253.03	3000	0.80	WA WAF WF	29HG 29HG 29HG	DRN DRN DRN	63MR6 63MR6 63MR6	9.8	18
4.3	161	213.66	3020	0.80					10	16
4.5	153	203.19	3150	0.85					10	16

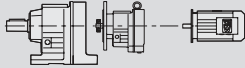
P _m = 0.12 kW														
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg					
1.3	570	1026.87	8000	1.05	WA WAF WF	59HG 59HG 59HG	DRN DRN DRN	63MS4 63MS4 63MS4	19	28				
1.6	565	887.64	8000	1.05					21	27				
1.8	500	748.40	8000	1.20					22	27				
2.2	405	630.97	8000	1.50										
2.6	355	531.99	8000	1.70										
3.0	330	461.23	8000	1.80										
3.7	270	368.98	8000	2.2										
4.2	235	327.86	8000	2.5										
5.3	194	262.28	8000	3.1										
1.6	425	842.08	6000	0.95	WA WAF WF	49HG 49HG 49HG	DRN DRN DRN	63MS4 63MS4 63MS4	15	25				
1.9	365	727.04	6000	1.10					16	24				
2.0	380	704.79	6000	1.05					17	24				
2.1	435	666.34	6000	0.90										
2.3	330	608.50	6000	1.20										
2.3	405	592.30	6000	1.00										
2.8	325	497.47	6000	1.20										
3.1	300	442.20	6000	1.30										
3.3	300	418.60	6000	1.35										
3.9	235	356.97	6000	1.70										
4.3	215	317.31	6000	1.85										
4.4	220	312.51	6000	1.80										
4.5	200	308.20	6000	1.95										
5.0	187	273.96	6000	2.1										
6.2	161	224.25	6000	2.5										
2.9	235	480.04	3970	0.85					WA WAF WF	39HG 39HG 39HG	DRN DRN DRN	63MS4 63MS4 63MS4	11	22
4.0	220	347.79	4240	0.90									12	20
4.2	163	330.51	4480	1.25	13	20								
5.0	177	275.94	4360	1.10										
5.9	150	233.35	4500	1.35										
5.5	151	253.03	3180	0.85	WA WAF WF	29HG 29HG 29HG	DRN DRN DRN	63MS4 63MS4 63MS4	9.0	18				
6.5	147	213.66	3240	0.90					9.2	16				
6.8	140	203.19	3350	0.90					9.6	16				

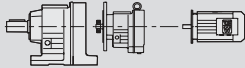
P _m = 0.18 kW										
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
1.8	750	748.40	6600	0.80	WA WAF WF	59HG 59HG 59HG	DRN DRN DRN	63M4 63M4 63M4	20 22 23	28 27 27
2.2	605	630.97	7840	1.00						
3.0	500	461.23	8000	1.20						
3.7	410	368.98	8000	1.45						
4.2	355	327.86	8000	1.70						
5.2	290	262.28	8000	2.0						
2.8	490	497.47	5500	0.80	WA WAF WF	49HG 49HG 49HG	DRN DRN DRN	63M4 63M4 63M4	16 17 18	25 24 24
3.1	455	442.20	5910	0.90						
3.3	450	418.60	5940	0.90						
4.3	325	317.31	6000	1.20						
4.4	335	312.51	6000	1.20						
5.0	280	273.96	6000	1.40						
6.1	240	224.25	6000	1.65						
5.9	225	233.35	4050	0.90	WA WAF WF	39HG 39HG 39HG	DRN DRN DRN	63M4 63M4 63M4	12 13 13	22 20 20

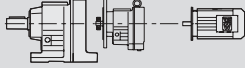
P _m = 0.25 kW										
n _a min ⁻¹	M _a Nm	i	F _{Ra} ¹⁾ N	SEW f _B					m kg	
2.6	730	531.99	6840	0.80	WA WAF WF	59HG	DRN	71MS4	21	28
3.0	685	461.23	7240	0.90		59HG	DRN	71MS4	22	27
3.8	560	368.98	8000	1.05		59HG	DRN	71MS4	24	27
4.3	485	327.86	8000	1.25						
5.4	395	262.28	8000	1.50						
3.9	480	356.97	5620	0.85	WA WAF WF	49HG	DRN	71MS4	17	25
4.4	445	317.31	5950	0.90		49HG	DRN	71MS4	18	24
4.5	455	312.51	5860	0.85		49HG	DRN	71MS4	18	24
4.6	415	308.20	6000	0.95						
5.1	380	273.96	6000	1.05						
6.3	325	224.25	6000	1.20						

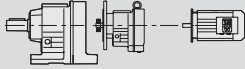
4 Selection tables for W..9HG DRN.. with low output speeds in Nm

$M_{a \max} = 130 \text{ Nm}$							
n_a min ⁻¹	i	$F_{Ra}^{1)}$ N					m kg 
0.66	2100.14	3440					
0.94	1465.23	3440					
1.3	1096.44	3440					
1.3	1042.71	3440					
1.8	764.97	3440					
2.0	694.66	3440					
2.5	544.38	3440	WA	29HG	DRN	63MS4	9.0 18
2.9	484.65	3440	WAF	29HG	DRN	63MS4	9.2 16
3.4	409.26	3440	WF	29HG	DRN	63MS4	9.6 16
3.8	362.67	3440					
4.0	344.90	3440					
4.8	285.53	3440					
5.5	253.03	3440					
6.5	213.66	3440					
6.8	203.19	3440					

$M_{a \max} = 200 \text{ Nm}$							
n_a min ⁻¹	i	$F_{Ra}^{1)}$ N					m kg 
0.59	2355.20	4410					
0.87	1580.24	4260					
1.0	1371.28	4410					
1.1	1228.80	4410					
1.3	1088.00	4170					
1.5	920.07	4260	WA	39HG	DRN	63MS4	11 22
1.7	824.47	4260	WAF	39HG	DRN	63MS4	12 20
1.9	715.45	4410	WF	39HG	DRN	63MS4	13 20
2.3	597.33	4410					
2.4	567.65	4170					
2.9	480.04	4260					
3.4	400.78	4260					
4.0	347.79	4410					
4.2	330.51	4170	WA	39HG	DRN	63M4	12 22
5.0	275.94	4170	WAF	39HG	DRN	63M4	13 20
5.9	233.35	4260	WF	39HG	DRN	63M4	13 20

$M_{a \max} = 400 \text{ Nm}$							
n_a min ⁻¹	i	$F_{Ra}^{1)}$ N					m kg 
0.57	2426.20	6000					
0.76	1811.30	6000					
0.88	1571.89	6000	WA	49HG	DRN	63MS4	15 25
1.1	1315.60	6000	WAF	49HG	DRN	63MS4	16 24
1.2	1173.52	6000	WF	49HG	DRN	63MS4	17 24
1.4	982.18	6000					
1.6	842.08	6000					
1.9	727.04	6000	WA	49HG	DRN	63M4	16 25
1.9	704.79	6000	WAF	49HG	DRN	63M4	17 24
			WF	49HG	DRN	63M4	18 24
2.1	666.34	6000	WA	49HG	DRN	63MS4	15 25
			WAF	49HG	DRN	63MS4	16 24
			WF	49HG	DRN	63MS4	17 24
2.3	608.50	6000	WA	49HG	DRN	63M4	16 25
			WAF	49HG	DRN	63M4	17 24
			WF	49HG	DRN	63M4	18 24
2.3	592.30	6000	WA	49HG	DRN	63MS4	15 25
			WAF	49HG	DRN	63MS4	16 24
			WF	49HG	DRN	63MS4	17 24
2.8	497.47	6000	WA	49HG	DRN	63M4	16 25
3.1	442.20	6000	WAF	49HG	DRN	63M4	17 24
3.3	418.60	6000	WF	49HG	DRN	63M4	18 24

