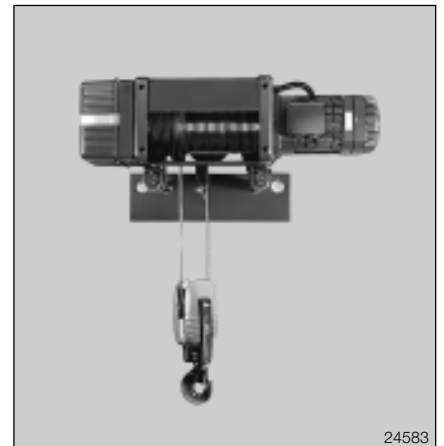


Demag hoist units – Volume 1

DH 160, DH 200, DH 300, DH 400, DH 500, DH 600, DH 1000, DH 2000



Demag hoist units
Volume 2
EZDH / EZLDH
double-rail crab,
see 203 346 44



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Trolley size 10	
UDH 1000, 2/1 and 4/2 reeving SWL 5000 kg – 12500 kg	70

EKDH low headroom monorail trolleys

Trolley size 3,2
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 SWL 1600 kg – 4000 kg 80
 KDH 300, 2/1 and 4/2 reeving, flange width 201– 400 mm
 SWL 1600 kg – 4000 kg 82
 Trolley size 6
 KDH 300, 4/1 reeving
 SWL 3200 kg – 8000 kg 84
 Trolley size 5
 KDH 400, 2/1 and 4/2 reeving, flange width 106 – 200 mm
 SWL 2000 kg – 5000 kg 86
 KDH 400, 2/1 and 4/2 reeving, flange width 201 – 400 mm
 SWL 2000 kg – 5000 kg 88
 Trolley size 6
 KDH 400, 4/1 reeving
 SWL 4000 kg – 10000 kg 90
 Trolley size 6
 KDH 500, 2/1 and 4/2 reeving
 SWL 2500 kg – 6300 kg 92
 Trolley size 10
 KDH 500, 4/1 reeving
 SWL 5000 kg – 12500 kg 94
 Trolley size 6
 KDH 600, 2/1 and 4/2 reeving
 SWL 3200 kg – 8000 kg 96
 Trolley size 10
 KDH 600, 4/1 reeving
 SWL 6300 kg – 16000 kg 98
 Trolley size 10
 KDH 1000, 2/1 and 4/2 reeving
 SWL 5000 kg – 12500 kg 100
Variable speed travel drive 102

If an operating limit switch is fitted for the top hook position, hook dimension “C” for 1/1, 2/1 and 4/1 rope reeving, increases as follows:

DH hoist unit

Table 1

1/1	2/1	4/1
85 mm	50 mm	20 mm

The effective hook path decreases by the values given in tables 2 and 3.

With operating limit switch for the top hook position

DH hoist unit

Table 2

1/1	2/1	4/1
- 85 mm	- 50 mm	- 20 mm

With operating limit switch for the top and bottom hook positions

DH hoist unit

Table 3

1/1	2/1	4/1
- 170 mm	- 100 mm	- 40 mm

There are two types of rope drum brake:

- FB = Overspeed brake
- HB = Holding brake

For further information see Operating Instructions for the rope drum brake 206 394 44 (720 IS 823.1)

Major assemblies

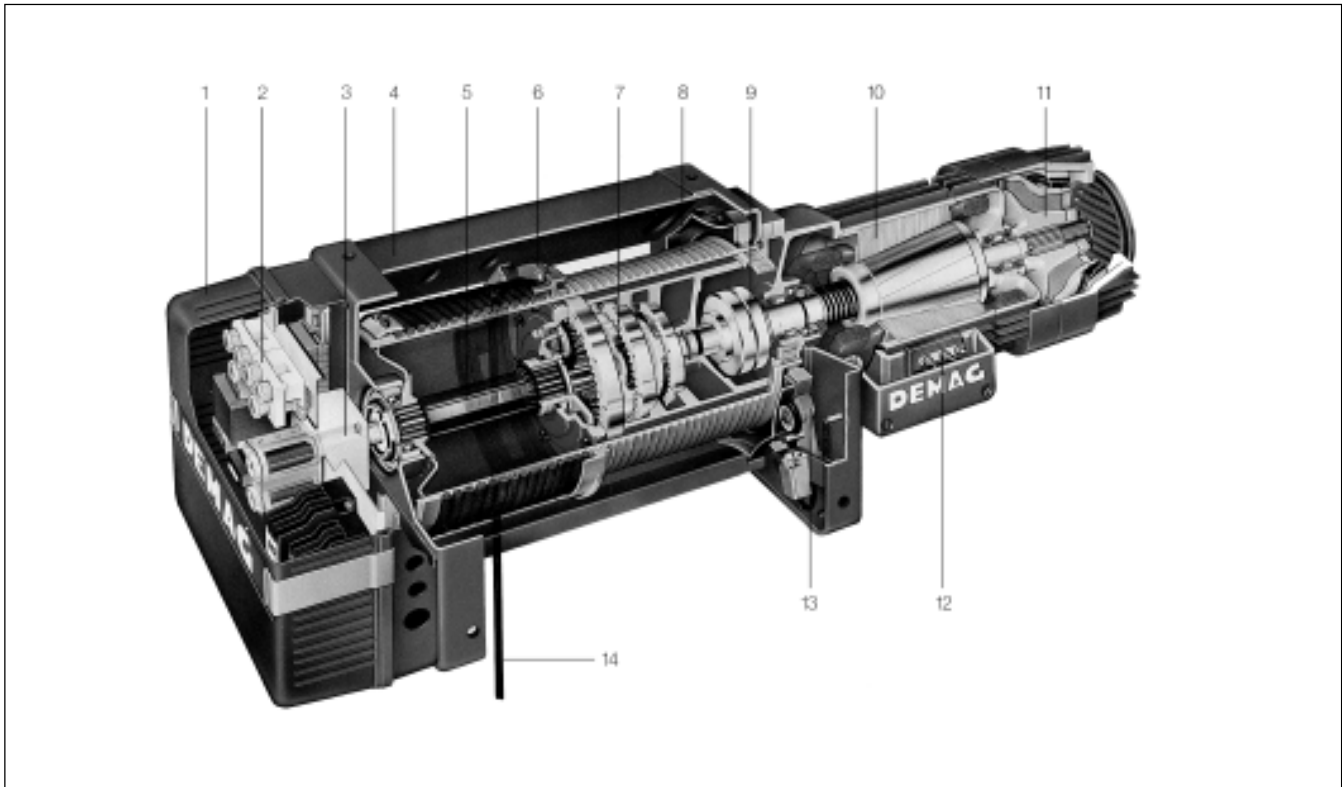
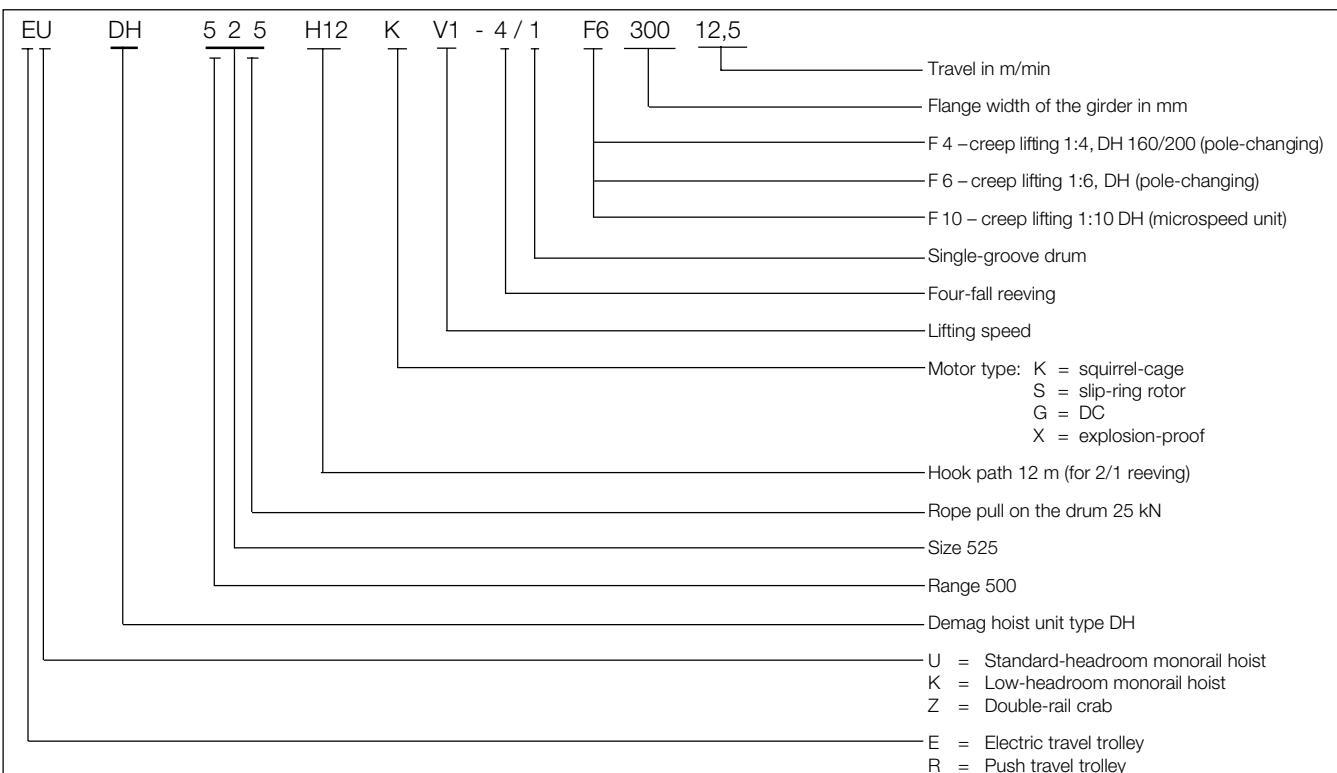


Fig. 1

24625-1.tif

- | | | |
|------------------------------|---------------------|---------------------------|
| 1 Electrical equipment cover | 6 Rope guide | 11 Main hoist motor brake |
| 2 Electrical components | 7 Planetary gearbox | 12 Terminal box |
| 3 Geared limit switch | 8 Rope drum | 13 Rope drum brake |
| 4 Frame | 9 Roller coupling | 14 Wire rope |
| 5 Connecting shaft | 10 Motor | |

Explanation of size designations



Selection criteria

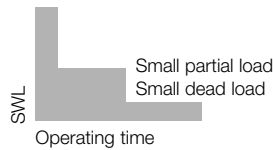
The size of the hoist is determined by the load spectrum, average operating time per working day, SWL and reeving.

The load spectrum

(in most cases estimated) can be evaluated in accordance with the following definitions:

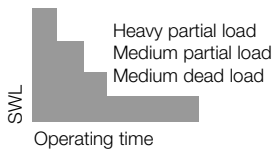
1 Light

Hoist units which are usually subject to very small loads and in exceptional cases only to maximum loads.



2 Medium

Hoist units which are usually subject to small loads but rather often to maximum loads.



3 Heavy

Hoists which are usually subject to medium loads but frequently to maximum loads.



4 Very heavy

Hoist units which are usually subject to maximum or almost maximum loads



- 1) Only available in groups of mechanisms
1 Bm, 1 Am and 2 m.



Check the frequency of starts per hour when selecting motors for DH hoist units (see pages 16 to 20).

DH hoist unit with pole-changing motor
Main lifting speed = 80 starts/h
Creep lifting speed = 160 starts/h

DH hoist unit with mechanical microspeed
Main lifting speed = 240 starts/h
Creep lifting speed = 240 starts/h

1. What are the operating conditions?
2. What is the specified SWL?
3. To what height must the load be lifted?
4. What is the required lifting speed?
5. Do the loads need to be lifted and lowered with high precision?
6. Is horizontal load travel necessary?
7. How is control to be effected?

The group is determined from the operating time and load spectrum.

Load spectrum	Average operating time per day in hours				
1 Light	up to 2	2-4	4-8	8-16	over 16
2 Medium ⇒	up to 1	1-2	2-4	4-8	8-16
3 Heavy	up to 0,5	0,5-1	1-2	2-4	4-8
4 Very heavy	up to 0,25	0,25-0,5	0,5-1	1-2	2-4
Group of mechanisms to FEM	1 Bm	1 Am	2 m	3 m	4 m
Rope reeving arrangement	Range	Size			
2/2	4/2	8/2			
1/1	2/1	4/1	6/1 1)	8/1 1)	
SWL t in kg					
500	1000	2000	-	-	-
630	1250	2500			
800	1600	3200	-	-	DH 160
1000	2000	4000	-	-	-
1250	2500	5000	-	-	DH 200
1600	3200	6300	-	-	-
2000	4000	8000	12500	16000	DH 300 320
2500	5000	⇒10000	16000	20000	DH 400 425
3200	6300	12500	20000	25000	DH 500 532
4000	8000	16000	25000	32000	DH 600 640
5000	10000	20000	32000	40000	-
6300	12500	25000	40000	50000	DH 1000 1063
8000	16000	32000	50000	63000	-
10000	20000	40000	63000	80000	-
12500	25000	50000	80000	100000	DH 2000 2125

Example (see ⇒ —)

SWL	5000 kg
Load spectrum	"light" from table
Lifting speed	8 m/min
Creep lifting speed	1,3 m/min
Rope reeving	2/1
Average hook path	4 m
No. of cycles/hour	20
Working time/day	8 hours

The average operating time per working day is estimated or calculated as follows:

$$\text{Operating time/day} @ \frac{2 \times \text{average hook path} \times \text{no. of cycles/h} \times \text{working time/day}}{60 \times \text{lifting speed}}$$

$$\text{Operating time/day} @ \frac{2 \times 4 \times 20 \times 8}{60 \times 8} @ 2,66 \text{ hours}$$

For the light load spectrum and an average daily operating time of 2,66 hours the table shows FEM group 1 Am. For an SWL of 5000 kg and 2/1 rope reeving, the table indicates a hoist size DH 525.

