



SEW
EURODRIVE

Revision



Gear Units Catalog



1 Revision to the catalog

INFORMATION



This revision corrects the following information in the gear units catalog edition 02/2019:

- Chapter 2.7.2: Zone corrected for motors in I13G
 - Chapters 3.1.1 and 3.1.2 (Overview of gear units): Revisions
 - Chapter 8.2.2: Selection table R..AT/DRN..2 revised
 - Chapter 9.2.2 Selection table F..AT/DRN..2 revised
 - Chapters 8.7, 9.7, 10.7 and 11.7 Dimension sheets for adapters with hydraulic start-up coupling (AT..)
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1.1 Available designs according to ATEX

SEW-EURODRIVE supplies explosion-proof gear units, gearmotors, options and accessories in accordance with the EU Directive "ATEX" 2014/34/EU.

Depending on equipment and dimensioning, the following gear unit and motor designs are available:

- Gear units in II2GD design for use in zones 1, 2, 21 and 22
- Motors in II3GD design for use in zones 2 and 22
- Motors in II3G design for use in zone 2

1.2 Overview of gear units

1.2.1 Axially parallel gear units

Gear unit type		RX..	R..	F..
Technical data:				
Figure				
Maximum continuous torque	M_{a_max}	69 – 830 Nm	50 – 20000 Nm	130 – 20000 Nm
Gear ratio range	i	1.3 – 8.65	3.21 – 289.74	3.77 – 281.71
Option with reduced backlash	/R	–	X	X
Mechanical data:				
Hollow shaft		–	–	X
Foot mounting		X	X	–
B5 flange		X	X	X
B14 flange		–	X	X

1.2.2 Right-angle gear units

Gear unit type		K..7	K..9	S..	W..
Technical data:					
Figure					
Maximum continuous torque	M_{a_max}	200 – 53000 Nm	300 – 500 Nm	92 – 4000 Nm	110 – 180 Nm
Gear ratio range	i	3.98 – 179.86	2.81 – 75.20	3.97 – 288.0	3.2 – 74.98
Option with reduced backlash	/R	X	–	–	–
Mechanical data:					
Hollow shaft		X	X	X	X
Foot mounting		X	X	X	X
B5 flange		X	X	X	X
B14 flange		X	–	X	–

For information on all available options and variants, refer to the following chapters.

1.3 Selection tables for adapters with hydraulic start-up coupling AT..

1.3.1 R..AT/DRN..2

		P_{Mot}				Sn
R67	DRN71M2	0.55	AT311	T11	0.19	3
	DRN80MS2	0.75	AT311	T11	0.22	4.5
	DRN80M2	1.1	AT311	T11	0.27	6
	DRN90S2	1.5	AT311	T11	0.29	8.5
	DRN90L2	2.2	AT311	T11	0.31	11.5
	DRN100LM2	3	AT311	T11	0.4	12
	DRN112M2	4	AT312	T11D	0.52	10
R77	DRN71M2	0.55	AT311	T11	0.19	3
	DRN80MS2	0.75	AT311	T11	0.22	4.5
	DRN80M2	1.1	AT311	T11	0.27	6
	DRN90S2	1.5	AT311	T11	0.29	8.5
	DRN90L2	2.2	AT311	T11	0.31	11.5
	DRN100LM2	3	AT311	T11	0.4	12
	DRN112M2	4	AT312	T11D	0.52	10
	DRN132S2	5.5	AT321	T11D	0.58	12
	DRN132S2	5.5	AT421	T21	0.6	8
R87	DRN90S2	1.5	AT311	T11	0.29	8.5
	DRN90L2	2.2	AT311	T11	0.31	11.5
	DRN100LM2	3	AT311	T11	0.4	12
	DRN112M2	4	AT312	T11D	0.52	10
	DRN132S2	5.5	AT321	T11D	0.58	12
	DRN132S2	5.5	AT421	T21	0.6	8
R97	DRN90S2	1.5	AT311	T11	0.29	8.5
	DRN90L2	2.2	AT311	T11	0.31	11.5
	DRN100LM2	3	AT311	T11	0.4	12
	DRN112M2	4	AT312	T11D	0.52	10
	DRN132S2	5.5	AT321	T11D	0.58	12
	DRN132S2	5.5	AT421	T21	0.6	8
R107	DRN100LM2	3	AT311	T11	0.4	12
	DRN112M2	4	AT312	T11D	0.52	10
	DRN132S2	5.5	AT321	T11D	0.58	12
	DRN132S2	5.5	AT421	T21	0.6	8

		P_{Mot}				Sn
R127	DRN100LM2	3	AT311	T11	0.4	12
	DRN112M2	4	AT312	T11D	0.52	10
	DRN132S2	5.5	AT321	T11D	0.58	12
	DRN132S2	5.5	AT421	T21	0.6	8
R137	DRN132S2	5.5	AT421	T21	0.6	8

1.3.2 F..AT/DRN..2

		P_{Mot}				Sn
F67	DRN71M2	0.55	AT311	T11	0.19	3
	DRN80MS2	0.75	AT311	T11	0.22	4.5
	DRN80M2	1.1	AT311	T11	0.27	6
	DRN90S2	1.5	AT311	T11	0.29	8.5
	DRN90L2	2.2	AT311	T11	0.31	11.5
	DRN100LM2	3	AT311	T11	0.4	12
	DRN112M2	4	AT312	T11D	0.52	10
F77	DRN71M2	0.55	AT311	T11	0.19	3
	DRN80MS2	0.75	AT311	T11	0.22	4.5
	DRN80M2	1.1	AT311	T11	0.27	6
	DRN90S2	1.5	AT311	T11	0.29	8.5
	DRN90L2	2.2	AT311	T11	0.31	11.5
	DRN100LM2	3	AT311	T11	0.4	12
	DRN112M2	4	AT312	T11D	0.52	10
	DRN132S2	5.5	AT321	T21	0.6	8
	DRN132S2	5.5	AT421	T21	0.6	8
F87	DRN90S2	1.5	AT311	T11	0.29	8.5
	DRN90L2	2.2	AT311	T11	0.31	11.5
	DRN100LM2	3	AT311	T11	0.4	12
	DRN112M2	4	AT312	T11D	0.52	10
	DRN132S2	5.5	AT321	T21	0.6	8
	DRN132S2	5.5	AT421	T21	0.6	8

1

Revision to the catalog

Selection tables for adapters with hydraulic start-up coupling AT..

