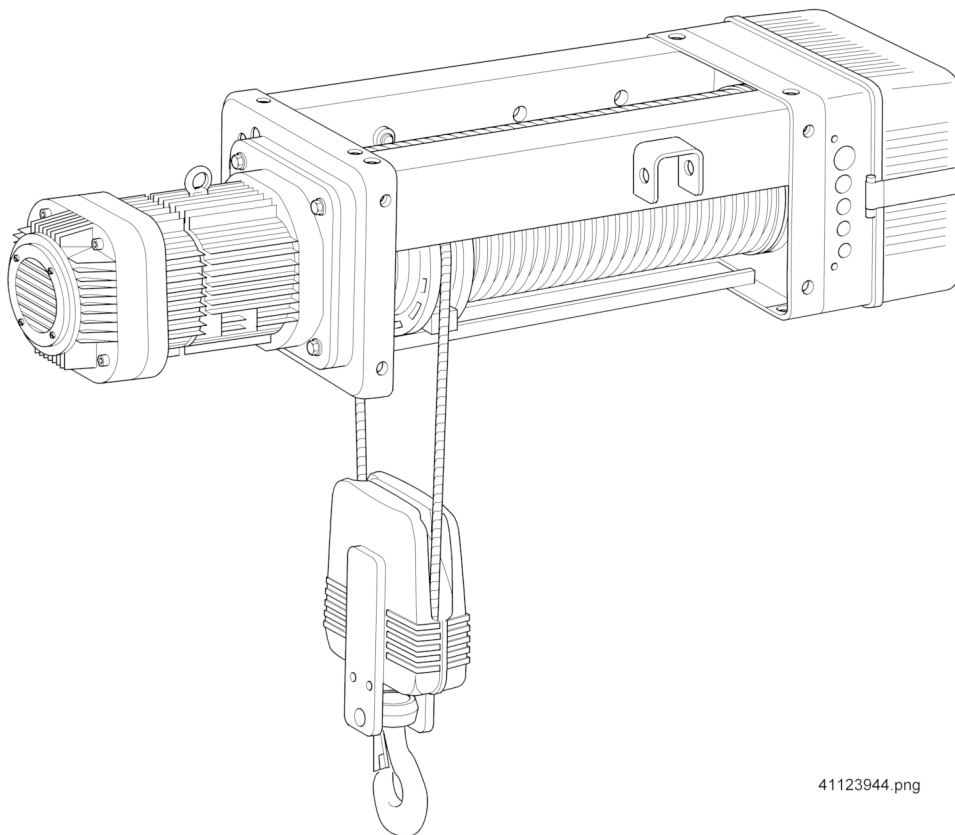


Spare parts list

Demag DH 1000 rope hoist



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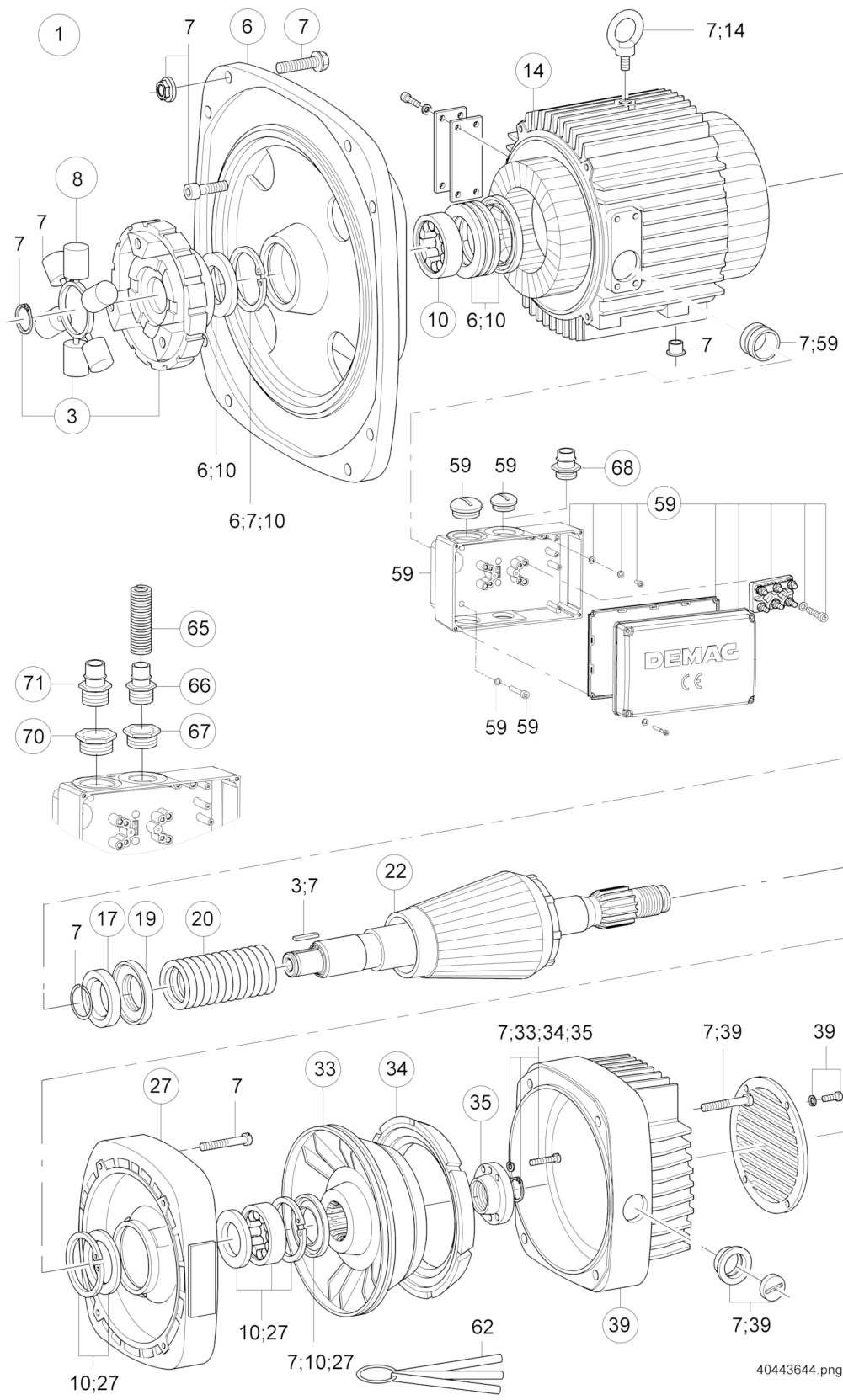
Item	Part no.	Quantity	Designation		Material	RSP
1	8007933	1	Motor set KBH140B4 DH1000		230400AB50	
3	35192333	1	Coupling set M H3ND-32K			
6	8465933	1	End shield set KBH140/1000	1)		
7	8483533	1	Mounting parts set KB140			
8	75226233	1	Roller spider coupling H3			
10	8409933	1	Bearing and sealing set KB140			
13	8103233	1	Stator KKBA140B 4AB S	2)	230/400V50	
17	8480833	1	Thrust ring set KB140	2)		
19	8482284	1	Disc spring pack KB 140		FEDST	
20	8477684	1	Pressure spring GbBI 8 x 62 x 114	1588 N	KBH140	
22	8430933	1	Rotor set KBA140B 4 K	2)		
27	8460633	1	End shield set BS KB 140			
33	8479133	1	Brake set light wide KB140		breit	
34	8478633	1	Conical brake ring KB140 b			
35	8471433	1	Clamping nut set KB140			
39	8409733	1	Brake cover set ZN+STD	3)	KB140	
39	8409833	1	Brake cover set STD+STD		KB140	
59	8498533	1	Terminal box set KB140-160			
62	10015384	3	Feeler gauge set		KB 125	
65	89506144	1	Corrugated hose FFMYDNW17	4)	400017 SW	
66	82157044	1	Pipe socket M25X1,5 NW17	4)	PA 6.6	
67	79499444	1	Reduction M40-M25 M	4)	M40M25/OM	
68	82157444	1	Pipe socket M40X1,5 NW37		PA 6.6	
70	79499344	1	Reduction M50-M32 M	4)	M50M32/OM	
71	82157344	1	Pipe socket M32X1,5 NW37	4)	PA 6.6	

21731144001

1) Sealing surfaces between motor and gearbox flange to be sealed with Loctite 573. Part no. 033 068 44.
2) When ordering a rotor or stator, an air gap adjustment set (item no. 17) and feeler gauge set (item no. 62) must also be ordered for adjusting the theoretical air gap (0,40 mm).
3) For service in arduous conditions, galvanized brake surface.
4) Only for mechanical microspeed.

Main hoist motor KBH 160 B 4
Main/creep hoist motor KBH 160 B 2/12 - F 6

DH 1000



Main hoist motor KBH 160 B 4

Main/creep hoist motor KBH 160 B 2/12 - F 6

DH 1000

Item	Part no.	Quantity	Designation		Material	RSP
1	8502733	1	Motor set KBH160B4 DH1000		230400AB50	
1	8502833	1	Motor set KBH160B2/12DH1000		400AB50	
3	35192433	1	Coupling set M/KBH H3ND-42			
6	8966033	1	End shield set KBH160/1000	1)		
7	8983533	1	Mounting parts set KB160			
8	75226233	1	Roller spider coupling H3			
10	8909933	1	Bearing and sealing set KB160			
14	8603233	1	Stator KBA160B4AB	2)	230/400V50	
14	8603333	1	Stator KBH160B2/12ABS	2)	400V50	
17	8980833	1	Thrust ring set KB160	2)		
19	8982233	1	Disc spring set KB 160			
20	8977784	1	Pressure spring 7 x67 x144 GbGn	KBH 160 B 2/12, 574 N	KBH160	
20	8977684	1	Pressure spring 9,5 x69,5 x130 GbBl	KBH 160 B 4, 1775 N	KBH160	
22	8932733	1	Rotor set KBA160B4 GTR	2)		
22	8933633	1	Rotor KBH160B12GTR S	2)		
27	8960633	1	End shield set BS KB 160			
33	8979133	1	Brake set light wide KB160			
34	8974633	1	Conical brake ring KB160 b		breit	
35	8971433	1	Clamping nut set KB160			
39	8909833	1	Brake cover set STD+STD		KB160	
39	8909733	1	Brake cover set ZN+STD	3)	KB160	
59	8498533	1	Terminal box set KB140-160			
62	10015384	3	Feeler gauge set		KB 125	
65	89506144	1	Corrugated hose FFMYDNW17	4)	400017 SW	
66	82157044	1	Pipe socket M25X1,5 NW17	4)	PA 6.6	
67	79499444	1	Reduction M40-M25 M	4)	M40M25/OM	
68	82157444	1	Pipe socket M40X1,5 NW37		PA 6.6	
70	79499344	1	Reduction M50-M32 M	4)	M50M32/OM	
71	82157344	1	Pipe socket M32X1,5 NW37	4)	PA 6.6	

21731144002

1) Sealing surfaces between motor and gearbox flange to be sealed with Loctite 573. Part no. 033 068 44.
2) When ordering a rotor or stator, an air gap adjustment set (item no. 17) and feeler gauge set (item no. 62) must also be ordered for adjusting the theoretical air gap (0,45 mm).
3) For service in arduous conditions, galvanized brake surface.
4) Only for mechanical microspeed.

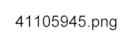
Item	Part no.	Quantity	Designation		Material	RSP
1	9001833	1	Motor set KBH180B2/12DH1010		400AB50	
3	35191933	1	Coupling set M H3ND-48			
6	9468433	1	End shield set KBH180/1000	1)		
7	9483533	1	Mounting parts set KB180			
8	75226233	1	Roller spider coupling H3			
10	9409933	1	Bearing and sealing set KB180			
14	9102733	1	Stator KBH180B 2/12 S	2)	400V50	
17	9480833	1	Thrust ring set KB180	2)		
19	9482233	1	Disc spring set KB 180			
20	9477784	1	Pressure spring 7,5 x74,5 x197 GbGn	739 N	KBH180	
22	9432433	1	Rotor set KBH180B12/2	2)		
27	9460633	1	End shield set BS KB 180			
33	9475533	1	Brake light wide KB180 X			
34	9474633	1	Conical brake ring KB180 b		breit	
35	9471433	1	Clamping nut set KB180			
39	9409833	1	Brake cover set STD+STD	3)	KB180	
59	9409733	1	Brake cover set ZN+STD		KB180	
62	10015384	3	Feeler gauge set		KB 125	
68	82157444	1	Pipe socket M40X1,5 NW37		PA 6.6	

21731144003

1) Sealing surfaces between motor and gearbox flange to be sealed with Loctite 573. Part no. 033 068 44.

2) When ordering a rotor or stator, an air gap adjustment set (item no. 17) and feeler gauge set (item no. 62) must also be ordered for adjusting the theoretical air gap (0,50 mm).

3) For service in arduous conditions, galvanized brake surface.



Main hoist motor KBH 200 B 6

Main/creep hoist motor KBH 200 B 2/12 - F 6

DH 1000

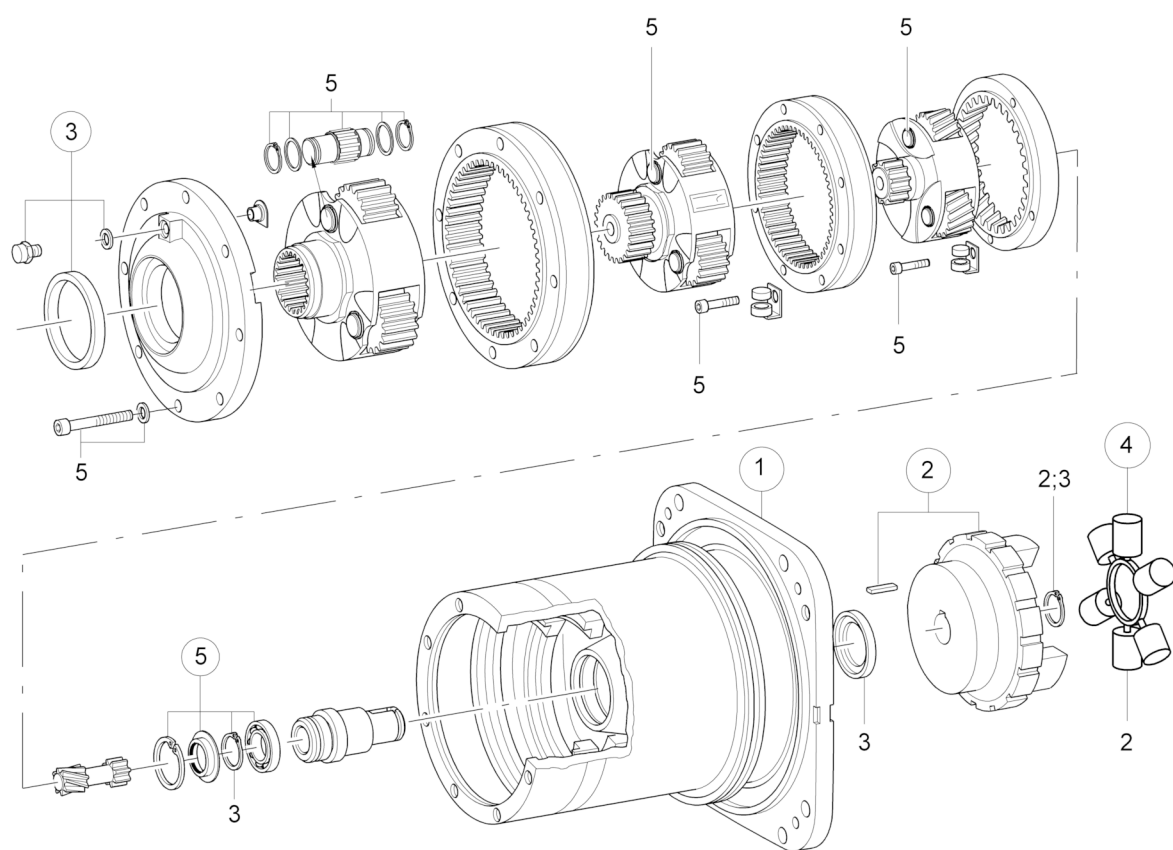
Item	Part no.	Quantity	Designation		Material	RSP
1	9502133	1	Motor set KBH200B6 DH1000		400AB50	
1	9502233	1	Motor set KBH200B2/12DH1000		400AB50	
3	35192033	1	Coupling set M H3ND-55L			
6	9963333	1	End shield set KBH200/1000	1)		
7	9983533	1	Mounting parts set KB200			
8	75226233	1	Roller spider coupling H3			
10	9909933	1	Bearing and sealing set KB200		-KB225	
14	9605733	1	Stator KBH200B 2/12 S	2)	400V50	
14	9605933	1	Stator KBH200B 6 AB S	2)	PTC;400V50	
17	9980833	1	Thrust ring set KB200-225	2)		
19	9982233	1	Disc spring set KB 225			
20	9977784	1	Pressure spring 10 x84 x154 GbGn	KBH 200 B 2/12 - F 6, 1000 N	KBH200	
20	9978384	1	Pressure spring 12 x86 x175 SiWs	KBH 200 B 6, 3050 N	SBH225	
22	9932433	1	Rotor KBH200B 2/12 S	2)		
22	9932833	1	Rotor KBA200B 6 GTR S	2)		
27	9960633	1	End shield set BS KB 200			
33	9970533	1	Brake set light wide KB200	KBH 200 B 6		
33	9972533	1	Brake light wide KB200 X	KBH 200 B 2/12 - F 6		
34	9972833	1	Conical brake ring set A-KB200 b			
35	9971433	1	Clamping nut set KB200		-KB225	
39	9909833	1	Brake cover set STD+STD		KB200	
39	9909733	1	Brake cover set ZN+STD	3)	KB200	
59	9498533	1	Terminal box set KB180-225			
62	10015384	3	Feeler gauge set		KB 125	
65	89506044	1	Corrugated hose FFMYDNW23	4)	400023 SW	
66	82157144	1	Pipe socket M25X1,5 NW24	4)	PA 6.6	
67	79499444	2	Reduction M40-M25 M	4)	M40M25/OM	
68	82157444	1	Pipe socket M40X1,5 NW37	4)	PA 6.6	
70	79499344	1	Reduction M50-M32 M	4)	M50M32/OM	
71	82157344	1	Pipe socket M32X1,5 NW37	4)	PA 6.6	

21731144004

- 1) Sealing surfaces between motor and gearbox flange to be sealed with Loctite 573. Part no. 033 068 44.
- 2) When ordering a rotor or stator, an air gap adjustment set (item no. 17) and feeler gauge set (item no. 62) must also be ordered for adjusting the theoretical air gap (0,50 mm).
- 3) For service in arduous conditions, galvanized brake surface.
- 4) Only for mechanical microspeed.

3-stage, planetary gearbox,
Planetary gear combination with relevant motor
for two hoist speeds

DH 1000



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3-stage, planetary gearbox, Planetary gear combination with relevant motor for two hoist speeds

DH 1000

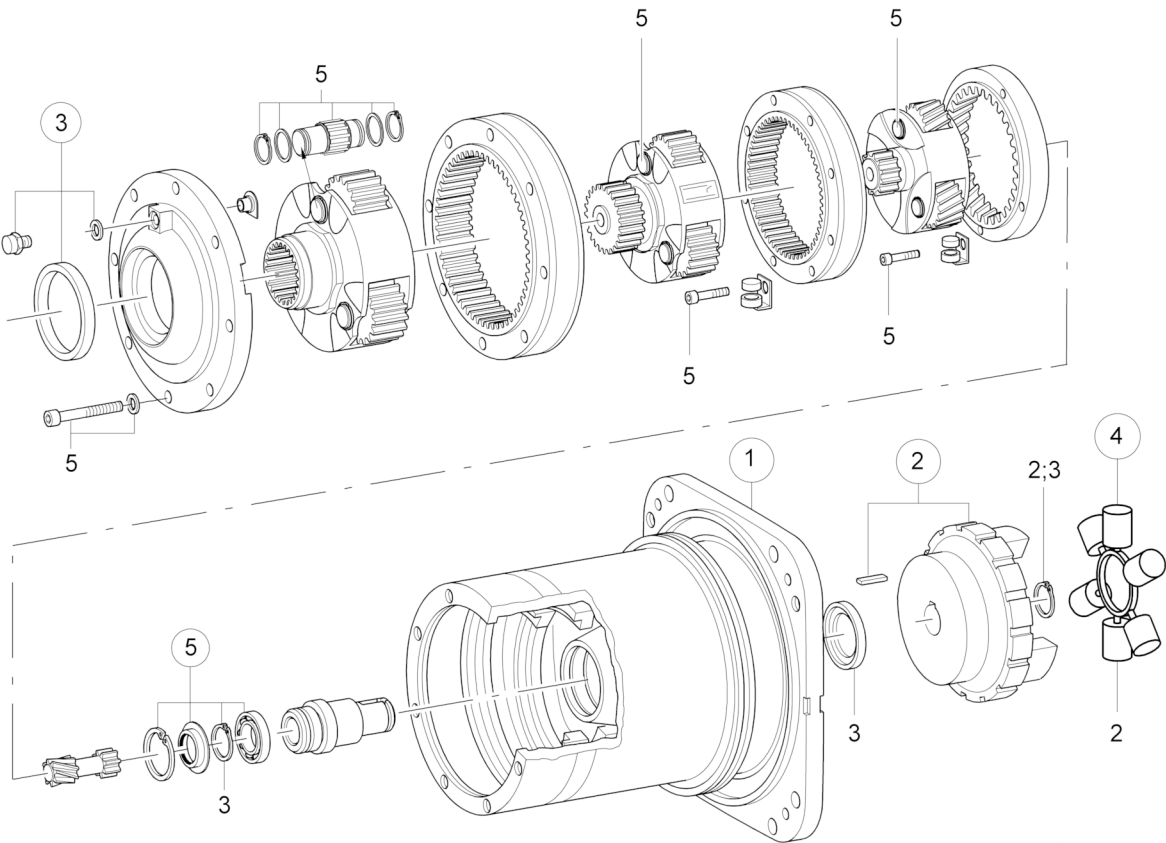
Item	Part no.	Quantity	Designation		Material	RSP
1			Gearbox for motor ZBA	1)		
1			Gearbox for motor KBH 160 B2/12	2), 3), 4)		
1	82452133	1	Gearbox set DH1000 3ST	c/w items 2 - 5, DH 1050 V1, i = 260,6	I=260,6	
1	82452233	1	Gearbox set DH1000 3ST	c/w items 2 - 5, DH 1040, 1032 V1, i = 226,8	I=226,8	
1	82452333	1	Gearbox set DH1000 3ST	c/w items 2 - 5, DH 1025 V1, i = 190,6	I=190,6	
1			Gearbox for motor KBH 180 B2/12	2), 3), 4)		
1	82452233	1	Gearbox set DH1000 3ST	c/w items 2 - 5, DH 1063 V2, i = 226,8	I=226,8	
1	82452333	1	Gearbox set DH1000 3ST	c/w items 2 - 5, DH 1050 V2, i = 190,6	I=190,6	
1	82452433	1	Gearbox set DH1000 3ST	c/w items 2 - 5, DH 1040, 1032 V2, i = 141,2	I=141,2	
1	82452533	1	Gearbox set DH1000 3ST	c/w items 2 - 5, DH 1025 V2, i = 112,3	I=112,3	
1			Gearbox for motor KBH 200 B2/12	2), 3), 4)		
1	82453633	1	Gearbox set DH1000 3ST	c/w items 2 - 5, DH 1063 V3, i = 165,9	I=165,9	
1	82453733	1	Gearbox set DH1000 3ST	c/w items 2 - 5, DH 1050 V3, i = 133,6	I=133,6	
1	82453833	1	Gearbox set DH1000 3ST	c/w items 2 - 5, DH 1040, 1032 V3, i = 103,2	I=103,2	
1	82453933	1	Gearbox set DH1000 3ST	c/w items 2 - 5, DH 1025 V3, i = 85,4	I=85,4	
2	35194533	1	Coupling set G H3ND-55			
3	82415033	1	Seal set DH1000		Getriebe	
4	75226233	1	Roller spider coupling H3			
5	82417033	1	Bearing set DH1000 3Stuf	5)	Getriebe	

21731144005

- 1) When ordering this sub-assembly (individual component parts are not supplied), please indicate the DH hoist serial number and order number. These data are specified on the rating plates.
- 2) When replacing a complete gearbox, it must always be ordered with a new drum bearing set.
- 3) Quantity 6 litre, part no. 472 930 44 (2.5 kg).
- 4) Cannot be used in connection with ZBA motors.
- 5) Sealing surfaces between gearbox cover, internally toothed wheel rim and gearbox housing to be sealed with Loctite 573. Part no. 033 068 44.