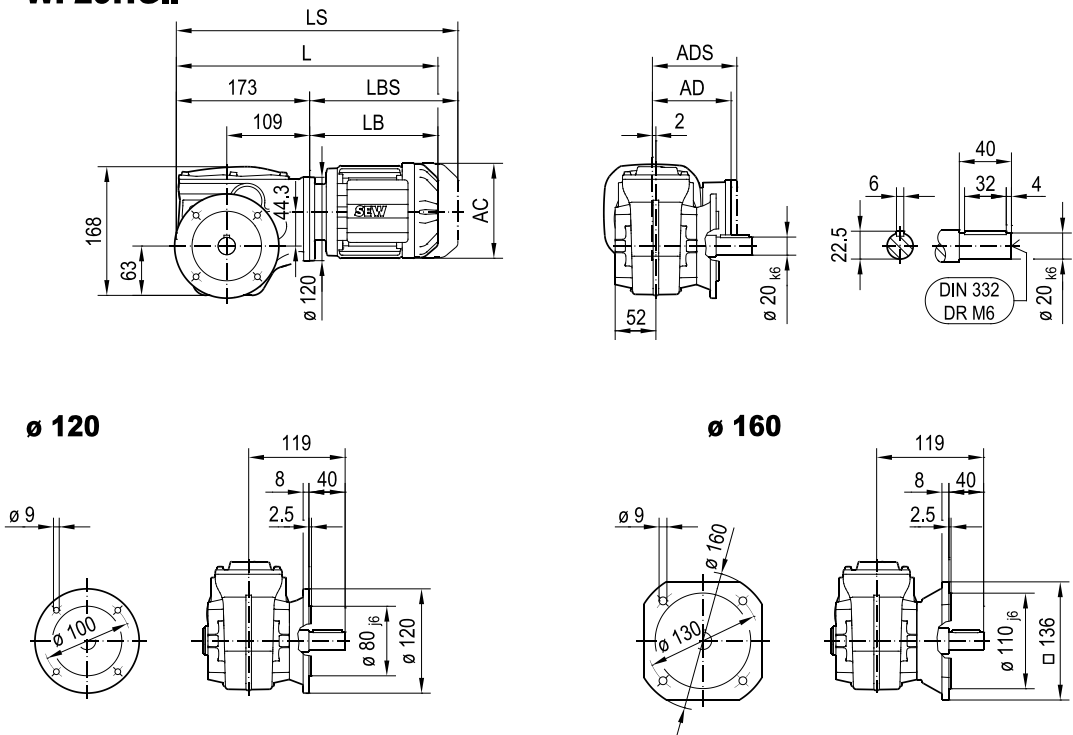
M_{a max} = 400 Nm								
n_a min⁻¹	i	F_{Ra}¹⁾ N					m kg	
3.9	356.97	6000	WA	49HG	DRN	71MS4	17	25
4.4	317.31	6000	WAF	49HG	DRN	71MS4	18	24
4.5	312.51	6000	WF	49HG	DRN	71MS4	18	24
4.6	308.20	6000						
5.2	273.96	6000	WA	49HG	DRN	71M4	18	25
6.3	224.25	6000	WAF	49HG	DRN	71M4	19	24
			WF	49HG	DRN	71M4	20	24

M_{a max} = 600 Nm								
n_a min⁻¹	i	F_{Ra}¹⁾ N					m kg	
0.65	2123.38	7920	WA	59HG	DRN	63MS4	19	28
0.91	1509.38	7920	WAF	59HG	DRN	63MS4	21	27
0.96	1444.60	7920	WF	59HG	DRN	63MS4	22	27
1.3	1026.87	7920	WA	59HG	DRN	63M4	20	28
1.6	887.64	7920	WAF	59HG	DRN	63M4	22	27
1.8	748.40	7920	WF	59HG	DRN	63M4	23	27
2.2	630.97	7920						
2.6	531.99	7920	WA	59HG	DRN	71MS4	21	
3.0	461.23	7920	WAF	59HG	DRN	71MS4	22	27
			WF	59HG	DRN	71MS4	24	
3.8	368.98	7920	WA	59HG	DRN	71M4	22	
4.3	327.86	7920	WAF	59HG	DRN	71M4	23	27
			WF	59HG	DRN	71M4	25	

5 Dimension sheets for W..9HG DRN.. in mm

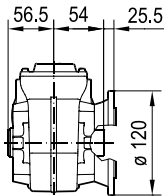
20 181 01 23

WF29HG..

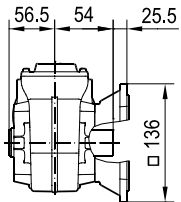


WAF29HG..

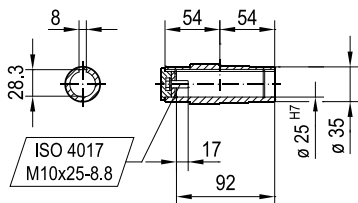
$\varnothing 120$



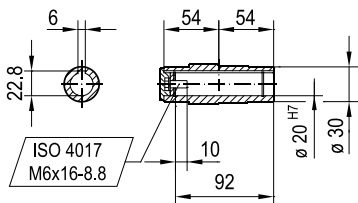
$\varnothing 160$



$\varnothing 25$ H7



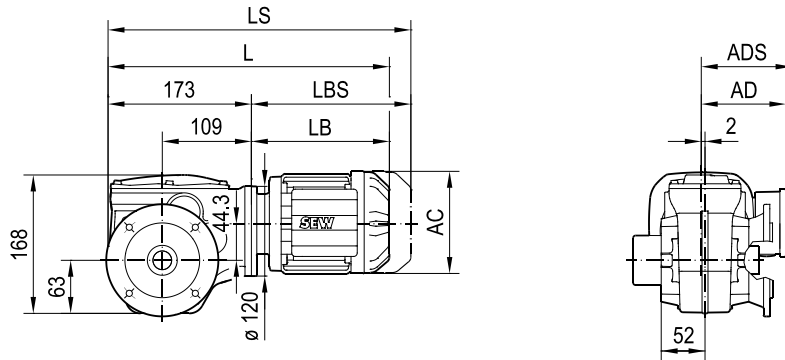
$\varnothing 20$ H7



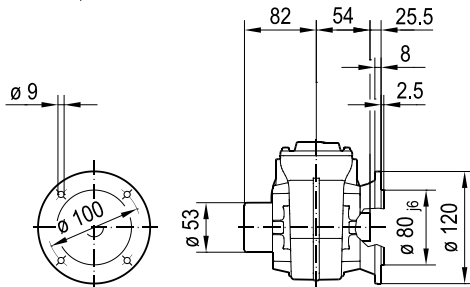
(→ 7.3)	DRN						
	63MS	63M					
AC	115	115					
AD	98	98					
ADS	98	98					
L	361	375					
LS	417	431					
LB	188	202					
LBS	244	258					

20 183 01 23

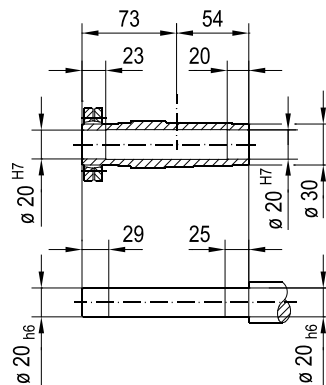
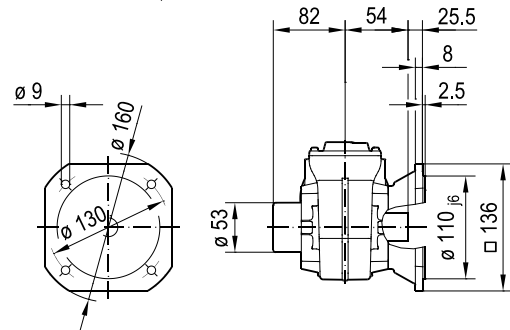
WHF29HG..