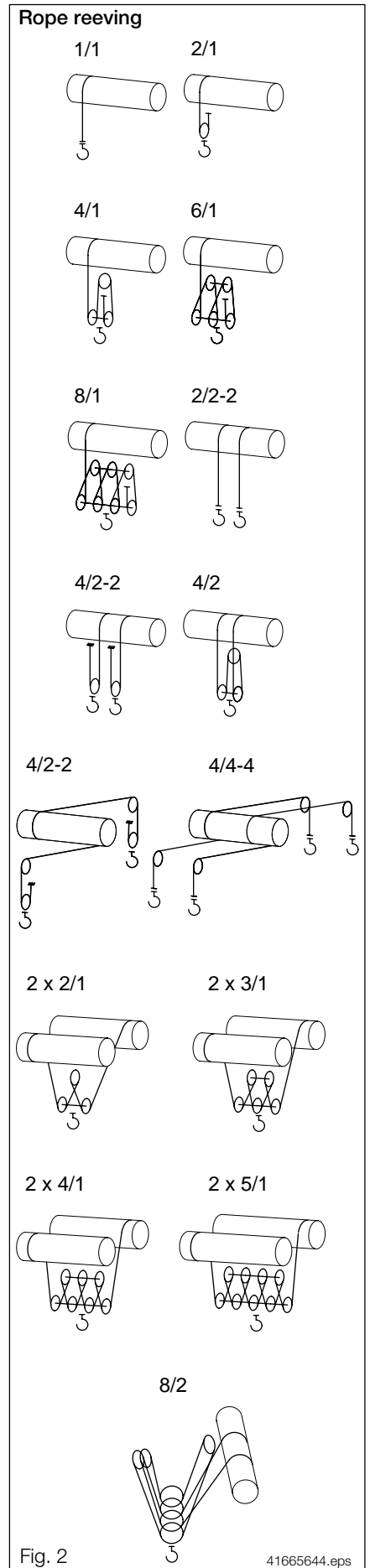
Selection table

SWL kg	Rope reeving		1/1	2/2-2	Lifting speed 1) 2)			Rope reeving		2/1	4/2	Lifting speed 1) 2)		
	Size	FEM	Hook path	Hook path	m/min			Size	FEM	Hook path	Hook path	m/min		
			m	m	V1	V2	V3			m	m	V1	V2	V3
500	DH 165	3 m	24; 38	20,6	18/4,4	28/7	-							
630	DH 166	2 m	24; 38	20,6	-	22,4/5,6	28/7							
800	DH 168	1 Am	24; 38	20,6	-	22,4	-							
	DH 208	2 m	20; 32	18,2	12,5/3,2	18/4,4	28/7							
	DH 308	4 m	24; 40	12,6; 24	-	14,2/2,4	28/4,6							
1000	DH 210	2 m	20; 32	18,2	16	22,4/5,6	-	DH 165	3 m	12; 19	10,3	9/2,2	14/3,5	-
	DH 310	3 m	24;40	12,6; 24	20/3,4	22,4/3,6	32 3)					-	11,2/1,8	
	DH 410	4 m	24;40	12,6; 24	25/4,2	22,4/3,6	32/5,4							
1250	DH 212	1 Am	20; 32	18,2	12,5	18/4,4	-	DH 166	2 m	12; 19	10,3	7,1/1,8	11,2/2,8	14/3,5
	DH 312	2 m	24; 40	12,6; 24	16/2,7	18/3	32 3)					-	9/1,5	14/2,3
	DH 412	3 m	24; 40	12,6; 24	10	20/3,4	25							
	DH 512	4 m	24; 40	10,4; 20,4	12,5/2,1	25/4,2	32/5,4							
1600	DH 316	1 Am	24; 40	12,6; 24	16/2,7	16/2,7	25	DH 168	1 Am	12; 19	10,3	-	11,2	-
	DH 416	2 m	24; 40	12,6; 24	12,5/2,1	16/2,7	25/4,2	DH 208	2 m	10; 16	9,1	6,3/1,6	9/2,2	14/3,5
	DH 516	3 m	24; 40	10,4; 20,4	12,5	20/3,4	32 3)	DH 308	4 m	12; 20	6,3; 12	-	7,1/1,2	14/2,3
	DH 616 4)	4 m	24; 40	10,4; 20,4	12,5/2,1	20/3,4	32/5,4					8	12,5	16
2000	DH 320	1 Bm	24; 40	12,6; 24	10	20/3,4	25	DH 210	2 m	10; 16	9,1	10/1,7	12,5/2,1	16/2,7
	DH 420	1 Am	24; 40	-	12,5/2,1	20/3,4	32/5,4	DH 310	3 m	12; 20	6,3; 12	9	11,2/2,8	-
	DH 520	2 m	24; 40	10,4; 20,4	10	20/3,4	25	DH 410	4 m	12; 20	6,3; 12	7,1/1,8	11,2/1,8	-
	DH 620 4)	3 m	24; 40	10,4; 20,4	12,5	20/3,4	32 3)					6,3	10	16
2500	DH 525	1 Am	24; 40	10,4; 20,4	10/1,7	20/3,4	25	DH 212	1 Am	10; 16	9,1	8/1,3	10/1,7	16
	DH 625 4)	2 m	24; 40	10,4; 20,4	10	16/2,7	25/4,2	DH 312	2 m	12; 20	6,3; 12	8	10	16
	DH 1025	4 m	32; 48	16; 27	20	32 3)	50 3)	DH 412	3 m	12; 20	6,3; 12	5	8	12,5
			80; 102	49,6; 66	20/3,4	32/5,4	44,8/7,4	DH 512	4 m	12; 20	5,2; 10,2	6,3/1	8/1,3	12,5/2,1
3200	DH 532	1 Bm	24; 40	10,4; 20,4	8	20/3,4	25	DH 316	1 Am	12; 20	6,3; 12	8	8	12,5
	DH 632 4)	1 Am	24; 40	10,4; 20,4	-	12,5/2	20/3,4	DH 416	2 m	12; 20	6,3; 12	6,3/1	8/1,3	12,5/2,1
	DH 1032	3 m	32; 48	16; 27	16	25	36 3)	DH 516	3 m	12; 20	5,2; 10,2	6,3/1	10	16
4000	DH 1040	2 m	32; 48	16; 27	16/2,7	25/4,2	36/6	DH 616 4)	4 m	12; 20	5,2; 10,2	6,3/1	10/1,7	16
			80; 102	49,6; 66	16	25	36/6	DH 320	1 Bm	12; 20	6,3; 12	5	6,3	10
					16/2,7	25/4,2	36/6	DH 420	1 Am	12; 20	6,3; 12	-	6,3/1	10/1,7
								DH 520	2 m	12; 20	5,2; 10,2	6,3	10	16
5000	DH 1050	1 Am	32; 48	16; 27	12,5	20	32 3)	DH 620 4)	3 m	12; 20	5,2; 10,2	5	8	12,5
	DH 2050	4 m	-	13,8; 24,8	16/2,7	22,4/3,7	-	DH 425	1 Bm	12; 20	6,3; 12	5/0,8	8/1,3	12,5/2,1
					16	25	32	DH 525	1 Am	12; 20	5,2; 10,2	5	8	12,5
					16/2,7	22,4/3,7	-	DH 625 4)	2 m	12; 20	5,2; 10,2	5/0,8	8/1,3	12,5/2,1
							DH 1025	4 m	16; 24	8; 13,5	10	16	25	

Selection table

SWL kg	Rope reeving		4/1	Lifting speed 1) 2)		
	Size	FEM	Hook path	m/min		
			m	V1	V2	V3
500						
630						
800						
1000						
1250						
1600						
2000	DH 165	3 m	6; 9,5	4,5/1,1	7/1,7 5,6/0,9	-
2500	DH 166	2 m	6; 9,5	3,5/0,9	5,6/1,4 4,5/0,7	7/1,7 7/1,1
3200	DH 168	1 A m	6; 9,5	-	5,6 4,5/1,1; 3,5/0,6	7/1,7 7/1,1
	DH 208	2 m	5; 8	5,6 4,5/1,1; 4,5/0,7	7/1,7 7/1,1	-
	DH 308	4 m	6; 10	4 5/0,8	6,3 6,3/1	8 8/1,3
4000	DH 210	2 m	5; 8	4,5 3,5/0,9; 3,5/0,6	5,6/1,4 5,6/0,9	-
	DH 310	3 m	6; 10	3,1 4/0,6	5 5/0,8	8 8/1,3
	DH 410	4 m	6; 10	3,1 4/0,6	5 5/0,8	8 8/1,3
5000	DH 212	1 Am	5; 8	3,5 -	4,5/1,1 4,5/0,7	-
	DH 312	2 m	6; 10	4 4/0,6	5 5/0,8	8 8/1,3
	DH 412	3 m	6; 10	2,5 3,1/0,5	4 4/0,6	6,3 6,3/1
	DH 512	4 m	6; 10 20; 26	4 4/0,6	6,3 6,3/1	8 8/1,3

- 1) The given main/creep lifting speed 1:6 is achieved with a 2/12-pole motor. See pages 13 – 15 for microspeed unit lifting speed 1:10. Other creep lifting speeds on request.
- 2) The given main/creep lifting speed 1:4 of the DH 160/200 is achieved with a pole-changing motor.
- 3) Lifting speeds 1/1 and 2/2 on request.
- 4) DH 600 hoist units with hook paths H40 and H52 are only available in flange-mounted design FDH. EUDH, EKDH monorail travelling hoist units and EZHD, EZLD double-rail crabs on request.



Selection table

SWL kg	Rope reeving		1/1	2/2-2	Lifting speed 1)			Rope reeving		2/1	4/2	Lifting speed 1)		
	Size	FEM	Hook path	Hook path	m/min			Size	FEM	Hook path	Hook path	m/min		
			m	m	V1	V2	V3			m	m	V1	V2	V3
6300	DH 1063	1 Bm	32; 48 80; 102	16; 27 49,6; 66	10 -	16 16/2,7	24,2 22,4/3,6	DH 532	1 Bm	12; 20 40; 52	5,2; 10,2 22,6; 30,2	4 -	6,3 6,3/1	10 10/1,7
	DH 2063	3 m	36; 54 94	13,8; 24,8 48,8	12,5 12,5/2,1	20 18/3	25 -	DH 632 3)	1 Am	12; 20 40; 52	5,2; 10,2 22,6; 30,2	4 -	6,3 6,3/1	10 10/1,7
								DH 1032	3 m	16; 24 40; 51	8; 13,5 24,8; 33	8 8/1,3	12,5 12,5/2,1	18 18/3
8000	DH 2080	2 m	36; 54 94	13,8; 24,8 48,8	12,5 12,5/2,1	20 18/3	25 -	DH 640 3)	1 Bm	12; 20 40; 52	5,2; 10,2 22,6; 30,2	3,1 -	5 5/0,8	8 8/1,3
								DH 1040	2 m	16; 24 40; 51	8; 13,5 24,8; 33	8 8/1,3	12,5 12,5/2,1	18 18/3
10000	DH 2100	1 Am	36; 54 94	13,8; 24,8 48,8	10 10/1,7	16 14,2/2,4	20 -	DH 1050	1 Am	16; 24 40; 51	8; 13,5 24,8; 33	6,3 6,3/1	10 10/1,7	16 14/2,3
								DH 2050	4 m	18; 27 47	6,9; 12,4 24,4	8 8/1,3	12,5 11,2/1,9	16 -
12500	DH 2125	1 Bm	36; 54 94	13,8; 24,8 48,8	8 8/1,3	12,5 11,2/1,8	16 -	DH 1063	1 Bm	16; 24 40; 51	8; 13,5 24,8; 33	5 -	8 8/1,3	12,5 11,2/1,8
								DH 2063	3 m	18; 27 47	6,9; 12,4 24,4	6,3 6,3/1	10 9/1,5	12,5 -
16000								DH 2080	2 m	18; 27 47	6,9; 12,4 24,4	6,3 6,3/1	10 9/1,5	12,5 -
20000								DH 2100	1 Am	18; 27 47	6,9; 12,4 24,4	5 5/0,8	8 7,1/1,2	10 -
25000								DH 2125	1 Bm	18; 27 47	6,9; 12,4 24,4	4 4/0,6	6,3 5,6/0,9	8 -
32000														
40000														
50000														

1) The given main/creep lifting speed 1:6 is achieved with a 2/12-pole motor.
See pages 13 – 15 for microspeed unit lifting speed 1:10.
Other creep lifting speeds on request.

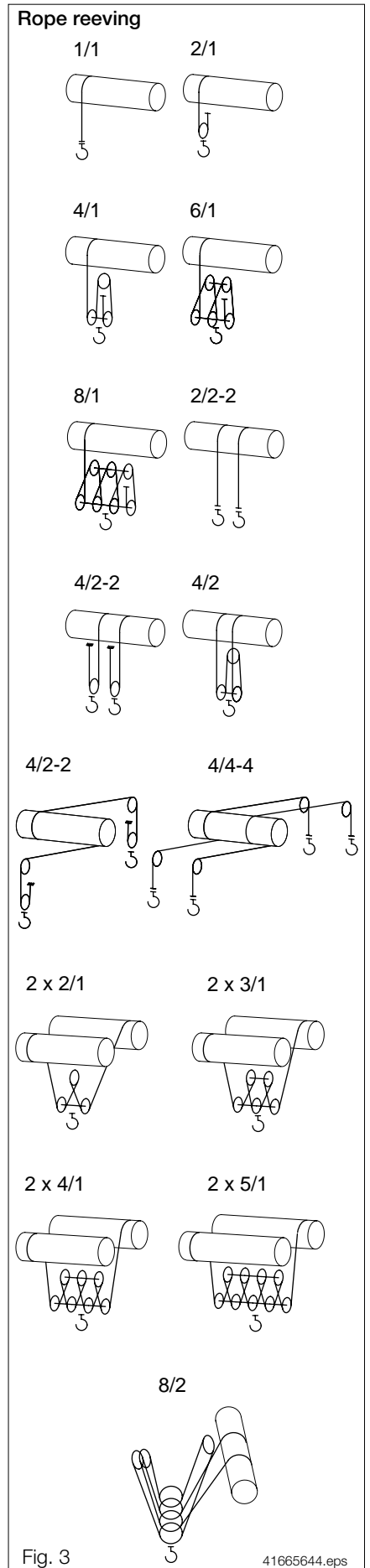


2) DH 600 hoist units with hook paths H40 and H52 are only available in flange-mounted design FDH.
EUDH, EKDH monorail travelling hoist units and EZHD, EZLD double-rail crabs on request.