		P_{Mot}				Sn
F97	DRN90S2	1.5	AT311	T11	0.29	8.5
	DRN90L2	2.2	AT311	T11	0.31	11.5
	DRN100LM2	3	AT311	T11	0.4	12
	DRN112M2	4	AT312	T11D	0.52	10
	DRN132S2	5.5	AT321	T21	0.6	8
	DRN132S2	5.5	AT421	T21	0.6	8
F107	DRN100LM2	3	AT311	T11	0.4	12
	DRN112M2	4	AT312	T11D	0.52	10
	DRN132S2	5.5	AT321	T21	0.6	8
	DRN132S2	5.5	AT421	T21	0.6	8
F127	DRN132S2	5.5	AT421	T21	0.6	8

1.3.3 K..AT/DRN..2

		P_{Mot}				Sn
K67	DRN71M2	0.55	AT311	T11	0.19	3
	DRN80MS2	0.75	AT311	T11	0.22	4.5
	DRN80M2	1.1	AT311	T11	0.27	6
	DRN90S2	1.5	AT311	T11	0.29	8.5
	DRN90L2	2.2	AT311	T11	0.31	11.5
	DRN100LM2	3	AT311	T11	0.4	12
	DRN112M2	4	AT312	T11D	0.52	10
K77	DRN71M2	0.55	AT311	T11	0.19	3
	DRN80MS2	0.75	AT311	T11	0.22	4.5
	DRN80M2	1.1	AT311	T11	0.27	6
	DRN90S2	1.5	AT311	T11	0.29	8.5
	DRN90L2	2.2	AT311	T11	0.31	11.5
	DRN100LM2	3	AT311	T11	0.4	12
	DRN112M2	4	AT312	T11D	0.52	10
	DRN132S2	5.5	AT321	T21	0.6	8
DRN132S2	5.5	AT421	T21	0.6	8	

25982672/EN – 04/2019

		P_{Mot}				Sn
K87	DRN90S2	1.5	AT311	T11	0.29	8.5
	DRN90L2	2.2	AT311	T11	0.31	11.5
	DRN100LM2	3	AT311	T11	0.4	12
	DRN112M2	4	AT312	T11D	0.52	10
	DRN132S2	5.5	AT321	T21	0.6	8
	DRN132S2	5.5	AT421	T21	0.6	8
K97	DRN90S2	1.5	AT311	T11	0.29	8.5
	DRN90L2	2.2	AT311	T11	0.31	11.5
	DRN100LM2	3	AT311	T11	0.4	12
	DRN112M2	4	AT312	T11D	0.52	10
	DRN132S2	5.5	AT321	T21	0.6	8
	DRN132S2	5.5	AT421	T21	0.6	8
K107	DRN100LM2	3	AT311	T11	0.4	12
	DRN112M2	4	AT312	T11D	0.52	10
	DRN132S2	5.5	AT321	T21	0.6	8
	DRN132S2	5.5	AT421	T21	0.6	8
K127	DRN132S2	5.5	AT421	T21	0.6	8

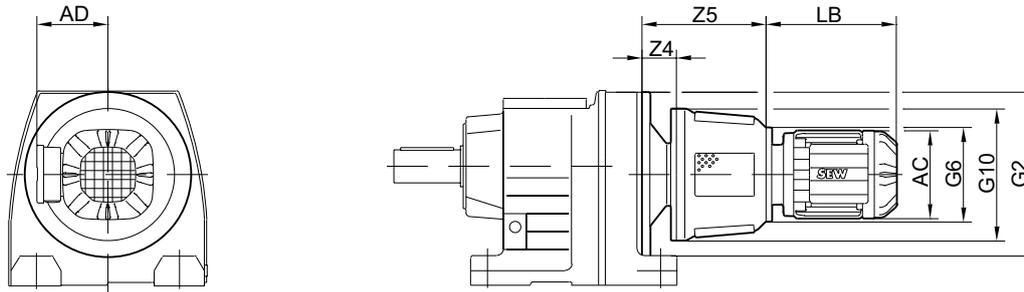
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Revision to the catalog

Dimension sheets for adapters with hydraulic start-up coupling (R..AT..)

1.4 Dimension sheets for adapters with hydraulic start-up coupling (R..AT..)

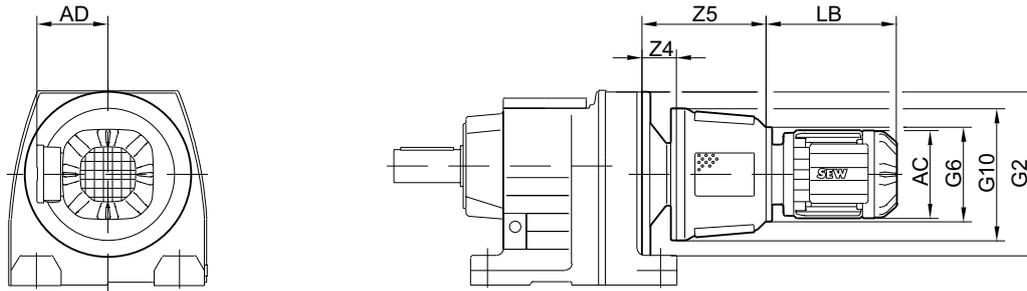
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			AC	AD	G6	G10	LB	Z4	Z5	G2	
R..67	AT311 AT312	DRN71M	139	118	200	280	222	97	286	160	
		DRN80MK	156	128			241				
		DRN80MS					259				
		DRN80M					287				
		DRN90S	179	140			281				
		DRN90L					313				
		DRN100LM	197	157			359				
		DRN112M	221	170			387				
	AT321 AT322	DRN90L	179	140	250	350	313	97	333		
		DRN100LS	197	157			309				
		DRN100L					359				
R..77	AT311 AT312	DRN71M	139	118	200	280	222	89	278	200	
		DRN80MK	156	128			241				
		DRN80MS					259				
		DRN80M					287				
		DRN90S	179	140			281				
		DRM90L					313				
		DRN100LM	197	157			359				
		DRN112M	221	170			387				
	AT321	DRN132S	221	170	250	350	437	93	328		
	AT421 AT422	DRN90L	179	140	250	350	313	133	368		
		DRN100LS	197	157			309				
		DRN100L					359				
		DRN112M	221	170			387				
		DRN132S					437				
	R..87	AT311 AT312	DRN90S	179	140	200	280	281	84		273
			DRM90L					313			
DRN100LM			359								
DRN112M			387								
AT321		DRN132S	221	170	250	350	437	84	320		
AT421 AT422		DRN90L	179	140	250	350	313	128	363		
		DRN100LS	197	157			309				
		DRN100L					359				
		DRN112M	221	170			387				
		DRN132S					437				
AT541 AT542		DRN132S	221	170	350	470	437	159	478		
		DRN132M	261	228			439				
		DRN132L					464				
		DRN160M	316	253			532				
DRN160L	532										