$\phi 120$

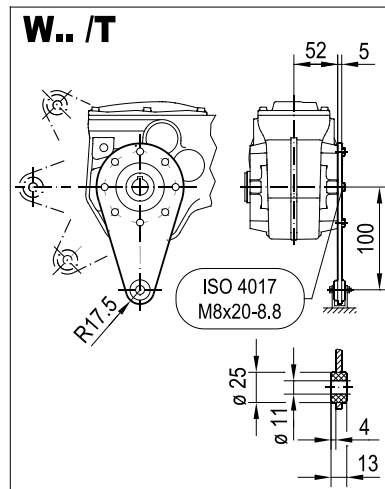
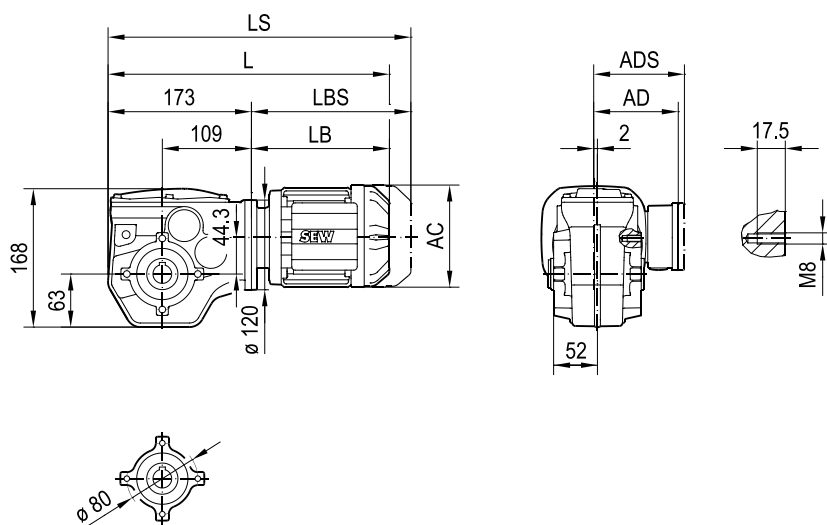
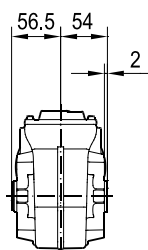
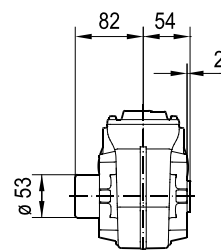
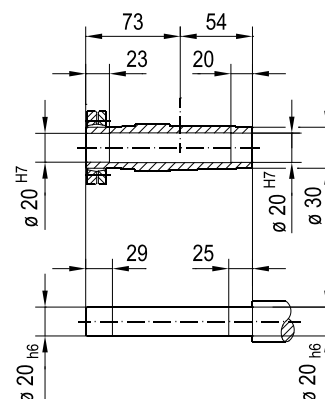
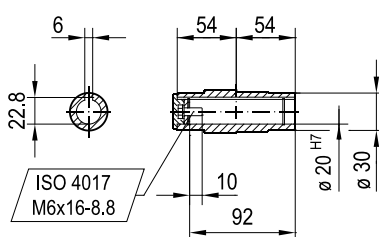
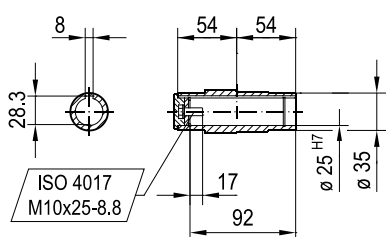


$\phi 160$



($\rightarrow$ 7.3)	DRN							
	63MS	63M						
AC	115	115						
AD	98	98						
ADS	98	98						
L	361	375						
LS	417	431						
LB	188	202						
LBS	244	258						

20 187 01 23

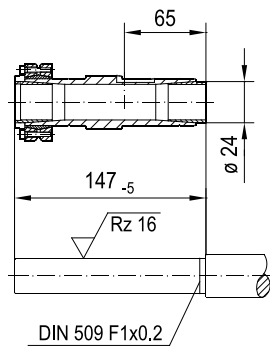
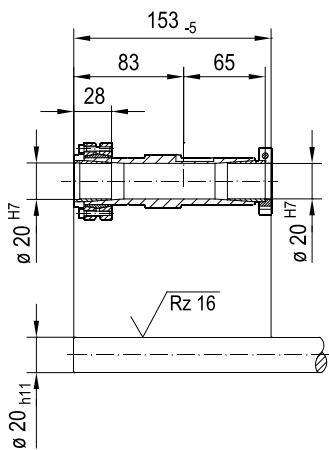
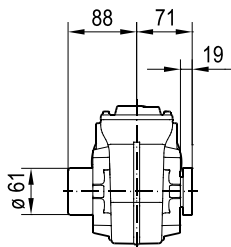
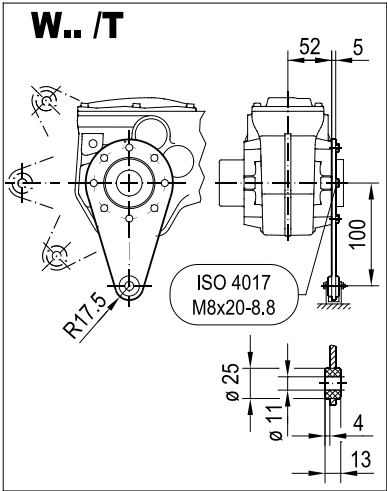
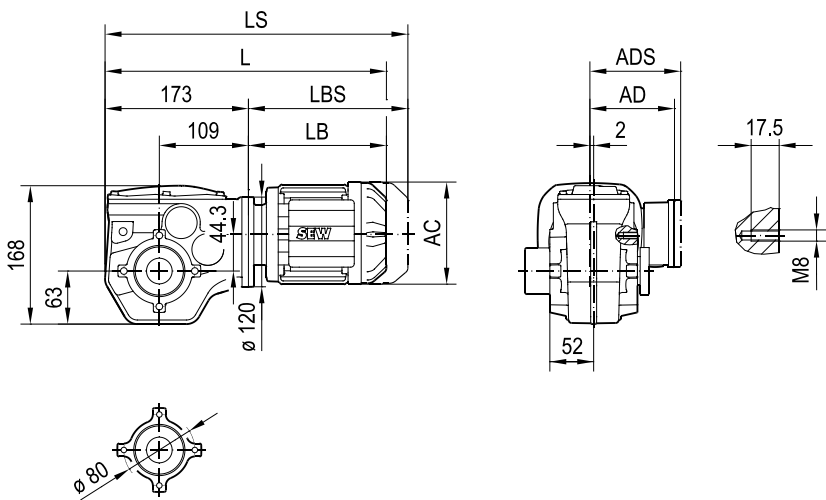
WA29HG..**WA29HG..****WH29HG..****Ø 25 H7****Ø 20 H7**

(→ 7.3)	DRN							
	63MS	63M						
AC	115	115						
AD	98	98						
ADS	98	98						
L	361	375						
LS	417	431						
LB	188	202						
LBS	244	258						

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20 191 01 23

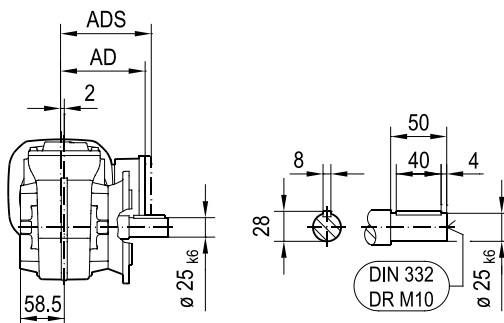
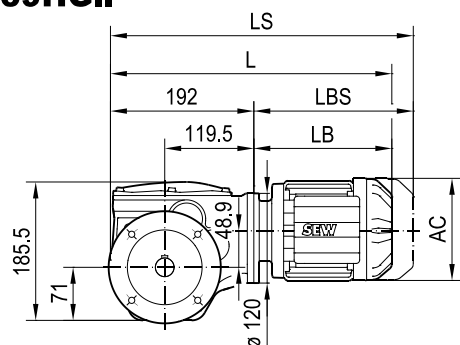
WT29HG..