3-stage, planetary gearbox,
Planetary gear combination with relevant motor
for one hoist speed

DH 1000



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3-stage, planetary gearbox, Planetary gear combination with relevant motor for one hoist speed

DH 1000

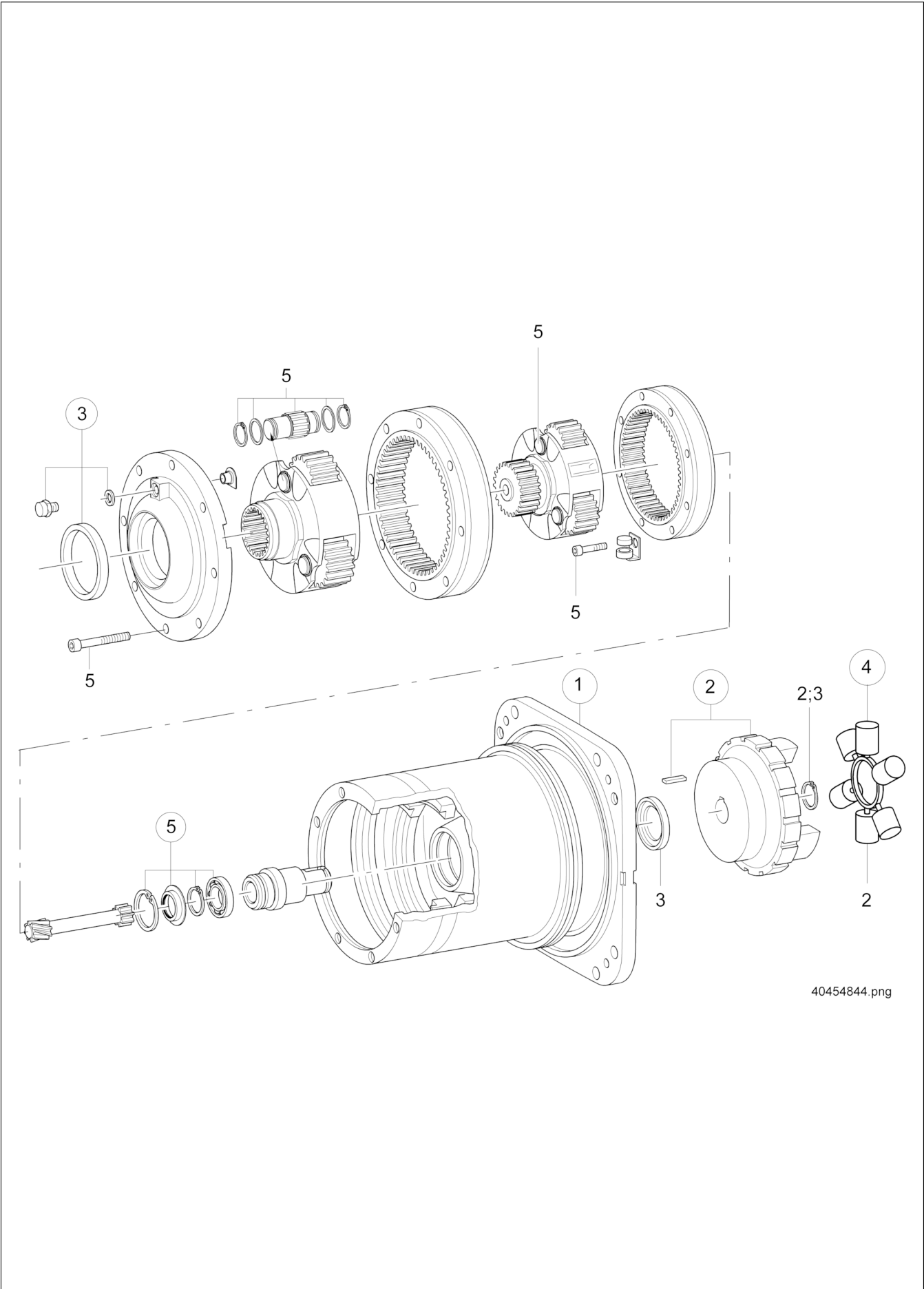
Item	Part no.	Quantity	Designation		Material	RSP
1			Gearbox for motor ZBA	1)		
1			Gearbox for motor KBH 140 B4	2), 3), 4)		
1	82452333	1	Gearbox set DH1000 3ST	c/w items 2 - 5, DH 1063 V1, i = 190,6	I=190,6	
1	82452433	1	Gearbox set DH1000 3ST	c/w items 2 - 5, DH 1050 V1, i = 141,2	I=141,2	
1	82452533	1	Gearbox set DH1000 3ST	c/w items 2 - 5, DH 1040, 1032 V1, i = 112,3	I=112,3	
1	82452633	1	Gearbox set DH1000 3ST	c/w items 2 - 5, DH 1025 V1, i = 89,8	I= 89,8	
1			Gearbox for motor KBH 160 B4	2), 3), 4)		
1	82452533	1	Gearbox set DH1000 3ST	c/w items 2 - 5, DH 1063 V2, i = 112,3	I=112,3	
1	82452633	1	Gearbox set DH1000 3ST	c/w items 2 - 5, DH 1050 V2, i = 89,8	I= 89,8	
1	82452733	1	Gearbox set DH1000 3ST	c/w items 2 - 5, DH 1040, 1032 V2, i = 72,7	I= 72,7	
1	82452833	1	Gearbox set DH1000 3ST	c/w items 2 - 5, DH 1025 V2, i = 59,6	I= 59,6	
1			Gearbox for motor KBH 200 B6	2), 3), 4)		
1	82452933	1	Gearbox set DH1000 3ST	c/w items 2 - 5, DH 1063 V3, i = 50,3	I= 50,3	
2	35194533	1	Coupling set G H3ND-55			
3	82415033	1	Seal set DH1000		Getriebe	
4	75226233	1	Roller spider coupling H3			
5	82417033	1	Bearing set DH1000 3Stuf	5)	Getriebe	

21731144006

- 1) When ordering this sub-assembly (individual component parts are not supplied), please indicate the DH hoist serial number and order number. These data are specified on the rating plates.
- 2) When replacing a complete gearbox, it must always be ordered with a new drum bearing set.
- 3) Quantity 6 litre, part no. 472 930 44 (2.5 kg).
- 4) Cannot be used in connection with ZBA motors.
- 5) Sealing surfaces between gearbox cover, internally toothed wheel rim and gearbox housing to be sealed with Loctite 573. Part no. 033 068 44.

2-stage, planetary gearbox,
Planetary gear combination with relevant motor
for one hoist speed

DH 1000



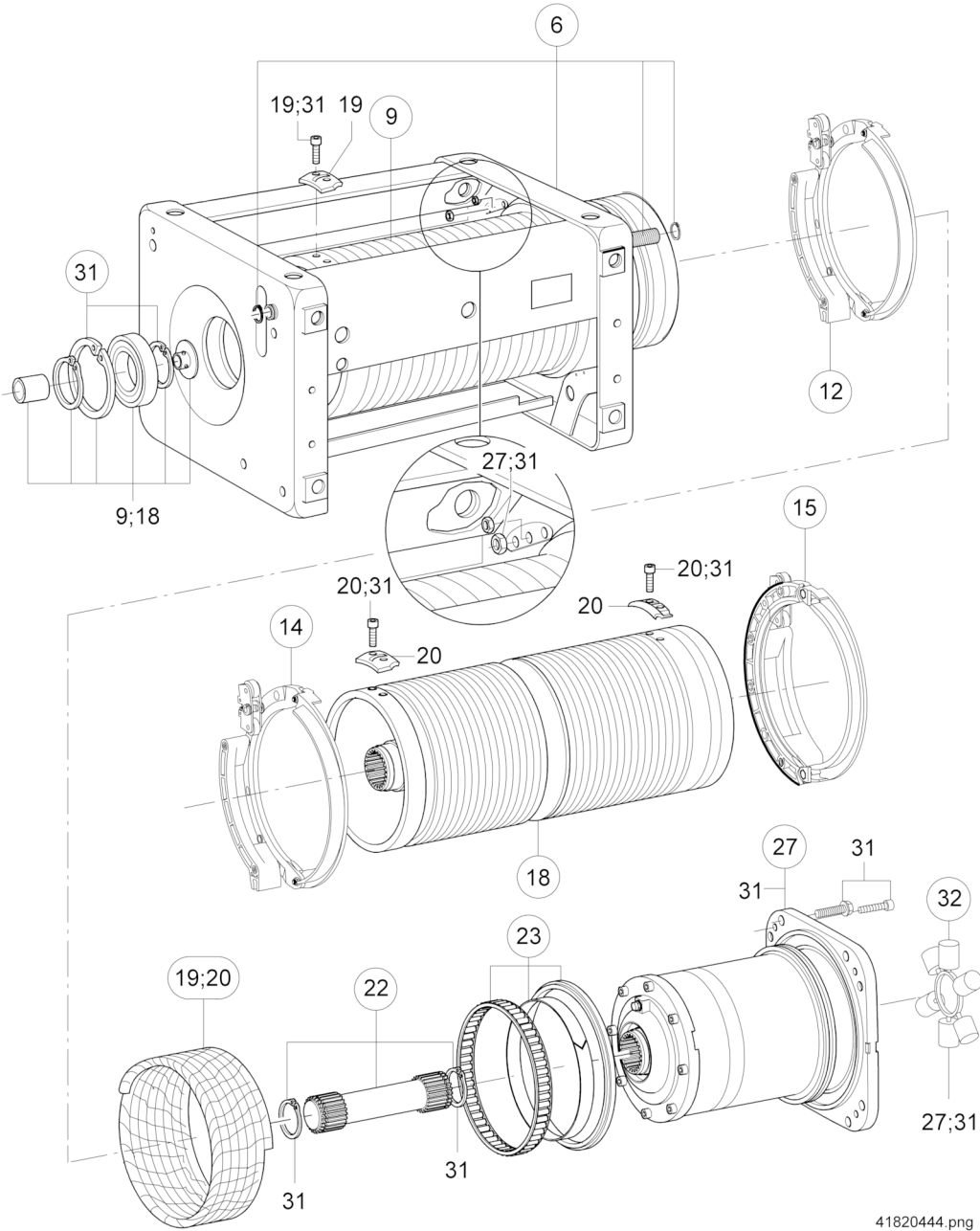
2-stage, planetary gearbox,
Planetary gear combination with relevant motor
for one hoist speed

DH 1000

Item	Part no.	Quantity	Designation		Material	RSP
1			Gearbox for motor ZBA	1)		
1			Gearbox for motor KBH 200 B6	2), 3), 4)		
1	82453133	1	Gearbox set DH1000 2ST	c/w items 2 - 5, DH 1050 V3, i = 37,6	I= 37,6	
1	82453233	1	Gearbox set DH1000 2ST	c/w items 2 - 5, DH 1040, 1032 V3, i = 32,8	I= 32,8	
1	82453333	1	Gearbox set DH1000 2ST	c/w items 2 - 5, DH 1025 V3, i = 24,5	I= 24,5	
2	35194533	1	Coupling set G H3ND-55			
3	82415033	1	Seal set DH1000		Getriebe	
4	75226233	1	Roller spider coupling H3			
5	82416933	1	Bearing set DH1000 2Stuf	5)	Getriebe	

21731144007

- 1) When ordering this sub-assembly (individual component parts are not supplied), please indicate the DH hoist serial number and order number. These data are specified on the rating plates.
- 2) When replacing a complete gearbox, it must always be ordered with a new drum bearing set.
- 3) Quantity 6 litre, part no. 472 930 44 (2.5 kg).
- 4) Cannot be used in connection with ZBA motors.
- 5) Sealing surfaces between gearbox cover, internally toothed wheel rim and gearbox housing to be sealed with Loctite 573. Part no. 033 068 44.



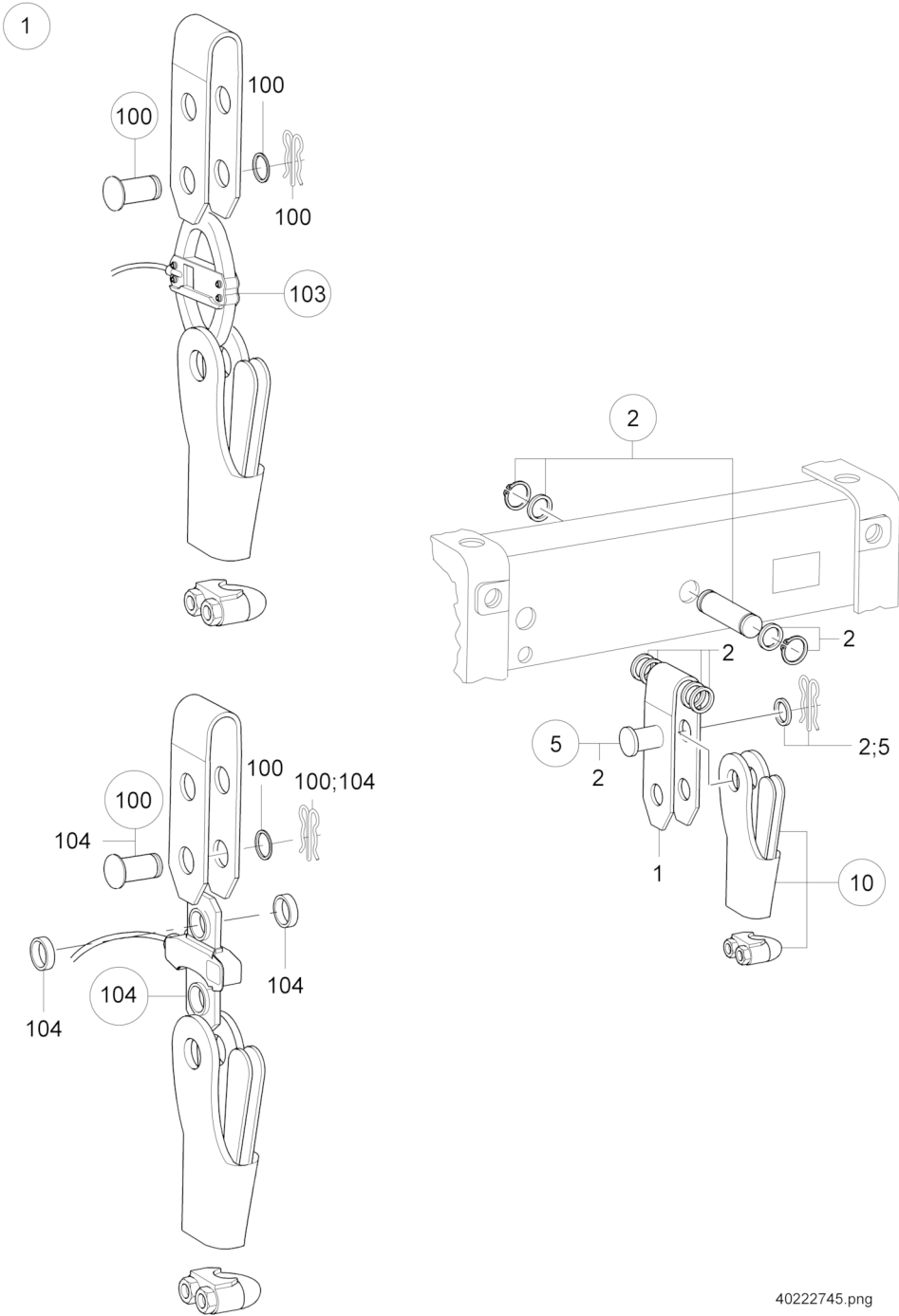
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Frame, drum, rope guide, rope

Item	Part no.	Quantity	Designation	Material	RSP
6	82429033	1	Frame DH1000 H16	Set Kombi	
6	82429233	1	Frame DH1000 H24	Set Kombi	
6	82429433	1	Frame DH1000 H40	Set Kombi	
6	82429633	1	Frame DH1000 H51	Set Kombi	
9	82430233	1	Rope drum 1ril H16 20	1/1, 2/1, 4/1 DH1000	
9	82430433	1	Rope drum 1ril H24 20	1/1, 2/1, 4/1 DH1000	
9	82430633	1	Rope drum 1ril H40 20	1/1, 2/1, 4/1 DH1000	
9	82430833	1	Rope drum 1ril H51 20	1/1, 2/1, 4/1 DH1000	
12	82480233	1	Rope guide left 10 /20 LI	1/1, 2/1, 4/1, Acid-Resistant PA12 L1700	
14	82481133	1	Rope guide left 10 /14	2/2, 4/2, Acid-Resistant PA12 L1700	
15	82481833	1	Rope guide right 10 /14 Re	2/2, 4/2, Acid-Resistant PA12 L1700	
18	44112933	1	Rope drum 2ril H51 14	2/2, 4/2 DH1000	
18	82431233	1	Rope drum 2ril H16 14	2/2, 4/2 DH1000	
18	82431433	1	Rope drum 2ril H24 14	2/2, 4/2 DH1000	
18	82431633	1	Rope drum 2ril H40 14	2/2, 4/2 DH1000	
19	82440033	1	Wire rope set DH1000 20 H16 1/1	DH 1063 38,5m	
19	82440133	1	Wire rope set DH1000 20 H16 1/1	DH 1050, 1040, 1032, 1025 38,5m	
19	82440233	1	Wire rope set DH1000 20 H24 1/1	DH 1063 54,1m	
19	82440333	1	Wire rope set DH1000 20 H24 1/1	DH 1050, 1040, 1032, 1025 54,1m	
19	82440433	1	Wire rope set DH1000 20 H40 1/1	DH 1063 86,1m	
19	82440533	1	Wire rope set DH1000 20 H40 1/1	DH 1050, 1040, 1032, 1025 86,1m	
19	82440633	1	Wire rope set DH1000 20 H51 1/1	DH 1063 108,1m	
19	82440733	1	Wire rope set DH1000 20 H51 1/1	DH 1050, 1040, 1032, 1025 108,1m	
19	82440833	1	Wire rope set DH1000 20 H16 2/1	DH 1032, 1025 40,0m	
19	82440933	1	Wire rope set DH1000 20 H24 2/1	DH 1063, 1050, 1040 55,3m	
19	82441033	1	Wire rope set DH1000 20 H24 2/1	DH 1032, 1025 55,7m	
19	82441133	1	Wire rope set DH1000 20 H40 2/1	DH 1063, 1050, 1040 87,3m	
19	82441233	1	Wire rope set DH1000 20 H40 2/1	DH 1032, 1025 87,7m	
19	82441333	1	Wire rope set DH1000 20 H51 2/1	DH 1063, 1050, 1040 109,3m	
19	82441433	1	Wire rope set DH1000 20 H51 2/1	DH 1032, 1025 109,7m	
19	82441533	1	Wire rope set DH1000 20 H16 4/1	DH 1032, 1025 43,2m	
19	82441633	1	Wire rope set DH1000 20 H24 4/1	DH 1032, 1025 58,8m	
19	82441733	1	Wire rope set DH1000 20 H40 4/1	DH 1063, 1050, 1040 89,7m	
19	82441833	1	Wire rope set DH1000 20 H40 4/1	DH 1032, 1025 90,8m	
19	82441933	1	Wire rope set DH1000 20 H51 4/1	DH 1063, 1050, 1040 111,7m	
19	82442033	1	Wire rope set DH1000 20 H51 4/1	DH 1032, 1025 112,8m	
19	82448133	1	Wire rope set DH1000 20 H16 2/1	DH 1063, 1050, 1040 39,6m	
19	82448233	1	Wire rope set DH1000 20 H24 4/1	DH 1063, 1050, 1040 57,7m	
19	82449133	1	Wire rope set DH1000 20 H16 4/1	DH 1063, 1050, 1040 42,0m	
20	82442133	1	Wire rope set DH1000 14 H16 2/2	DH 1063 2x 22,6m	
20	82442233	1	Wire rope set DH1000 14 H16 2/2	DH 1050, 1040, 1032, 1025 2x 22,6m	
20	82442333	1	Wire rope set DH1000 14 H24 2/2	DH 1063 2x 33,8m	
20	82442433	1	Wire rope set DH1000 14 H24 2/2	DH 1050, 1040, 1032, 1025 2x 33,8m	
20	82442533	1	Wire rope set DH1000 14 H40 2/2	DH 1063 2x 56,4m	
20	82442633	1	Wire rope set DH1000 14 H40 2/2	DH 1050, 1040, 1032, 1025 2x 56,4m	
20	82442733	1	Wire rope set DH1000 14 H51 2/2	DH 1063 2x 72,8m	
20	82442833	1	Wire rope set DH1000 14 H51 2/2	DH 1050, 1040, 1032, 1025 2x 72,8m	
20	82442933	1	Wire rope set DH1000 14 H16 4/2	DH 1063, 1050, 1040 47,1m	
20	82443033	1	Wire rope set DH1000 14 H16 4/2	DH 1032, 1025 47,6m	
20	82443133	1	Wire rope set DH1000 14 H24 4/2	DH 1063, 1050, 1040 69,3m	
20	82443233	1	Wire rope set DH1000 14 H24 4/2	DH 1032, 1025 69,8m	
20	82443333	1	Wire rope set DH1000 14 H40 4/2	DH 1063, 1050, 1040 114,5m	
20	82443433	1	Wire rope set DH1000 14 H40 4/2	DH 1032, 1025 115,0m	
20	82443533	1	Wire rope set DH1000 14 H51 4/2	DH 1063, 1050, 1040 147,3m	
20	82443633	1	Wire rope set DH1000 14 H51 4/2	DH 1032, 1025 147,8m	
22	82417633	1	Plug-in shaft DH1000 H16	1)	
22	82417733	1	Plug-in shaft DH1000 H24	1)	
22	82417833	1	Plug-in shaft DH1000 H40	1)	
22	82417933	1	Plug-in shaft DH1000 H51	1)	
23	82435733	1	Installation kit drum bearing 40Brt	old design, 2)	DH1000
23	82436133	1	Installation kit drum bearing 50Brt	2), 3)	DH1000
27			Gearbox	4), 5)	
31	82409633	1	Mounting parts set DH1000		
32	75226233	1	Roller spider coupling H3		

21731144008

- 1) Geared parts to be greased with Staburags NBU 12 K, part no. 472 933 44.
- 2) Grease compartment and roller bearing to be semi-filled with 140 g Staburags NBU 12 K, part no. 472 933 44 (100 g).
- 3) From serial number 270 001 the drum bearing can only be used with a new gearbox..
- 4) Sealing surfaces between motor and gearbox flange to be sealed with Loctite 573. Part no. 033 068 44.
- 5) Spare parts see chapter "Planetary gearbox".