25982672/EN – 04/2019

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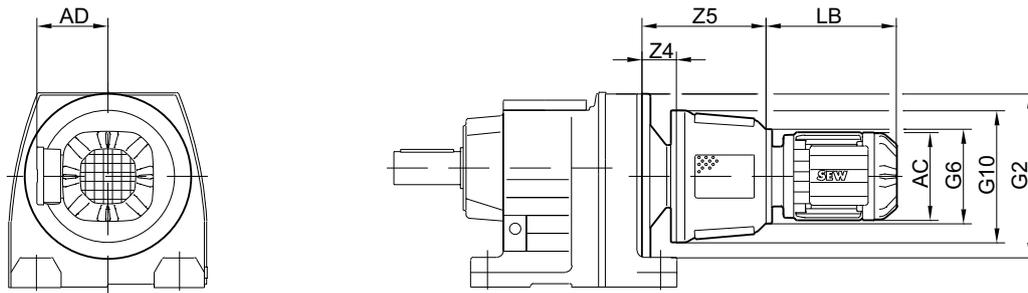


			AC	AD	G6	G10	LB	Z4	Z5	G2
R..97	AT311 AT312	DRN90S	179	140	200	280	281	79	268	300
		DRM90L					313			
		DRN100LM					359			
		DRN112M					387			
	AT321	DRN132S	221	170	250	350	437	79	315	
	AT421 AT422	DRN90L	179	140	250	350	313	123	358	
		DRN100LS	197	157			309			
		DRN100L					359			
		DRN112M	221	170			387			
	AT541 AT542	DRN132S	221	170	350	470	437	154	473	
		DRN132M	261	228			439			
		DRN132L					464			
		DRN160M	316	253			532			
		DRN160L					532			
DRN180M		557								
DRN180L		357	268	557						
R..107 R..127	AT311 AT312	DRN100LM	197	157	200	280	359	73	262	
		DRN112M	221	170			387			
		AT321	DRN132S	221			170			250
	AT421 AT422	DRN100LS	197	157	250	350	309	117	352	
		DRN100L					359			
		DRN112M	221	170			387			
		DRN132S					437			
	AT541 AT542	DRN132S	221	170	350	470	437	148	467	
		DRN132M	261	228			439			
		DRN132L					464			
DRN160M		316	253	532						
DRN160L				532						
DRN180M				557						
DRN180L		357	268	557						
R..137	AT421 AT422	DRN100LS	197	157	250	350	309	110	345	
		DRN100L					359			
		DRN112M	221	170			387			
		DRN132S					437			
	AT541 AT542	DRN132S	221	170	350	470	437	141	460	
		DRN132M	261	228			439			
		DRN132L					464			
		DRN160M	316	253			532			
		DRN160L					532			
		DRN180M					557			
		DRN180L	357	268			557			

1 Revision to the catalog

Dimension sheets for adapters with hydraulic start-up coupling (R..AT..)

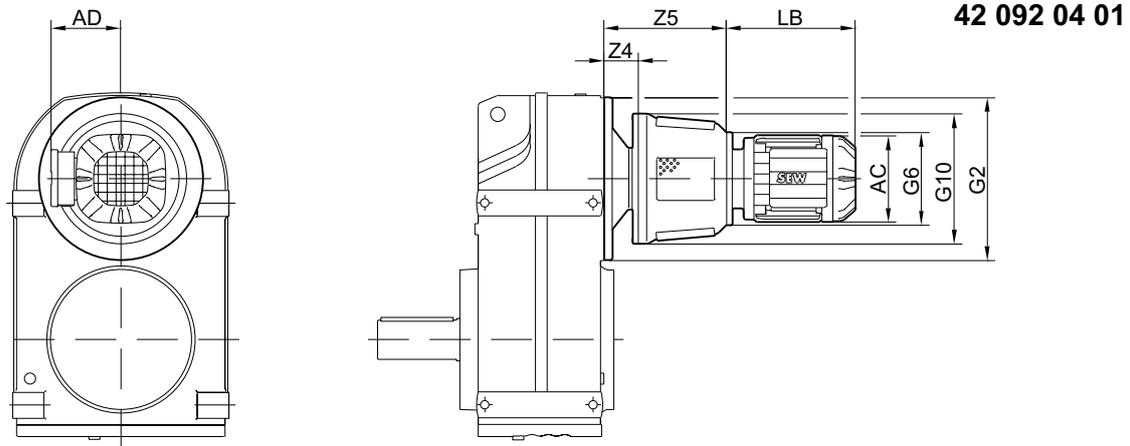
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			AC	AD	G6	G10	LB	Z4	Z5	G2
R..147	AT541 AT542	DRN132M	261	228	350	470	439	133	452	450
		DRN132L					464			
		DRN160M	316	253			532			
		DRN160L					532			
		DRN180M	357	268			557			
		DRN180L					557			
R..167	AT541 AT542	DRN160M	316	253	350	470	532	125	444	550
		DRN160L					532			
		DRN180M	357	268			557			
		DRN180L					557			