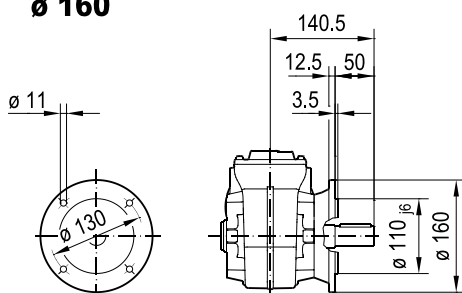
(-> 7.3)	DRN							
	63MS	63M						
AC	115	115						
AD	98	98						
ADS	98	98						
L	361	375						
LS	417	431						
LB	188	202						
LBS	244	258						

20 182 01 23

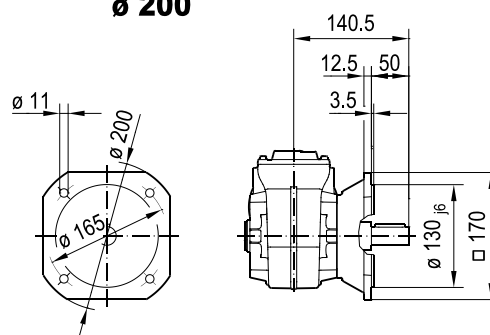
WF39HG..



ø 160

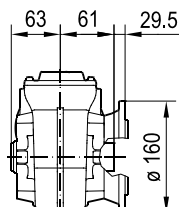


ø 200

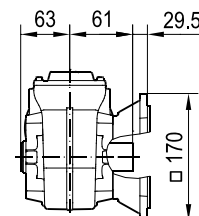


WAF39HG..

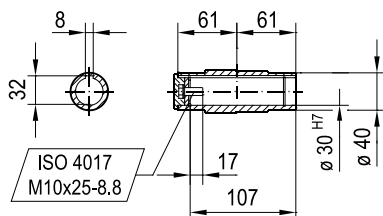
ø 160



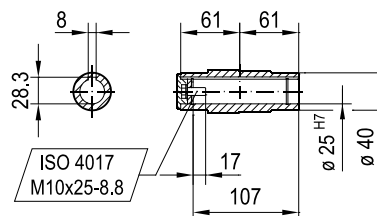
ø 200



ø 30 H7 DIN 6885-3



ø 25 H7



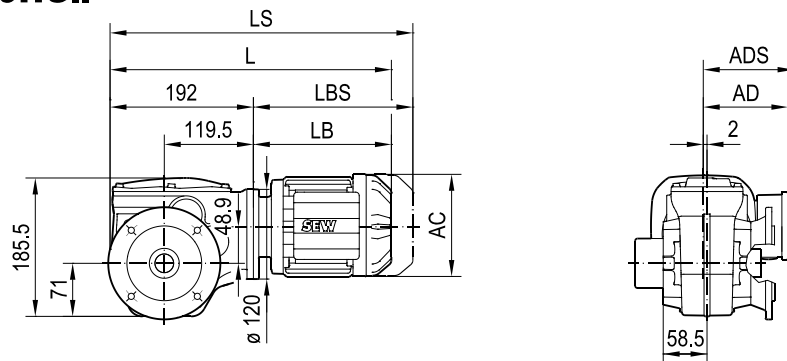
(→ 7.3)	DRN							
	63MS	63M	71MS					
AC	115	115	139					
AD	98	98	118					
ADS	98	98	129					
L	380	394	395					
LS	436	450	463					
LB	188	202	203					
LBS	244	258	271					

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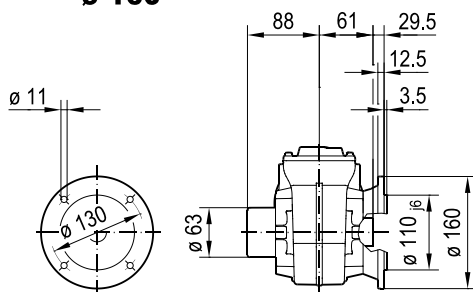
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20 184 01 23

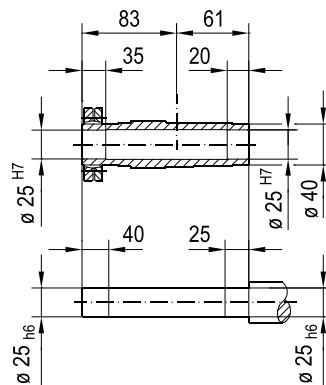
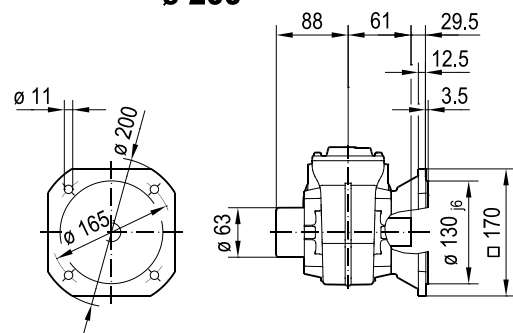
WHF39HG..



Ø 160

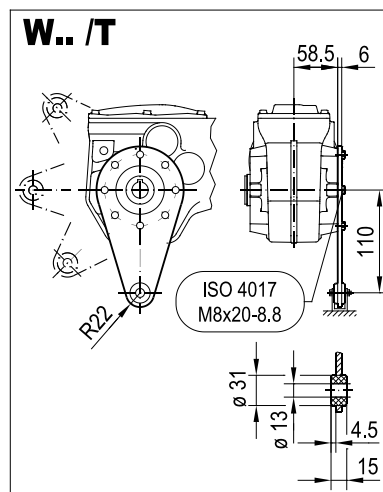
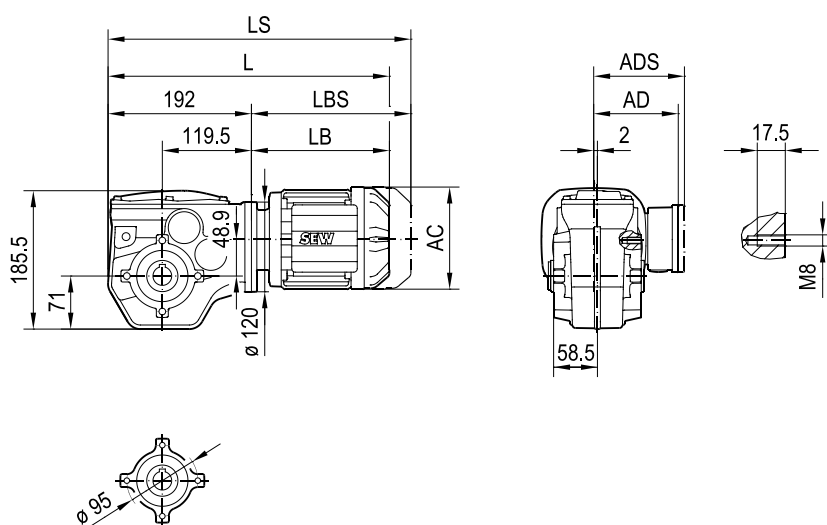
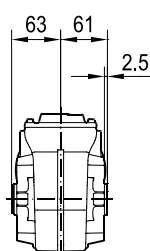
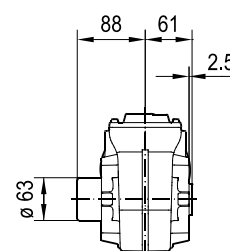