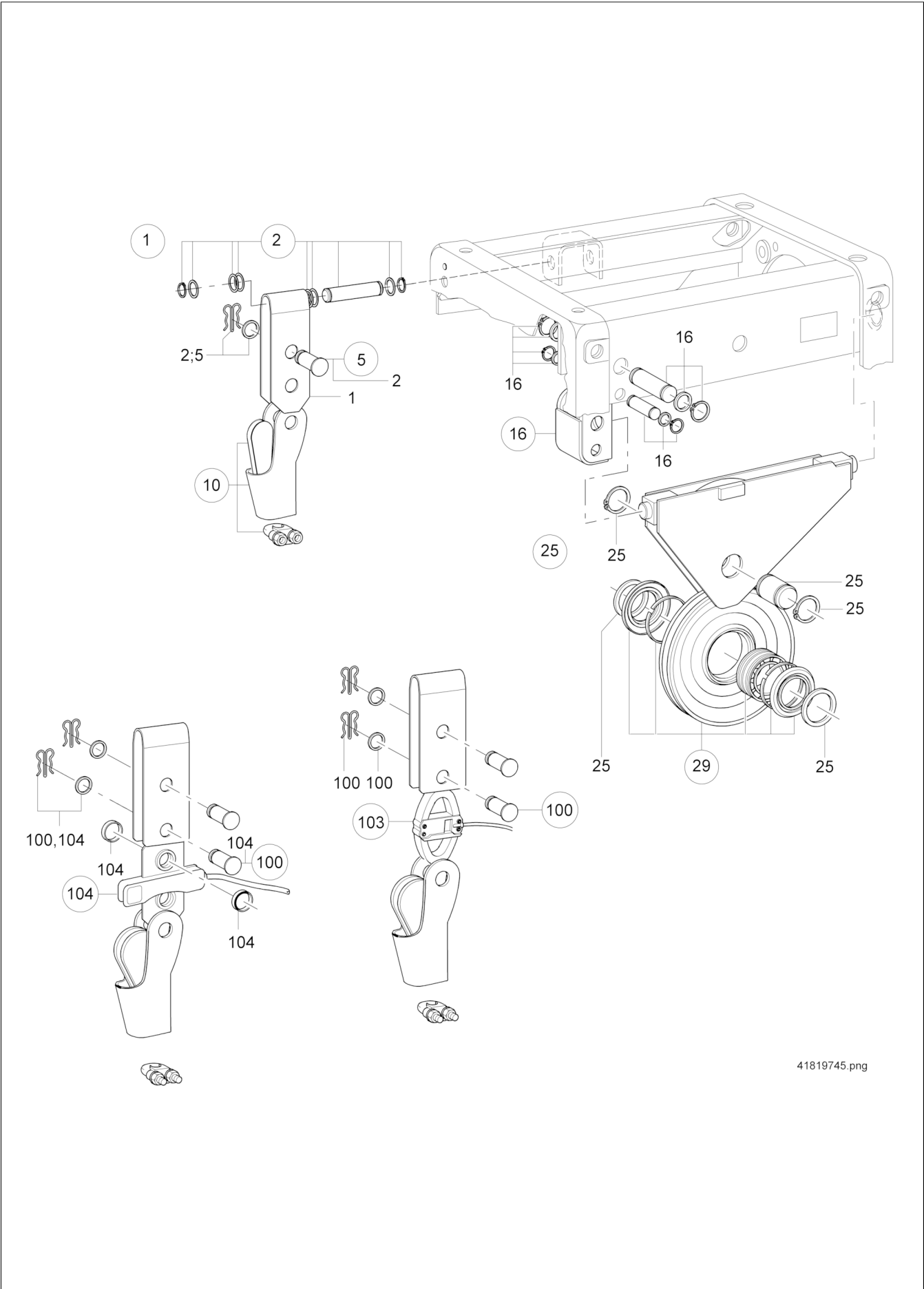
Rope retaining crosshead, 2/1 reeving

DH 1000

Item	Part no.	Quantity	Designation		Material	RSP
1	82850033	1	Rope wedge crosshead DH1000 Set	c/w items 2, 10, 1), 2)		
2	82457933	1	Pin connection set 2/1	1), 2)	DH1000	
5	82458033	1	Bolt connection set + spring clip	2), 3)	40x94	
10	58000433	1	Rope anchorage set DH1000			
100	82458033	1	Bolt connection set + spring clip	2), 3)	40x94	
103	49159444	1	Unit MGS 5,0 T	DH 1050	DH1050	
103	49160744	1	Unit MGS 6,25 T	DH 1063	DH1063	
103	49169444	1	Unit MGS 4,0 T	DH 1040	DH1040	
103	49179444	1	Unit MGS 3,15 T	DH 1032	DH1032	
103	49189444	1	Unit MGS 2,5 T	DH 1025	DH1025	
104	49160233	1	Strain gauge car.link set ZMS 6,25t		P1200	

21731144009

- 1) Check suspension of rope retaining crosshead. When fitting the rope retaining crosshead, it must be ensured that the retaining ring engages the groove in the pin. After fitting, it must be possible to turn the retaining ring easily.
- 2) The bearings must be lubricated with a suitable adhesive grease. Part no. 472 933 44.
- 3) Check during maintenance. Check play of setpin in the bore hole of the rope retaining crosshead plate (max. wear in the plate 1 mm) Make sure that the double spring clip is latched.



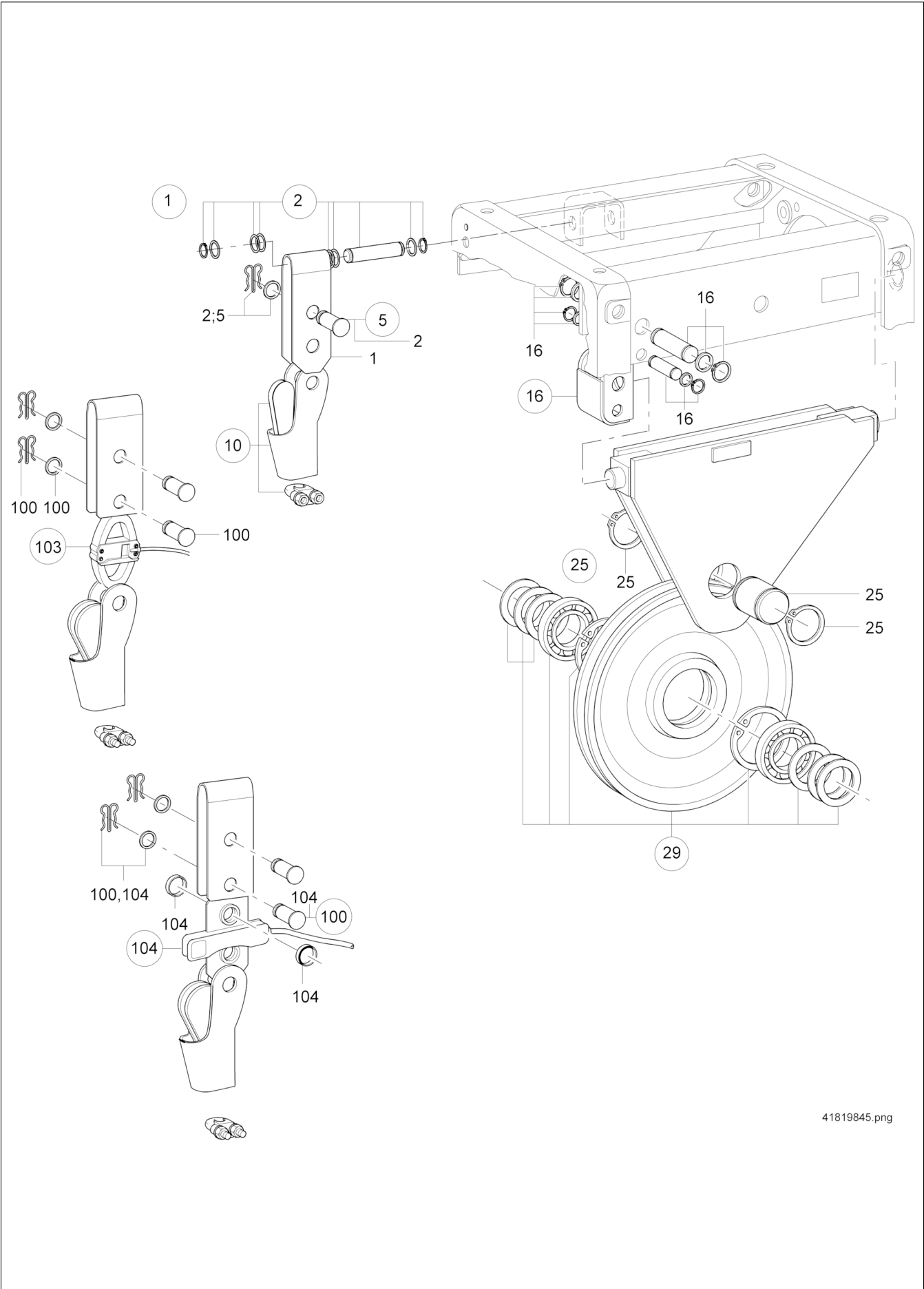
Rope retaining crosshead and return sheave 365/20, 4/1 reeving

DH 1063, 1050, 1040, 1032

Item	Part no.	Quantity	Designation		Material	RSP
1	82850033	1	Rope wedge crosshead DH1000 Set	c/w items 2, 10, 1), 2)		
2	82457933	1	Pin connection set 2/1	1), 2)	DH1000	
5	82458033	1	Bolt connection set + spring clip	2), 3)	40x94	
10	58000433	1	Rope anchorage set DH1000			
16	82835633	1	Mounting parts top block Set		DH 1000	
25	82834044	1	Top block 365 20 1000 4/1	c/w item 29, 2)		
29	82967833	1	Rope sheave Ufl. 2/1 2m		365/20	
100	82458033	1	Bolt connection set + spring clip	2), 3)	40x94	
103	49159444	1	Unit MGS 5,0 T	DH 1050	DH1050	
103	49160744	1	Unit MGS 6,25 T	DH 1063	DH1063	
103	49169444	1	Unit MGS 4,0 T	DH 1040	DH1040	
103	49179444	1	Unit MGS 3,15 T	DH 1032, 4)	DH1032	
104	49160233	1	Strain gauge car.link set ZMS 6,25t		P1200	

21731144010

- 1) Check suspension of rope retaining crosshead. When fitting the rope retaining crosshead, it must be ensured that the retaining ring engages the groove in the pin. After fitting, it must be possible to turn the retaining ring easily.
- 2) The bearings must be lubricated with a suitable adhesive grease. Part no. 472 933 44.
- 3) Check during maintenance. Check play of setpin in the bore hole of the rope retaining crosshead plate (max. wear in the plate 1 mm) Make sure that the double spring clip is latched.
- 4) Valid from 01.01.2001



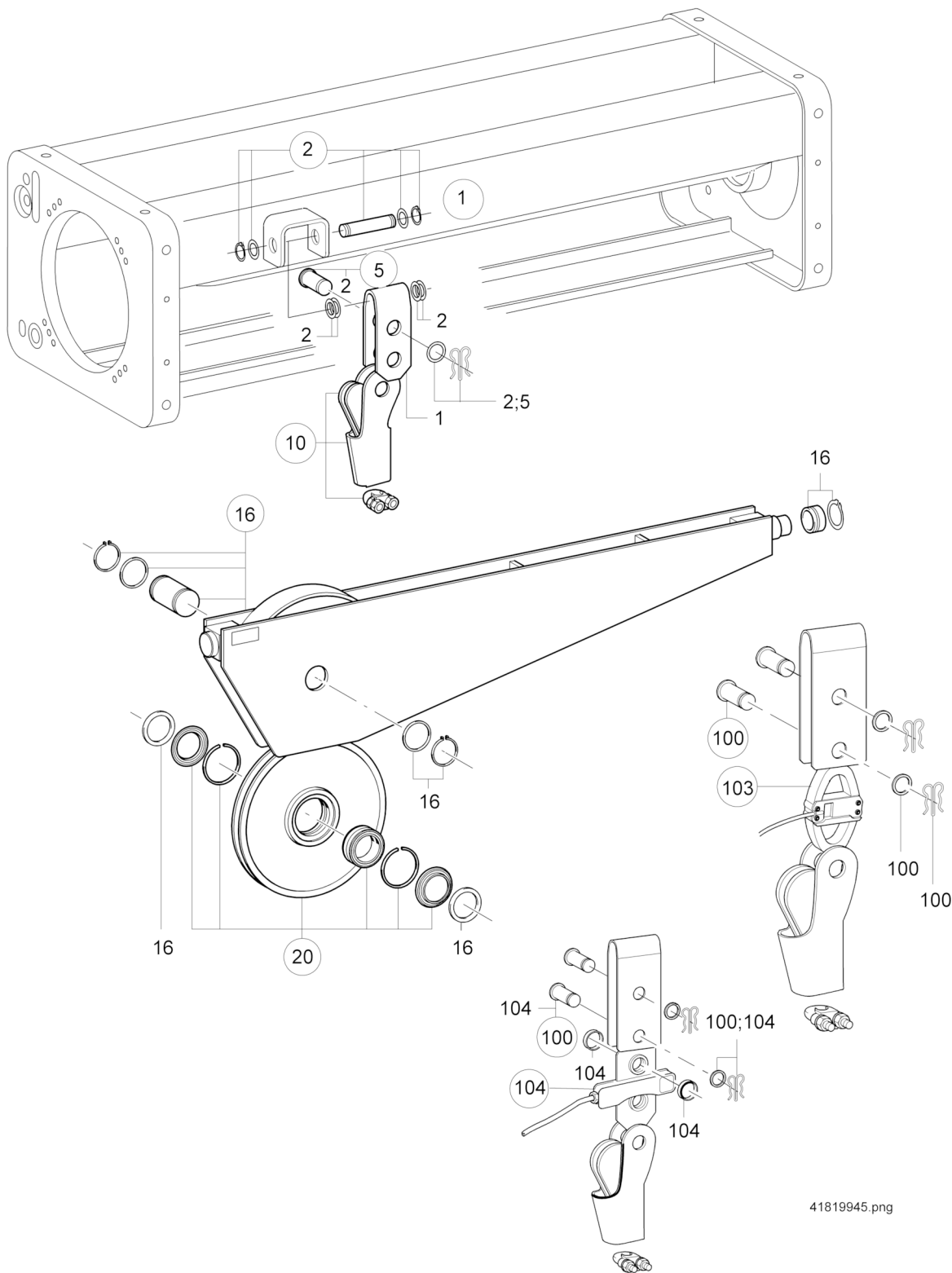
Rope retaining crosshead and return sheave 450/20, 4/1 reeving

DH 1032, 1025

Item	Part no.	Quantity	Designation		Material	RSP
1	82850033	1	Rope wedge crosshead DH1000 Set	c/w items 2, 10, 1), 2)		
2	82457933	1	Pin connection set 2/1	1), 2)	DH1000	
9	82458033	1	Bolt connection set + spring clip	2), 3)	40x94	
10	58000433	1	Rope anchorage set DH1000			
16	82835633	1	Mounting parts top block Set		DH 1000	
25	82836044	1	Top block 450 20 1000	c/w item 29, 2)		
29	82944633	1	Rope sheave Ufl.2/1 3m,4m		450/20	
100	82458033	1	Bolt connection set + spring clip	2), 3)	40x94	
103	49179444	1	Unit MGS 3,15 T	DH 1032, 4)	DH1032	
103	49189444	1	Unit MGS 2,5 T	DH 1025	DH1025	
104	49160233	1	Strain gauge car.link set ZMS 6,25t		P1200	

21731144011

- 1) Check suspension of rope retaining crosshead. When fitting the rope retaining crosshead, it must be ensured that the retaining ring engages the groove in the pin. After fitting, it must be possible to turn the retaining ring easily.
- 2) The bearings must be lubricated with a suitable adhesive grease. Part no. 472 933 44.
- 3) Check during maintenance. Check play of setpin in the bore hole of the rope retaining crosshead plate (max. wear in the plate 1 mm) Make sure that the double spring clip is latched.
- 4) Valid until 31.12.2000



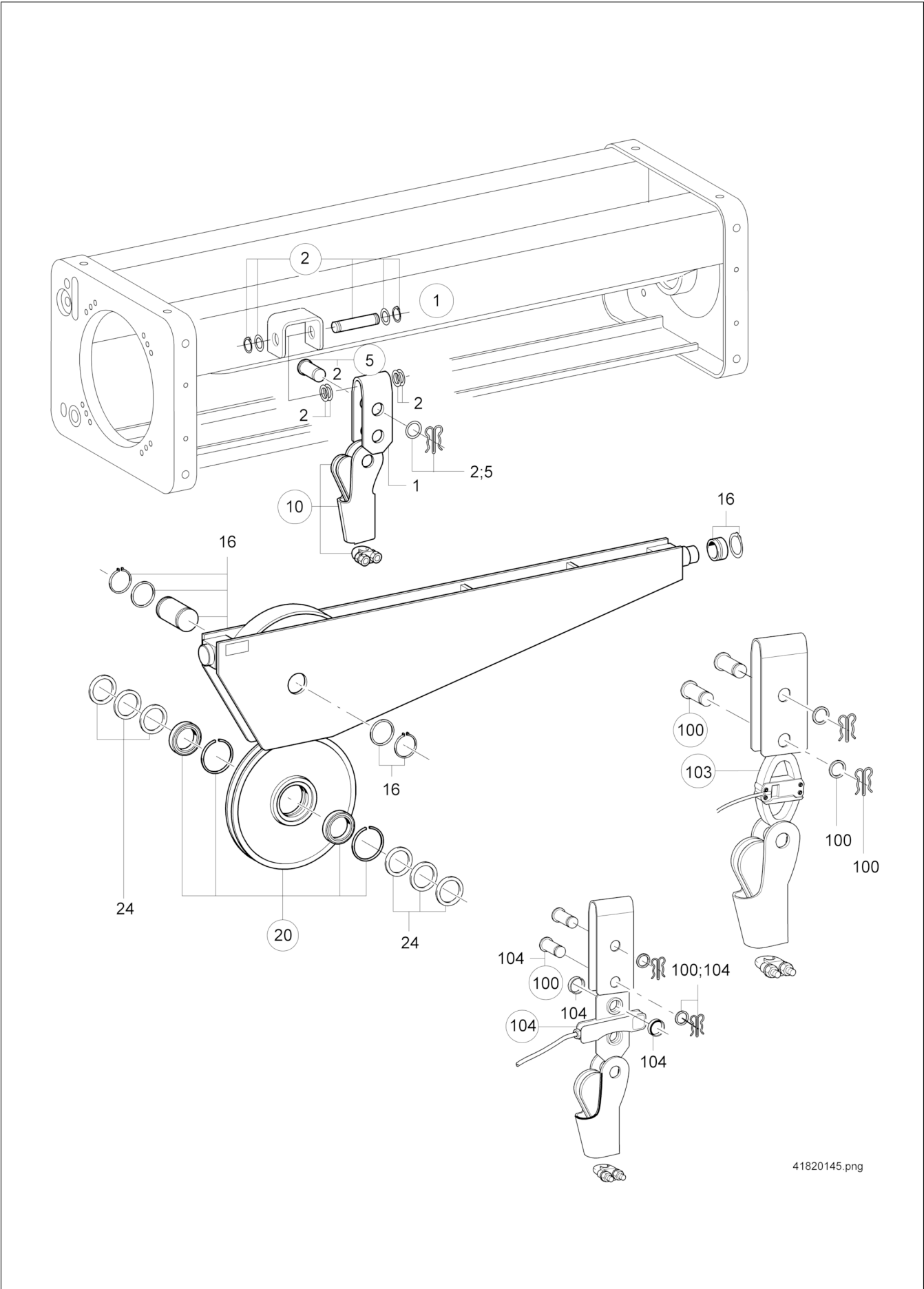
Rope retaining crosshead and return sheave 365/20, 4/1 reeving - H40 - H51, Design B

DH 1063, 1050, 1040, 1032

Item	Part no.	Quantity	Designation		Material	RSP
1	82850033	1	Rope wedge crosshead DH1000 Set	c/w items 2, 10, 1), 2)		
2	82457933	1	Pin connection set 2/1	1), 2)	DH1000	
5	82458033	1	Bolt connection set + spring clip	2), 3)	40x94	
10	58000433	1	Rope anchorage set DH1000			
16	55000846	1	Top block DH1063-40 4/1 H40	H40, c/w item 20, 2)	AUSF.B	
16	55000946	1	Top block DH1063-40 4/1 H51	H51, c/w item 20, 2)	AUSF.B	
20	82967833	1	Rope sheave Ufl. 2/1 2m		365/20	
100	82458033	1	Bolt connection set + spring clip	2), 3)	40x94	
103	49159444	1	Unit MGS 5,0 T	DH 1050	DH1050	
103	49160744	1	Unit MGS 6,25 T	DH 1063	DH1063	
103	49169444	1	Unit MGS 4,0 T	DH 1040	DH1040	
103	49179444	1	Unit MGS 3,15 T	DH 1032, 4)	DH1032	
104	49160233	1	Strain gauge car.link set ZMS 6,25t		P1200	

21731144012

- 1) Check suspension of rope retaining crosshead. When fitting the rope retaining crosshead, it must be ensured that the retaining ring engages the groove in the pin. After fitting, it must be possible to turn the retaining ring easily.
- 2) The bearings must be lubricated with a suitable adhesive grease. Part no. 472 933 44.
- 3) Check during maintenance. Check play of setpin in the bore hole of the rope retaining crosshead plate (max. wear in the plate 1 mm) Make sure that the double spring clip is latched.
- 4) Valid from 01.01.2001