25982672/EN – 04/2019

1.5 Dimension sheets for adapters with hydraulic start-up coupling (F..AT..)

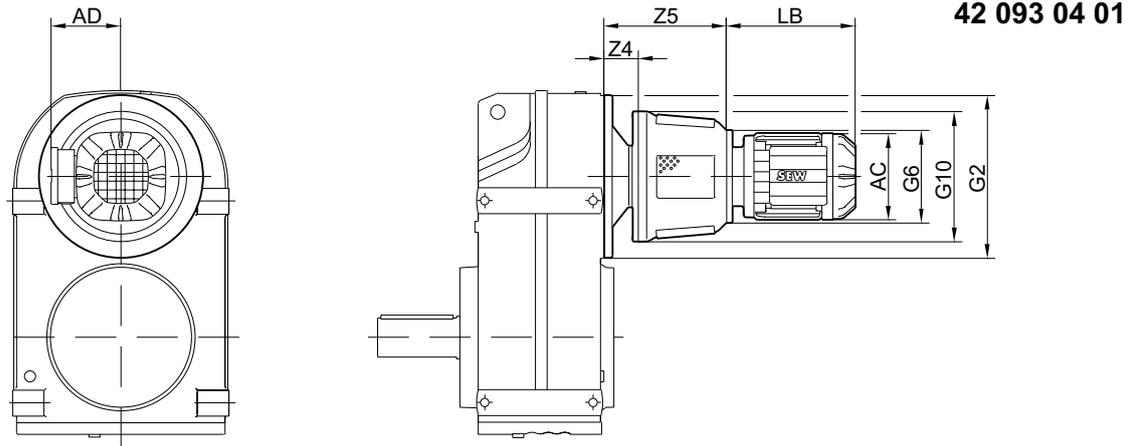


			AC	AD	G6	G10	LB	Z4	Z5	G2
F67	AT311 AT312	DRN71M	139	118	200	280	222	97	286	160
		DRN80MK					241			
		DRN80MS	156	128			259			
		DRN80M					287			
		DRN90S					281			
		DRN90L	179	140			313			
		DRN100LM	197	157			359			
		DRN112M	221	170			387			
	AT321 AT322	DRN90L	179	140	250	350	313	97	333	
		DRN100LS	197	157			309			
DRN100L				359						
F77	AT311 AT312	DRN71M	139	118	200	280	222	89	278	200
		DRN80MK					241			
		DRN80MS	156	128			259			
		DRN80M					287			
		DRN90S					281			
		DRM90L	179	140			313			
		DRN100LM	197	157			359			
		DRN112M	221	170			387			
	AT321	DRN132S	221	170	250	350	437	93	328	
		DRN90L	179	140			313			
	AT421 AT422	DRN100LS	197	157	250	350	309	133	368	
		DRN100L					359			
		DRN112M					387			
		DRN132S	221	170			437			

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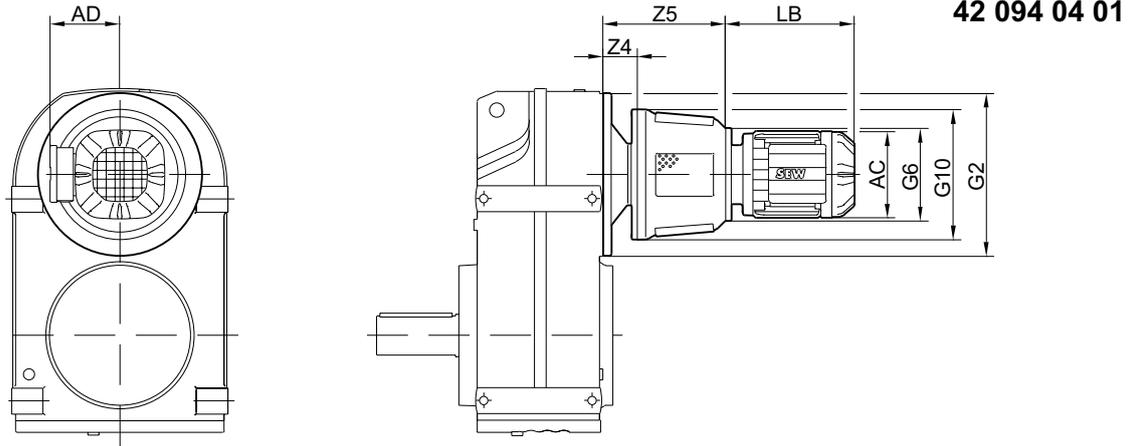
Revision to the catalog

Dimension sheets for adapters with hydraulic start-up coupling (F..AT..)



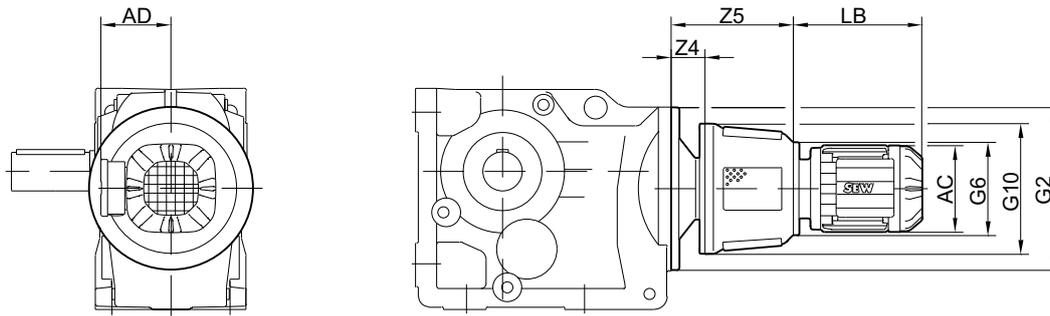
			AC	AD	G6	G10	LB	Z4	Z5	G2
F87	AT311 AT312	DRN90S	179	140	200	280	281	84	273	250
		DRM90L					313			
		DRN100LM	197	157			359			
		DRN112M	221	170			387			
	AT321	DRN132S	221	170	250	350	437	84	320	
	AT421 AT422	DRN90L	179	140	250	350	313	128	363	
		DRN100LS					309			
		DRN100L	197	157			359			
		DRN112M	221	170			387			
	AT541 AT542	DRN132S	221	170	350	470	437	159	478	
		DRN132M	261	228			439			
		DRN132L					464			
		DRN160M	316	253			532			
		DRN160L					532			
	F97	AT311 AT312	DRN90S	179	140	200	280	281	79	
DRM90L			313							
DRN100LM			197	157	359					
DRN112M			221	170	387					
AT321		DRN132S	221	170	250	350	437	79	315	
AT421 AT422		DRN90L	179	140	250	350	313	123	358	
		DRN100LS					309			
		DRN100L	197	157			359			
		DRN112M	221	170			387			
AT541 AT542		DRN132S	221	170	350	470	437	154	473	
		DRN132M	261	228			439			
		DRN132L					464			
		DRN160M	316	253			532			
		DRN160L					532			
		DRN180M	357	268			557			
	DRN180L	557								