Ø 200



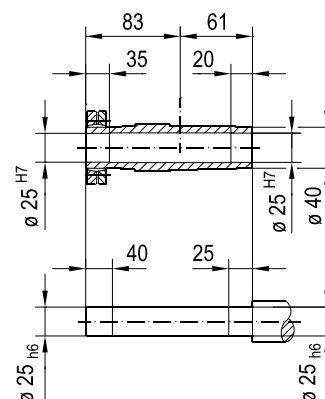
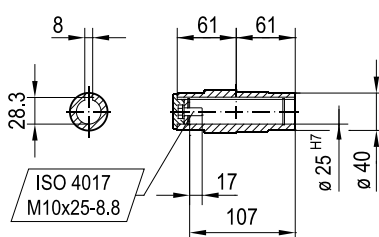
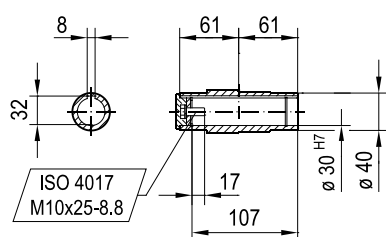
(→  7.3)	DRN							
	63MS	63M	71MS					
AC	115	115	139					
AD	98	98	118					
ADS	98	98	129					
L	380	394	395					
LS	436	450	463					
LB	188	202	203					
LBS	244	258	271					

20 188 01 23

WA39HG..**WA39HG..****WH39HG..**

ø 30 H7
DIN 6885-3

ø 25 H7

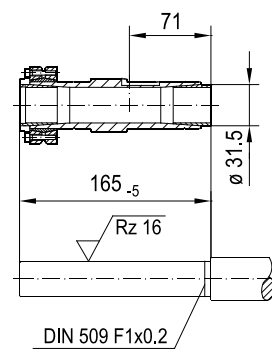
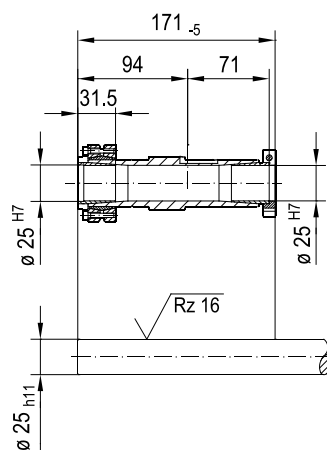
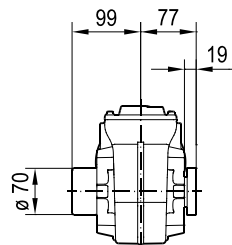
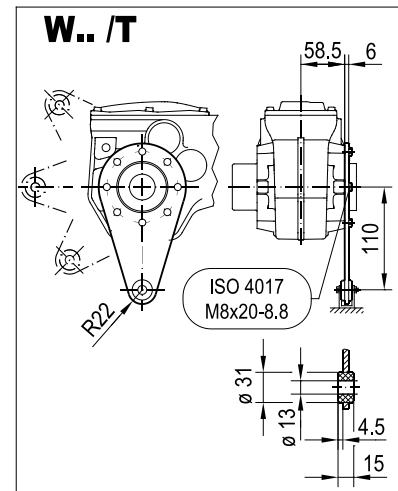
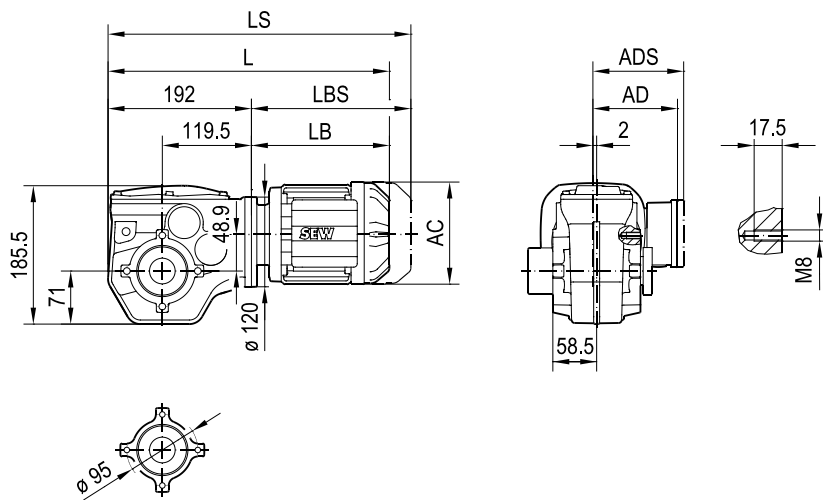


(→ 7.3)	DRN							
	63MS	63M	71MS					
AC	115	115	139					
AD	98	98	118					
ADS	98	98	129					
L	380	394	395					
LS	436	450	463					
LB	188	202	203					
LBS	244	258	271					

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WT39HG..

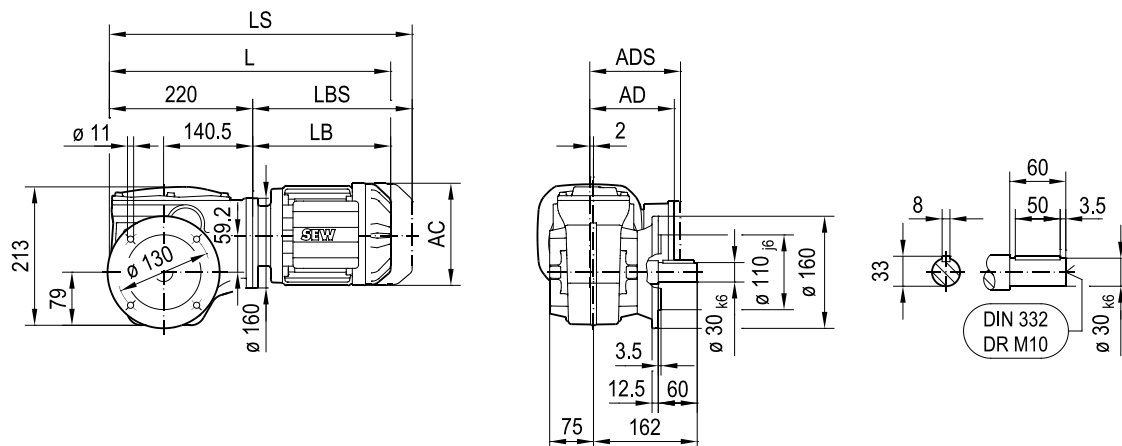
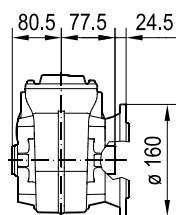
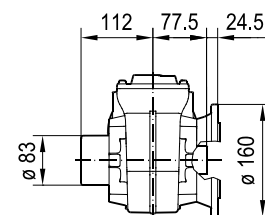
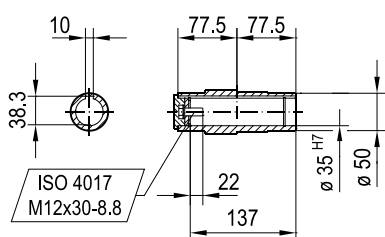
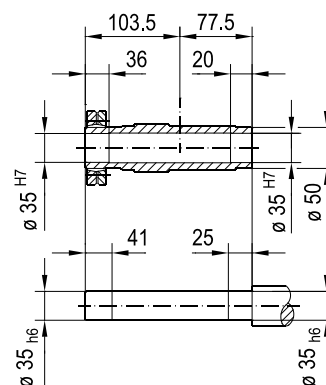
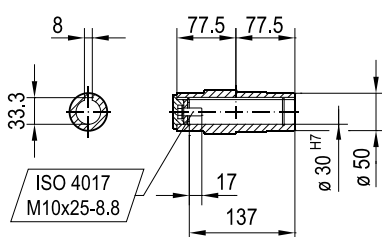
20 192 01 23