Selection table

SWL kg	Rope reeving		4/1	Lifting speed 1)		
	Size	FEM	Hook path	m/min		
			m	V1	V2	V3
6300	DH 316	1 Am	6; 10	3,1 3,1/0,5	4 4/0,6	6,3 6,3/1
	DH 416	2 m	6; 10	3,1 3,1/0,5	4 4/0,6	6,3 6,3/1
	DH 516	3 m	6; 10 20; 26	3,1 3,1/0,5	5 5/0,8	8 8/1,3
	DH 616 2)	4 m	6; 10 20; 26	3,1 3,1/0,5	5 5/0,8	8 8/1,3
8000	DH 320	1 Bm	6; 10	2,5 -	3,1 3,1/0,5	5 5/0,8
	DH 420	1 Am	6; 10	2,5 -	3,1 3,1/0,5	5 5/0,8
	DH 520	2 m	6; 10 20; 26	3,1 3,1/0,5	5 5/0,8	8 8/1,3
	DH 620 2)	3 m	6; 10 20; 26	2,5 2,5/0,4	4 4/0,6	6,3 6,3/1
10000	DH 425	1 Bm	6; 10	2 -	2,5 -	4 4/0,6
	DH 525	1 Am	6; 10 20; 26	2,5 2,5/0,4	4 4/0,6	6,3 6,3/1
	DH 625 2)	2 m	6; 10 20; 26	2,5 2,5/0,4	4 4/0,6	6,3 6,3/1
	DH 1025	4 m	8; 12 20; 25,5	5 5/0,8	8 8/1,3	12,5 11,2/1,8
12500	DH 532	1 Bm	6; 10 20; 26	2 -	3,1 3,1/0,5	5 5/0,8
	DH 632 2)	1 Am	6; 10 20; 26	2 -	3,1 3,1/0,5	5 5/0,8
	DH 1032	3 m	8; 12 20; 25,5	4 4/0,6	6,3 6,3/1	9 9/1,5
16000	DH 640 2)	1 Bm	6; 10 20; 26	1,6 -	2,5 2,5/0,4	4 4/0,6
	DH 1040	2 m	8; 12 20; 25,5	4 4/0,6	6,3 6,3/1	9 9/1,5
20000	DH 1050	1 Am	8; 12 20; 25,5	3,1 3,1/0,5	5 5/0,8	8 7/1,1
	DH 2050	4 m	9; 13,5 23,5	4 4/0,6	6,3 5,6/0,9	8 -
25000	DH 1063	1 Bm	8; 12 20; 25,5	2,5 -	4 4/0,6	6,3 5,6/0,9
	DH 2063	3 m	9; 13,5 23,5	3,1 3,1/0,5	5 4,5/0,7	6,3 -
32000	DH 2080	2 m	9; 13,5 23,5	3,1 3,1/0,5	5 4,5/0,7	6,3 -
40000	DH 2100	1 Am	9; 13,5 23,5	2,5 2,5/0,4	4 3,6/0,6	5 -
50000	DH 2125	1 Bm	9; 13,5 23,5	2 2/0,3	3,1 2,8/0,4	4 -

- 1) The given main/creep lifting speed 1:6 is achieved with a 2/12-pole motor.
See pages 13 – 15 for microspeed unit lifting speed 1:10.
Other creep lifting speeds on request.
- 2) DH 600 hoist units with hook paths H40 and H52 are only available in flange-mounted design FDH.
EUDH, EKDH monorail travelling hoist units and EZHD, EZLD double-rail crabs on request.



Selection table

SWL kg	Rope reeving		6/1	Lifting speed 1)			Rope reeving		8/1	Lifting speed 1)		
	Size	FEM	Hook path	m/min			Size	FEM	Hook path	m/min		
			m	V1	V2	V3			m	V1	V2	V3
10000												
12500	DH 520	2 m	6,6; 13,3; 17,3	2 2/0,3	3,3 3,3/0,5	5,3 5,3/0,9						
16000	DH 525	1 Am	6,6; 13,3; 17,3	1,6 1,6/0,2	2,6 2,6/0,4	4,1 4,1/0,7	DH 520	2 m	3; 5; 10; 13	1,5 1,5/0,2	2,5 2,5/0,4	4 4/0,6
20000	DH 532	1 Bm	6,6; 13,3; 17,3	1,3 -	2 2/0,3	3,3 3,3/0,5	DH 525	1 Am	3; 5; 10; 13	1,2 1,2/0,2	2 2/0,3	3,1 3,1/0,5
25000	DH 1040	2 m	5,3; 8; 13,3; 17	2,6 2,6/0,4	4,1 4,1/0,7	6 6/1	DH 532	1 Bm	3; 5; 10; 13	1 -	1,5 1,5/0,2	2,5 2,5/0,4
32000	DH 1050	1 Am	5,3; 8; 13,3; 17	2 2/0,3	3,3 3,3/0,5	5,3 4,6/0,8	DH 1040	2 m	4; 6; 10; 12,7	2 2/0,3	3,1 3,1/0,5	4,5 4,5/0,7
40000	DH 1063	1 Bm	5,3; 8; 13,3; 17	1,6 -	2,6 2,6/0,4	4 3,7/0,6	DH 1050	1 Am	4; 6; 10; 12,7	1,5 1,5/0,2	2,5 2,5/0,4	4 3,5/0,6
50000	DH 2080	2 m	6; 9; 15,7	2 2/0,3	3,3 3/0,5	4,1 -	DH 1063	1 Bm	4; 6; 10; 12,7	1,2 -	2 2/0,3	3 2,8/0,4
63000	DH 2100	1 Am	6; 9; 15,7	1,6 1,6/0,2	2,6 2,4/0,4	3,3 -	DH 2080	2 m	4,5; 6,8; 11,8	1,5 1,5/0,2	2,5 2,3/0,4	3,1 -
80000	DH 2125	1 Bm	6; 9; 15,7	1,3 1,3/0,2	2 1,9/0,3	2,6 -	DH 2100	1 Am	4,5; 6,8; 11,8	1,2 1,2/0,2	2 1,8/0,3	2,5 -
100000							DH 2125	1 Bm	4,5; 6,8; 11,8	1 1/0,1	1,6 1,4/0,2	2 -

1) The given main/creep lifting speed 1:6 is achieved with a 2/12-pole motor.
See pages 13 – 15 for microspeed unit lifting speed 1:10.
Other creep lifting speeds on request.

Selection table

SWL kg	Rope reeving		8/2	Lifting speed 1)		
	Size	FEM		Hook path	m/min	
			m 3)	V1	V2	V3
10000	DH 1025	4 m	4;6,7; 12,4;16,5	5 5/0,8	8 8/1,3	12,5 11,2/1,8
12500	DH 1032	3 m	4;6,7; 12,4;16,5	4 4/0,6	6,3 6,3/1	9 9/1,5
16000	DH 1040	2 m	4;6,7; 12,4;16,5	4 4/0,6	6,3 6,3/1	9 9/1,5
20000	DH 1050	1 Am	4;6,7; 12,4;16,5	3,1 3,1/0,5	5 5/0,8	8 7/1,1
	DH 2050	4 m	3,4;6,1; 12,1	4 4/0,6	6,3 5,6/0,9	8 -
25000	DH 1063	1 Bm	4;6,7; 12,4;16,5	2,5 -	4 4/0,6	6 5,6/0,9
	DH 2063	3 m	3,4;6,1; 12,1	3,1 3,1/0,5	5 4,5/0,7	6,3 -
32000	DH 2080	2 m	3,4; 6,1;12,1	3,1 3,1/0,5	5 4,5/0,7	6,3 -
40000	DH 2100	1 Am	3,4; 6,1;12,1	2,5 2,5/0,4	4 3,6/0,6	5 -
50000	DH 2125	1 Bm	3,4; 6,1;12,1	2 2/0,3	3,1 2,8/0,4	4 -
63000						
80000						
100000						

1) The given main/creep lifting speed 1:6 is achieved with a 2/12-pole motor.
See pages 13 – 15 for microspeed unit lifting speed 1:10.
Other creep lifting speeds on request.

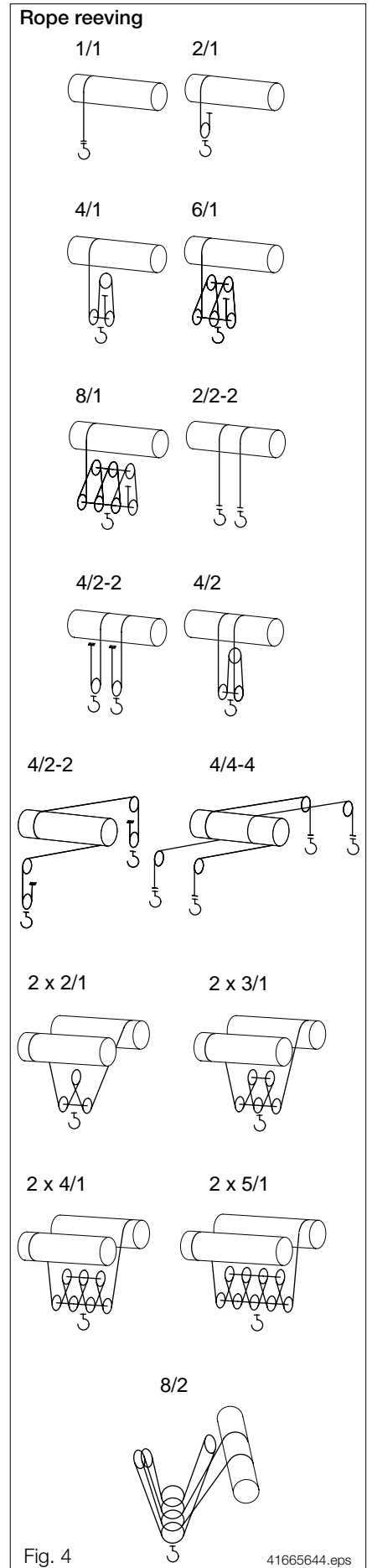


Fig. 4

Determination table, squirrel-cage lifting motors

Further motor types, e.g. SBH slip-ring rotor motors, GD DC motors and explosion-proof motors.
Frequency inverter controlled motors on request.

Range		DH 160							
Size		168			166			165	
Groups of mechanisms to FEM		1 Am			2 m			3 m	
Code (lifting speed)		V1	V2	V3	V1	V2	V3	V1	V2
Motor type		Main/creep lifting, pole-changing F4							
Main/creep lifting F4 with rope reeving	2/1 m/min	6,3/1,6	9/2,2	14/3,5	7,1/1,8	11,2/2,8	14/3,5	9/2,2	14/3,5
	4/1 m/min	-	4,5/1,1	7/1,7	3,5/0,9	5,6/1,4	7/1,7	4,5/1,1	7/1,7
Main hoist motor Size	KMH...B 2/8	90	100	112	90	100	112	90	100
Motor type		Main/creep lifting, pole-changing F6							
Main/creep lifting F6 with rope reeving	2/1 m/min	-	7,1/1,2	14/2,3	-	9/1,5	14/2,3	-	11,2/1,8
	4/1 m/min	-	3,5/0,6	7/1,1	-	4,5/0,7	7/1,1	-	5,6/0,9
Main hoist motor Size	KMH...B 2/12	-	100	112	-	100	112	-	100
Motor type		Main hoist							
Main lifting speed with rope reeving	2/1 m/min	-	11,2	-	-			-	
	4/1 m/min	-	5,6	-	-			-	
Main hoist motor Size	KMH...B 2	-	100	-	-			-	

Range		DH 200					
Size		212		210		208	
Groups of mechanisms to FEM		1 Am		2 m		2 m	
Code (lifting speed)		V1	V2	V1	V2	V1	V2
Motor type		Main/creep lifting, pole-changing F4					
Main/creep lifting F4 with rope reeving	2/1 m/min	-	9/2,2	7,1/1,8	11,2/2,8	9/2,2	14/3,5
	4/1 m/min	-	4,5/1,1	3,5/0,9	5,6/1,4	4,5/1,1	7/1,7
Main hoist motor Size	KMH...B 2/8	-	112	100	112	100	112
Motor type		Main/creep lifting, pole-changing F6					
Main/creep lifting F6 with rope reeving	2/1 m/min	-	9/1,5	7,1/1,2	11,2/1,8	9/1,5	14/2,3
	4/1 m/min	-	4,5/0,7	3,5/0,6	5,6/0,9	4,5/0,7	7/1,1
Main hoist motor Size	KMH...B 2/12	-	112	112	112	112	112
Motor type		Main hoist					
Main/creep lifting F4 with rope reeving	2/1 m/min	7,1	-	9	-	11,2	-
	4/1 m/min	3,5	-	4,5	-	5,6	-
Main hoist motor Size	KMH...B 2	100	-	100	-	100	-