25982672/EN – 04/2019



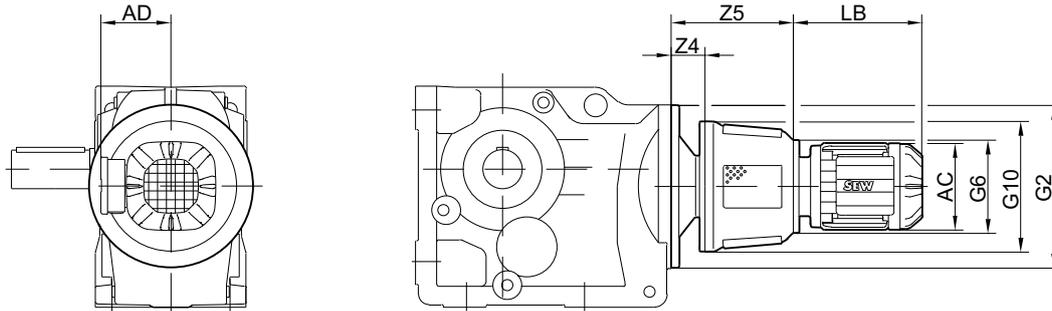
			AC	AD	G6	G10	LB	Z4	Z5	G2
F107	AT311 AT312	DRN100LM	197	157	200	280	359	73	262	350
		DRN112M	221	170			387			
	AT321	DRN132S	221	170	250	350	437	73	309	
	AT421 AT422	DRN100LS	197	157	250	350	309	117	352	
		DRN100L					359			
		DRN112M	221	170			387			
		DRN132S	437							
	AT541 AT542	DRN132M	261	228	350	470	439	148	467	
		DRN132L					464			
		DRN160M	316	253			532			
		DRN160L					532			
		DRN180M	357	268			557			
DRN180L	557									
F127	AT421	DRN132S	221	170	250	350	437	102	337	450
	AT541 AT542	DRN132S	221	170	350	470	437	133	452	
		DRN132M	261	228			439			
		DRN132L					464			
		DRN160M	316	253			532			
		DRN160L					532			
		DRN180M	357	268			557			
	DRN180L	557								
F157	AT541 AT542	DRN160M	316	253	350	470	532	125	444	550
		DRN160L					532			
		DRN180M	357	268			557			
		DRN180L					557			

1.6 Dimension sheets for adapters with hydraulic start-up coupling (K..AT..)



36 001 04 01

			AC	AD	G6	G10	LB	Z4	Z5	G2		
K67	AT311 AT312	DRN71M	139	118	200	280	222	97	286	160		
		DRN80MK					241					
		DRN80MS	156	128			259					
		DRN80M					287					
		DRN90S					281					
		DRN90L	179	140			313					
		DRN100LM	197	157			359					
		DRN112M	221	170			387					
	AT321 AT322	DRN90L	179	140	250	350	313	97	333			
		DRN100LS	197	157			309					
DRN100L		359										
K77	AT311 AT312	DRN71M	139	118	200	280	222	89	278	200		
		DRN80MK					241					
		DRN80MS	156	128			259					
		DRN80M					287					
		DRN90S					281					
		DRM90L	179	140			313					
		DRN100LM	197	157			359					
		DRN112M	221	170			387					
	AT321	DRN132S	221	170	250	350	437	93	328			
		DRN90L	179	140	250	350	313	133	368			
	AT421 AT422	DRN100LS	197	157			309					
		DRN100L					359					
		DRN112M					387					
		DRN132S					437					
K87	AT311 AT312	DRN90S	179	140	200	280	281	84	273	250		
		DRM90L					313					
		DRN100LM					359					
		DRN112M					387					
		AT321					DRN132S				221	170
	AT421 AT422	DRN90L	179	140	250	350	313	128	363			
		DRN100LS	197	157			309					
		DRN100L					359					
		DRN112M					387					
		DRN132S					437					
		AT541 AT542					DRN132S				221	170
	DRN132M				261	228	439					
	DRN132L		464									
	DRN160M		532									
DRN160L	532											

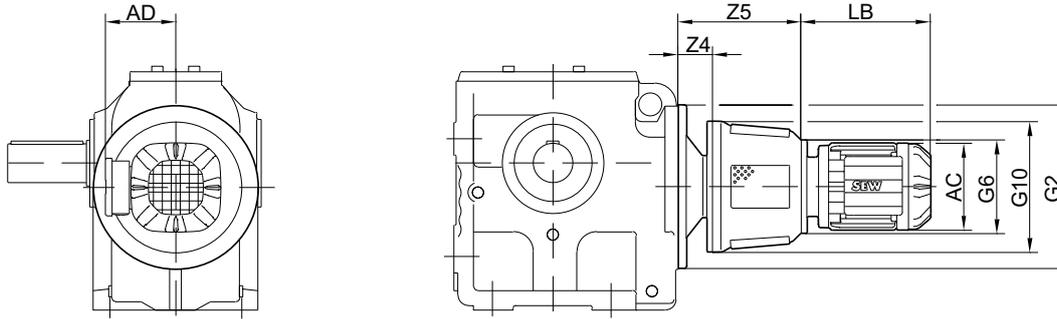


36 002 04 01

			AC	AD	G6	G10	LB	Z4	Z5	G2
K97	AT311 AT312	DRN90S	179	140	200	280	281	79	268	300
		DRM90L					313			
		DRN100LM	197	157			359			
		DRN112M	221	170			387			
	AT321	DRN132S	221	170	250	350	437	79	315	
	AT421 AT422	DRN90L	179	140	250	350	313	123	358	
		DRN100LS	197	157			309			
		DRN100L					359			
		DRN112M	221	170			387			
		DRN132S	221	170			437			
	AT541 AT542	DRN132S	221	170	350	470	437	154	473	
		DRN132M	261	228			439			
		DRN132L					464			
		DRN160M	316	253			532			
		DRN160L					532			
		DRN180M	357	268			557			
DRN180L		557								
K107	AT311 AT312	DRN100LM	197	157	200	280	359	73	262	
		DRN112M	221	170			387			
	AT321	DRN132S	221	170	250	350	437	73	309	
	AT421 AT422	DRN100LS	197	157	250	350	309	117	352	
		DRN100L					359			
		DRN112M	221	170			387			
		DRN132S	221	170			437			
	AT541 AT542	DRN132S	221	170	350	470	437	148	467	
		DRN132M	261	228			439			
		DRN132L					464			
		DRN160M	316	253			532			
		DRN160L					532			
DRN180M		357	268	557						
DRN180L				557						
K127	AT421	DRN132S	221	170	250	350	437	102	337	
	AT541 AT542	DRN132M	261	228	350	470	439	133	452	
		DRN132L					464			
		DRN160M	316	253			532			
		DRN160L					532			
		DRN180M	357	268			557			
	DRN180L	557								
K157 K167 K187	AT541 AT542	DRN160M	316	253	350	470	532	125	444	550
		DRN160L					532			
		DRN180M	357	268			557			
		DRN180L					557			