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(→ 7.3)	DRN							
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AC	115	115	139					
AD	98	98	118					
ADS	98	98	129					
L	380	394	395					
LS	436	450	463					
LB	188	202	203					
LBS	244	258	271					

20 185 01 23

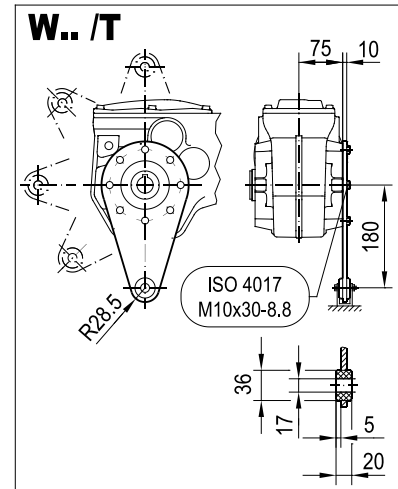
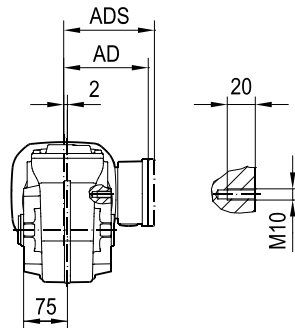
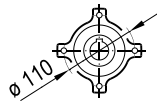
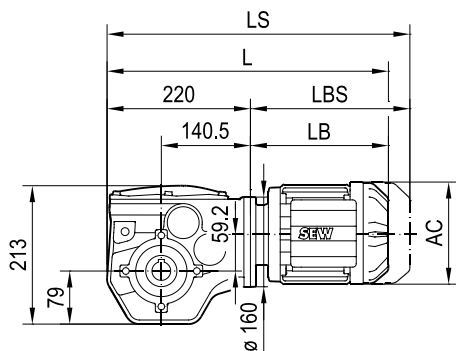
WF49HG..**WAF49HG..****WHF49HG..****Ø 35 H7****Ø 30 H7**

(→ 7.3)	DRN							
	63MS	63M	71MS	71M				
AC	115	115	139	139				
AD	98	98	118	118				
ADS	98	98	129	129				
L	402	416	417	437				
LS	458	472	485	505				
LB	182	196	197	217				
LBS	238	252	265	285				

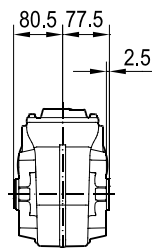
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20 189 01 23

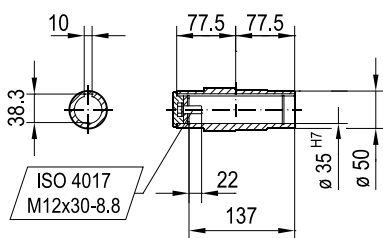
WA49HG..



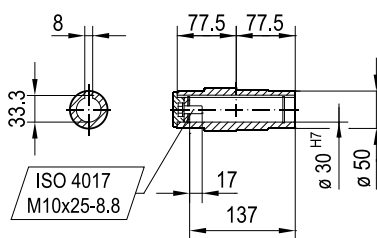
WA49HG..



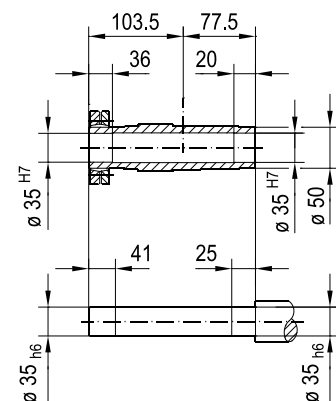
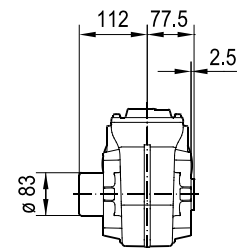
ø 35 H7



ø 30 H7

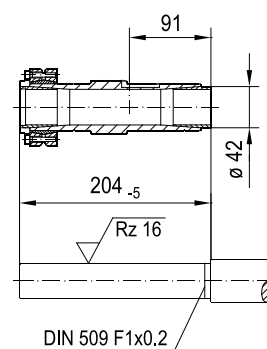
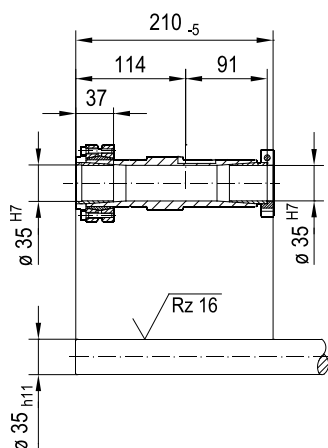
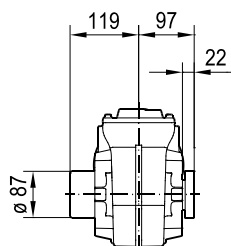
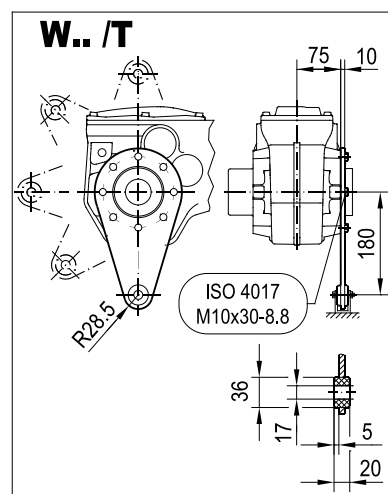
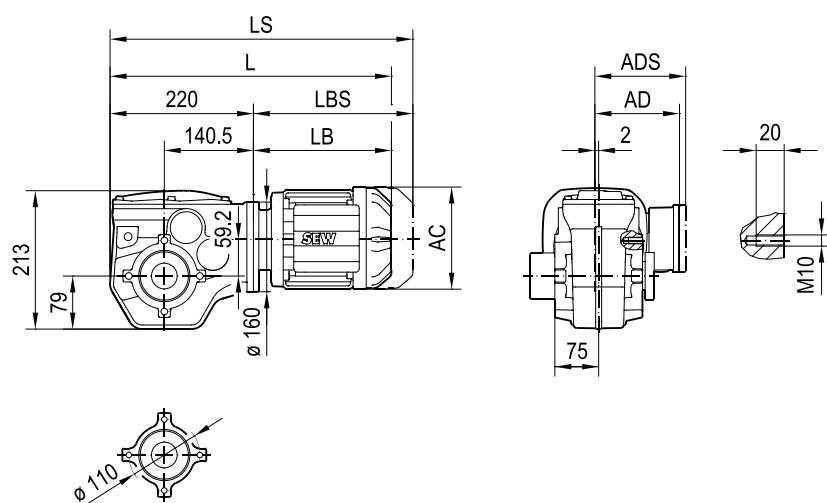


WH49HG..