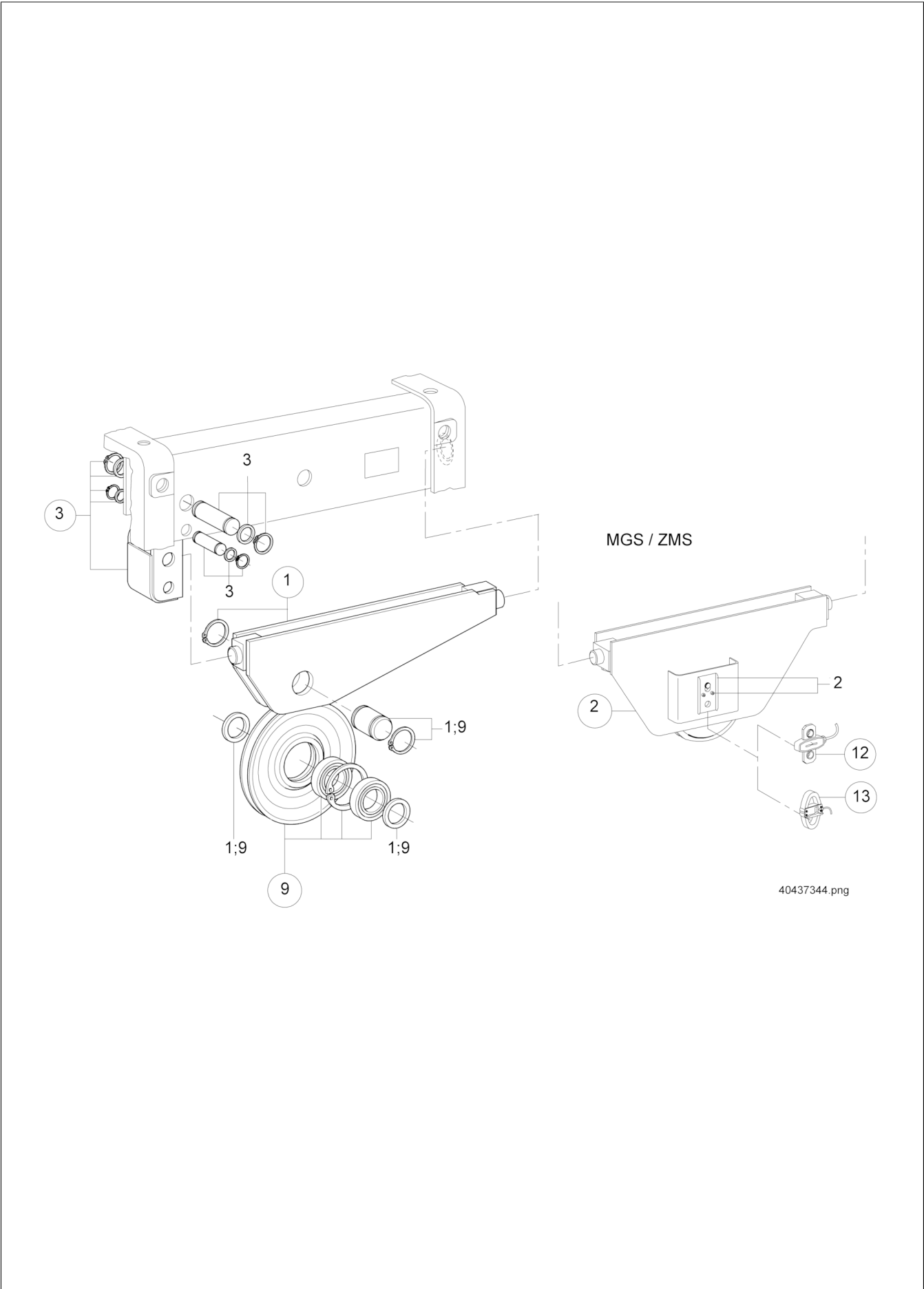
Rope retaining crosshead and return sheave 450/20, 4/1 reeving - H40 - H51, Design B

DH 1032, 1025

Item	Part no.	Quantity	Designation		Material	RSP
1	82850033	1	Rope wedge crosshead DH1000 Set	c/w items 2, 10, 1), 2)		
2	82457933	1	Pin connection set 2/1	1), 2)	DH1000	
5	82458033	1	Bolt connection set + spring clip	2), 3)	40x94	
10	58000433	1	Rope anchorage set DH1000			
16	55001146	1	Top block DH1032-25 4/1 H40	H40, c/w item 20, 2)	AUSF.B	
16	55001246	1	Top block DH1032-25 4/1 H51	H51, c/w item 20, 2)	AUSF.B	
20	82944633	1	Rope sheave Ufl.2/1 3m,4m		450/20	
100	82458033	1	Bolt connection set + spring clip	2), 3)	40x94	
103	49179444	1	Unit MGS 3,15 T	DH 1032, 4)	DH1032	
103	49189444	1	Unit MGS 2,5 T	DH 1025	DH1025	
104	49160233	1	Strain gauge car.link set ZMS 6,25t		P1200	

21731144013

- 1) Check suspension of rope retaining crosshead. When fitting the rope retaining crosshead, it must be ensured that the retaining ring engages the groove in the pin. After fitting, it must be possible to turn the retaining ring easily.
- 2) The bearings must be lubricated with a suitable adhesive grease. Part no. 472 933 44.
- 3) Check during maintenance. Check play of setpin in the bore hole of the rope retaining crosshead plate (max. wear in the plate 1 mm) Make sure that the double spring clip is latched.
- 4) Valid until 31.12.2000

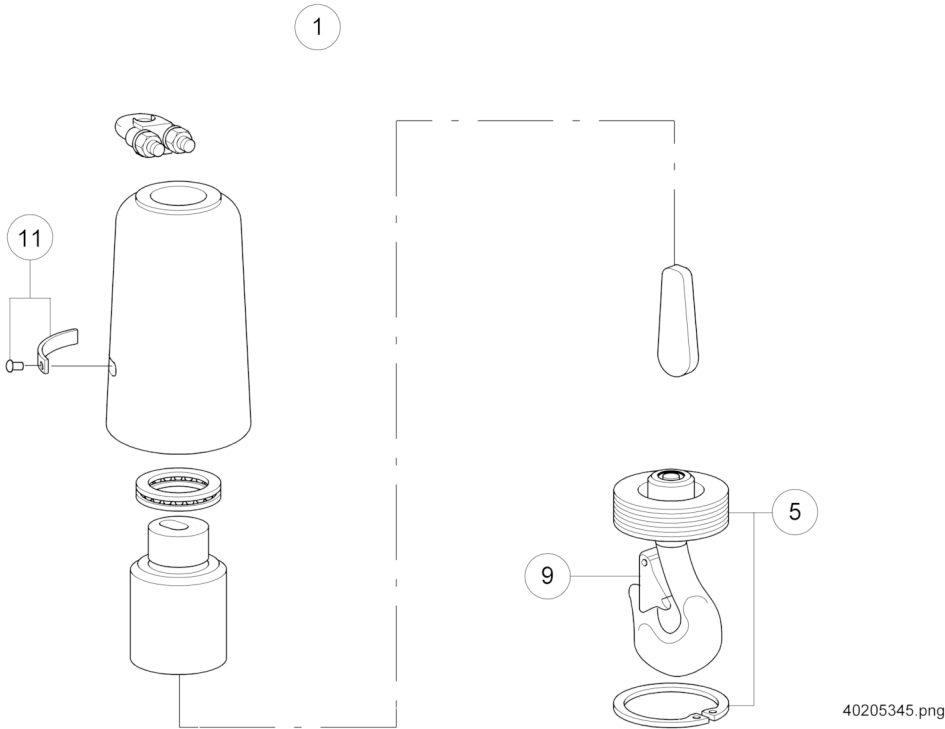


Compensating sheave 225/14, 4/2 reeving

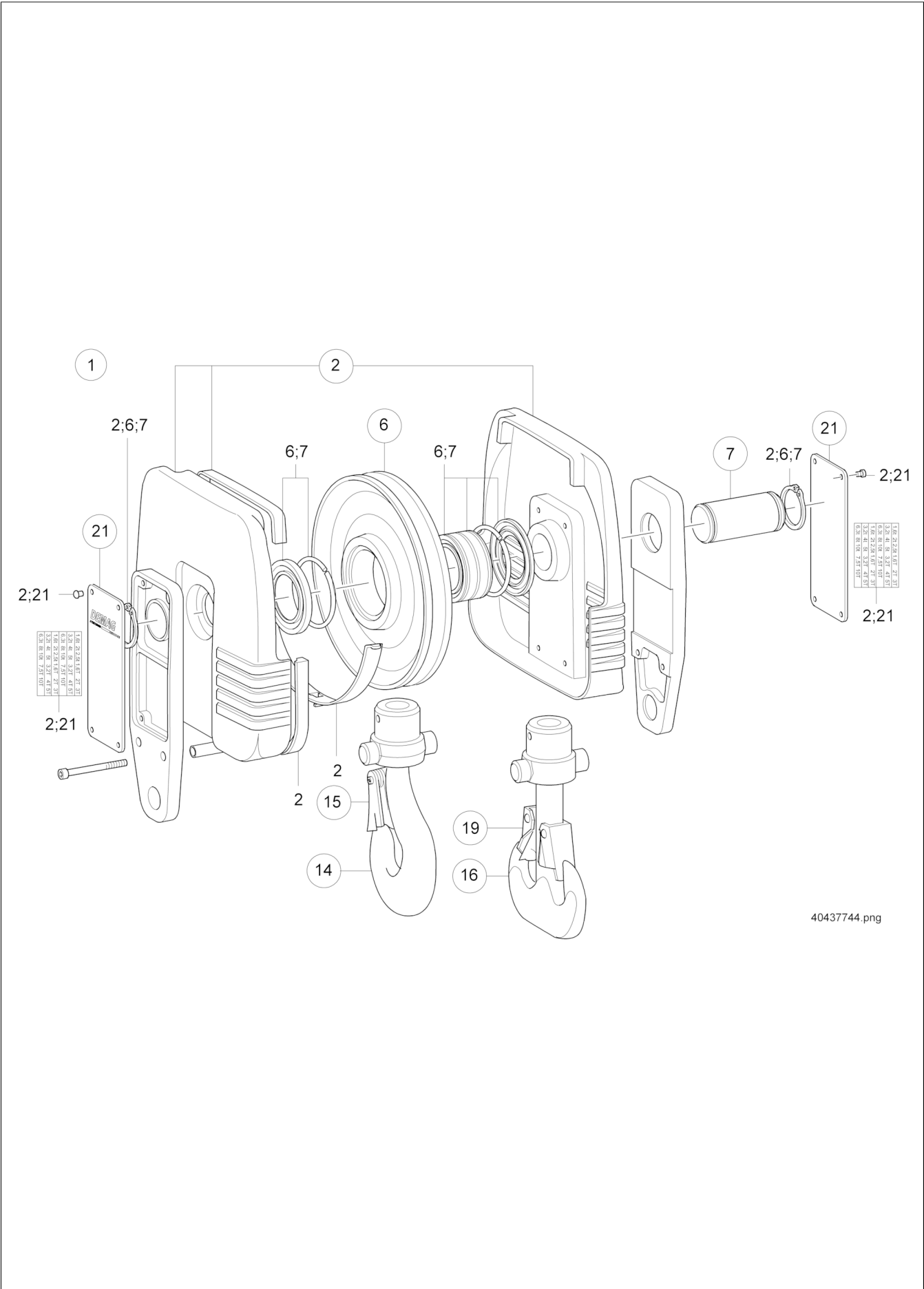
DH 1000

Item	Part no.	Quantity	Designation		Material	RSP
1	82837033	1	Compensating sheave set 225 H16	c/w item 9, 1)	DH 1000	
1	82837233	1	Compensating sheave set 225 H24	c/w item 9, 1)	DH 1000	
1	82837444	1	Compensating sheave 225 H40	c/w item 9, 1)	DH1000	
2	90483446	1	Compensating sheave DH1000 H16	ZMS, 1)	ZMS 4/2	
2	90483546	1	Compensating sheave DH1025 H16	MGS, 1)	MGS 4/2	
2	90483646	1	Compensating sheave DH1032 H16	MGS, 1)	MGS 4/2	
2	90483746	1	Compensating sheave DH1040 H16	MGS, 1)	MGS 4/2	
2	90483846	1	Compensating sheave DH1050 H16	MGS, 1)	MGS 4/2	
2	90483946	1	Compensating sheave DH1063 H16	MGS, 1)	MGS 4/2	
2	90484046	1	Compensating sheave DH1000 H24	ZMS, 1)	ZMS 4/2	
2	90484146	1	Compensating sheave DH1025 H24	MGS, 1)	MGS 4/2	
2	90484246	1	Compensating sheave DH1032 H24	MGS, 1)	MGS 4/2	
2	90484346	1	Compensating sheave DH1040 H24	MGS, 1)	MGS 4/2	
2	90484446	1	Compensating sheave DH1050 H24	MGS, 1)	MGS 4/2	
2	90484546	1	Compensating sheave DH1063 H24	MGS, 1)	MGS 4/2	
2	90484646	1	Compensating sheave DH1000 H40	ZMS, 1)	ZMS 4/2	
2	90484746	1	Compensating sheave DH1025 H40	MGS, 1)	MGS 4/2	
2	90484846	1	Compensating sheave DH1032 H40	MGS, 1)	MGS 4/2	
2	90484946	1	Compensating sheave DH1040 H40	MGS, 1)	MGS 4/2	
2	90485046	1	Compensating sheave DH1050 H40	MGS, 1)	MGS 4/2	
2	90485146	1	Compensating sheave DH1063 H40	MGS, 1)	MGS 4/2	
3	82835633	1	Mounting parts top block Set		DH 1000	
9	82839233	1	Rope sheave set 225 14		DH 1000	
12	49160133	1	Strain gauge car.link set ZMS 3,15t		DH500/600	
13	49159244	1	Unit MGS 2,5 T	DH 1050	DH525,P425	
13	49160644	1	Unit MGS 3,15 T	DH 1063	DH 532	
13	49169233	1	Unit MGS 2,0 T Set	DH 1040	DH5/600,P	
13	49179233	1	Unit MGS 1,6 T Set	DH 1032	DH5/600,P	
13	49189244	1	Unit MGS 1,25 T	DH 1025	DH512,P412	

21731144014



Item	Part no.	Quantity	Designation		Material	RSP
1	58013033	1	Hook fittings 1/1	c/w items 5, 11	DH/P1000	
5	58011033	1	Simple load hook GSN 2,5	c/w item 9	1/1	
9	34182633	1	Hook safety catch 2,5			
11	71392233	1	Capacity plate set		P/DH	
						21731144015



365/20 bottom block,
2/1 reeving - 2m

DH 1063, 1050, 1040, 1032

Item	Part no.	Quantity	Designation		Material	RSP
1	82931033	1	Single-sheave bott.block 365/20	c/w items 2, 6, 7, 14, 21	DR 20	
2	82930533	1	Rope sheave hood 2/1 2m	c/w item 21	365/20	
6	82967833	1	Rope sheave Ufl. 2/1 2m		365/20	
7	82930933	1	Set of pins 70x149			
14	15084833	1	Simple hook with cross beam BSN 5 S	c/w item 15		
15	34187933	1	Hook safety catch E 5 /D 6		K060- 5	
16	15085133	1	Double hook with cross beam BSN 5 -S	c/w item 19		
19	34187733	1	Hook safety catch E 2- 4/D 4- 5		K060-2,5.4	
21	71391133	1	Capacity plate set Neutral		116x 270	

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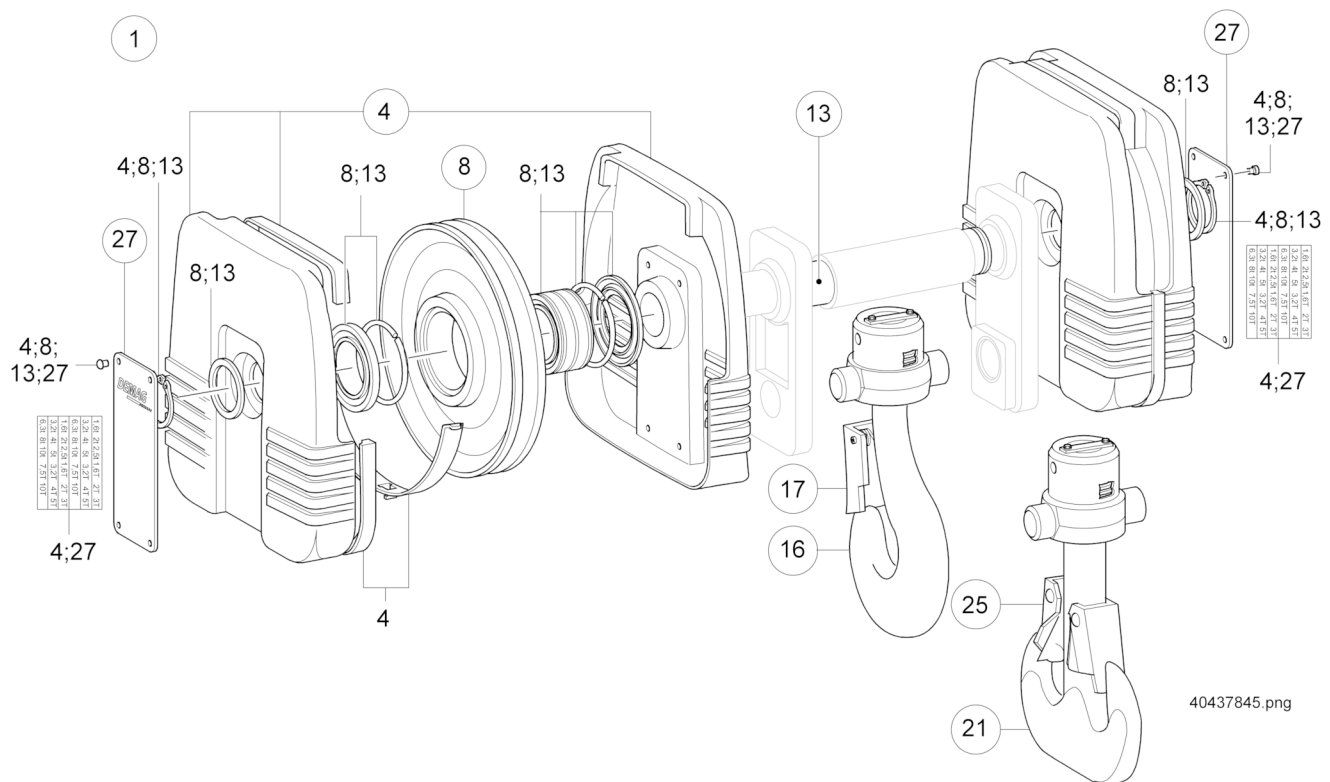


450/20 bottom block,
2/1 reeving - 3m, 4m

DH 1032, 1025

Item	Part no.	Quantity	Designation		Material	RSP
1	82932033	1	Single-sheave bott.block 450/20	c/w items 7, 8, 11, 18, 26	DR 20	
7	82932833	1	Set of pins 90x168			
8	82940733	1	Rope sheave hood 2/1 3m,4m	c/w item 26	450/20	
11	82944633	1	Rope sheave Ufl.2/1 3m,4m		450/20	
18	15084833	1	Simple hook with cross beam BSN 5 S	c/w item 20		
19	34187933	1	Hook safety catch E 5 /D 6		K060- 5	
20	15085133	1	Double hook with cross beam BSN 5 -S	c/w item 22		
22	34187733	1	Hook safety catch E 2- 4/D 4- 5		K060-2,5.4	
26	71391033	1	Capacity plate set Neutral		150x 187	

21710244020



365/20 bottom block, 4/1 reeving

DH 1063, 1050, 1040, 1032

Item	Part no.	Quantity	Designation		Material	RSP
1	82934033	1	Bottom block 2-sheave 365/20	c/w items 4, 8, 13, 16, 27	DH/P1000	
4	82930533	2	Rope sheave hood 2/1 2m	c/w item 27, 1)	365/20	
8	47921933	1	Rope sheave set 365 20 4/1		P1000	
13	47931433	1	Set of pins 365 70x415 4/1		Unterfl.	
16	34167233	1	Simple hook with cross beam BSN 10 P	c/w item 17	ASN 10	
17	34183133	1	Hook safety catch 10			
21	34177233	1	Double load hook BSN 10 +Trav	c/w item 25		
25	34188033	1	Hook safety catch E 6- 8/D 8-10		K060- 6.8	
27	71391133	1	Capacity plate set Neutral		116x 270	

21731144018

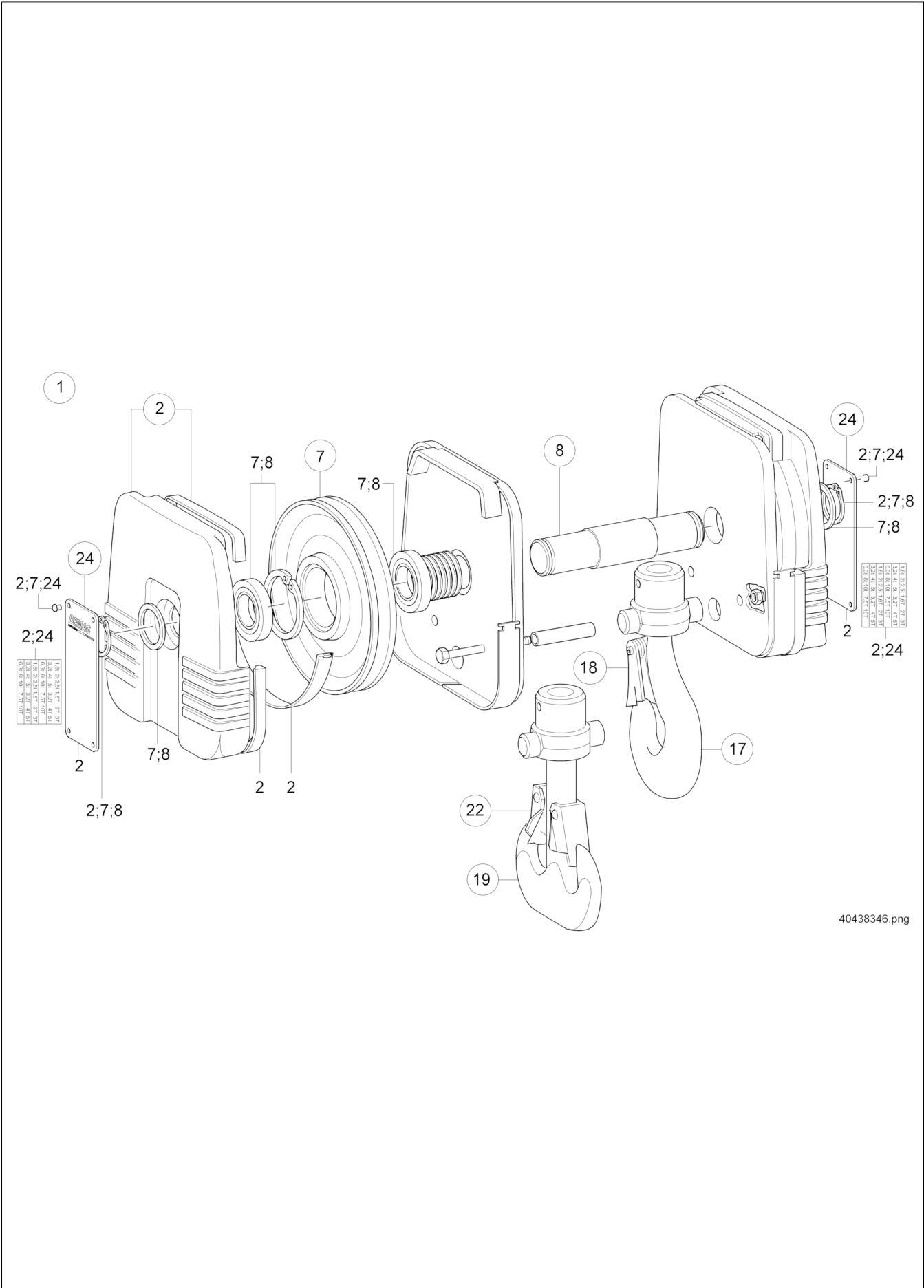


450/20 bottom block,
4/1 reeving

DH 1032, 1025

Item	Part no.	Quantity	Designation		Material	RSP
1	82935033	1	Bottom block 2-sheave 450/20	c/w items 7, 10, 18, 19, 32	DH/P1000	
7	82940733	2	Rope sheave hood 2/1 3m,4m	c/w item 32	450/20	
10	82944633	2	Rope sheave Ufl.2/1 3m,4m		450/20	
18	47931833	1	Set of pins 450 90x509 4/1		Unterfl.	
19	34167233	1	Simple hook with cross beam BSN 10 P	c/w item 20	ASN 10	
20	34183133	1	Hook safety catch 10			
24	34177233	1	Double load hook BSN 10 +Trav	c/w item 28		
28	34188033	1	Hook safety catch E 6- 8/D 8-10		K060- 6.8	
32	71391033	1	Capacity plate set Neutral		150x 187	