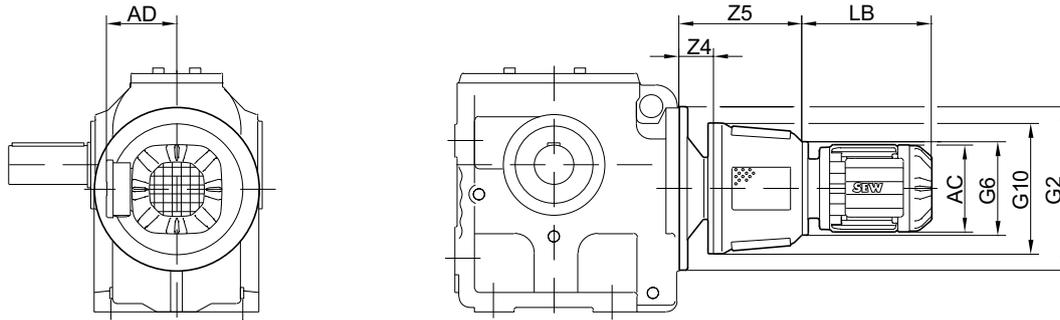
1.7 Dimension sheets for adapters with hydraulic start-up coupling (S..AT..)

26 001 04 01



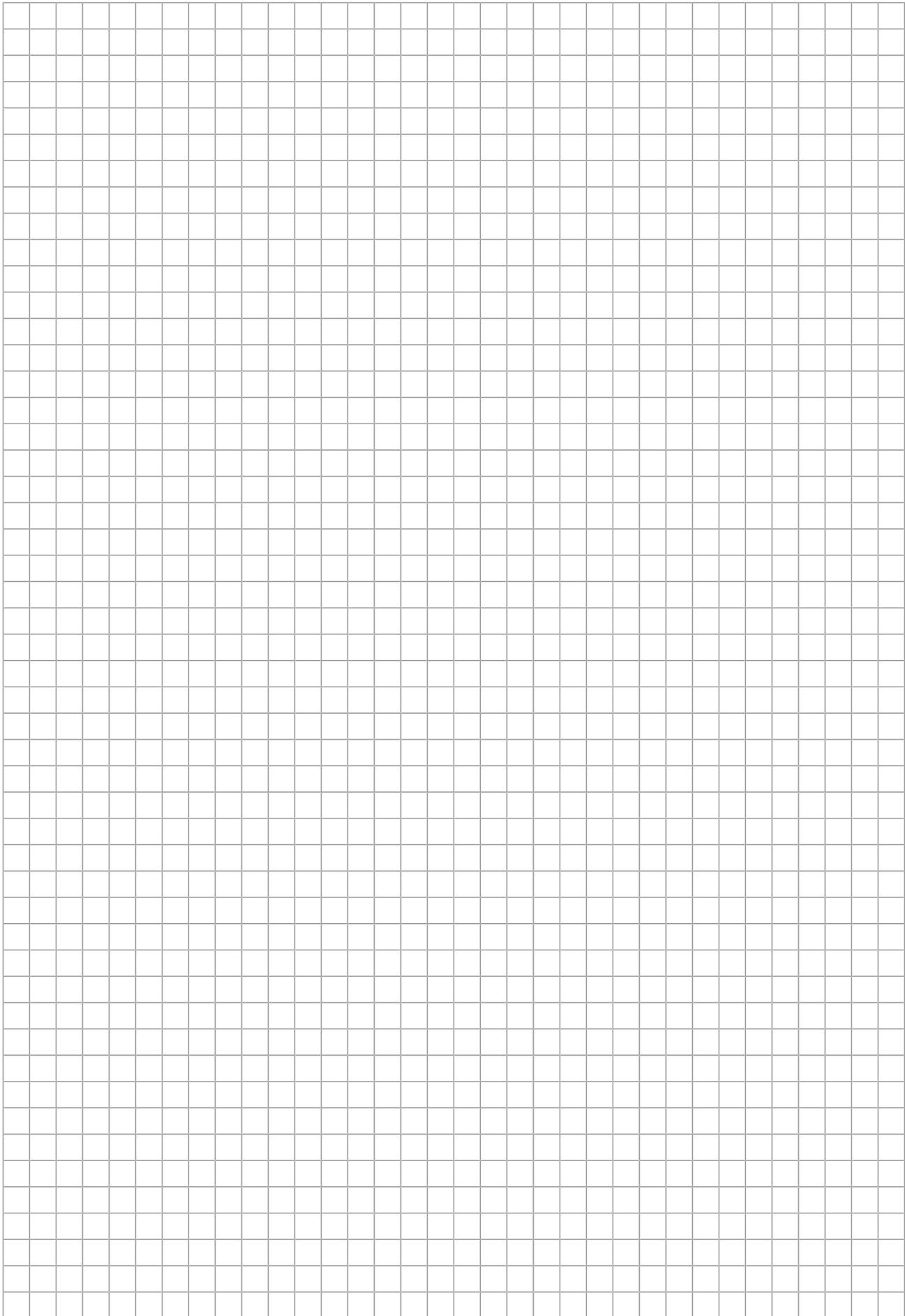
			AC	AD	G6	G10	LB	Z4	Z5	G2
S67	AT311 AT312	DRN71M	139	118	200	280	222	97	286	160
		DRN80MK					241			
		DRN80MS	156	128			259			
		DRN80M					287			
		DRN90S	179	140			281			
		DRN90L					313			
		DRN100LM	197	157			359			
		DRN112M	221	170			387			
	AT321 AT322	DRN90L	179	140	250	350	313	97	333	
		DRN100LS	197	157			309			
		DRN100L					359			
S77	AT311 AT312	DRN71M	139	118	200	280	222	89	278	200
		DRN80MK					241			
		DRN80MS	156	128			259			
		DRN80M					287			
		DRN90S	179	140			281			
		DRM90L					313			
		DRN100LM	197	157			359			
		DRN112M	221	170			387			
	AT321	DRN132S	221	170	250	350	437	93	328	
	AT421 AT422	DRN90L	179	140	250	350	313	133	368	
		DRN100LS	197	157			309			
		DRN100L					359			
		DRN112M	221	170			387			
		DRN132S					437			
S87	AT311 AT312	DRN90S	179	140	200	280	281	84	273	250
		DRM90L					313			
		DRN100LM	197	157			359			
		DRN112M	221	170			387			
	AT321	DRN132S	221	170	250	350	437	84	320	
	AT421 AT422	DRN90L	179	140	250	350	313	128	363	
		DRN100LS	197	157			309			
		DRN100L					359			
		DRN112M	221	170			387			
		DRN132S					437			
	AT541 AT542	DRN132S	221	170	350	470	437	159	478	
		DRN132M	261	228			439			
		DRN132L					464			
DRN160M		316	253	532						
DRN160L				532						