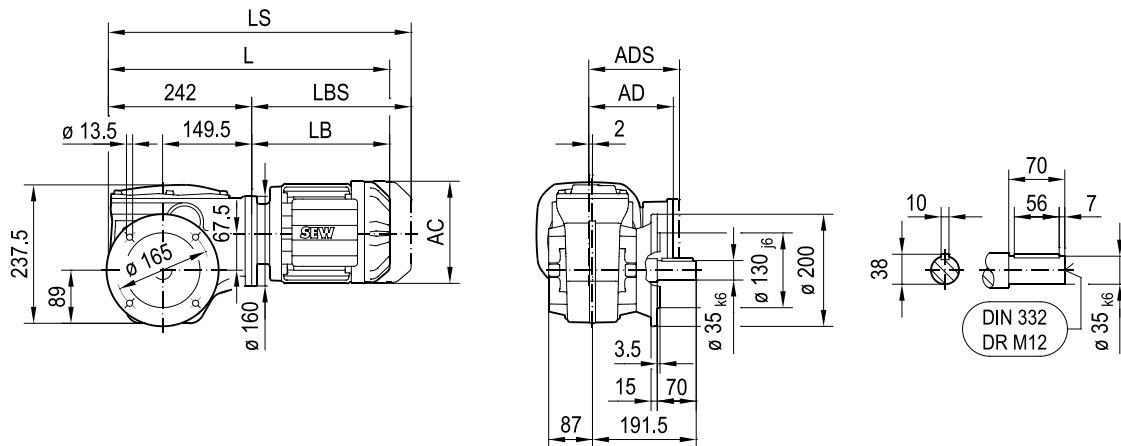
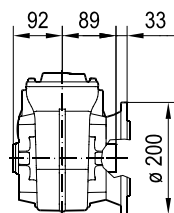
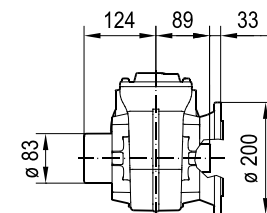
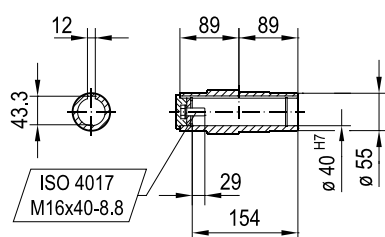
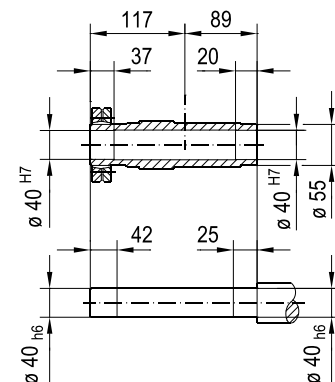
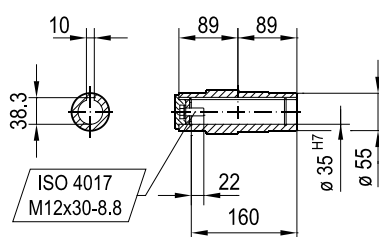
(→ 7.3)	DRN							
	63MS	63M	71MS	71M				
AC	115	115	139	139				
AD	98	98	118	118				
ADS	98	98	129	129				
L	402	416	417	437				
LS	458	472	485	505				
LB	182	196	197	217				
LBS	238	252	265	285				

20 193 01 23

WT49HG..

(→  7.3)	DRN							
	63MS	63M	71MS	71M				
AC	115	115	139	139				
AD	98	98	118	118				
ADS	98	98	129	129				
L	402	416	417	437				
LS	458	472	485	505				
LB	182	196	197	217				
LBS	238	252	265	285				

20 186 01 23

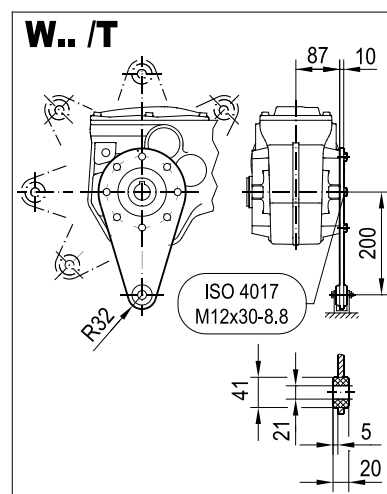
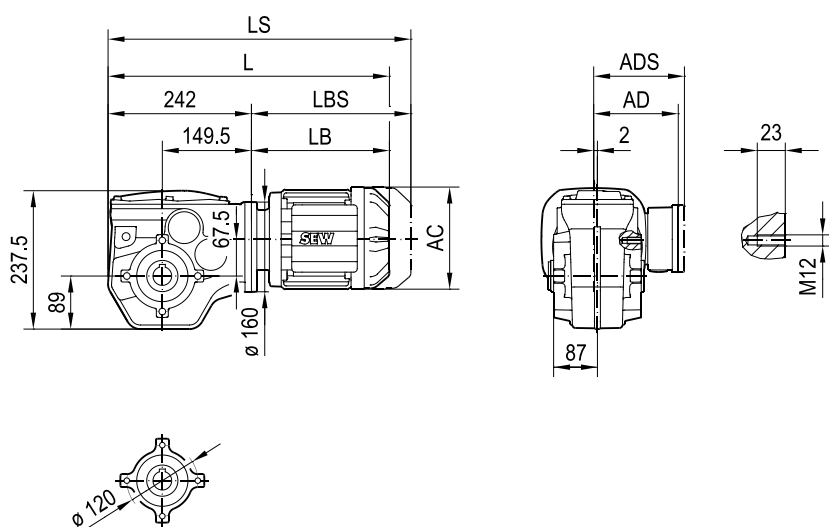
WF59HG..

WAF59HG..

WHF59HG..

 $\varnothing 40_{H7}$

 $\varnothing 35_{H7}$


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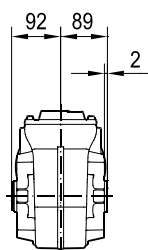
(→ 7.3)	DRN							
	63MS	63M	71MS	71M				
AC	115	115	139	139				
AD	98	98	118	118				
ADS	98	98	129	129				
L	424	438	439	459				
LS	480	494	507	527				
LB	182	196	197	217				
LBS	238	252	265	285				

20 190 01 23

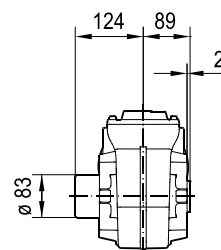
WA59HG..



WA59HG..

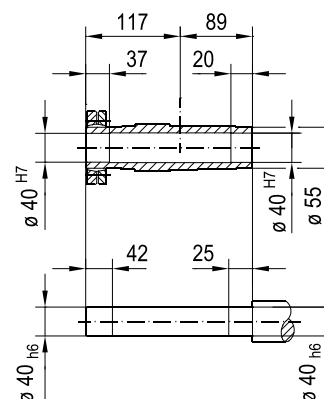
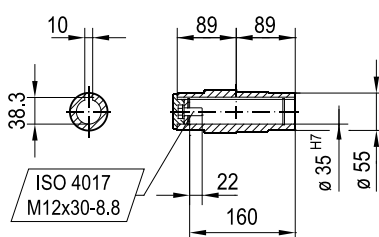
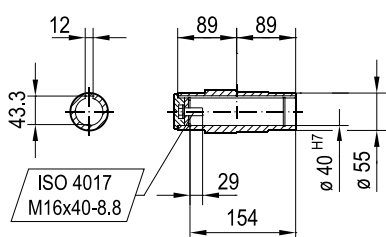


WH59HG..