Range		DH 300														
Size		320			316			312			310			308		
Groups of mechanisms to FEM		1 Bm			1 Am			2 m			3 m			4 m		
Code (lifting speed)		V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3
Motor type		Main/creep lifting, pole-changing F6														
Main/creep lifting F6 with rope reeving	2/1 m/min	-	6,3/1,0	10/1,7	6,3/1,0	8/1,3	12,5/2,1	8/1,3	10/1,7	16/2,7	8/1,3	10/1,7	16/2,7	10/1,7	12,5/2,1	16/2,7
	4/1 m/min	-	3,1/0,5	5/0,8	3,1/0,5	4/0,6	6,3/1	4/0,6	5/0,8	8/1,3	4/0,6	5/0,8	8/1,3	5/0,8	6,3/1	8/1,3
Main hoist motor Size	KBH...B 2/12	-	125	140	112	125	140	112	125	140	112	125	140	112	125	140
Motor type		Main hoist and F10 mechanical microspeed unit														
Main lifting speed with rope reeving	2/1 m/min	5	6,3	10	6,3	8	12,5	8	10	16 ¹⁾	6,3	10	16 ¹⁾	8	12,5	16 ¹⁾
	4/1 m/min	2,5	3,1	5	3,1	4	6,3	4	5	8	3,1	5	8	4	6,3	8
Creep lifting speed (F10 mechanical microspeed) with rope reeving	2/1 m/min	0,5	0,63	1,0	0,63	0,8	1,25	0,8	1,0	1,6	0,63	1,0	1,6	0,8	1,25	1,6
	4/1 m/min	0,25	0,31	0,5	0,31	0,4	0,63	0,4	0,5	0,8	0,31	0,5	0,8	0,4	0,63	0,8
Main hoist motor Size	KBH...B4	100	112	125	100	112	125	100	112	125	100	112	125	100	112	125
Mechanical microspeed Size	FG...	06	08		06	08		06	08		06	08		06	08	
F10 creep lifting motor Size	KBA...B4	71	71	80	71	71	80	71	71	80	71	71	80	71	71	80

Range		DH 400														
Size		425			420			416			412			410		
Groups of mechanisms to FEM		1 Bm			1 Am			2 m			3 m			4 m		
Code (lifting speed)		V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3
Motor type		Main/creep lifting, pole-changing F6														
Main/creep lifting F6 with rope reeving	2/1 m/min	-	-	8/1,3	-	6,3/1,0	10/1,7	6,3/1,0	8/1,3	12,5/2,1	6,3/1,0	8/1,3	12,5/2,1	8/1,3	10/1,7	16/2,7
	4/1 m/min	-	-	4/0,6	-	3,1/0,5	5/0,8	3,1/0,5	4/0,6	6,3/1	3,1/0,5	4/0,6	6,3/1	4/0,6	5/0,8	8/1,3
Main hoist motor Size	KBH...B 2/12	-	-	140	-	125	140	112	125	140	112	125	140	112	125	140
Motor type		Main hoist and F10 mechanical microspeed unit														
Main lifting speed with rope reeving	2/1 m/min	4	5	8	5	6,3	10	6,3	8	12,5	5	8	12,5	6,3	10	16 ¹⁾
	4/1 m/min	2	2,5	4	2,5	3,1	5	3,1	4	6,3	2,5	4	6,3	3,1	5	8
Creep lifting speed (F10 mechanical microspeed) with rope reeving	2/1 m/min	0,4	0,5	0,8	0,5	0,63	1,0	0,63	0,8	1,25	0,5	0,8	1,25	0,63	1,0	1,6
	4/1 m/min	0,2	0,25	0,4	0,25	0,31	0,5	0,31	0,4	0,63	0,25	0,4	0,63	0,31	0,5	0,8
Main hoist motor Size	KBH...B4	100	112	125	100	112	125	100	112	125	100	112	125	100	112	125
Mechanical microspeed Size	FG...	06	08		06	08		06	08		06	08		06	08	
F10 creep lifting motor Size	KBA...B4	71	71	80	71	71	80	71	71	80	71	71	80	71	71	80

1) Lifting speeds 1/1 and 2/2 on request

Range		DH 500														
Size		532			525			520			516			512		
Groups of mechanisms to FEM		1 Bm			1 Am			2 m			3 m			4 m		
Code (lifting speed)		V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3
Motor type		Main/creep lifting, pole-changing F6														
Main/creep lifting F6 with rope reeving	2/1 m/min	-	6,3/1,0	10/1,7	5/0,8	8/1,3	12,5/2,1	6,3/1,0	10/1,7	16/2,7	6,3/1,0	10/1,7	16/2,7	8/1,3	12,5/2,1	16/2,7
	4/1 m/min	-	3,1/0,5	5/0,8	2,5/0,4	4/0,6	6,3/1	3,1/0,5	5/0,8	8/1,3	3,1/0,5	5/0,8	8/1,3	4/0,6	6,3/1	8/1,3
Main hoist motor Size	KBH...B 2/12	-	140	160	125	140	160	125	140	160	125	140	160	125	140	160
Motor type		Main hoist and F10 mechanical microspeed unit														
Main lifting speed with rope reeving	2/1 m/min	4	6,3	10	5	8	12,5	6,3	10	16 ¹⁾	6,3	10	16 ¹⁾	8	12,5	16 ¹⁾
	4/1 m/min	2	3,1	5	2,5	4	6,3	3,1	5	8	3,1	5	8	4	6,3	8
Creep lifting speed (F10 mechanical microspeed) with rope reeving	2/1 m/min	0,4	0,63	1,0	0,5	0,8	1,25	0,63	1,0	1,6	0,63	1,0	1,6	0,8	1,25	1,6
	4/1 m/min	0,2	0,31	0,5	0,25	0,4	0,63	0,31	0,5	0,8	0,31	0,5	0,8	0,4	0,63	0,8
Main hoist motor Size	KBH...B4	112	125	140	112	125	140	112	125	140	112	125	140	112	125	140
Mechanical microspeed Size	FG...	08			08			08			08			08		
F10 creep lifting motor Size	KBA...B4	71	80	80	71	80	80	71	80	80	71	80	80	71	80	80

Range		DH 600														
Size		640			632			625			620			616		
Groups of mechanisms to FEM		1 Bm			1 Am			2 m			3 m			4 m		
Code (lifting speed)		V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3
Motor type		Main/creep lifting, pole-changing F6														
Main/creep lifting F6 with rope reeving	2/1 m/min	-	5/0,8	8/1,3	-	6,3/1,0	10/1,7	5/0,8	8/1,3	12,5/2,1	5/0,8	8/1,3	12,5/2,1	6,3/1,0	10/1,7	16/2,7
	4/1 m/min	-	2,5/0,4	4/0,6	-	3,1/0,5	5/0,8	2,5/0,4	4/0,6	6,3/1	2,5/0,4	4/0,6	6,3/1	3,1/0,5	5/0,8	8/1,3
Main hoist motor Size	KBH...B 2/12	-	140	160	-	140	160	125	140	160	125	140	160	125	140	160
Motor type		Main hoist and F10 mechanical microspeed unit														
Main lifting speed with rope reeving	2/1 m/min	3,1	5	8	4	6,3	10	5	8	12,5	5	8	12,5	6,3	10	16 ¹⁾
	4/1 m/min	1,6	2,5	4	2	3,1	5	2,5	4	6,3	2,5	4	6,3	3,1	5	8
Creep lifting speed (F10 mechanical microspeed) with rope reeving	2/1 m/min	0,31	0,5	0,8	0,4	0,63	1,0	0,5	0,8	1,25	0,5	0,8	1,25	0,63	1,0	1,6
	4/1 m/min	0,16	0,25	0,4	0,2	0,31	0,5	0,25	0,4	0,63	0,25	0,4	0,63	0,31	0,5	0,8
Main hoist motor Size	KBH...B4	112	125	140	112	125	140	112	125	140	112	125	140	112	125	140
Mechanical microspeed Size	FG...	08			08			08			08			08		
F10 creep lifting motor Size	KBA...B4	71	80	80	71	80	80	71	80	80	71	80	80	71	80	80

1) Lifting speeds 1/1 and 2/2 on request

Range	DH 1000															
Size	1063			1050			1040			1032			1025			
Groups of mechanisms to FEM	1 Bm			1 Am			2 m			3 m			4 m			
Code (lifting speed)	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	
Motor type	Main/creep lifting, pole-changing F6															
Main/creep lifting F6 with rope reeving	2/1 m/min	-	8/1,3	11,2/1,8	6,3/1,0	10/1,7	14/2,3	8/1,3	12,5/2,1	18/3	8/1,3	12,5/2,1	18/3	10/1,7	16/2,7	22,4/3,7
	4/1 m/min	-	4/0,6	5,6/0,9	3,1/0,5	5/0,8	7/1,1	4/0,6	6,3/1	9/1,5	4/0,6	6,3/1	9/1,5	5/0,8	8/1,3	11,2/1,8
Main hoist motor Size	KBH...B 2/12	-	180	200	160	180	200	160	180	200	160	180	200	160	180	200
Motor type	Main hoist and F10 mechanical microspeed unit															
Main lifting speed with rope reeving	2/1 m/min	5	8	12,5	6,3	10	16 ¹⁾	8	12,5	18 ¹⁾	8	12,5	18 ¹⁾	10	16 ¹⁾	25 ¹⁾
	4/1 m/min	2,5	4	6,3	3,1	5	8	4	6,3	9	4	6,3	9	5	8	12,5
Creep lifting speed (F10 mech. microspeed) with rope reeving	2/1 m/min	0,5	0,8	1,25	0,63	1,0	1,6	0,8	1,25	1,8	0,8	1,25	1,8	1,0	1,6	2,5
	4/1 m/min	0,25	0,4	0,63	0,31	0,5	0,8	0,4	0,63	0,9	0,4	0,63	0,9	0,5	0,8	1,25
Main hoist motor Size	KBH...B	140 B4	160 B4	200 B6	140 B4	160 B4	200 B6	140 B4	160 B4	200 B6	140 B4	160 B4	200 B6	140 B4	160 B4	200 B6
Mechanical microspeed Size	FG...	08	10		08	10		08	10		08	10		08	10	
F10 creep lifting motor Size	KBA...B4	80	90	100	80	90	100	80	90	100	80	90	100	80	90	100

Range	DH 2000															
Size	2125			2100			2080			2063			2050			
Groups of mechanisms to FEM	1 Bm			1 Am			2 m			3 m			4 m			
Code (lifting speed)	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	
Motor type	Main/creep lifting, pole-changing F6															
Main/creep lifting F6 with rope reeving	2/1 m/min	4/0,6	5,6/0,9	-	5/0,8	7,1/1,2	-	6,3/1,0	9/1,5	-	6,3/1,0	9/1,5	-	8/1,3	11,2/1,9	-
	4/1 m/min	2/0,3	2,8/0,4	-	2,5/0,4	3,6/0,6	-	3,1/0,5	4,5/0,7	-	3,1/0,5	4,5/0,7	-	4/0,6	5,6/0,9	-
	2/2 m/min	8/1,3	11,2/1,8	-	10/1,7	14,2/2,4	-	12,5/2,1	18/3	-	12,5/2,1	18/3	-	16/2,7	22,4/3,7	-
	4/2 m/min	4/0,6	5,6/0,9	-	5/0,8	7,1/1,2	-	6,3/1,0	9/1,5	-	6,3/1,0	9/1,5	-	8/1,3	11,2/1,9	-
	8/2 m/min	2/0,3	2,8/0,4	-	2,5/0,4	3,6/0,6	-	3,1/0,5	4,5/0,7	-	3,1/0,5	4,5/0,7	-	4/0,6	5,6/0,9	-
Main hoist motor Size	KBH...B 2/12	180	200	-	180	200	-	180	200	-	180	200	-	180	200	-
Motor type	Main hoist and F10 mechanical microspeed unit															
Main lifting speed with rope reeving	2/1 m/min	4	6,3	8	5	8	10	6,3	10	12,5	6,3	10	12,5	8	12,5	16
	4/1 m/min	2	3,1	4	2,5	4	5	3,1	5	6,3	3,1	5	6,3	4	6,3	8
	2/2 m/min	8	12,5	16	10	16	20	12,5	20	25	12,5	20	25	16	25	32 ¹⁾
	4/2 m/min	4	6,3	8	5	8	10	6,3	10	12,5	6,3	10	12,5	8	12,5	16
	8/2 m/min	2	3,1	4	2,5	4	5	3,1	5	6,3	3,1	5	6,3	4	6,3	8
Creep lifting speed (F10 mechanical microspeed) with rope reeving	2/1 m/min	0,4	0,63	0,8	0,5	0,8	1,0	0,63	1,0	1,25	0,63	1,0	1,25	0,8	1,25	1,6
	4/1 m/min	0,2	0,31	0,4	0,25	0,4	0,5	0,31	0,5	0,63	0,31	0,5	0,63	0,4	0,63	0,8
	2/2 m/min	0,8	1,25	1,6	1	1,6	2	1,25	2	2,5	1,25	2	2,5	1,6	2,5	3,2
	4/2 m/min	0,4	0,63	0,8	0,5	0,8	1,0	0,63	1,0	1,25	0,63	1,0	1,25	0,8	1,25	1,6
8/2 m/min	0,2	0,31	0,4	0,25	0,4	0,5	0,31	0,5	0,63	0,31	0,5	0,63	0,4	0,63	0,8	
Main hoist motor Size	KBH...B	160 B4	200 B6	225 B6	160 B4	200 B6	225 B6	160 B4	200 B6	225 B6	160 B4	200 B6	225 B6	160 B4	200 B6	225 B6
Mechanical microspeed Size	FG...	10			10			10			10			10		
F10 creep lifting motor Size	KBA...B4	90	100	112	90	100	112	90	100	112	90	100	112	90	100	112

1) Lifting speeds 1/1 and 2/2 on request

DH 160 and DH 200 motor data

Design in accordance with the VDE regulations and the design rules of the FEM, to meet the high demands made on electric hoists.