21731144019

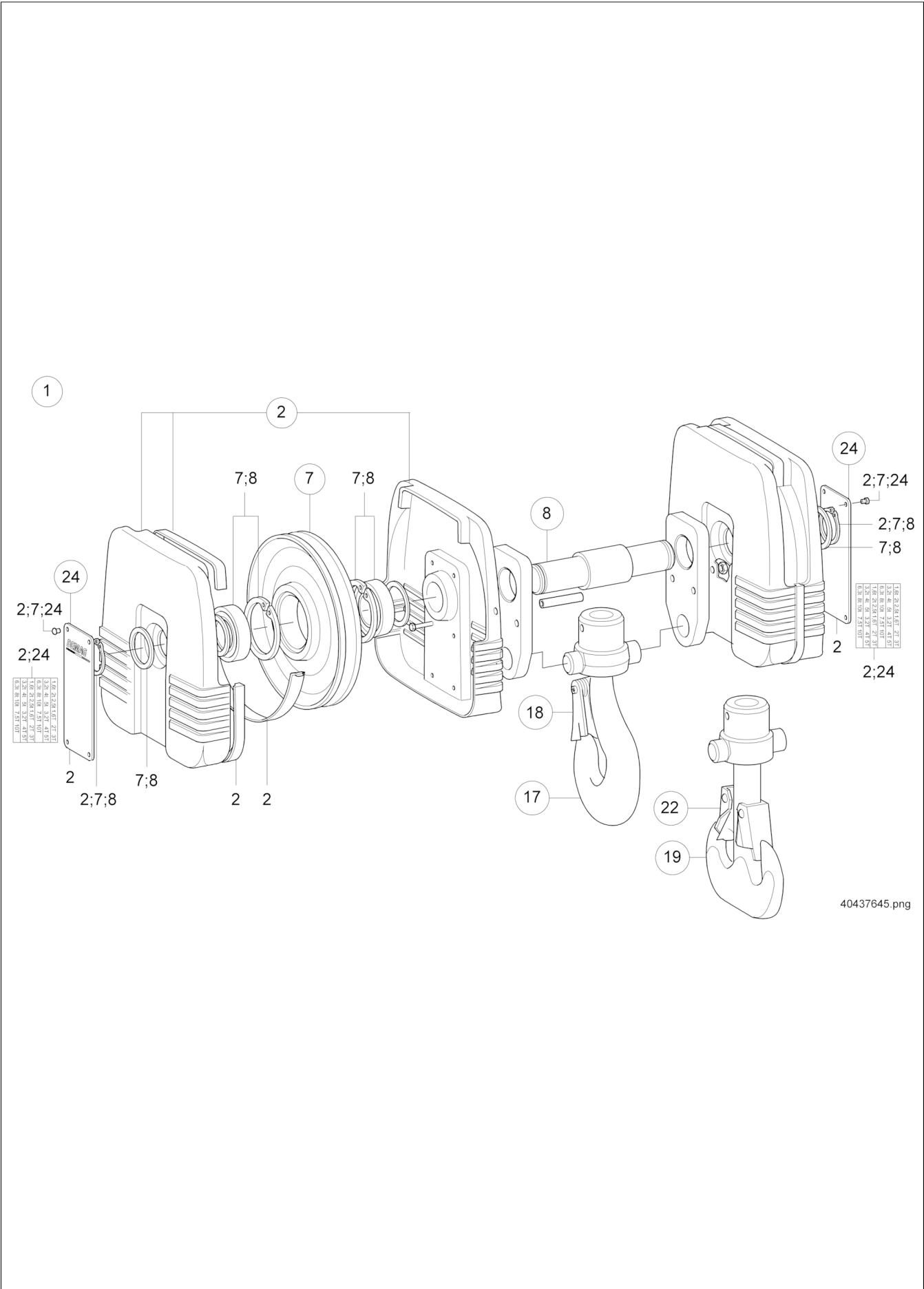


280/14 bottom block,
4/2 reeving - 2m, 3m

DH 1063, 1050, 1040, 1032

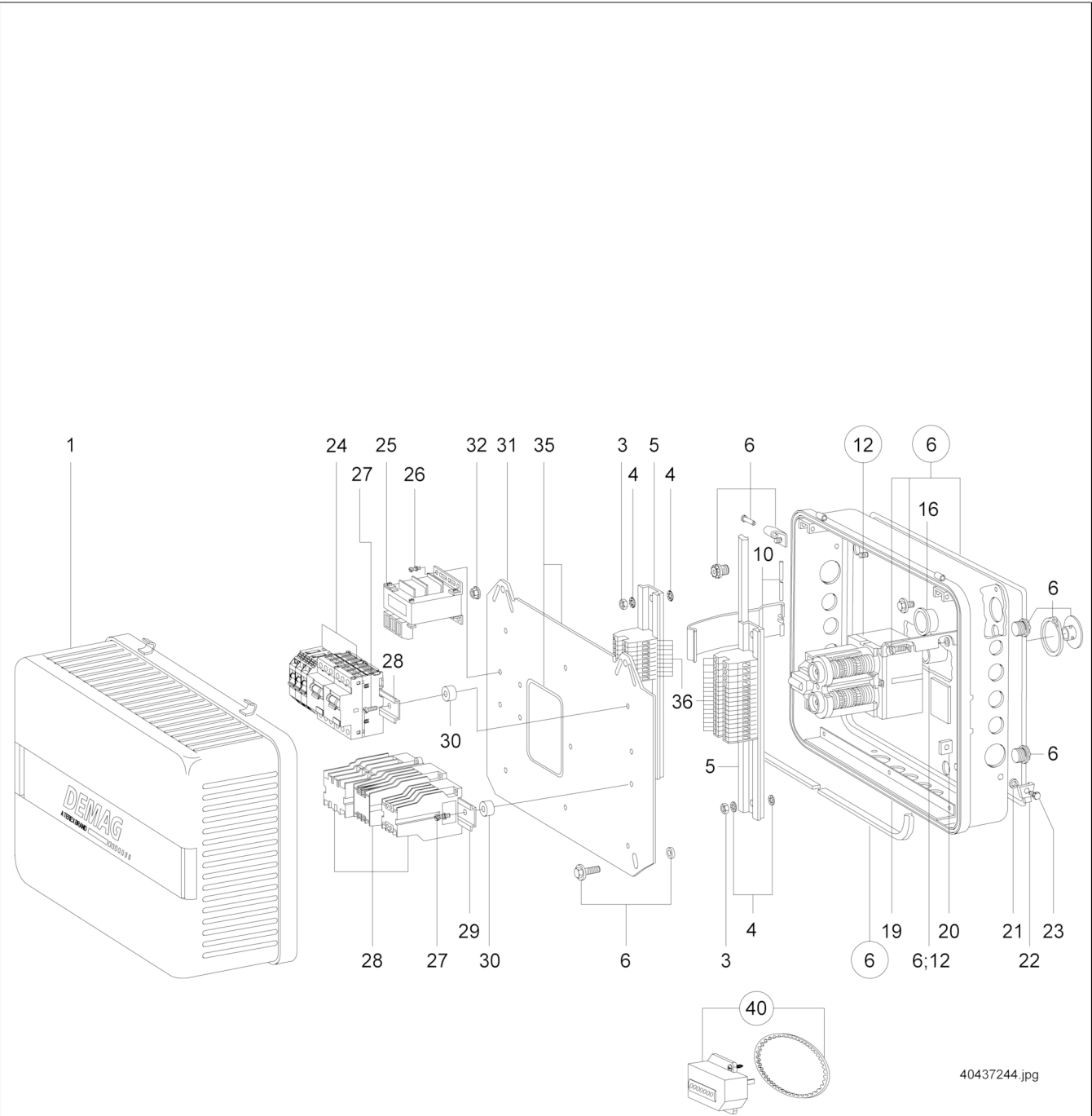
Item	Part no.	Quantity	Designation		Material	RSP
1	82937033	1	Bottom block 2-sheave 280/14	c/w items 2, 7, 8, 17, 24	DR 20	
2	70587933	1	Rope sheave hood set 2/1 4m	c/w item 24		
7	82968233	1	Rope sheave Ufl.4/2 2m,3m		280/14	
8	82937233	1	Set of pins 55x263			
17	15084833	1	Simple hook with cross beam BSN 5 S	c/w item 18		
18	34187933	1	Hook safety catch E 5 /D 6		K060- 5	
19	15085133	1	Double hook with cross beam BSN 5 -S	c/w item 22		
22	34187733	1	Hook safety catch E 2- 4/D 4- 5		K060-2,5.4	
24	71391233	1	Capacity plate set Neutral		92x 217	

21731144020



Item	Part no.	Quantity	Designation		Material	RSP
1	82938033	1	Bottom block 2-sheave 365/14	c/w items 2, 7, 8, 17, 24	DR 20	
2	82930533	1	Rope sheave hood 2/1 2m	c/w item 24	365/20	
7	82967233	1	Rope sheave Ufl. 4/2 4m		365/14	
8	82938933	1	Set of pins 70x334			
17	15084833	1	Simple hook with cross beam BSN 5 S	c/w item 18		
18	34187933	1	Hook safety catch E 5 /D 6		K060- 5	
19	15085133	1	Double hook with cross beam BSN 5 -S	c/w item 22		
22	34187733	1	Hook safety catch E 2- 4/D 4- 5		K060-2,5.4	
24	71391233	1	Capacity plate set Neutral		92x 217	

21731144021



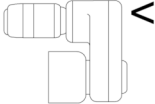
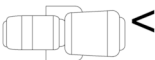
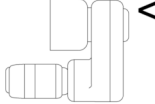
Item	Part no.	Quantity	Designation		Material	RSP
1	36030646		1 Hood DH1000		ST1403M	
3	33757199		4 Hexagonal nut M 6		8 A2F	
4	34368699		8 Serrated lock washer I 6,4		Fedst A2F	
5	89509344		2 Supporting rail 35 / 7,5X 400M		FE-ZN8C-C	
6	82409533		1 Mounting parts set DH1000		Elektrik	
10	82456244		2 Spring bracket DH1000		X12CRNi177	
12	87520033		1 Geared limit switch set DGS 3 -142	c/w item 13, 1)	DH	
12	87520133		1 Geared limit switch set DGS 4 -142	c/w item 13, 1)	DH	
16	44998444		1 Entry bush PG29		PE Natur	
19	36031246		1 Housing lower part DH 1000		ST1403M	
20	98115244		2 Square nut M 6X 20X 5	2)	1.0036 ZN	
21	34087544		2 Washer 6 X 10 X 2,5	2)	14PA101	
22	50441944		2 Strainer terminal	2)	ST37	
23	30740399		2 Hexagonal screw M 6 X 12	2)	8.8 A2F	
24			Line protection unit	3)		
25			Transformer	3)		
26	31892599		0 Cylinder screw M 4 X 8 Z3	3)	4.8 A2F	
27	31895899		0 Cylinder screw M 5 X 22Z4-1	3)	4.8 A2F	
28			Contacteur	3)		
29			Supporting rail	3)		
30	89487444		0 Washer 6,3X 20 X10	3)	PA SW	
31			Mounting plate	3)		
32	30028244		2 Lock nut M 8 VB.RIPP		10	
35	89502444		1 Edge cover 1,5		DX 1,5	
36			Modular terminal	3)		
40	87530244		1 Service pack counter DGS			

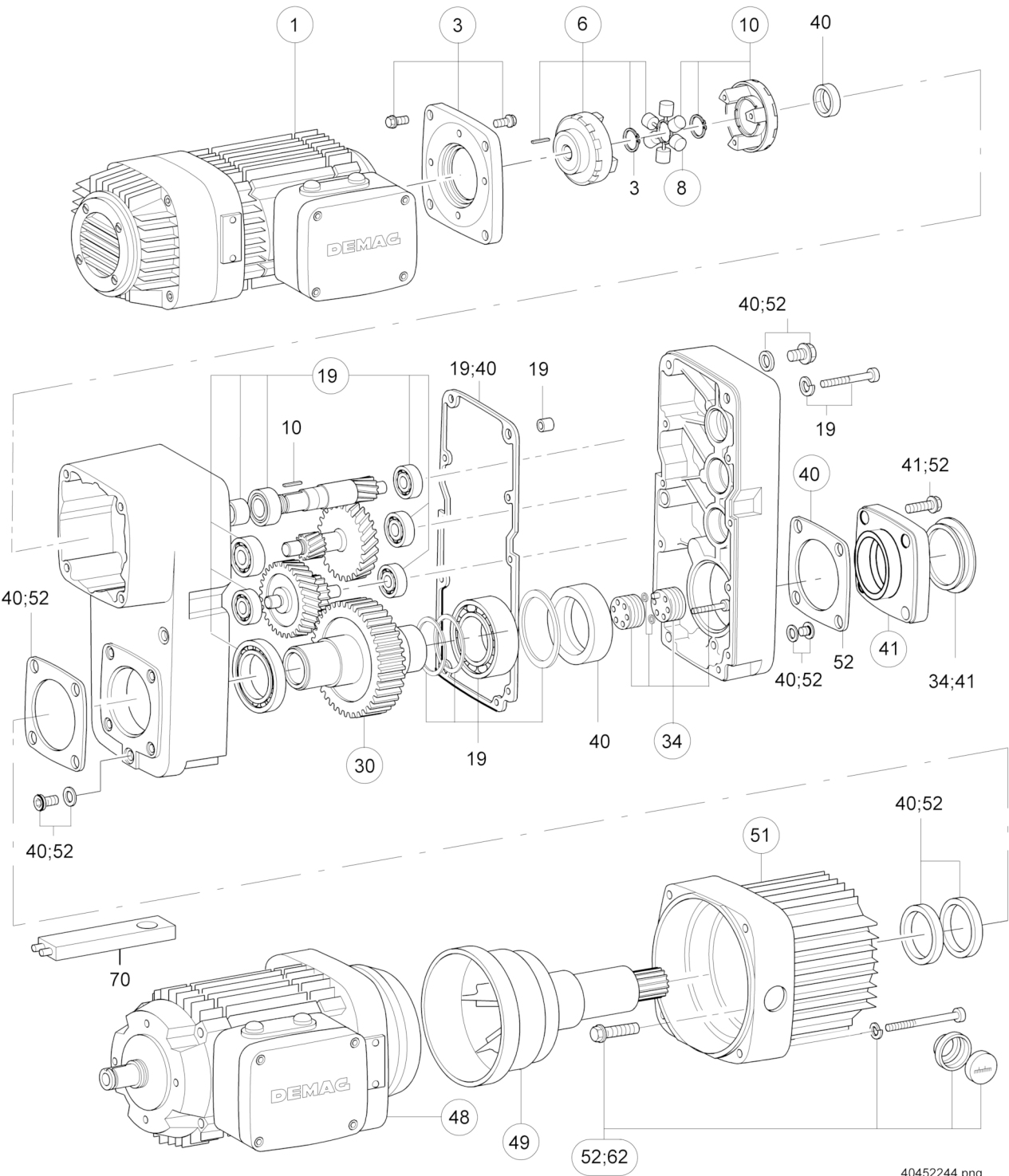
21731144022

1) Secure with Loctite 290. Part no. 007 275 84.

2) Only for control from the crab.

3) depending on the application.

80 U0 	80 U1 	80 U2 	80 U3 
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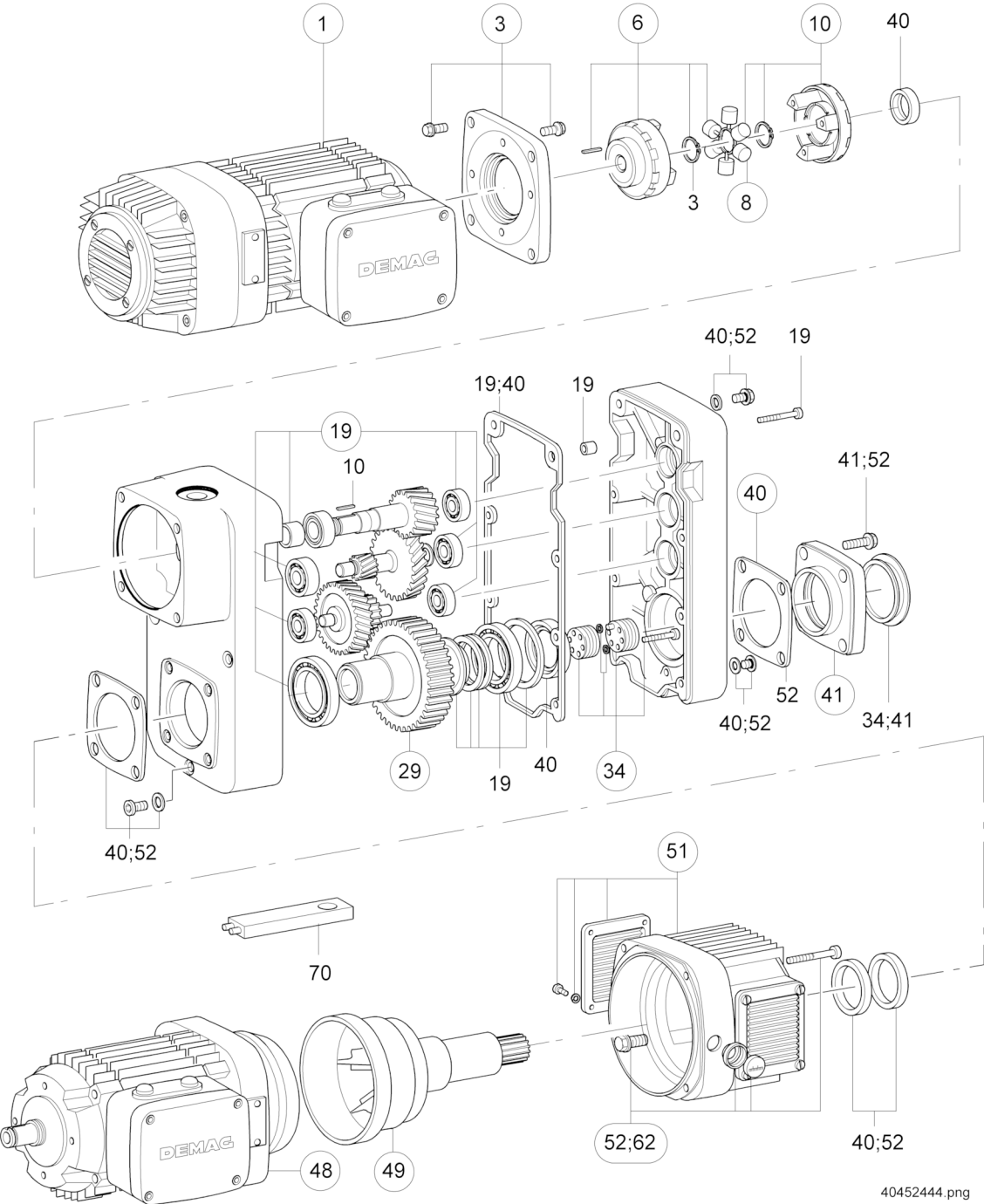
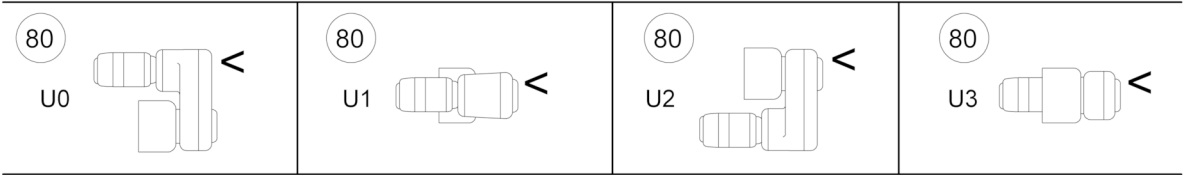


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Item	Part no.	Quantity	Designation		Material	RSP
1			Motor KBA 80	1)		
3	71522233	1	Set intermediate flange 160.2		MOT 80- 90	
6	35190733	1	Coupling set M H1N-19			
8	75226033	1	Roller spider coupling H1			
10	35193233	1	Coupling set G H1N-24			
19	35060133	1	Bearing set FG08	2), 3)		
30	71735233	1	Hollow shaft set FG08 U-Ausf		4,02 -14,3	
34	35064133	1	Brake stroke adjustment set FG08			
40	35060233	1	Seal set FG08	2), 3)		
41	35060333	1	Bearing cover set FG08			
48			Motor KBH 140	4)		
49	71786833	1	Brake shaft set FG08KB140ZN			
51	71781833	1	Cover set FG08/KB 140			
52	71731033	1	Mounting parts set FG08 KB		KB112-140	
70	71739844	1	Adjusting wrench brake FG08			
80			< = Ventilation at highest point of gearbox			

21731144023

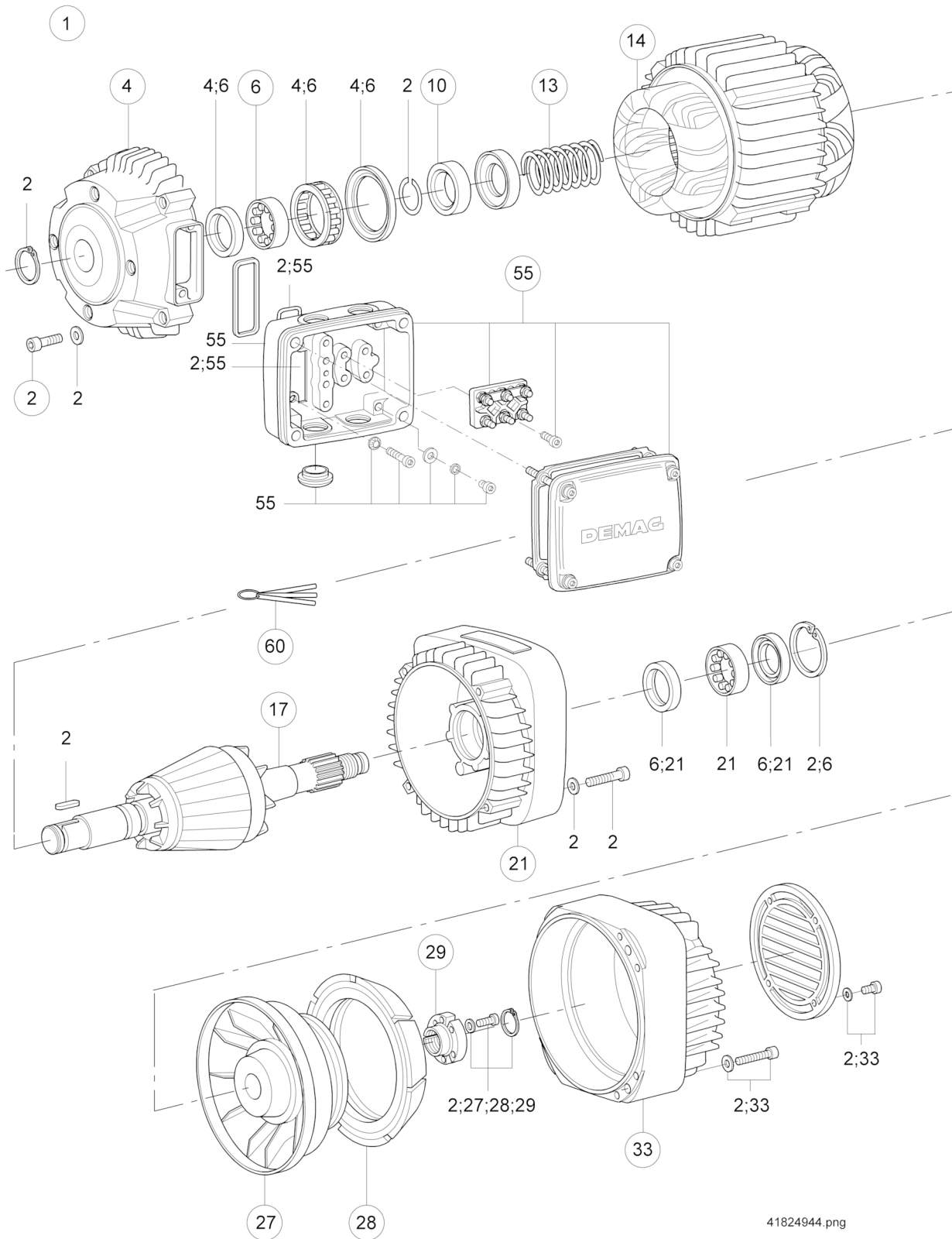
1) Spare parts see chapter "Creep hoist motor KBA 80 B 4".
2) Quantity 2 litres at basic form U0 and U2, part no. 472 900 44 (2.5 kg).
3) Quantity 1,5 litres at basic form U1 and U3, part no. 472 900 44 (2.5 kg).
4) Spare parts see chapter "Main hoist motor KBH 140 B 4".