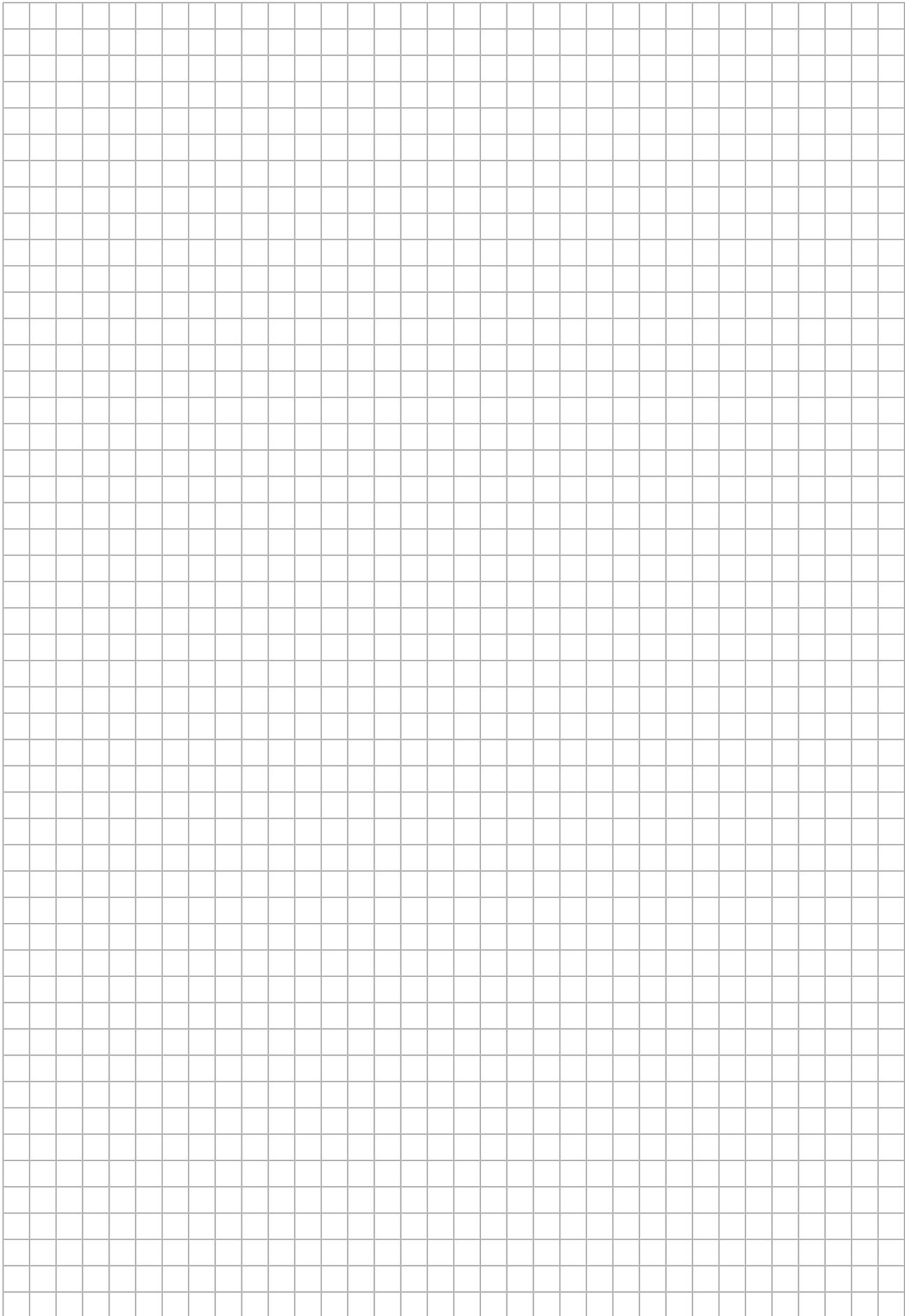
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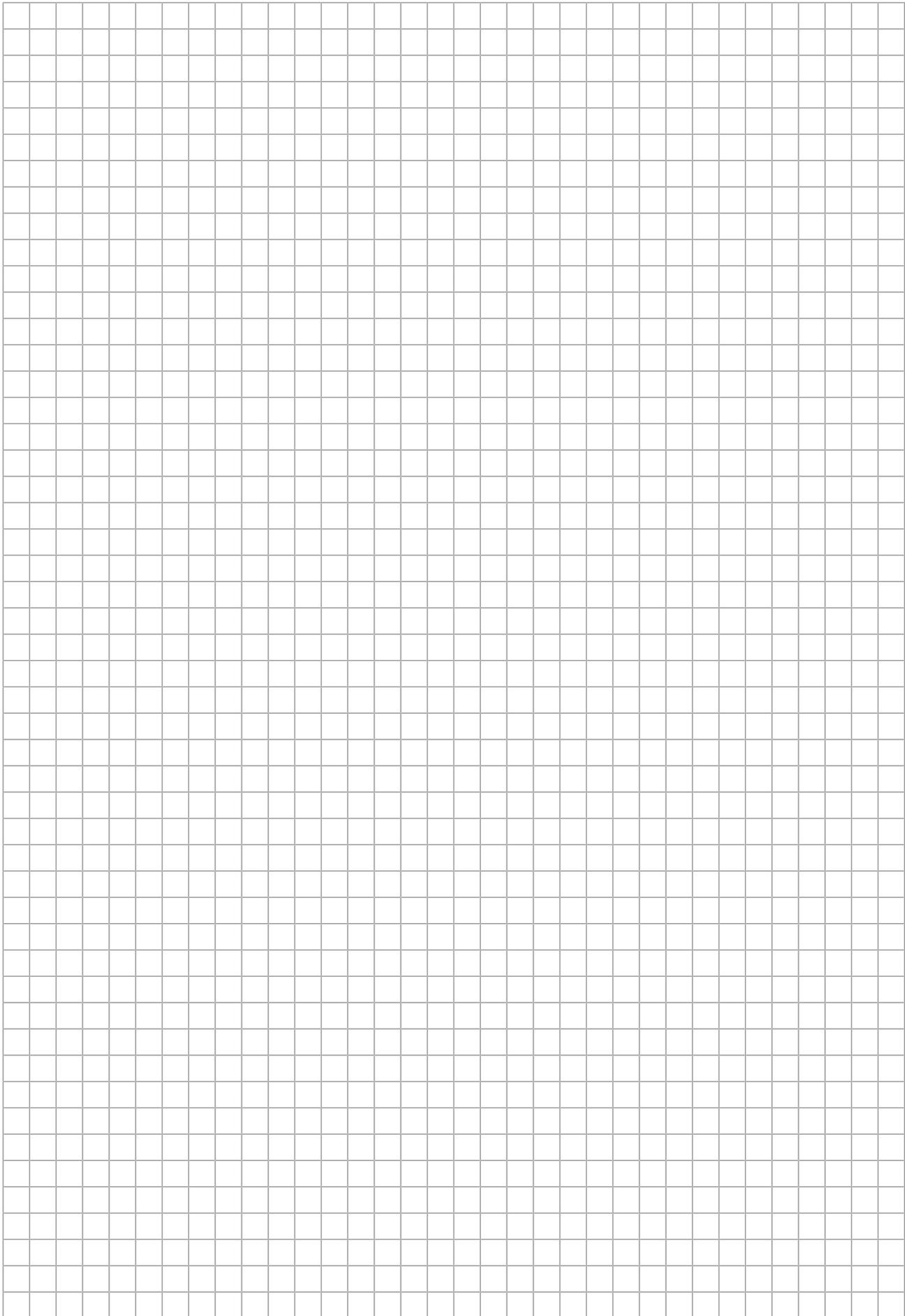