Main/creep lifting F4

Required supply cable conductor cross-sections and fuse links

Size	No. of poles	Group of mechanisms to FEM	P	% CDF	n	Starts/h	Rated current I_N and starting current I_A for 50 Hz						cos Φ_N	cos Φ_A
							230 V		400 V		500 V			
							I_N (A)	I_A (A)	I_N (A)	I_A (A)	I_N (A)	I_A (A)		
90 B 2/8	2	1 Am 2 m, 3 m	1,7	40	2800	120	6,9	31	4	18,1	3,2	14,4	0,9	0,82
	8		0,42	20	640	240	4	7,8	2,3	4,5	1,8	3,6	0,6	0,75
100 B 2/8	2		2,5	40	2720	120	10,7	45	6,2	26	4,9	21	0,86	0,79
	8		0,62	20	620	240	5,3	10,7	3	6,2	2,4	4,9	0,65	0,72
112 B 2/8	2	1 Am, 2 m	4	25	2770	80	17,4	83	10	48	8	38	0,82	0,68
	8		0,97	15	670	160	10,7	21	6,2	12,4	4,9	9,9	0,5	0,68

Size	Mains connection delay fuse for 50 Hz 1)			Supply lines for 5% voltage drop ΔU and starting current I_A for 50 Hz 2)					
	230 V	400 V	500 V	230 V (ΔU 11,5 V)		400 V (ΔU 20 V)		500 V (ΔU 25 V)	
KMH	A	A	A	mm ²	m	mm ²	m	mm ²	m
90 B 2/8	16	10	10	1,5	20	1,5	60	1,5	119
100 B 2/8	16	16	10	2,5	26	1,5	47	1,5	75
112 B 2/8	35	20	16	2,5	16	1,5	30	1,5	47

Main/creep lifting F6

Size	No. of poles	Group of mechanisms to FEM	P	% CDF	n	Starts/h	Rated current I_N and starting current I_A for 50 Hz						cos Φ_N	cos Φ_A
							230 V		400 V		500 V			
							I_N (A)	I_A (A)	I_N (A)	I_A (A)	I_N (A)	I_A (A)		
112 B 2/12	2	1 Am, 2 m	4	25	2770	80	17,3	83	10	48	8	38	0,82	0,68
	12		0,57	15	370	160	9,3	14,7	5,3	8,5	4,3	6,8	0,47	0,57

Size	Mains connection delay fuse for 50 Hz 1)			Supply lines for 5% voltage drop ΔU and starting current I_A for 50 Hz 2)					
	230 V	400 V	500 V	230 V (ΔU 11,5 V)		400 V (ΔU 20 V)		500 V (ΔU 25 V)	
KMH	A	A	A	mm ²	m	mm ²	m	mm ²	m
112 B 2/12	35	20	16	2,5	16	1,5	30	1,5	47

Main hoist

Size	Group of mechanisms to FEM	P	% CDF	n	Starts/h	Rated current I_N and starting current I_A for 50 Hz						cos Φ_N	cos Φ_A
						230 V		400 V		500 V			
						I_N (A)	I_A (A)	I_N (A)	I_A (A)	I_N (A)	I_A (A)		
100 B 2	1 Am, 2 m	3	40	2810	240	13,2	69	7,6	40	6,1	32	0,8	0,78

Size	Mains connection delay fuse for 50 Hz 1)			Supply lines for 5% voltage drop ΔU and starting current I_A for 50 Hz 2)					
	230 V	400 V	500 V	230 V (ΔU 11,5 V)		400 V (ΔU 20 V)		500 V (ΔU 25 V)	
KMH	A	A	A	mm ²	m	mm ²	m	mm ²	m
100 B 2	35	20	20	2,5	15	1,5	28	1,5	48

1) Fuse links also apply in conjunction with a cross-travel motor.

2) The lengths of the supply lines are calculated on the basis of an earth-loop impedance of 200 m Ω .

DH 160 and DH 200 motor data

EKDH travel motor (40 % CDF)

Size	P _N kW	n _N rpm	M _N Nm	I _N 230 V A	cos φ _N	I _A / I _N	M _A / M _N	M _H Nm	J _{mot} kgm ²	A h ⁻¹	M _B std Nm	Weight Kg
ZBF 71 A 4 B003	0,18	1350	1,25	1,00	0,69	3,20	2,70	2,8	0,00690	700	1,9	12,2
ZBF 80 A 4 B020	0,25	1320	1,80	1,60	0,73	2,70	2,60	4,0	0,01275	650	3,3	19,5

Size	P _N kW	n _N rpm	M _N Nm	I _N 400 V A	cos φ _N	I _A / I _N	M _A / M _N	M _H Nm	J _{mot} kgm ²	A h ⁻¹	M _B std Nm	Weight Kg
ZBF 71 A 4 B003	0,18	1350	1,25	0,60	0,69	3,20	2,70	2,8	0,00690	700	1,9	12,2
ZBF 80 A 4 B020	0,25	1320	1,80	0,90	0,73	2,70	2,60	4,0	0,01275	650	3,3	19,5

Size	P _N kW	n _N rpm	M _N Nm	I _N 500 V A	cos φ _N	I _A / I _N	M _A / M _N	M _H Nm	J _{mot} kgm ²	A h ⁻¹	M _B std Nm	Weight Kg
ZBF 71 A 4 B003	0,18	1350	1,25	0,48	0,69	3,20	2,70	2,8	0,00690	700	1,9	12,2
ZBF 80 A 4 B020	0,25	1320	1,80	0,72	0,73	2,70	2,60	4,0	0,01275	650	3,3	19,5

Size	P _N kW	n _N rpm	M _N Nm	I _N 230 V A	cos φ _N	I _A / I _N	M _A / M _N	M _H Nm	J _{mot} kgm ²	A h ⁻¹	M _B std Nm	Weight Kg
ZBF 71 A 8/4 B003	0,09	650	1,30	1,40	0,65	1,50	1,95	2,4	0,00690	620	1,9	12,2
	0,18	1370	1,25	1,25	0,63	2,65	2,20	2,5		400		

Size	P _N kW	n _N rpm	M _N Nm	I _N 400 V A	cos φ _N	I _A / I _N	M _A / M _N	M _H Nm	J _{mot} kgm ²	A h ⁻¹	M _B std Nm	Weight Kg
ZBF 71 A 8/4 B003	0,09	650	1,30	0,80	0,65	1,50	1,95	2,4	0,00690	620	1,9	12,2
	0,18	1370	1,25	0,72	0,63	2,65	2,20	2,5		400		

Size	P _N kW	n _N rpm	M _N Nm	I _N 500 V A	cos φ _N	I _A / I _N	M _A / M _N	M _H Nm	J _{mot} kgm ²	A h ⁻¹	M _B std Nm	Weight Kg
ZBF 71 A 8/4 B003	0,09	650	1,30	0,64	0,65	1,50	1,95	2,4	0,00690	620	1,9	12,2
	0,18	1370	1,25	0,58	0,63	2,65	2,20	2,5		400		

Size	P _N kW	n _N rpm	M _N Nm	I _N 230 V A	cos φ _N	I _A / I _N	M _A / M _N	M _H Nm	J _{mot} kgm ²	A h ⁻¹	M _B std Nm	Weight Kg
ZBF 71 A 8/2 B003	0,09	675	1,25	1,3	0,61	1,60	2,70	2,5	0,00690	620	1,9	12,2
	0,34	2785	1,15	1,7	0,73	3,50	2,60	2,5		500		
ZBF 80 A 8/2 B020	0,13	630	1,95	2,1	0,64	1,20	2,10	3,5	0,01275	620	3,3	19,5
	0,50	2790	1,70	2,4	0,73	4,50	2,60	4,0		500		

Size	P _N kW	n _N rpm	M _N Nm	I _N 400 V A	cos φ _N	I _A / I _N	M _A / M _N	M _H Nm	J _{mot} kgm ²	A h ⁻¹	M _B std Nm	Weight Kg
ZBF 71 A 8/2 B003	0,09	675	1,25	0,76	0,61	1,60	2,70	2,5	0,00690	620	1,9	12,2
	0,34	2785	1,15	1,00	0,73	3,50	2,60	2,5		500		
ZBF 80 A 8/2 B020	0,13	630	1,95	1,20	0,64	1,20	2,10	3,5	0,01275	620	3,3	19,5
	0,50	2790	1,70	1,40	0,73	4,50	2,60	4,0		500		

DH 160 and DH 200 motor data

EKDH travel motor (40 % CDF)

Size	P _N	n _N	M _N	I _N	cos φ _N	I _A / I _N	M _A / M _N	M _H	J _{mot}	A	M _B std	Weight
	kW	rpm	Nm	500 V A				Nm	kgm ²	h ⁻¹	Nm	Kg
ZBF 71 A 8/2 B003	0,09	675	1,25	0,61	0,61	1,60	2,70	2,5	0,00690	620	1,9	12,2
	0,34	2785	1,15	0,80	0,73	3,50	2,60	2,5		500		
ZBF 80 A 8/2 B020	0,13	630	1,95	0,96	0,64	1,20	2,10	3,5	0,01275	620	3,3	19,5
	0,50	2790	1,70	1,10	0,73	4,50	2,60	4,0		500		

EKDH 200 travel motor for trolley size 5, 4/1 rope reeving (15/40 % CDF)

Size	P _N	n _N	M _N	I _N	cos φ _N	I _A / I _N	M _A / M _N	M _H	J _{mot}	A	M _B std	Weight
	kW	rpm	Nm	230 V A				Nm	kgm ²	h ⁻¹	Nm	Kg
ZBF 80 A 12/4 B020	0,06	415	1,40	2,60	0,71	1,00	2,40	3,0	0,01275	620	3,3	19,5
	0,25	1380	1,75	1,70	0,64	2,80	2,10	3,6		380		

Size	P _N	n _N	M _N	I _N	cos φ _N	I _A / I _N	M _A / M _N	M _H	J _{mot}	A	M _B std	Weight
	kW	rpm	Nm	400 V A				Nm	kgm ²	h ⁻¹	Nm	Kg
ZBF 80 A 12/4 B020	0,06	415	1,40	1,50	0,71	1,00	2,40	3,0	0,01275	620	3,3	19,5
	0,25	1380	1,75	0,97	0,64	2,80	2,10	3,6		380		

Size	P _N	n _N	M _N	I _N	cos φ _N	I _A / I _N	M _A / M _N	M _H	J _{mot}	A	M _B std	Weight
	kW	rpm	Nm	500 V A				Nm	kgm ²	h ⁻¹	Nm	Kg
ZBF 80 A 12/4 B020	0,06	415	1,40	1,20	0,71	1,00	2,40	3,0	0,01275	620	3,3	19,5
	0,25	1380	1,75	0,78	0,64	2,80	2,10	3,6		380		

EUDH 160 travel motor for trolley size 3,2, 2/1, 4/2 and 4/1 rope reeving EUDH 200 travel motor for trolley size 3,2, 2/1 and 4/2 rope reeving

Size	No. of poles	P	% CDF	n	Rated current I _N and starting current I _A for 50 Hz						cos φ _N	cos φ _A
					230 V		400V		500 V			
					I _N (A)	I _A (A)	I _N (A)	I _A (A)	I _N (A)	I _A (A)		
13/6 PKF 2	2	0,3	40	2840	1,5	8,8	0,85	5	0,68	4	0,78	0,8
13/6 PKF 4	4	0,2	40	1320	1,1	3	0,62	1,7	0,49	1,4	0,86	0,88
13/6 PKF 8	8	0,1	40	710	1,6	3,7	0,95	2,1	0,68	1,5	0,50	0,72
13/6 PKF 8/2	8	0,07	40	680	1,3	2,6	0,74	1,5	0,53	1,1	0,57	0,86
	2	0,27	40	2900	1,8	8,6	1,1	5,0	0,76	3,6	0,71	0,86
13/6 PKF 12/4	12	0,05	20	450	2,2	2,8	1,3	1,6	0,91	1,2	0,66	0,82
	4	0,17	40	1440	1,8	6,2	1,1	3,6	0,76	2,8	0,55	0,86

EUDH 200 travel motor for trolley size 5, 4/1 rope reeving

Size	P	% CDF	n	Rated current I _N and starting current I _A for 50 Hz						cos φ _N	cos φ _A
				230 V		400 V		500 V			
				I _N (A)	I _A (A)	I _N (A)	I _A (A)	I _N (A)	I _A (A)		
KMF 80 A 4	0,32	40	1350	1,7	5,5	0,95	3,1	0,76	2,5	0,74	0,82
KMF 80 A 8/2	0,13/0,5	40	630/2710	2,0	3,3	1,1	1,9	0,91	1,5	0,71	0,84
				2,5	9,9	1,4	5,7	1,1	4,6	0,88	0,84

Example for calculating the cross sections of the conductors of cables exceeding the length indicated in the table:

KMH 100 B 2/8, 230 V required length 40 m

$$\frac{\text{known cross section} \times \text{required length}}{\text{known length of cable}} @ \frac{2,5 \times 40}{26} @ 4 \text{ mm}^2$$

DH 300 – DH 2000 motor data

Design in accordance with the VDE regulations and the design rules of the FEM, to meet the high demands made on electric hoists.