Item	Part no.	Quantity	Designation		Material	RSP
1			Motor KBA 90	1)		
1			Motor KBA 100	2)		
3	71532233	1	Intermediate flange D08 80 200.2	Mot. 90	80H7-15,5	
3	71532433	1	Intermediate flange D08100 200.3	Mot. 100 for H1	110H7-18	
3	71532633	1	Intermediate flange D08112 200.4	Mot. 100 for H2	110H7-33	
6	35190933	1	Coupling set M H1N-24	Mot. 90		
6	35190933	1	Coupling set M H1N-24	Mot. 100, old design		
6	35192233	1	Coupling set M H2N-24K	Mot. 100		
8	75226033	1	Roller spider coupling H1			
10	35193233	1	Coupling set G H1N-24	Mot. 90		
10	35193233	1	Coupling set G H1N-24	Mot. 100, old design		
10	35193433	1	Coupling set G H2N-24	Mot. 100		
19	35165133	1	Bearing set FG10	3), 4)		
30	71745233	1	Hollow shaft set FG10 U-Ausf	Main hoist mot. 160, MA= 70 Nm	3,87 -12,5	
30	71745333	1	Hollow shaft set FG10 U-Ausf	Main hoist mot. 200	15,7 -121	
34	35069133	1	Brake stroke adjustment set FG10			
40	35065233	1	Seal set FG10	3), 4)		
41	35065333	1	Bearing cover set FG10			
48			Motor KBH 160	5)		
48			Motor KBH 200	6)		
49	71796633	1	Brake shaft set FG10KB160ZN			
49	71796833	1	Brake shaft set FG10KB200ZN			
51	71791433	1	Cover set FG10/KB 160			
51	71791833	1	Cover set FG10/KB 200			
52	71741033	1	Mounting parts set FG10 KB		KB160-200	
62	35069033	1	Fixing set Haube FG10		KB160-225	
70	71749844	1	Adjusting wrench brake FG10			
80			< = Ventilation at highest point of gearbox			

21731144024

1) Spare parts see chapter "Creep hoist motor KBA 90 B 4".
2) Spare parts see chapter "Creep hoist motor KBA 100 B 4".
3) Quantity 5 litres at basic form U0 and U2, part no. 472 900 44 (2.5 kg).
4) Quantity 4 litres at basic form U0 and U2, part no. 472 900 44 (2.5 kg).
5) Spare parts see chapter "Main hoist motor KBH 160 B 4".
6) Spare parts see chapter "Main hoist motor KBH 200 B 6".



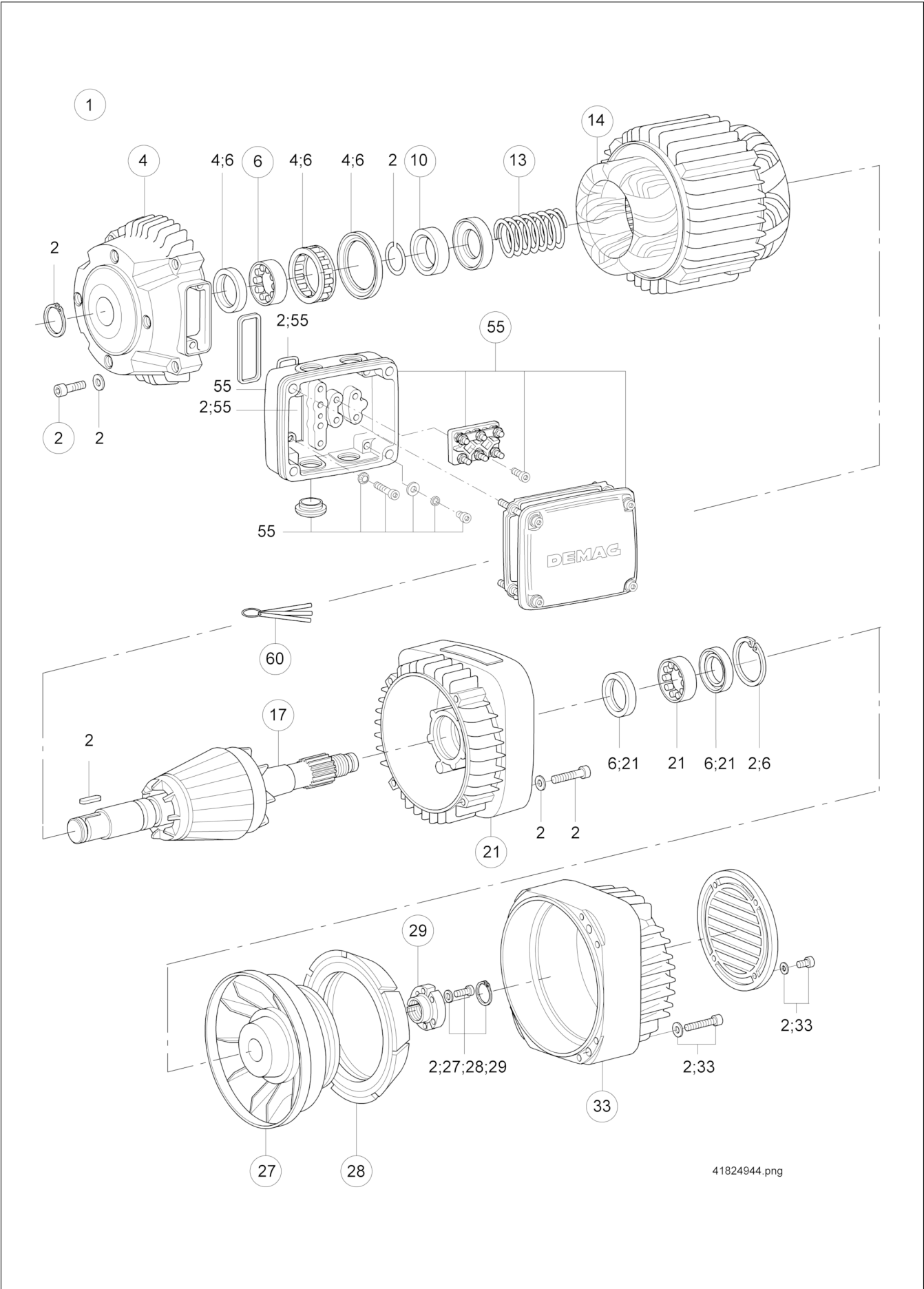
Item	Part no.	Quantity	Designation		Material	RSP
1	5517884	1	Motor KBA 80B 4 GB14		230400AB50	
2	5983533	1	Mounting parts set KB 80			
4	5960333	1	End shield set AS KB 80			
6	5909933	1	Bearing and sealing set KB 80			
10	5980833	1	Thrust ring set KB 80	1), 2)		
13	5977984	1	Pressure spring GbGn 3,4x32,4x67	300 N	KBA	
14	5618284	1	Stator KBA 80B 4 AB	1), 2)	230/400V50	
17	5932784	1	Rotor KBA 80B 4 KUP	1), 2)		
21	5960633	1	End shield set BS KB 80			
27	5979133	1	Brake set light wide KB80			
28	5978633	1	Conical brake ring KB 80 b		breit	
29	5971433	1	Clamping nut set KB80			
33	5909833	1	Brake cover set STD+STD		KB80	
33	5909733	1	Brake cover set ZN+STD	3)	KB80	
55	3612833	1	Terminal box set KB 71-90			
60	10015084	3	Feeler gauge set		KB 71, 80	

21730144024

1) When ordering a rotor or stator, thrust rings (item 10) and feeler gauge (item 60) must also be ordered for adjusting the correct air gap dimension.

2) Required air gap between stator bore and rotor: 0.30 mm.

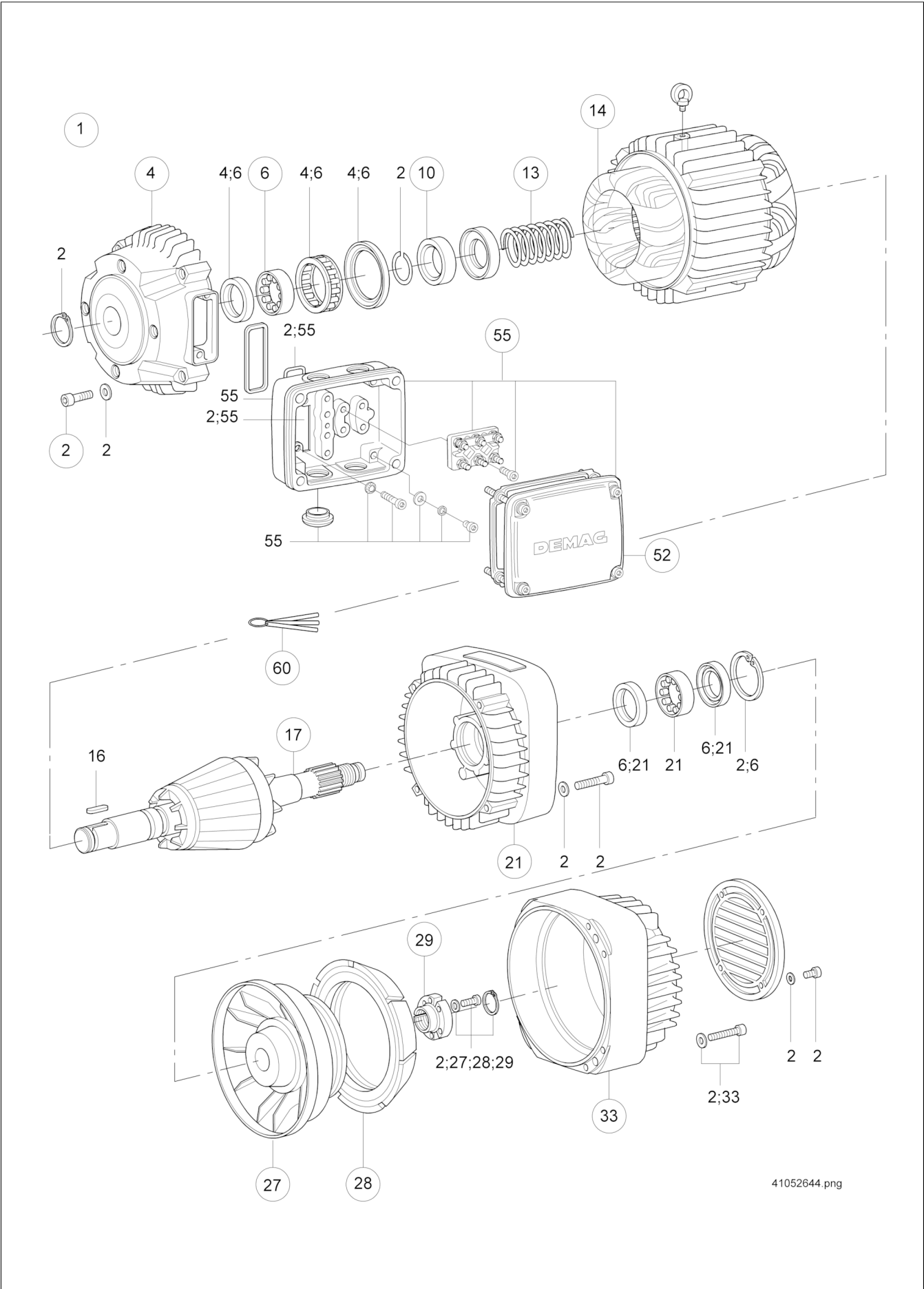
3) For service in arduous conditions, galvanized brake surface.



Item	Part no.	Quantity	Designation		Material	RSP
1	6017184	1	Motor KBA 90B 4 GB14		230400AB50	
2	6483533	1	Mounting parts set KB 90			
4	6460333	1	End shield set AS KB 90			
6	6409933	1	Bearing and sealing set KB 90			
10	6480833	1	Thrust ring set KB 90	1)		
13	6477884	1	Pressure spring GbRt 4,4 x 37,4 x 56	440 N	KBA 90	
14	6118384	1	Stator KBA 90B 4 AB	1)	230/400V50	
14	6118484	1	Stator KBA 90B 4 DB	230/400V 50 Hz, 1)	230/400V50	
17	6432684	1	Rotor KBA 90B 4 KUP	1)		
21	6460633	1	End shield set BS KB 90			
27	6479133	1	Brake set light wide KB90			
28	6478633	1	Conical brake ring KB 90 b	Form A	breit	
29	6471433	1	Clamping nut set KB90			
33	6409733	1	Brake cover set ZN+STD	2)	KB90	
33	6409833	1	Brake cover set STD+STD		KB90	
55	3612833	1	Terminal box set KB 71-90			
60	10015184	3	Feeler gauge set		KB 90,100	

21731144025

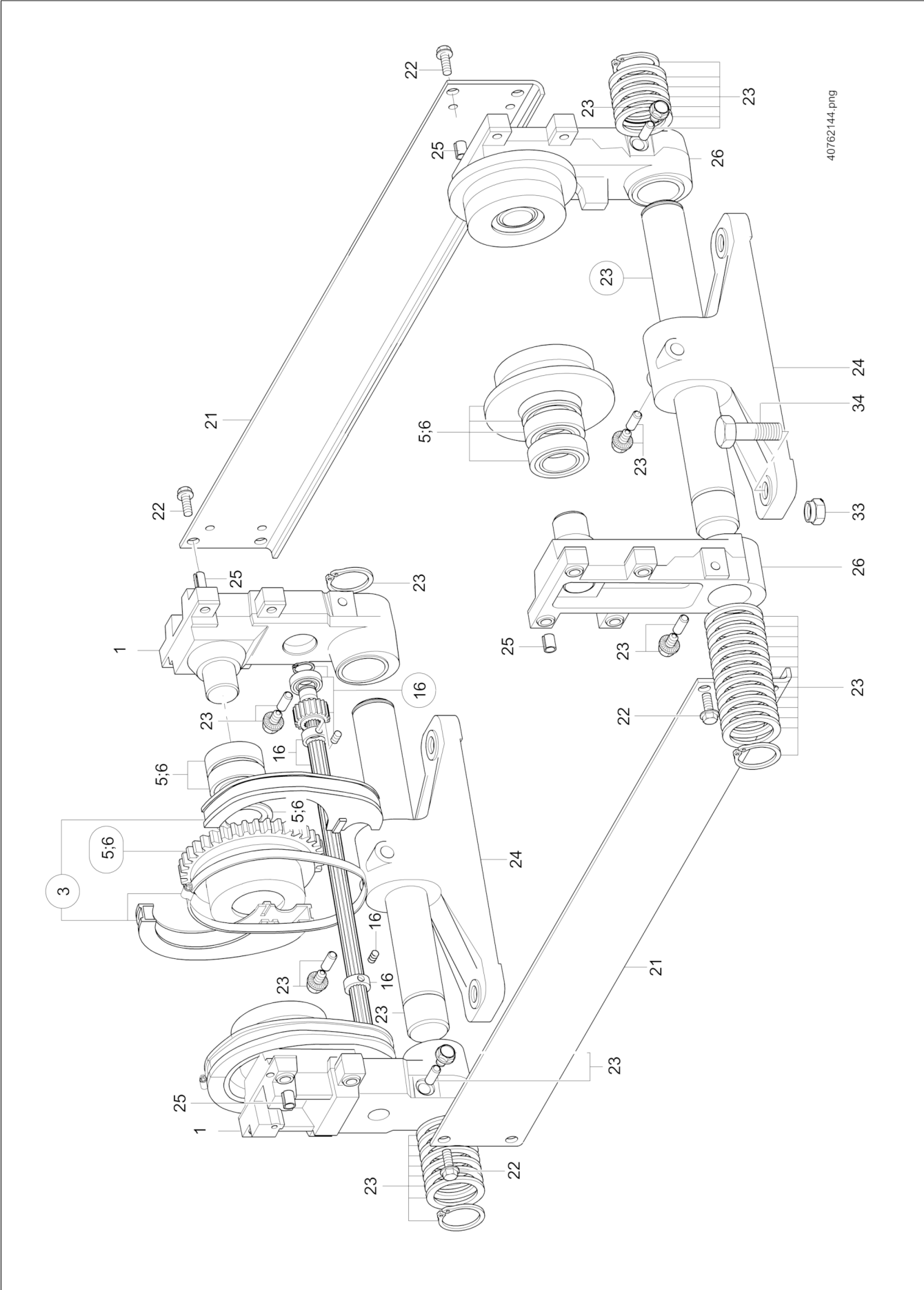
1) When ordering a rotor or stator, an air gap adjustment set (item no. 10) and feeler gauge set (item no. 60) must also be ordered for adjusting the theoretical air gap (0,30 mm).
 2) For service in arduous conditions, galvanized brake surface.



Item	Part no.	Quantity	Designation		Material	RSP
1	6516284	1	Motor KBA100B 4 GB14		230400AB50	
2	6983533	1	Mounting parts set KB100			
4	6960333	1	End shield set AS KB 100			
6	6909933	1	Bearing and sealing set KB100			
10	6980833	1	Thrust ring set KB100	1)		
13	6977684	1	Pressure spring GbBI 5 x 43 x 75	663 N	KBA100	
14	6617433	1	Stator set KBA100B4 AB	1)	230/400V50	
17	6932933	1	Rotor set KBA100B 4K	1)		
21	6960633	1	End shield set BS KB 100			
27	6979133	1	Brake set light wide KB100			
28	6978633	1	Conical brake ring KB100 b		breit	
29	6971433	1	Clamping nut set KB100			
33	6909733	1	Brake cover set ZN+STD	2)	KB100	
33	6909833	1	Brake cover set STD+STD		KB100	
52	6997433	1	Terminal box cover KB 100-125		Deckelset	
55	6998533	1	Terminal box set KB100-125			
60	10015184	3	Feeler gauge set		KB 90,100	

21731144026

1) When ordering a rotor or stator, an air gap adjustment set (item no. 10) and feeler gauge set (item no. 60) must also be ordered for adjusting the theoretical air gap (0,30 mm).
 2) For service in arduous conditions, galvanized brake surface.



EUDH 1000, Trolley size 10, 2/1 and 4/2 reeving - H16 - H24 - H40

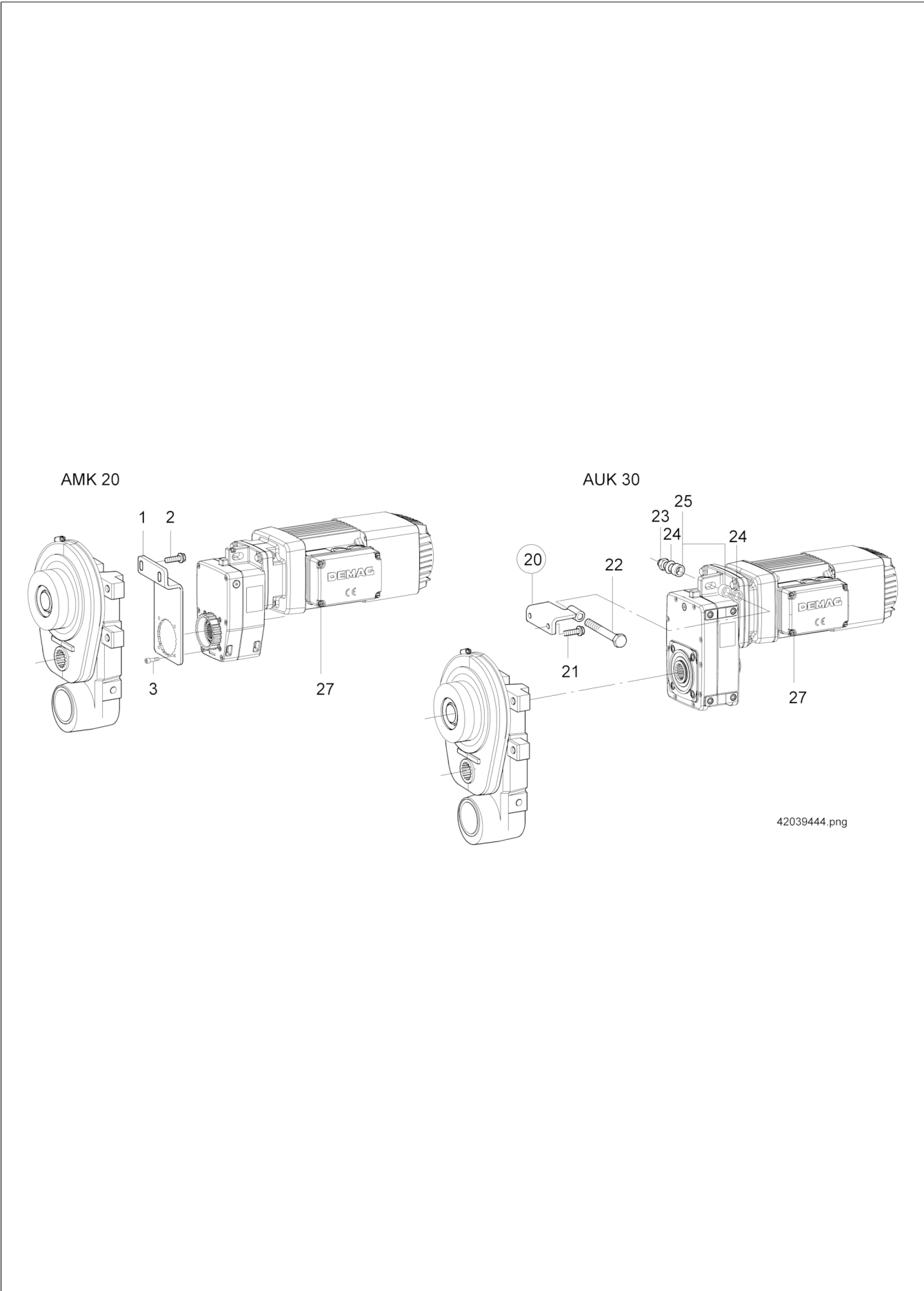
Standard-headroom monorail hoist

Item	Part no.	Quantity	Designation		Material	RSP
1	83131444	2	Longit. member w. with pin A UDH10			
3	83038133	2	Cover set Fahrwerk	1)	GR.10	
5	75216333	1	Travel wheel set zyl.160 MZ/OZ		GR10	
6	75217333	1	Travel wheel set keg.160 MZ/OZ		GR10	
16	75211233	1	Pinion shaft set N30/W30x480		EU+KDH6+10	
16	75211333	1	Pinion shaft set N30/W30x560	Fl. W. 149 - 225 mm, AMK 20, AUK 30	EU+KDH6+10	
16	75211433	1	Pinion shaft set N30/W30x650	Fl. W. 226 - 315 mm, AMK 20, AUK 30	EU+KDH6+10	
16	75211533	1	Pinion shaft set N30/W30x765	Fl. W. 316 - 420 mm, AMK 20, AUK 30	EU+KDH6+10	
21	83035744	2	Side plate DH1000-H16		RQST37-2	
21	83035844	2	Side plate DH1000-H24		RQST37-2	
21	83035944	8	Side plate DH1000-H40		S235JRG2C	
22	34276444	8	Lock screw M12X35 VB.RIPP		100 flZnL	
23	83037933	1	Supporting pin set EUDH GR10	Fl. W. 149 - 225 mm	FLB149-225	
23	83038033	1	Supporting pin set EUDH GR10	Fl. W. 226 - 305 mm	FLB226-305	
24	83038444	2	Crossbeam UDH1000 GR.10 2/1			
25	34547399	8	Split sleeve 16 X 18		St	
26	83132444	2	Longit. member w. with pin NA UDH10			
33	10006398	4	Set nut M24		10flZnnc-L	
34	30813999	4	Hexagonal screw M24 X 70		8.8 A2F	