Ø 40 H7

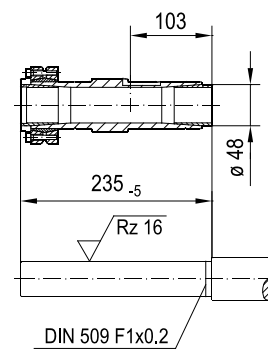
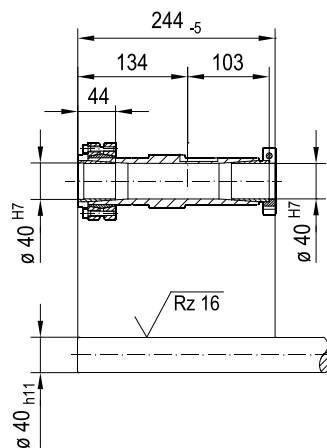
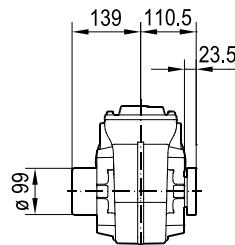
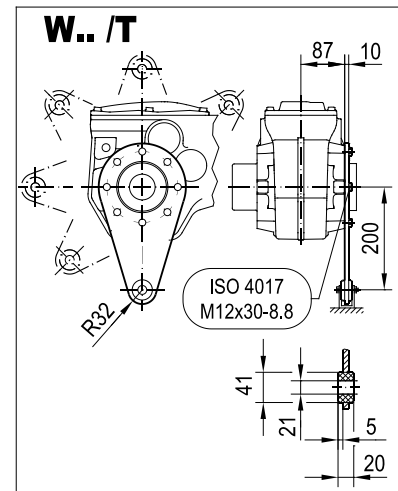
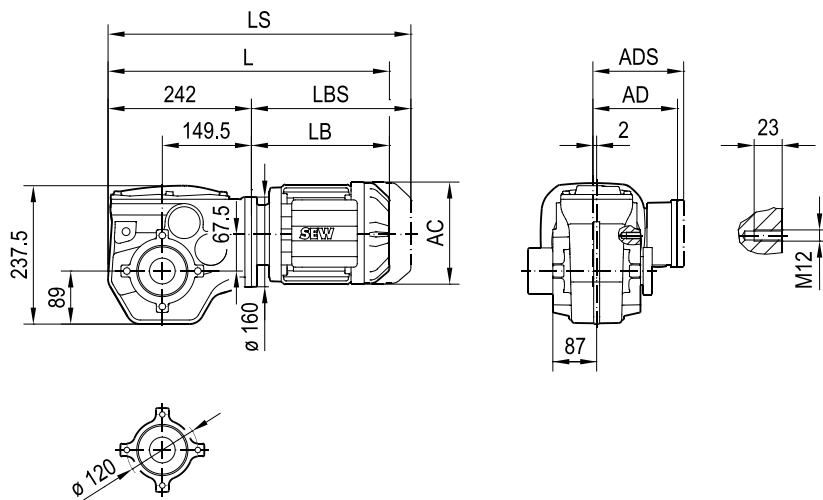
Ø 35 H7



(→  7.3)	DRN							
	63MS	63M	71MS	71M				
AC	115	115	139	139				
AD	98	98	118	118				
ADS	98	98	129	129				
L	424	438	439	459				
LS	480	494	507	527				
LB	182	196	197	217				
LBS	238	252	265	285				

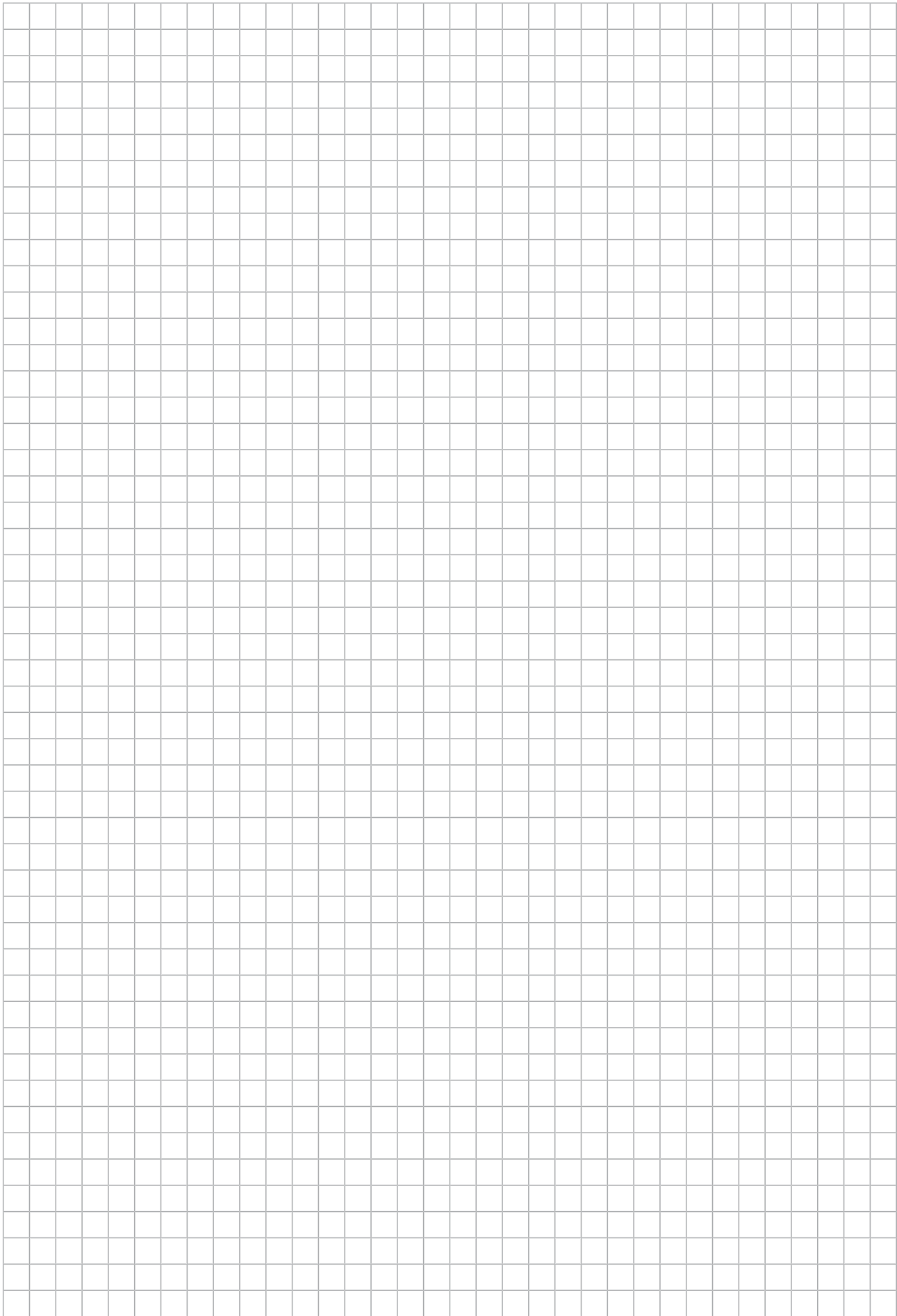
WT59HG..

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→ 7.3	DRN							
	63MS	63M	71MS	71M				
AC	115	115	139	139				
AD	98	98	118	118				
ADS	98	98	129	129				
L	424	438	439	459				
LS	480	494	507	527				
LB	182	196	197	217				
LBS	238	252	265	285				







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SEW
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SEW-EURODRIVE GmbH & Co KG
Ernst-Blickle-Str. 42
76646 BRUCHSAL
GERMANY
Tel. +49 7251 75-0
Fax +49 7251 75-1970
sew@sew-eurodrive.com
→ www.sew-eurodrive.com