Main/creep lifting F6

Required supply cable conductor cross sections and fuse links

Size KBH	No. of poles	Group of mechanisms to FEM	P kW	% CDF	n rpm	Starts/h	Rated current I_N and starting current I_A for 50 Hz						cos Φ_N	cos Φ_A
							230 V		400 V		500 V			
							I_N (A)	I_A (A)	I_N (A)	I_A (A)	I_N (A)	I_A (A)		
112 B 2/12	2	1 Bm 1 Am, 2 m	3,6	25	2740	80	14,9	83	8,6	48	6,8	38	0,84	0,69
	12		0,51	15	410	160	8,9	14	5,1	8,1	4,1	6,5	0,47	0,57
	2	3 m, 4 m	2,9	40	2800	120	12,4	83	7,1	48	5,7	38	0,80	0,69
	12		0,43	20	420	240	8,9	14	5,1	8,1	4,1	6,5	0,45	0,57
125 B 2/12	2	1 Bm 1 Am, 2 m	4,6	25	2870	80	22	124	12,5	71	10	57	0,74	0,67
	12		0,68	15	430	160	14,2	21	8,2	12,4	6,5	9,9	0,41	0,51
	2	3 m, 4 m	3,6	40	2890	120	20	124	11,6	71	9,3	57	0,68	0,67
	12		0,53	20	450	240	14	21	8,1	12,4	6,5	9,9	0,38	0,51
140 B 2/12 1)	2	1 Bm 1 Am, 2 m	7,1	25	2870	80	36	183	21	105	16,7	84	0,70	0,65
	12		1,1	15	440	160	27	35	15,7	20	12,5	16	0,40	0,50
	2	3 m, 4 m	5,7	40	2900	120	31	183	18,1	105	14,4	84	0,62	0,65
	12		0,85	20	460	240	27	35	15,7	20	12,5	16	0,36	0,50
160 B 2/12 1)	2	1 Bm 1 Am, 2 m	11,4	25	2870	80	43	248	25	143	19,8	114	0,88	0,61
	12		1,7	15	460	160	28	55	16,2	31	12,9	25	0,36	0,53
	2	3 m, 4 m	9,3	40	2900	120	36	248	21	143	16,7	114	0,86	0,61
	12		1,4	20	470	240	28	55	16,2	31	12,9	25	0,32	0,53
180 B 2/12 1)	2	1 Bm 1 Am, 2 m	17,8	25	2870	80	73	408	42	235	33	188	0,84	0,60
	12		2,6	15	460	160	35	64	20	37	16	30	0,36	0,48
	2	3 m, 4 m	14,2	40	2900	120	61	408	35	235	28	188	0,80	0,60
	12		2,1	20	475	240	33	64	19	37	15,2	30	0,31	0,48
200 B 2/12 1)	2	1 Bm 1 Am, 2 m	25	25	2920	80	93	595	53	342	43	274	0,84	0,50
	12		3,7	15	470	160	41	84	24	48	19	39	0,37	0,50
	2	3 m, 4 m	20	40	2930	120	79	595	46	342	36	274	0,81	0,50
	12		3	20	475	240	38	84	22	48	17,5	39	0,32	0,50

Size KBH	Mains connection delay fuse for 50 Hz 2)			Supply lines for 5% voltage drop ΔU and starting current I_A for 50 Hz 4)					
	230 V	400 V	500 V	230 V (ΔU 11,5 V)		400 V (ΔU 20 V)		500 V (ΔU 25 V)	
	A	A	A	mm ²	m	mm ²	m	mm ²	m
112 B 2/12	25	20	20	2,5	16	1,5	29	1,5	46
125 B 2/12	50	25	25	4	18	1,5	20	1,5	32
140 B 2/12 1)	80	50	50	6 1)	14 3)	2,5 1)	16	2,5 1)	23
160 B 2/12 1)	80	50	50	10 1)	18	4 1)	44	4 1)	60
180 B 2/12 1)	125	80	80	16 1)	24 3)	6 1)	21	6 1)	33
200 B 2/12 1)	-	100	100	25 1)	-	10 1)	31	10 1)	52

- 1) Only use motors with starting and braking circuitry. Voltage drop may then be 10 %. (See function description 202 708 44 (714 IS 952))
- 2) Fuse links also apply in conjunction with a cross-travel motor.
- 3) Earth-loop impedance of 100 m Ω required.
- 4) The lengths of the supply lines are calculated on the basis of an earth-loop impedance of 200 m Ω .

DH 300 – DH 2000 motor data

Main hoist

Size KBH	Group of mechanisms to FEM	P kW	% CDF	n rpm	Starts/h	Rated current I_N and starting current I_A for 50 Hz						cos Φ_N	cos Φ_A
						230 V		400 V		500 V			
						I_N (A)	I_A (A)	I_N (A)	I_A (A)	I_N (A)	I_A (A)		
100 B 4	1 Bm 1 Am, 2 m	3,6	40	1400	240	18,2	71	10,5	41	8,4	33	0,72	0,73
	3 m, 4 m	2,3	60	1430	360	15,7	71	9	41	7,2	33	0,62	
112 B 4	1 Bm 1 Am, 2 m	4,6	40	1420	240	23	106	13,3	61	10,6	49	0,68	0,68
	3 m, 4 m	3,6	60	1440	360	21	106	12,4	61	9,9	49	0,66	
125 B 4	1 Bm 1 Am, 2 m	7,1	40	1410	240	33	135	19	78	15,2	62	0,78	0,65
	3 m, 4 m	5,7	60	1420	360	30	135	17,1	78	13,7	62	0,76	
140 B 4	1 Bm 1 Am, 2 m	11,4	40	1420	240	53	248	30	143	24	114	0,72	0,59
	3 m, 4 m	9,3	60	1440	360	45	248	26	143	21	114	0,68	
160 B 4	1 Bm 1 Am, 2 m	17,8	40	1440	240	76	425	44	244	35	195	0,78	0,58
	3 m, 4 m	14,2	60	1450	360	64	425	37	244	30	195	0,75	
200 B 6	1 Bm 1 Am, 2 m	28,5	40	955	240	119	496	68	285	55	228	0,71	0,46
	3 m, 4 m	22,5	60	965	360	99	496	57	285	46	228	0,66	
225 B 6	1 Bm 1 Am, 2 m	40	40	970	240	157	760	90	437	72	350	0,79	0,60
	3 m, 4 m	32	60	975	360	132	760	76	437	61	350	0,76	

Size KBH	Mains connection delay fuse for 50 Hz 1)			Supply lines for 5% voltage drop ΔU and starting current I_A for 50 Hz 3)					
	230 V	400 V	500 V	230 V (ΔU 11,5 V)		400 V (ΔU 20 V)		500 V (ΔU 25 V)	
	A	A	A	mm ²	m	mm ²	m	mm ²	m
100 B 4	35	20	20	2,5	18	1,5	32	1,5	50
112 B 4	50	25	25	4	18	1,5	23	1,5	36
125 B 4	63	35	35	6	16	2,5	32	1,5	20
140 B 4	100	63	63	10	22 2)	4	15	4	23
160 B 4	125	80	80	25	38 2)	6	21	6	33
200 B 6	-	125	100	-	-	16	32	10	52
225 B 6	-	160	125	-	-	25	11	16	58

- 1) Fuse links also apply in conjunction with a creep lifting or cross-travel motor.
- 2) Earth-loop impedance of 100 m Ω required.
- 3) The lengths of the supply lines are calculated on the basis of an earth-loop impedance of 200 m Ω .

DH 300 – DH 2000 motor data

F 10 microspeed unit

Size KBA	Groups of mechanisms to FEM	P kW	% CDF	n rpm	Starts/h	Rated current I_N and starting current I_A for 50 Hz						$\cos \varphi_N$	$\cos \varphi_A$
						230 V		400 V		500 V			
						$I_N(A)$	$I_A(A)$	$I_N(A)$	$I_A(A)$	$I_N(A)$	$I_A(A)$		
71 B 4	1 Bm 1 Am, 2 m	0,83	25	1310	240	4,6	13,7	2,7	7,9	2,1	6,3	0,75	0,77
	3 m, 4 m	0,72	40	1340	360	4,3	13,7	2,5	7,9	2,0	6,3	0,70	
80 B 4	1 Bm 1 Am, 2 m	1,5	25	1340	240	7,9	26	4,6	15,1	3,6	12,1	0,73	0,77
	3 m, 4 m	1,3	40	1370	360	7,3	26	4,2	15,1	3,3	12,1	0,68	
90 B 4	1 Bm 1 Am, 2 m	2,3	25	1365	240	11,4	41	6,6	24	5,2	19	0,74	0,71
	3 m, 4 m	2,0	40	1390	360	10,2	41	5,9	24	4,7	19	0,70	
100 B 4	1 Bm 1 Am, 2 m	3,5	25	1405	240	16,5	71	9,5	41	7,6	33	0,72	0,73
	3 m, 4 m	3,0	40	1420	360	15,2	71	8,7	41	7,0	33	0,68	
112 B 4	1 Bm 1 Am, 2 m	5,2	25	1410	240	23	106	13,5	61	10,8	49	0,75	0,68
	3 m, 4 m	4,5	40	1425	360	21	106	12,1	61	9,7	49	0,70	

EUDH, EKDH travel motor data (40 % CDF)

Size	P_N	n_N	M_N	I_N	$\cos \varphi_N$	I_A / I_N	M_A / M_N	M_H	J_{mot}	A	$M_{B\ std}$	Weight
	kW	rpm	Nm	230 V A				Nm	kgm ²	h ⁻¹	Nm	Kg
ZBF 63 A 8/2 B003	0,06	675	0,85	1,15	0,59	1,40	2,20	1,7	0,00459	720	1,4	10
	0,25	2745	0,87	1,65	0,71	2,65	2,10	1,5		550		
ZBF 71 A 8/2 B003	0,09	675	1,25	1,30	0,61	1,60	2,70	2,5	0,00690	620	1,9	12,2
	0,34	2785	1,15	1,75	0,73	3,50	2,60	2,5		500		
ZBF 80 A 8/2 B020	0,13	630	1,95	2,10	0,64	1,20	2,10	3,5	0,01275	620	3,3	19,5
	0,50	2790	1,70	2,40	0,73	4,50	2,60	4,0		500		
ZBF 90 B 8/2 B020	0,20	690	2,80	2,60	0,50	1,95	2,50	6,5	0,02169	580	4,4	28,2
	0,80	2765	2,80	4,00	0,79	3,60	2,40	6,2		450		
ZBF 100 A 8/2 B050	0,29	685	4,00	3,70	0,50	1,80	2,50	9,0	0,03092	460	8,3	35
	1,20	2760	4,20	5,60	0,82	4,00	2,50	9,5		350		

Size	P_N	n_N	M_N	I_N	$\cos \varphi_N$	I_A / I_N	M_A / M_N	M_H	J_{mot}	A	$M_{B\ std}$	Weight
	kW	rpm	Nm	400 V A				Nm	kgm ²	h ⁻¹	Nm	Kg
ZBF 63 A 8/2 B003	0,06	675	0,85	0,66	0,59	1,40	2,20	1,7	0,00459	720	1,4	10
	0,25	2745	0,87	0,95	0,71	2,65	2,10	1,5		550		
ZBF 71 A 8/2 B003	0,09	675	1,25	0,76	0,61	1,60	2,70	2,5	0,00690	620	1,9	12,2
	0,34	2785	1,15	1,00	0,73	3,50	2,60	2,5		500		
ZBF 80 A 8/2 B020	0,13	630	1,95	1,20	0,64	1,20	2,10	3,5	0,01275	620	3,3	19,5
	0,50	2790	1,70	1,40	0,73	4,50	2,60	4,0		500		
ZBF 90 B 8/2 B020	0,20	690	2,80	1,50	0,50	1,95	2,50	6,5	0,02169	580	4,4	28,2
	0,80	2765	2,80	2,30	0,79	3,60	2,40	6,2		450		
ZBF 100 A 8/2 B050	0,29	685	4,00	2,10	0,50	1,80	2,50	9,0	0,03092	460	8,3	35
	1,20	2760	4,20	3,20	0,82	4,00	2,50	9,5		350		

DH 300 – DH 2000 motor data

EUDH, EKDH travel motor (40 % CDF)

Size	P _N	n _N	M _N	I _N	cos φ _N	I _A / I _N	M _A / M _N	M _H	J _{mot}	A	M _{B std}	Weight
	kW	rpm	Nm	500 V A				Nm	kgm ²	h ⁻¹	Nm	Kg
ZBF 63 A 8/2 B003	0,06	675	0,85	0,53	0,59	1,40	2,20	1,7	0,00459	720	1,4	10
	0,25	2745	0,87	0,76	0,71	2,65	2,10	1,5		550		
ZBF 71 A 8/2 B003	0,09	675	1,25	0,61	0,61	1,60	2,70	2,5	0,00690	620	1,9	12,2
	0,34	2785	1,15	0,80	0,73	3,50	2,60	2,5		500		
ZBF 80 A 8/2 B020	0,13	630	1,95	0,96	0,64	1,20	2,10	3,5	0,01275	620	3,3	19,5
	0,50	2790	1,70	1,10	0,73	4,50	2,60	4,0		500		
ZBF 90 B 8/2 B020	0,20	690	2,80	1,20	0,50	1,95	2,50	6,5	0,02169	580	4,4	28,2
	0,80	2765	2,80	1,85	0,79	3,60	2,40	6,2		450		
ZBF 100 A 8/2 B050	0,29	685	4,00	1,70	0,50	1,80	2,50	9,0	0,03092	460	8,3	35
	1,20	2760	4,20	2,60	0,82	4,00	2,50	9,5		350		

EKDH 300/400 travel motor for trolley size 5, 2/1 and 4/2 rope reeving (15/40 % CDF)

Size	P _N	n _N	M _N	I _N	cos φ _N	I _A / I _N	M _A / M _N	M _H	J _{mot}	A	M _{B std}	Weight
	kW	rpm	Nm	230 V A				Nm	kgm ²	h ⁻¹	Nm	Kg
ZBF 80 A 12/4 B020	0,06	415	1,40	2,70	0,71	1,00	2,40	3,0	0,01275	620	3,3	19,5
	0,25	1380	1,75	1,70	0,64	2,80	2,10	3,6		380		

Size	P _N	n _N	M _N	I _N	cos φ _N	I _A / I _N	M _A / M _N	M _H	J _{mot}	A	M _{B std}	Weight
	kW	rpm	Nm	400 V A				Nm	kgm ²	h ⁻¹	Nm	Kg
ZBF 80 A 12/4 B020	0,06	415	1,40	1,50	0,71	1,00	2,40	3,0	0,01275	620	3,3	19,5
	0,25	1380	1,75	0,97	0,64	2,80	2,10	3,6		380		

Size	P _N	n _N	M _N	I _N	cos φ _N	I _A / I _N	M _A / M _N	M _H	J _{mot}	A	M _{B std}	Weight
	kW	rpm	Nm	500 V A				Nm	kgm ²	h ⁻¹	Nm	Kg
ZBF 80 A 12/4 B020	0,06	415	1,40	1,20	0,71	1,00	2,40	3,0	0,01275	620	3,3	19,5
	0,25	1380	1,75	0,78	0,64	2,80	2,10	3,6		380		

EUDH 300/400 travel motor for trolley size 5, 2/1 and 4/2 rope reeving

Size	P	% CDF	n	Rated current I _N and starting current I _A for 50 Hz						cos φ _N	cos φ _A
				230 V		400 V		500 V			
				I _N (A)	I _A (A)	I _N (A)	I _A (A)	I _N (A)	I _A (A)		
KMF 80 A 4	0,32	40	1350	1,7	5,5	0,95	3,1	0,76	2,5	0,74	0,82
KMF 80 A 8/2	0,13/0,5	40	630/2710	2,0 2,5	3,3 9,9	1,1 1,4	1,9 5,7	0,91 1,1	1,5 4,6	0,71 0,88	0,84 0,84