21731144027

EUDH 1000, Trolley size 10,
Travel drive AMK 20/AUK 30,
2/1 and 4/2 reeving - H16 - H24 - H40

Standard-headroom monorail hoist



EUDH 1000, Trolley size 10,
Travel drive AMK 20/AUK 30,
2/1 and 4/2 reeving - H16 - H24 - H40

Standard-headroom monorail hoist

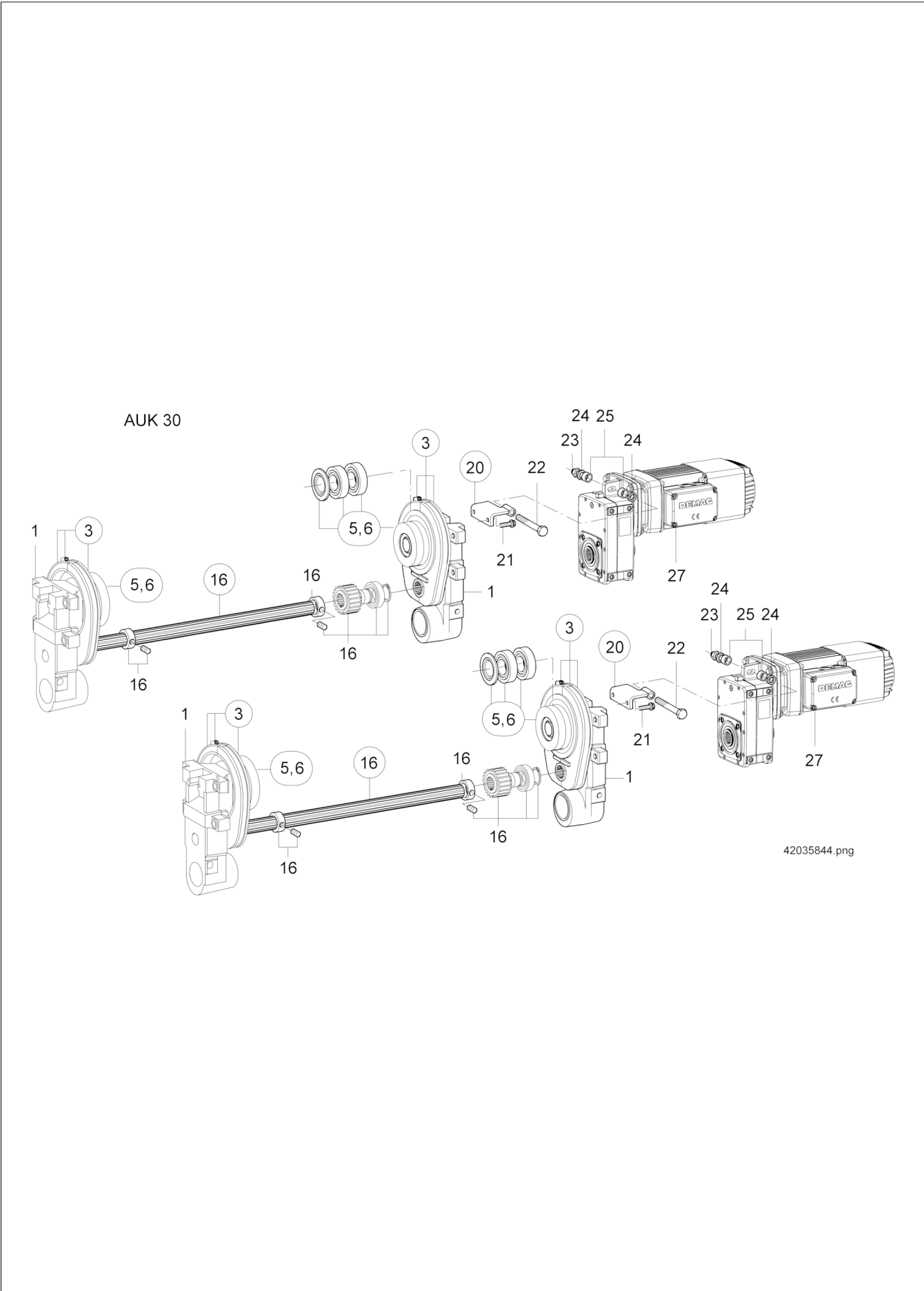
Item	Part no.	Quantity	Designation		Material	RSP
1	83120944	1	Torque arm support GR.6-10 A20	AMK 20	S235JRG2C	
2	10011198	2	Lock screw M10X20 VB.RIPP	AMK 20	100 flZnL	
3	31923999	4	Hex.socket cylind.screw M 8 X 18	AMK 20	10.9	
20	83127544	1	Torque arm support AUK30/EUDH	AUK 30, c/w items 21 - 25		
21	10011198	2	Lock screw M10X20 VB.RIPP	AUK 30	100 flZnL	
22	15049499	1	Hexagonal screw M12 X100	AUK 30	8.8 A2F	
23	33461244	1	Lock nut V M12	AUK 30	8 A2F	
24	16062399	2	Washer 13 X 35 X 5	AUK 30	C 35 H	
25	81120444	2	Spring element 13 X35X12	AUK 30	PA6 GV30	
27			Travel speed 12.5 m/min, 3.1/12.5 m/min	1)		
27	84510046	1	Drive unit AMK20DD M0 30 25,3	DH 1032, 1025, ZBF 63 A 8/2 B003, 2)	ZBF 63A8/2	
27	84510546	1	Drive unit AMK20DD M0 30 25,3	DH 1050, 1040, ZBF 71 A 8/2 B003, 2)	ZBF 71A8/2	
27	84511046	1	Drive unit AMK20DD M0 30 25,3	DH 1063, ZBF 80 A 8/2 B020, 2)	ZBF 80A8/2	
27			Travel speed 20 m/min, 5/20 m/min	1)		
27	84511146	1	Drive unit AMK20DD M0 30 16,4	DH 1040, 1032, 1025, ZBF 80 A 8/2 B020, 2)	ZBF 80A8/2	
27	84515346	1	Drive unit AUK30DDB14 30 15,7	DH 1063, 1050, ZBF 90 B 8/2 B020, 3)	ZBF 90B8/2	
27			Travel speed 31.5 m/min, 8/31,5 m/min	1)		
27	84511246	1	Drive unit AMK20DD M0 30 9,9	DH 1025, ZBF 80 A 8/2 B020, 2)	ZBF 80A8/2	
27	84515246	1	Drive unit AUK30DDB14 30 10,1	DH 1040, 1032, ZBF 90 B 8/2 B020, 3)	ZBF 90B8/2	
27	84516046	1	Drive unit AUK30DDB14 30 10,1	DH 1063, 1050, ZBF 100 A 8/2 B050, 3)	ZBF 100A8/2	
27			Travel speed 40 m/min, 10/40 m/min	1)		
27	84515146	1	Drive unit AUK30DDB14 30 7,8	DH 1032, 1025, ZBF 90 B 8/2 B020, 3)	ZBF 90B8/2	
27	84515946	1	Drive unit AUK30DDB14 30 7,8	DH 1050, 1040, ZBF 100 A 8/2 B050, 3)	ZBF 100A8/2	
27	84515146	2	Drive unit AUK30DDB14 30 7,8	DH 1063, ZBF 90 B 8/2 B020, 3)	ZBF 90B8/2	

21731144028

1) Only the 2-pole winding is connected for a single travel speed.
2) Spare parts see chapter "AMK 20 DD travel drive".
3) Spare parts see chapter "AUK 30 DD travel drive".

EUDH 1063, Trolley size 10,
with two travel drives AUK 30,
2/1 and 4/2 reeving - H16

Standard-headroom monorail hoist



EUDH 1063, Trolley size 10,
with two travel drives AUK 30,
2/1 and 4/2 reeving - H16

Standard-headroom monorail hoist

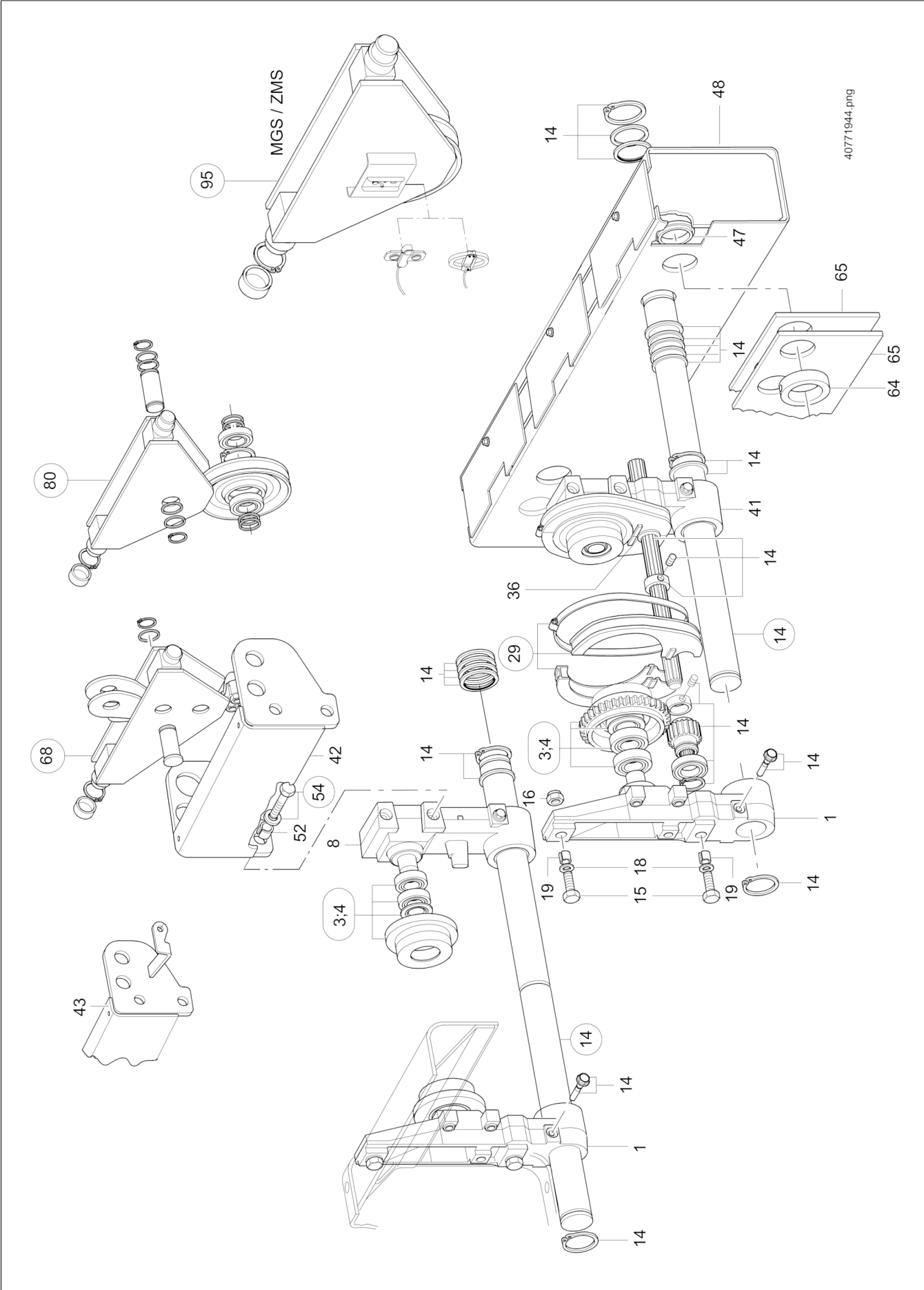
Item	Part no.	Quantity	Designation		Material	RSP
1	83131444	4	Longit. member w. with pin A	UDH10		
3	83038133	4	Cover set	Fahrwerk		
5	83093444	4	Cylindrical tr.wheel 160	1SPK MZ	1)	GR.10
6	83093344	4	Conical travel wheel 160	1SPK MZ		U+KDHGR.10
16	75211333	1	Pinion shaft set	N30/W30x560	Fl. W. 149 - 225 mm	U+KDHGR.10
16	75211433	1	Pinion shaft set	N30/W30x650	Fl. W. 226 - 315 mm	EU+KDH6+10
20	83127544	2	Torque arm support	AUK30/EUDH	c/w items 21 - 25	EU+KDH6+10
21	10011198	4	Lock screw	M10X20 VB.RIPP		100 flZnL
22	15049499	2	Hexagonal screw	M12 X100		8.8 A2F
23	33461244	1	Lock nut	V M12		8 A2F
24	16062399	2	Washer	13 X 35 X 5		C 35 H
25	81120444	1	Spring element	13 X35X12		PA6 GV30
27			Travel speed	40 m/min, 10/40 m/min	2)	
27	84515146	2	Drive unit AUK30DDB14	30 7,8	DH 1063, ZBF 90 B 8/2 B020, 3)	ZBF 90B8/2

21731144029

1) Lubrication 210 g, part no. 472 915 44 (400 g).

2) Only the 2-pole winding is connected for a single travel speed.

3) Spare parts see chapter "AUK 30 DD travel drive".



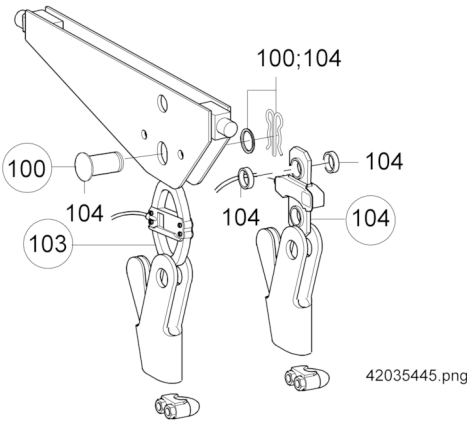
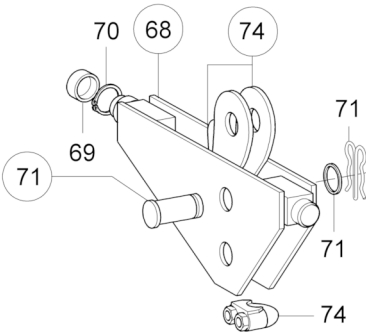
EKDH 1000, Trolley size 10, 2/1 and 4/2 reeving - H16 - H24 - H40

Low-headroom monorail hoist

Item	Part no.	Quantity	Designation		Material	RSP
1	83182944	2	Longit. member w. with pin AH-NAH KDH10			
3	75216333	1	Travel wheel set zyl.160 MZ/OZ		GR10	
4	75217333	1	Travel wheel set keg.160 MZ/OZ		GR10	
8	83180944	1	Longit. member w. with pin NA KDH10			
14	83085433	1	Supporting pin set EKDH GR10	Fl. W. 110 - 135 mm	FLB110-215	
14	83085533	1	Supporting pin set EKDH GR10	Fl. W. 216 - 305 mm	FLB216-305	
14	83085733	1	Supporting pin set EKDH GR10	Fl. W. 306 - 420 mm	FLB306-420	
15	30956299	4	Hexagonal screw M20 X 75		8.8 A2F	
16	33461644	2	Lock nut V M20		8 A2F	
18	31621999	4	Washer 21 X 37 X 4		C 45A2E HV	
19	34550199	4	Split sleeve 25 X 28		St	
29	83038133	2	Cover set Fahrwerk	1)	GR.10	
40	75211333	1	Pinion shaft set N30/W30x560	Fl. W. 136 - 215 mm, AMK 20, AUK 30	EU+KDH6+10	
40	75211433	1	Pinion shaft set N30/W30x650	Fl. W. 216 - 305 mm, AMK 20, AUK 30	EU+KDH6+10	
40	75211533	1	Pinion shaft set N30/W30x765	Fl. W. 306 - 420 mm, AMK 20, AUK 30	EU+KDH6+10	
41	83191944	1	Longit. member w. with pin A KDH10			
42	83188944	1	Connecting plate KDH1000H16 Gr10	AMK 20	AMK20	
42	83189044	1	Connecting plate KDH1000H24 Gr10	AMK 20	AMK20	
42	83189144	1	Connecting plate KDH1000H40 Gr10	AMK 20	AMK20	
43	83189244	1	Connecting plate KDH1000H16 Gr10	AUK 30	AUK30	
43	83189344	1	Connecting plate KDH1000H24 Gr10		AUK30	
43	83189444	1	Connecting plate KDH1000H40 Gr10		AUK30	
47	83076444	4	Cover GKG 76		ST34	
48	83186044	1	Counterweight box KDH1000	H16, H24	H16/H24	
48	83186644	1	Counterweight box KDH1000H40		n.Zeichng.	
52	34578999	4	Split sleeve 28 X 36		St	
54	47937633	1	Screw set M22x 70 HV		Verz. MoS2	
64	34685999	2	Setting ring A 75/110X22	H16, H24	St	
65	83186244	2	Counterweight EKDH1000	H16, H24	S235JRG2C	
68			Rope wedge crosshead	2)		
80			Compensating sheave	3)		
95			Compensating sheave	3)		

21731144030

1) Lubrication 210 g, part no. 472 915 44 (400 g).
2) Spare parts see chapter "Rope wedge crosshead".
3) Spare parts see chapter "Compensating sheave".



EKDH 1000, Trolley size 10,
Rope retaining crosshead,
2/1 reeving - H16 - H24 - H40

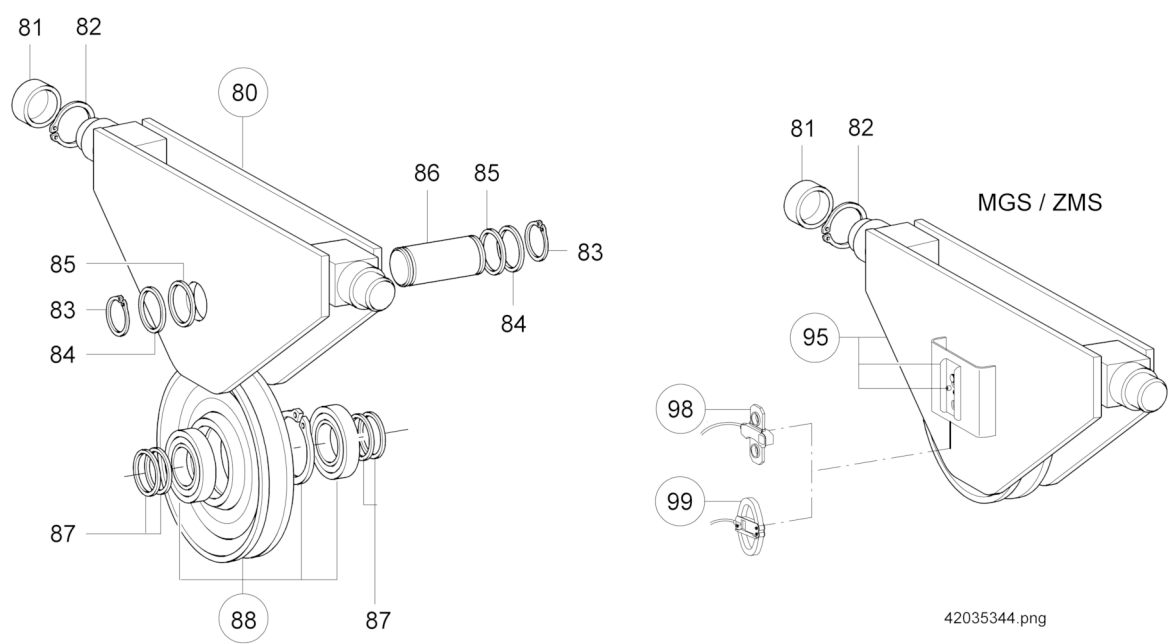
Low-headroom monorail hoist

Item	Part no.	Quantity	Designation		Material	RSP
68	82891744	1	Rope wedge crosshead 1000H16 2/1	c/w items 69 - 71, 74, 1)	KDH	
68	82891844	1	Rope wedge crosshead 1000H24	c/w items 69 - 71, 74, 1)	DH	
68	82891944	1	Rope wedge crosshead 1000H40	c/w items 69 - 71, 74, 1)	DH	
69	82890544	1	Bush 42,5x 59,5x 26	1)	ST35	
70	34255599	1	Retaining ring 60X2		FedSt IL	
71	82458033	1	Bolt connection set + spring clip	1), 2)	40x94	
74	58000433	1	Rope anchorage set DH1000			
100	82458033	1	Bolt connection set + spring clip	1), 2)	40x94	
103	49159444	1	Unit MGS 5,0 T	DH 1050	DH1050	
103	49160744	1	Unit MGS 6,25 T	DH 1063	DH1063	
103	49169444	1	Unit MGS 4,0 T	DH 1040	DH1040	
103	49179444	1	Unit MGS 3,15 T	DH 1032	DH1032	
103	49189444	1	Unit MGS 2,5 T	DH 1025	DH1025	
104	49160233	1	Strain gauge car.link set ZMS 6,25t		P1200	

21731144031

1) The bearings must be lubricated with a suitable adhesive grease. Part no. 472 933 44.

2) Check during maintenance. Check play of setpin in the bore hole of the rope retaining crosshead plate (max. wear in the plate 1 mm) Make sure that the double spring clip is latched.