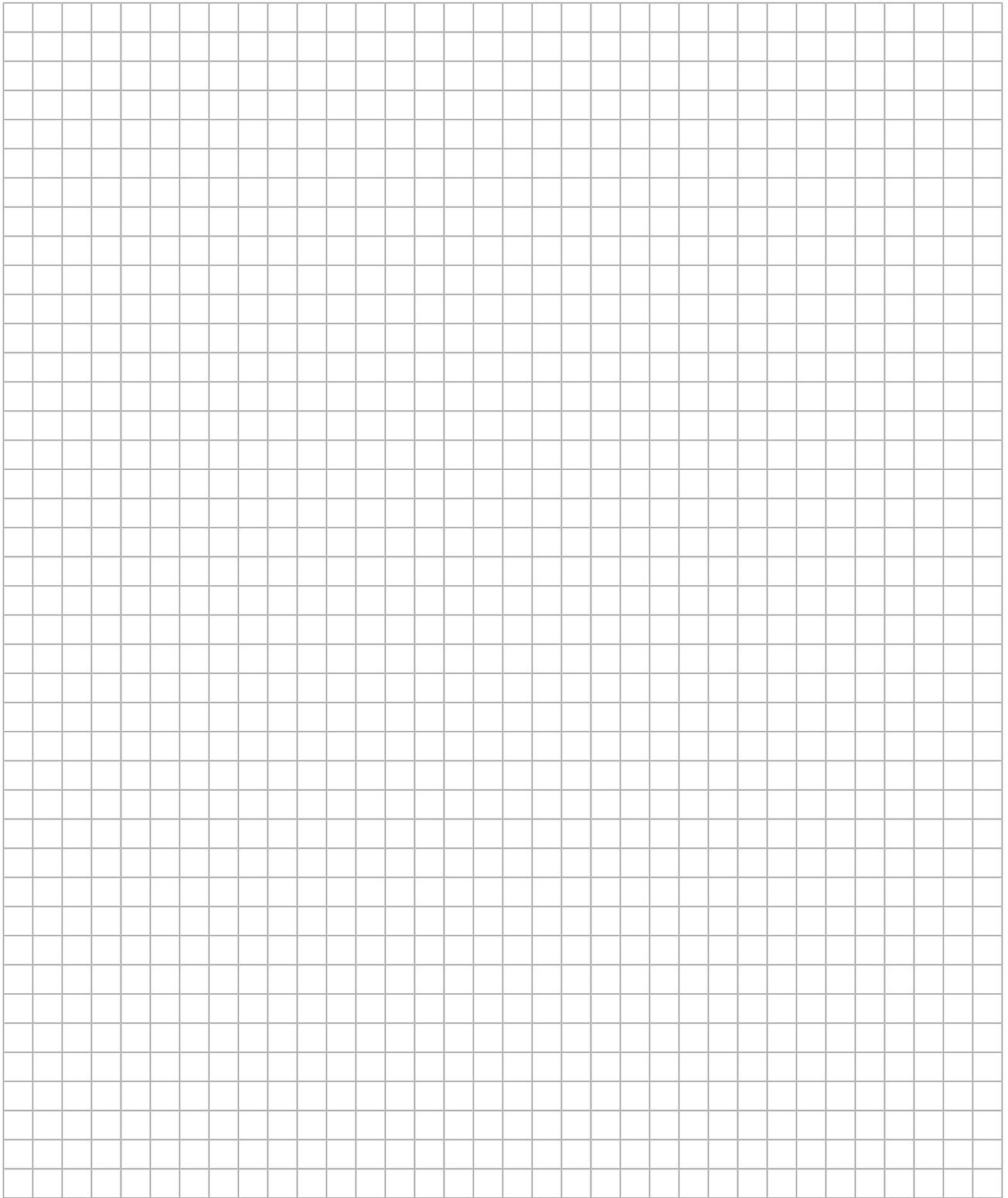
26 002 04 01

			AC	AD	G6	G10	LB	Z4	Z5	G2
S97	AT311 AT312	DRN90S	179	140	200	280	281	79	268	300
		DRM90L					313			
		DRN100LM	197	157			359			
		DRN112M	221	170			387			
	AT321	DRN132S	221	170	250	350	437	79	315	
	AT421 AT422	DRN90L	179	140	250	350	313	123	358	
		DRN100LS	197	157			309			
		DRN100L					359			
		DRN112M	221	170			387			
		DRN132S	221	170			437			
	AT541 AT542	DRN132S	221	170	350	470	437	154	473	
		DRN132M	261	228			439			
		DRN132L					464			
		DRN160M	316	253			532			
		DRN160L					532			
		DRN180M	357	268			557			
DRN180L		557								











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