Example for calculating the cross sections of the conductors of cables exceeding the length indicated in the table:

KBH 112 B 2/12, 230 V required length 25 m

$$\frac{\text{known cross section} \times \text{required length}}{\text{known length of cable}} @ \frac{2,5 \times 25}{16} @ 4 \text{ mm}^2$$

Variable speed travel drive

EUDH/EKDH travel motor

Indrive motor key data at 400 V, 87 Hz, approx. 2500 rpm, 100 % CDF

Size	Indrive Size	P _N kW	n _N rpm	M _N Nm	I _N A	cos φ _N	M _H / M _N	J _{mot} kgm ² · 10 ⁻³	Brake	
									Brake size	M _B std
ZBI 71 A 4	IND 005	0,44	2500	1,7	1,8	0,59	1,6	0,51	B007	3,4 Nm
ZBI 71 B 4	IND 005	0,64	2490	2,5	2,7	0,53	1,6	0,61	B007	5,1 Nm
ZBI 80 A 4	IND 005	0,96	2520	3,6	3	0,64	1,6	1,49	B007	7,6 Nm
ZBI 80 B 4	IND 005	1,35	2520	5,1	4,2	0,61	1,6	1,56	B020	10 Nm
ZBI 90 A 4	IND 005	1,95	2510	7,4	4,9	0,74	1,6	2,05	B020	16 Nm
ZBI 90 B 4	IND 007	2,7	2530	10,2	6	0,79	1,6	4,73	B020	20 Nm

DH 160, DH 200, DH 300, DH 400 hoist weights

Rope reeving		1/1	2/1	4/2	Type A 4/1	Rope reeving		1/1	2/1	4/2	Type A 4/1		
Range	Motor size	Size				Range	Motor size	Size					
DH		168-165	168-165	168-165	168-165	DH		212-208	212-208	212-208	212-208		
DH 160 H 12	KMH	90	-	133	-	DH 200 H 10	KMH	-	-	-	-		
		100	131	142	-			165	100	133	137	-	172
		112	141	152	-			175	112	143	147	-	182
DH 160 H 19	KMH	90	-	148	152	DH 200 H 16	KMH	-	-	-	-		
		100	145	155	159			178	100	148	151	161	185
		112	155	165	169			188	112	158	161	171	195

Rope reeving		1/1	2/1		4/2		Type A 4/1		
Range	Motor size	Size							
DH		320-308	320-310	308	320-310	308	320-310	308	
DH 300 H 12	KBH	100	190	200	215	220	240	235	275
		112	205	215	230	235	255	250	290
		125	220	230	245	250	270	265	305
		140	270	260	275	280	300	295	335
DH 300 H 20	KBH	100	215	225	240	250	270	260	300
		112	230	240	255	265	285	275	315
		125	245	255	270	280	300	290	330
		140	295	285	300	310	330	320	360

Weight of mechanical microspeed unit

FG 06 with KBA 71 = 18 kg - FG 08 with KBA 71 = 50 kg - FG 08 with KBA 80 = 55 kg

Rope reeving		1/1	2/1		4/2		Type A 4/1		
Range	Motor size	Size							
DH		425-410	425-412	410	425-412	410	425-412	410	
DH 400 H 12	KBH	100	190	200	215	220	240	235	275
		112	205	215	230	235	255	250	290
		125	220	230	245	250	270	265	305
		140	270	260	275	280	300	295	335
DH 400 H 20	KBH	100	215	225	240	250	270	260	300
		112	230	240	255	265	285	275	315
		125	245	255	270	280	300	290	330
		140	295	285	300	310	330	320	360

Weight of mechanical microspeed unit

FG 06 with KBA 71 = 18 kg - FG 08 with KBA 71 = 50 kg - FG 08 with KBA 80 = 55 kg

DH 500 and DH 600 hoist weights

Rope reeving		1/1	2/1		4/2		Type A 4/1		Type B 4/1		
Range	Motor size	Size									
DH		532-512	532-516	512	532-516	512	532-516	512	532-516	512	
DH 500 H 12	KBH	112	300	295	335	310	345	375	450	-	-
		125	320	315	355	330	365	395	470	-	-
		140	350	345	385	360	395	425	500	-	-
		160	420	415	455	430	465	495	570	-	-
DH 500 H 20	KBH	112	340	335	375	335	370	400	475	-	-
		125	360	355	395	355	390	420	495	-	-
		140	390	385	425	385	420	450	525	-	-
		160	460	455	495	455	490	520	595	-	-
DH 500 H 40	KBH	112	460	455	495	455	490	-	-	520	595
		125	480	475	515	475	510	-	-	540	615
		140	510	505	545	505	540	-	-	570	645
		160	580	575	615	575	610	-	-	640	715
DH 500 H 52	KBH	112	525	520	560	520	555	-	-	585	660
		125	545	540	580	540	575	-	-	605	680
		140	575	570	610	570	605	-	-	635	710
		160	645	640	680	640	675	-	-	705	780

Weight of mechanical microspeed unit

FG 08 with KBA 71 = 50 kg

FG 08 with KBA 80 = 55 kg

Rope reeving		1/1	2/1		4/2		Type A 4/1		Type B 4/1		
Range	Motor size	Size									
DH		632-616	640-620	616	640-620	616	640-620	616	640-620	616	
DH 600 H 12	KBH	112	300	295	335	310	345	375	450	-	-
		125	320	315	355	330	365	395	470	-	-
		140	350	345	385	360	395	425	500	-	-
		160	420	415	455	430	465	495	570	-	-
DH 600 H 20	KBH	112	340	335	375	335	370	400	475	-	-
		125	360	355	395	355	390	420	495	-	-
		140	390	385	425	385	420	450	525	-	-
		160	460	455	495	455	490	520	595	-	-
DH 600 H 40	KBH	112	460	455	495	455	490	-	-	520	595
		125	480	475	515	475	510	-	-	540	615
		140	510	505	545	505	540	-	-	570	645
		160	580	575	615	575	610	-	-	640	715
DH 600 H 52	KBH	112	525	520	560	520	555	-	-	585	660
		125	545	540	580	540	575	-	-	605	680
		140	575	570	610	570	605	-	-	635	710
		160	645	640	680	640	675	-	-	705	780

Weight of mechanical microspeed unit

FG 08 with KBA 71 = 50 kg

FG 08 with KBA 80 = 55 kg

DH 1000 and DH 2000 hoist weights

Rope reeving		1/1	2/1		4/2		Type A 4/1		Type B 4/1		
Range	Motor size	Size									
DH		1063-1025	1063-1032	1025	1063-1032	1025	1063-1032	1025	1063-1032	1025	
DH 1000 H 16	KBH	140	665	685	700	720	765	825	890	-	-
		160	735	755	770	790	835	895	960	-	-
		180	805	825	840	860	905	965	1030	-	-
		200	865	885	960	920	965	1025	1090	-	-
DH 1000 H 24	KBH	140	755	775	790	810	855	910	985	910	985
		160	825	845	860	880	925	980	1055	980	1055
		180	895	915	930	950	995	1050	1125	1050	1125
		200	955	975	990	1010	1055	1110	1185	1110	1185
DH 1000 H 40	KBH	140	955	975	990	1010	1055	-	-	1110	1185
		160	1025	1045	1060	1080	1125	-	-	1180	1255
		180	1095	1115	1130	1150	1195	-	-	1250	1325
		200	1155	1175	1190	1210	1255	-	-	1310	1385
DH 1000 H 51	KBH	140	1075	1095	1110	1130	1175	-	-	1230	1305
		160	1145	1165	1180	1200	1245	-	-	1300	1375
		180	1215	1235	1250	1270	1315	-	-	1370	1445
		200	1275	1295	1310	1330	1375	-	-	1430	1505

Weights of mechanical microspeed unit
 FG 08 with KBA 80 = 55 kg
 FG 10 with KBA 90 = 160 kg
 FG 10 with KBA 100 = 186 kg

Rope reeving		1/1	2/1		4/2		Type A 4/1		Type B 4/1		
Range	Motor size	Size									
DH		2125-2063	2125-2080	2063-2050	2125-2063	2050	2125-2080	2063-2050	2125-2080	2063-2050	
DH 2000 H 18	KBH	160	1155	1305	1330	1305	1375	1580	1645	-	-
		180	1235	1385	1410	1385	1455	1660	1725	-	-
		200	1300	1450	1475	1450	1520	1725	1790	-	-
		225	1405	1555	1570	1555	1625	1830	1895	-	-
DH 2000 H 27	KBH	160	1345	1495	1520	1500	1570	1800	1865	1800	1865
		180	1425	1575	1600	1580	1650	1880	1945	1880	1945
		200	1490	1640	1665	1645	1715	1945	2010	1945	2010
		225	1595	1745	1770	1750	1825	2050	2115	2050	2115
DH 2000 H 47	KBH	160	1725	1875	1900	1885	1955	-	-	2150	2215
		180	1805	1955	1980	1965	2035	-	-	2230	2295
		200	1870	2020	2045	2030	2100	-	-	2295	2360
		225	1975	2120	2150	2135	2205	-	-	2400	2465

Weights of mechanical microspeed unit
 FG 10 with KBA 90 = 160 kg
 FG 10 with KBA 100 = 186 kg
 FG 10 with KBA 112 = 212 kg

Mounting flange positions and rope lead-offs

Rope lead-off 2 or 3 possible (dimensions on request).

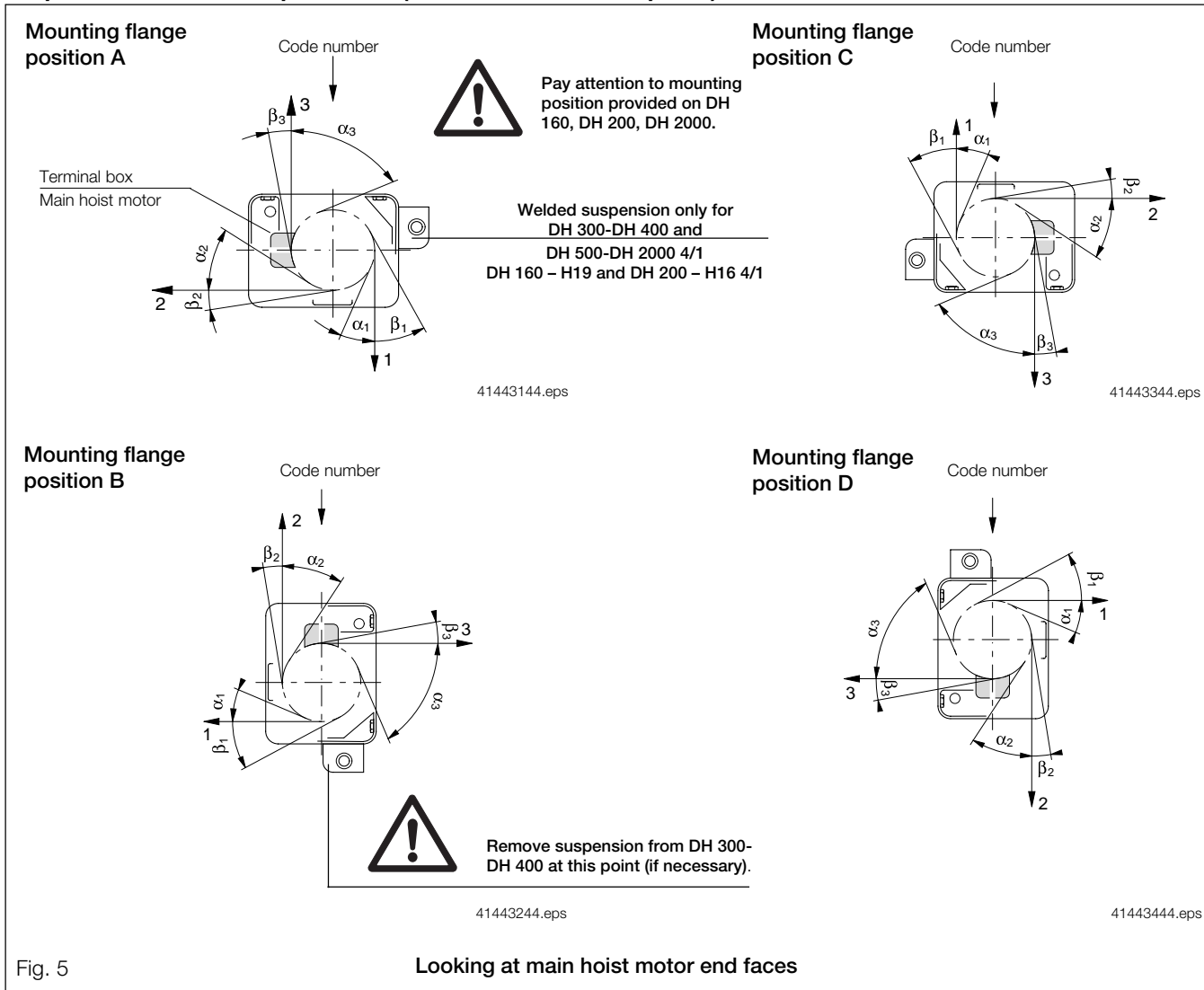


Fig. 5 Looking at main hoist motor end faces

Demag hoist unit with rope guide

Range	Rope lead-off		Special design			
			Rope lead-off			
	1		2		3	
α_1	β_1	α_2	β_2	α_3	β_3	
DH 160/200	20°	28°	20°	18°	20°	12°
DH 300/400	20°	25°	23°	11°	21°	9°
DH 500/600			23°	10°	21°	8°
DH 1000			20°	13°	20°	8°
DH 2000			20°	15°	20°	0°

Demag hoist unit without rope guide

Range		Rope lead-off							
		1		2		3			
		α_1	β_1	α_2	β_2	α_3	β_3		
DH 160/200		20°	50°	25°	15°	60°	10°		
DH 300	H 12	22°	57°	34°	16°	66°	11°		
DH 400	H 20								
DH 500	H 12	24°	50°	35°	12°	71°	9°		
DH 600	H 20								
DH 500	H 40							35°	2°
DH 500	H 52								
DH 1000	H 16	25°	45°	34°	3°	66°	9°		
DH 1000	H 24								
DH 1000	H 40								
DH 1000	H 51								
DH 2000	H 18	22°	59°	33°	19°	62°	0°		
DH 2000	H 27								
DH 2000	H 47								

Special rope lead-offs 4 and 5 (on request)

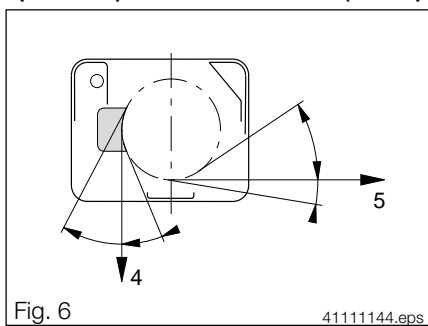


Fig. 6 41111144.eps

Mounting flange positions and rope lead-offs

Four different mounting positions A, B, C and D and three rope lead-offs 1, 2 and 3 can be obtained by rotating the hoist unit about its longitudinal axis (see fig. 7).