EKDH 1000, Fahrwerkgröße 10, Compensating sheave 225/14, 4/2 reeving - H16 - H24 - H40

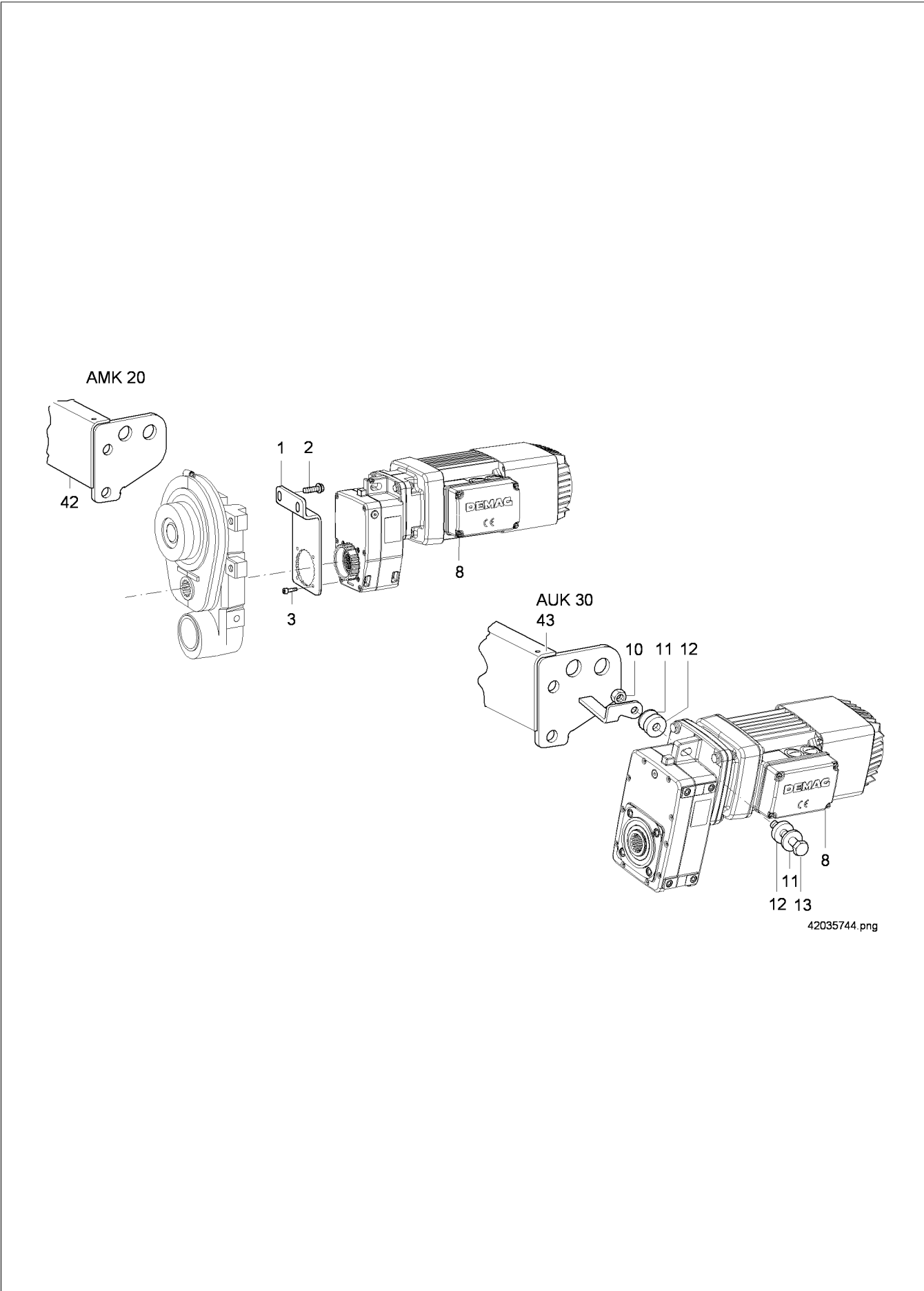
Low-headroom monorail hoist

Item	Part no.	Quantity	Designation		Material	RSP
80	82897044	1	Compensating sheave 225/14 H16	c/w items 81 - 88, 1)	KDH1000	
80	82897244	1	Compensating sheave 225/14 H24	c/w items 81 - 83, 85 - 88, 1)	KDH1000	
80	82897444	1	Compensating sheave 225/14 H40	c/w items 81 - 83, 85 - 88, 1)	KDH1000	
81	82890544	1	Bush 42,5x 59,5x 26	1)	ST35	
82	34255599	1	Retaining ring 60X2		FedSt IL	
83	34247499	2	Retaining ring 45X2,5		FedSt	
84	34139699	2	Supporting plate 45X 55X3	H16	Fedst	
85	34144699	2	Shim 45X 55X1	H16	St2K50	
85	34144699	4	Shim 45X 55X1	H24	St2K50	
86	82910944	1	Pin 45h 8x 98 Nut		C45SH	
87	34139699	4	Supporting plate 45X 55X3		Fedst	
88	82839044	1	Rope sheave 225-14	c/w items 89, 90	1000	
89	15066699	2	Grooved ball bearing 6209 2Z		Wlz-St IF	
90	34266699	1	Retaining ring 85X3		FedSt	
95	90494846	1	Compensating sheave KDH1000 H16	ZMS, 1)	ZMS 4/2	
95	90494946	1	Compensating sheave KDH1025 H16	MGS, 1)	MGS 4/2	
95	90495046	1	Compensating sheave KDH1032 H16	MGS, 1)	MGS 4/2	
95	90495146	1	Compensating sheave KDH1040 H16	MGS, 1)	MGS 4/2	
95	90495246	1	Compensating sheave KDH1050 H16	MGS, 1)	MGS 4/2	
95	90495346	1	Compensating sheave KDH1063 H16	MGS, 1)	MGS 4/2	
95	90495446	1	Compensating sheave KDH1000 H24	ZMS, 1)	ZMS 4/2	
95	90495546	1	Compensating sheave KDH1025 H24	MGS, 1)	MGS 4/2	
95	90495646	1	Compensating sheave KDH1032 H24	MGS, 1)	MGS 4/2	
95	90495746	1	Compensating sheave KDH1040 H24	MGS, 1)	MGS 4/2	
95	90495846	1	Compensating sheave KDH1050 H24	MGS, 1)	MGS 4/2	
95	90495946	1	Compensating sheave KDH1063 H24	MGS, 1)	MGS 4/2	
95	90496046	1	Compensating sheave KDH1000 H40	ZMS, 1)	ZMS 4/2	
95	90496146	1	Compensating sheave KDH1025 H40	MGS, 1)	MGS 4/2	
95	90496246	1	Compensating sheave KDH1032 H40	MGS, 1)	MGS 4/2	
95	90496346	1	Compensating sheave KDH1040 H40	MGS, 1)	MGS 4/2	
95	90496446	1	Compensating sheave KDH1050 H40	MGS, 1)	MGS 4/2	
95	90496546	1	Compensating sheave KDH1063 H40	MGS, 1)	MGS 4/2	
98	49160133	1	Strain gauge car.link set ZMS 3,15t		DH500/600	
99	49159233	1	Unit MGS 2,5 T Set	DH 1050	DH400/600	
99	49160633	1	Unit MGS 3,15 T	DH 1063	DH532	
99	49169233	1	Unit MGS 2,0 T Set	DH 1040	DH5/600,P	
99	49179233	1	Unit MGS 1,6 T Set	DH 1032	DH5/600,P	
99	49189244	1	Unit MGS 1,25 T	DH 1025	DH512,P412	

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EKDH 1000, Trolley size 10,
Travel drive AMK 20/AUK 30,
2/1 and 4/2 reeving - H16 - H24 - H40

Low-headroom monorail hoist



EKDH 1000, Trolley size 10,
Travel drive AMK 20/AUK 30,
2/1 and 4/2 reeving - H16 - H24 - H40

Low-headroom monorail hoist

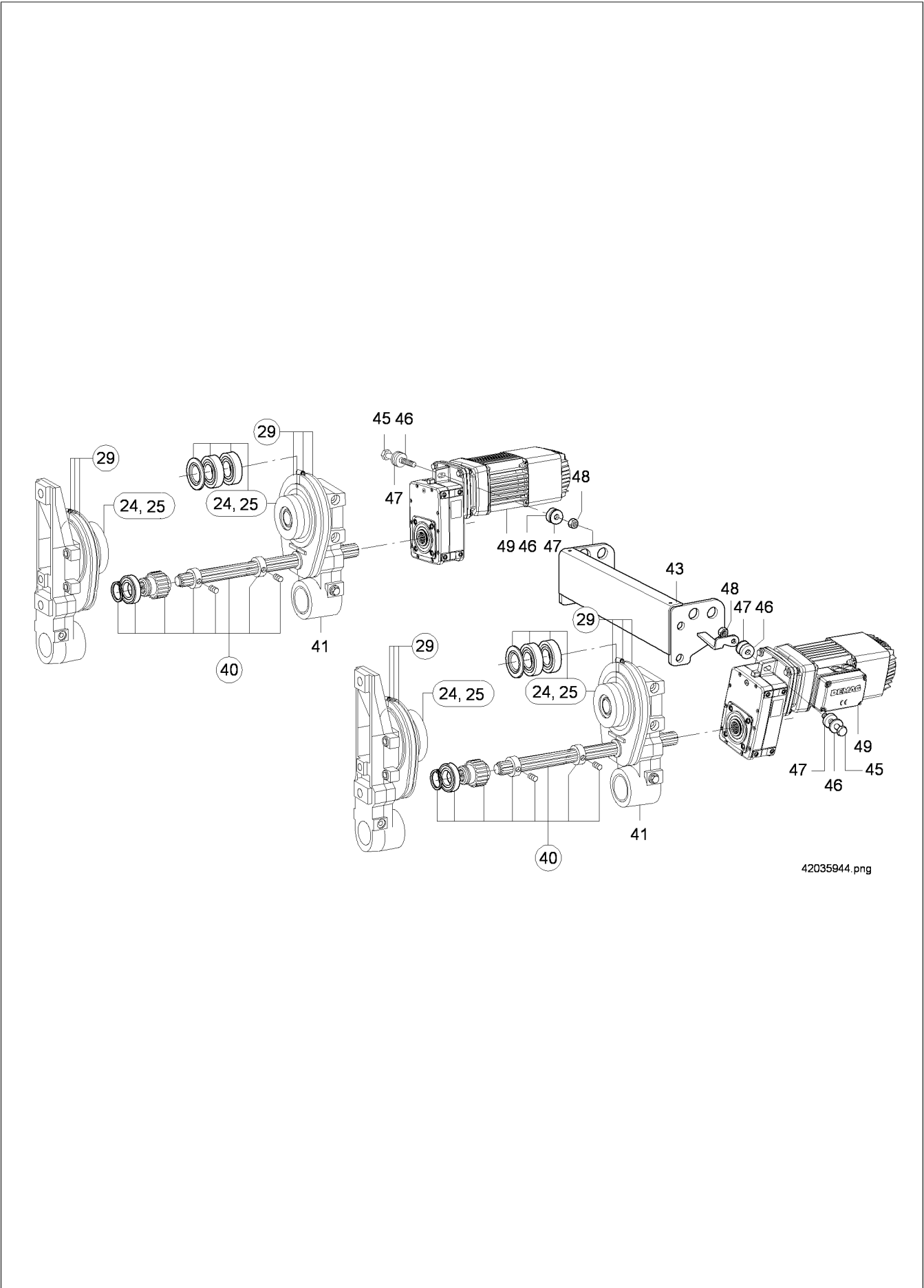
Item	Part no.	Quantity	Designation		Material	RSP
1	83120944	1	Torque arm support GR.6-10 A20	AMK 20	S235JRG2C	
2	10011198	2	Lock screw M10X20 VB.RIPP	AMK 20	100 flZnL	
3	31923999	4	Hex.socket cylind.screw M 8 X 18	AMK 20	10.9	
8			Travel speed 12,5 m/min, 3,1/12,5 m/min	1)		
8	84510046	1	Drive unit AMK20DD M0 30 25,3	DH 1032, 1025, ZBF 63 A 8/2 B003, 2)	ZBF 63A8/2	
8	84510546	1	Drive unit AMK20DD M0 30 25,3	DH 1050, 1040, ZBF 71 A 8/2 B003, 2)	ZBF 71A8/2	
8	84511046	1	Drive unit AMK20DD M0 30 25,3	DH 1063, ZBF 80 A 8/2 B020	ZBF 80A8/2	
8			Travel speed 20 m/min, 5/20 m/min	1)		
8	84511146	1	Drive unit AMK20DD M0 30 16,4	DH 1040, 1032, 1025, ZBF 80 A 8/2 B020, 2)	ZBF 80A8/2	
8	84515346	1	Drive unit AUK30DDDB14 30 15,7	DH 1063, 1050, ZBF 90 B 8/2 B020, 3)	ZBF 90B8/2	
8			Travel speed 31,5 m/min, 8/31,5 m/min	1)		
8	84511246	1	Drive unit AMK20DD M0 30 9,9	DH 1025, ZBF 80 A 8/2 B020, 2)	ZBF 80A8/2	
8	84515246	1	Drive unit AUK30DDDB14 30 10,1	DH 1040, 1032, ZBF 90 B 8/2 B020, 3)	ZBF 90B8/2	
8	84516046	1	Drive unit AUK30DDDB14 30 10,1	DH 1063, 1050, ZBF 100 A 8/2 B050, 3)	ZBF100A8/2	
8			Travel speed 40 m/min, 10/40 m/min	1)		
8	84515146	1	Drive unit AUK30DDDB14 30 7,8	DH 1032, 1025, ZBF 90 B 8/2 B020, 3)	ZBF 90B8/2	
8	84515946	1	Drive unit AUK30DDDB14 30 7,8	DH 1050, 1040, ZBF 100 A 8/2 B050, 3)	ZBF100A8/2	
10	33461244	1	Lock nut V M12	AUK 30	8 A2F	
11	16062399	2	Washer 13 X 35 X 5	AUK 30	C 35 H	
12	81120444	2	Spring element 13 X35X12	AUK 30	PA6 GV30	
13	15054799	1	Hexagonal screw M12 X 75	AUK 30	8.8 A2F	
42	83188944	1	Connecting plate KDH1000H16 Gr10	AMK 20	AMK20	
42	83189044	1	Connecting plate KDH1000H24 Gr10	AMK 20	AMK20	
42	83189144	1	Connecting plate KDH1000H40 Gr10	AMK 20	AMK20	
43	83189244	1	Connecting plate KDH1000H16 Gr10	AUK 30	AUK30	
43	83189344	1	Connecting plate KDH1000H24 Gr10	AUK 30	AUK30	
43	83189444	1	Connecting plate KDH1000H40 Gr10	AUK 30	AUK30	

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1) Only the 2-pole winding is connected for a single travel speed.
2) Spare parts see chapter "AMK 20 DD travel drive".
3) Spare parts see chapter "AUK 30 DD travel drive".

EKDH 1063, Trolley size 10,
with two travel drives AUK 30,
2/1 and 4/2 reeving - H16

Low-headroom monorail hoist



EKDH 1063, Trolley size 10,
with two travel drives AUK 30,
2/1 and 4/2 reeving - H16

Low-headroom monorail hoist

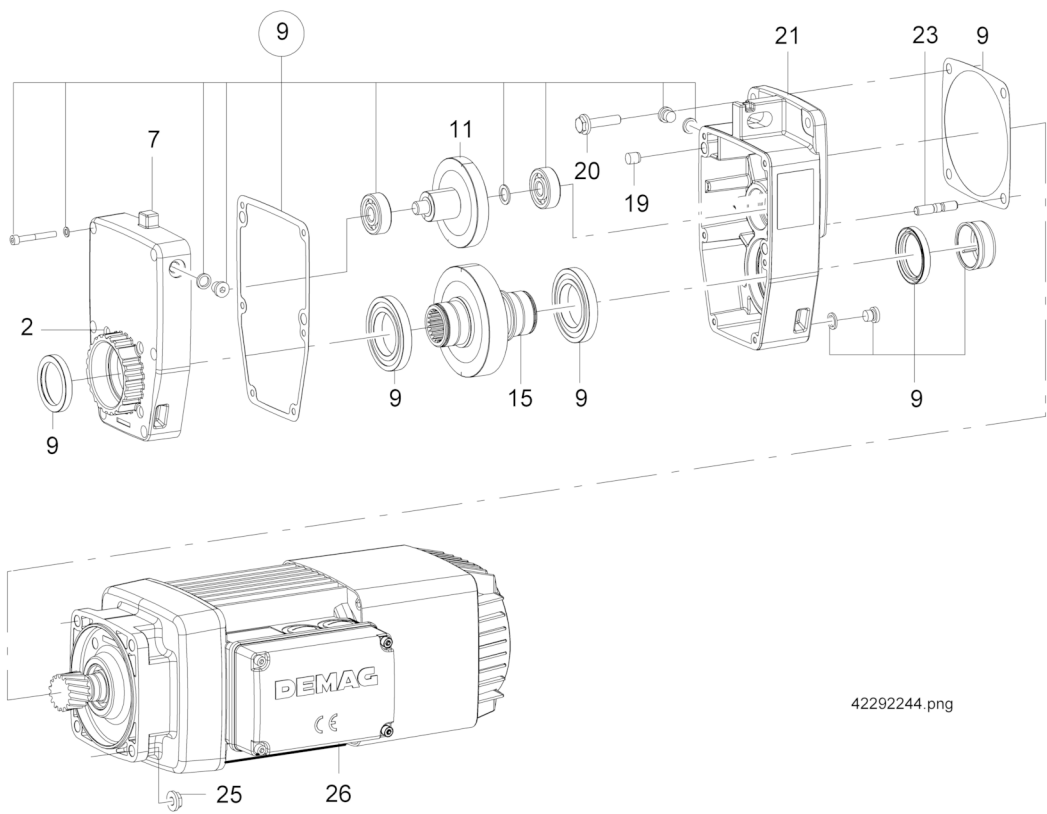
Item	Part no.	Quantity	Designation		Material	RSP
1	83182944	2	Longit. member w. with pin AH-NAH KDH10			
24	83093444	4	Cylindrical tr.wheel 160 1SPK MZ		U+KDHGR.10	
25	83093344	4	Conical travel wheel 160 1SPK MZ	c/w items 26 - 28	U+KDHGR.10	
29	83038133	4	Cover set Fahrwerk	1)	GR.10	
40	75211333	2	Pinion shaft set N30/W30x560	Fl. W. 136 - 215 mm	EU+KDH6+10	
40	75211433	2	Pinion shaft set N30/W30x650	Fl. W. 216 - 305 mm	EU+KDH6+10	
40	75211533	2	Pinion shaft set N30/W30x765	Fl. W. 306 - 420 mm	EU+KDH6+10	
41	83191944	2	Longit. member w. with pin A KDH10			
43	83199244	1	Connecting plate KDH1000H16 Gr10		AUK30	
45	15054799	1	Hexagonal screw M12 X 75		8.8 A2F	
46	81120444	2	Spring element 13 X35X12		PA6 GV30	
47	16062399	2	Washer 13 X 35 X 5		C 35 H	
48	33461244	2	Lock nut V M12		8 A2F	
49			Travel speed 40 m/min, 10/40 m/min	2)		
49	84515146	2	Drive unit AUK30DDB14 30 7,8	DH 1063, ZBF 90 B 8/2 B020, 3)	ZBF 90B8/2	

21731144034

1) Lubrication 210 g, part no. 472 915 44 (400 g).

2) Only the 2-pole winding is connected for a single travel speed.

3) Spare parts see chapter "AUK 30 DD travel drive".



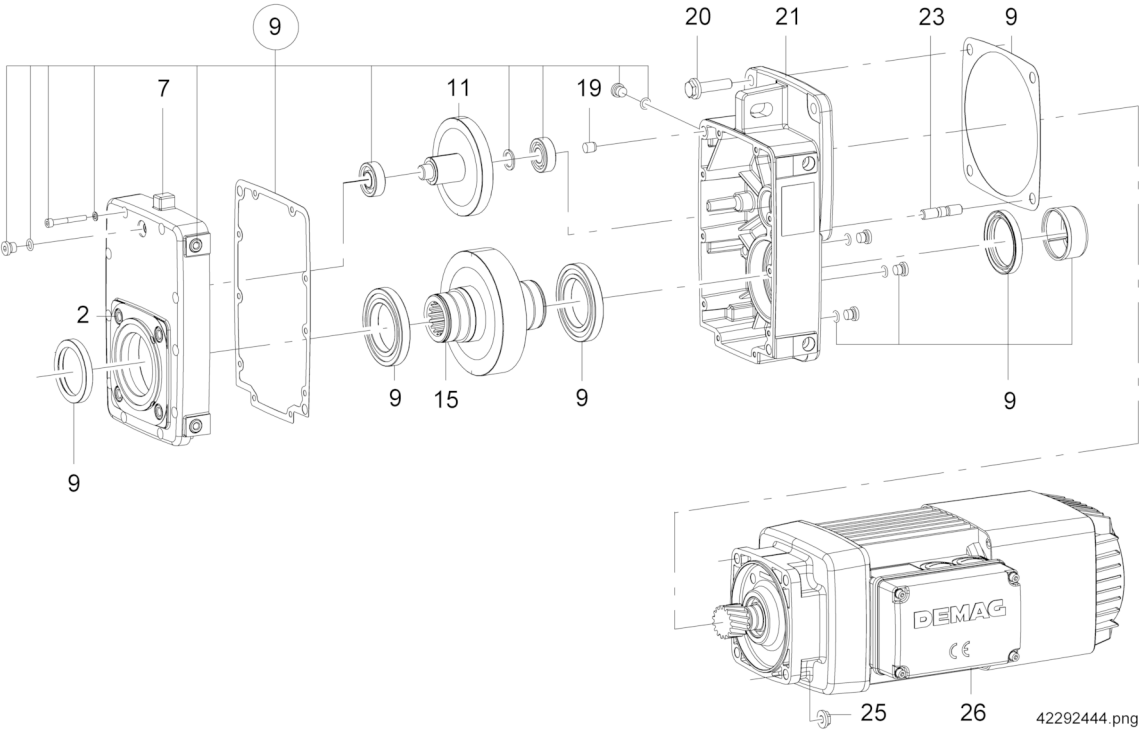
Travel drive AMK 20 DD

EU-, EKDH 1000,
2/1 and 4/2 reeving,
Trolley size 10

Item	Part no.	Quantity	Designation		Material	RSP
2	34301544	4	Threaded insert M 8X12M12 C		ST-GEH.	
7	78711444	1	Cover gearbox AM20			
9	78711533	1	Bearing and sealing set A20			
11	84139746	1	Cluster gear Z16M1.50Z 48M1.25	i = 9.95	A 20 D/T	
11	84139546	1	Cluster gear Z16M1.50Z 54M1.25	i = 16.4	A 20 D/T	
11	84139346	1	Cluster gear Z16M1.50Z 77M0.93	i = 25.3	A 20 D/T	
15	84142046	1	Output shaft with gear wheel Z63	i = 9,95; 16,4; 25,3	AUK20 D/T	
20	10010898	2	Lock screw M 8X35 VB.RIPP		100 flZnL	
21	78710444	1	Gearbox housing A20		GDALSI12CU	
23	15064299	2	Stud M 8 X 22		10.9 B2=14	
25	30028244	4	Lock nut M 8 VB.RIPP	MA= 45 Nm	10	
26			Motor ZBF 63/71	1)		
26			ZBF 80/90A motor	2)		

21731144035

1) Spare parts see spare parts list 222 856 44_en.
2) Spare parts see spare parts list 222 864 44_en.



Travel drive AUK 30 DD

EU-, EKDH 1000,
2/1 and 4/2 reeving,
Trolley size 10

Item	Part no.	Quantity	Designation		Material	RSP
2	33893244	4	Threaded insert M10X18M16 C		ST-GEH.	
7	78721044	1	Cover gearbox AF30/AG30			
8	33893344	4	Threaded insert M 8X12M14 C		ST-Geh.	
9	78721533	1	Bearing and sealing set A30			
11	84147646	1	Cluster gear Z15M1.60Z 47M1.25	i = 7.78	A 30 D/T	
11	84147546	1	Cluster gear Z15M1.60Z 51M1.25	i = 10.1	A 30 D/T	
11	84147346	1	Cluster gear Z15M1.60Z 58M1.25	i = 15.7	A 30 D/T	
15	84151946	1	Output shaft with gear wheel Z77	i = 7.78; 10.1; 15.7, K30	AUK30 D/T	
20	10011698	2	Lock screw M10X40 VB.RIPP		100 flZnL	
21	78720644	1	Gearbox housing AG30			
23	15059999	2	Stud M10 X 25		10.9	
25	30028344	4	Lock nut M10 VB.RIPP	MA= 75 Nm	10	
26			ZBF 90B/100 motor	1)		

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