The position of the motor terminal box can be changed, staggered at 90°.

If the mounting flange position is altered, it must be ensured that the code number stamped into the gearbox casing (gear ratio) always points upwards (see fig. 7).

Only then do we guarantee that the gearbox is vented properly.

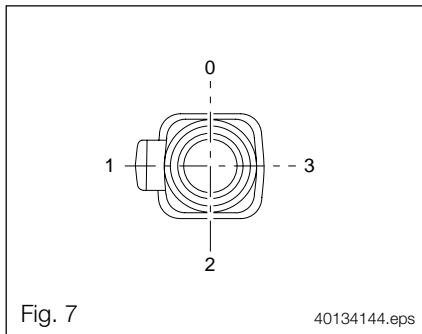


Fig. 7

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Indication of position of terminal boxes for main/creep lifting motor (mechanical microspeed).

Standard

Terminal box location	Mounting flange position
H 1	A
H 0	B
H 3	C
H 2	D

The position is indicated by the code numbers 0 – 1 – 2 – 3, ascending in anti-clockwise direction when looking at the motor end face.

The position must be indicated in accordance with the selected mounting flange position A, B, C or D.

Model code for ordering a mechanical microspeed unit

Gearbox	Basic form	Main hoist motor terminal box location	Microspeed motor terminal box location	Gear ratio 1)
FG..	U 0	H 1	F 1	/ 10 2)
FG..	U 1	H 0	F 0	/ 10 2)
FG..	U 2	H 1	F 1	/ 10 2)
FG..	U 3	H 0	F 0	/ 10 2)

1) Other gear ratios on application

2) For 6-pole main hoist motor $i = 15$

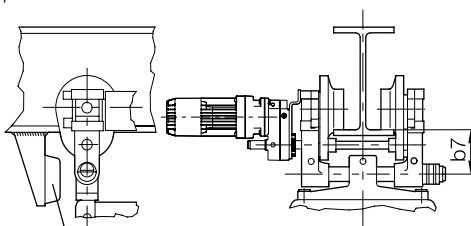
Dimensions for fitting end stops on runways



End stops must be fitted at both ends of the runway

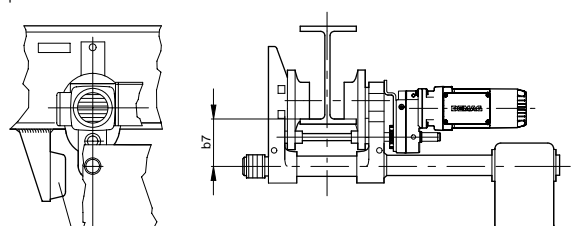
UDH	Size	Range	b7	KDH	Size	Range	b7
	6	DH 300 4/1	143		6	DH 300 4/1	170,5
		DH 400 4/1					
		DH 500 2/1					
		DH 600 2/1					
	10	DH 500 4/1	165		10	DH 500 4/1	200
		DH 600 4/1					
		DH 1000 2/1					

End stop cpl.
part no. 963 360 44



Part no. 963 362 44

End stop cpl.
part no. 963 360 44



Part no. 963 362 44

Counterweight box filling for EKDH 300 – EKDH 1000 trolleys

KDH low headroom monorail trolleys feature a counterweight box with cover.

The counterweight boxes are supplied empty.

Fill the counterweight box with scrap when fitting the trolley.

The quantity depends on the flange width and the trolley drive arrangement.

KDH monorail trolleys must be balanced exactly. Refer to the table below for the counterweight.

Approximate counterweight box fillings for EKDH trolleys

Size	Range	Rope reeving	Motor size	Flange width	Counterweight box filling	
				b [mm]	approx. [kg]	
6	DH 300 H 12 DH 400 H 12	4/1	KBH 100	100	45	
				305	15	
			KBH 112	100	55	
				305	20	
			KBH 125	100	60	
				305	25	
			KBH 140	100	80	
				305	40	
	DH 300 H 20 DH 400 H 20		4/1	KBH 100	100	60
					305	25
				KBH 112	100	70
					305	30
				KBH 125	100	75
					305	35
				KBH 140	100	95
					305	50
	DH 500 H 12 DH 600 H 12	2/1, 4/2	KBH 112	100	85	
				305	40	
			KBH 125	100	95	
				305	50	
			KBH 140	100	110	
				305	60	
			KBH 160	100	140	
				305	85	
DH 500 H 20 DH 600 H 20	2/1, 4/2		KBH 112	100	105	
				305	55	
			KBH 125	100	115	
				305	65	
			KBH 140	100	130	
				305	75	
			KBH 160	100	155	
				305	95	

Size	Range	Rope reeving	Motor size	Flange width	Counterweight box filling
				b [mm]	approx. [kg]
10	DH 500 H 12 DH 600 H 12	4/1	KBH 112	100	80
				305	30
			KBH 125	100	90
				305	40
			KBH 140	100	100
				305	50
	KBH 160		100	130	
			305	75	
	DH 500 H 20 DH 600 H 20		KBH 112	100	95
				305	45
			KBH 125	100	105
				305	55
			KBH 140	100	115
				305	65
KBH 160		100	150		
		305	90		
10	DH 1000 H 16	2/1, 4/2	KBH 140	110	260
				305	200
			KBH 160	110	300
				305	240
			KBH 180	110	330
				305	260
			KBH 200	110	360
				305	290
	DH 1000 H 24		KBH 140	110	305
				305	240
			KBH 160	110	330
				305	260
			KBH 180	110	370
				305	300
	KBH 200		110	400	
			305	335	
	DH 1000 H 40		KBH 140	110	400
				305	335
			KBH 160	110	450
				305	370
			KBH 180	110	470
				305	390
			KBH 200	110	500
				305	420

When a standard type U0 or U2 microspeed unit is fitted, the counterweight box filling should be increased by 50 % of the weight of the unit, and by 80 % of the weight of the unit for the standard type U1.

DH hoist mounting positions

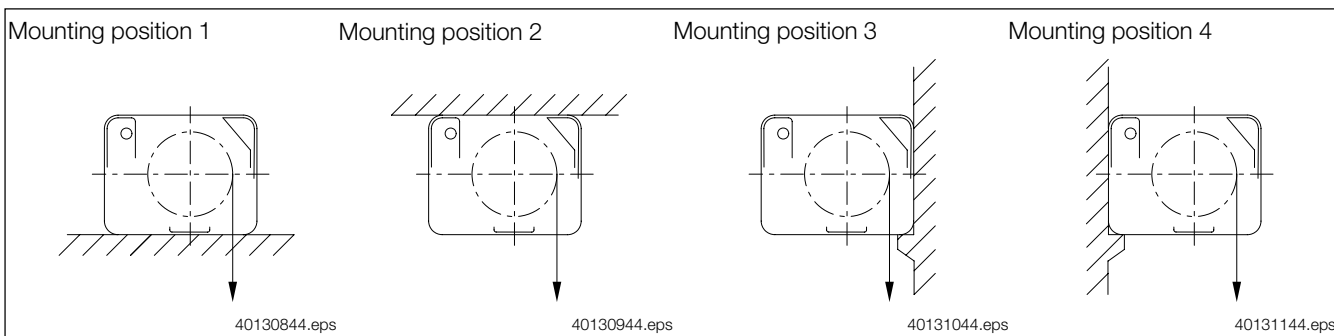
Tables and diagrams of mounting positions in flange position A and rope lead-off 1.

Possible reevings are marked with an x in the table.
Mounting positions with other rope lead-offs on request.

Hoist unit	Rope reeving																Max. tightening torque 1)			
	1/1		2/2		2/1		4/2		4/1		Mounting position									
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		1	2	2)
DH 160 H 12, H 19																				M 16 - 10.9 310 Nm
DH 200 H 10, H 16	x			-	x			-	x			-	x					x		
DH 300/400 H 12, H 20		x				x				x				x					x	M 20 - 10.9 620 Nm
DH 500/DH 632-610 H 12, H 20, H40, H 52		x				x				x				x					x	
DH 640 H12, H20		x				x				x				x				x	-	M 24 - 10.9 1060 Nm
DH 640 H40, H 52		x				x				x				x				x	only H 16	
DH 1000 H 16, H 20, H 40, H 51		x				x				x				x				x		M 24 - 10.9 1060 Nm
DH 2000 H 18, H 27, H 47	x			-	x			-	x			-	x					x		

1) Acc. to VDI guideline 2230-07/1986, rigid connection with clamping length l_k /bolt diameter $d \geq 2$, $\mu = 0,14$
individual verification required in the case of deviations.

2) Hoist type A and B (see pages 32 – 45)

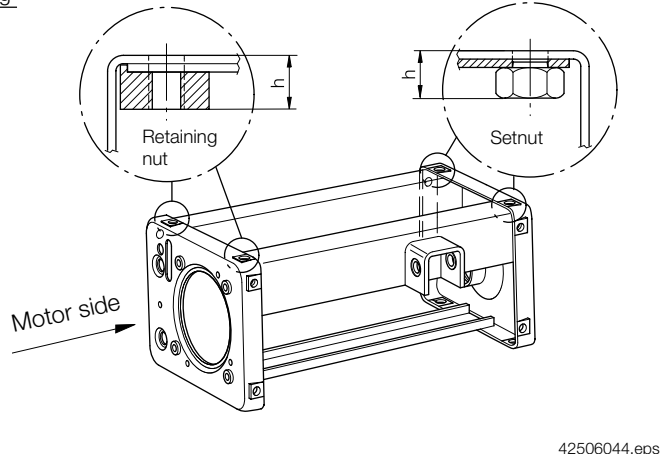
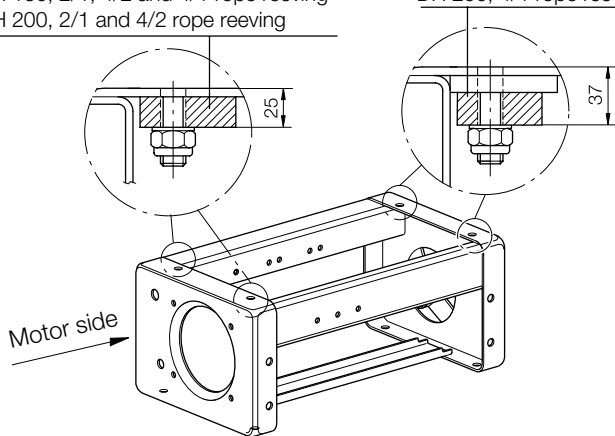


Hoist mounting in position 2

DH 160, 2/1, 4/2 and 4/1 rope reeving
DH 200, 2/1 and 4/2 rope reeving

DH 200, 4/1 rope reeving

DH 300 – DH 1000 – DH 2000 (4 x threaded plate)

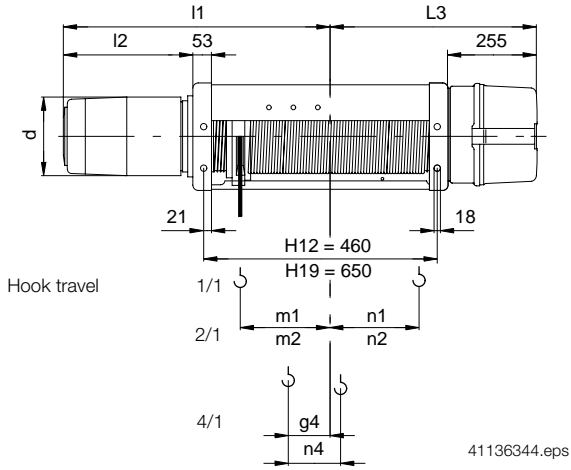


Range	DH 160/200 2/1, 4/2 and 4/1	DH 300 2/1, 4/2 and 4/1 DH 400 2/1 and 4/2	DH 400 4/1	DH 500 2/1, 4/2 and 4/1 DH 600 2/1 and 4/2	DH 600 4/1 DH 600 H40, H52 2/1, 4/2 and 4/1	DH 1000 2/1, 4/2 and 4/1	DH 2000 2/1, 4/2 and 4/1
Retaining nut			2 x		2 x		4 x
Part no.	Flat steel 4 x 830 069 44 Nut M16	-	822 259 44	-	823 259 44	-	Threaded plate 825 229 44
Dimension h			30		36		50
Set nut	4 x 334 611 99 Washer	4 x	2 x	4 x	2 x	4 x	
Part no.	4 x 340 425 99	002 972 98	002 972 98	004 610 98	004 610 98	300 186 44	-
Dimension h		22	22	27	27	32	

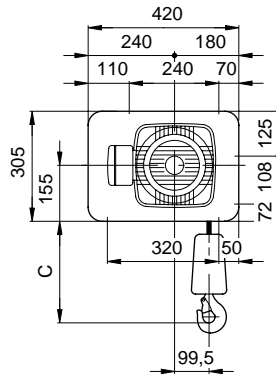
DH 160 and DH 200 hoist units

SWL 500 kg – 5000 kg

DH 160 – H 12, H 19

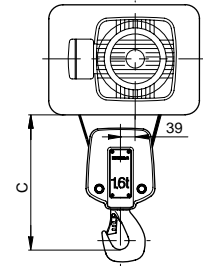


1/1 rope reeving



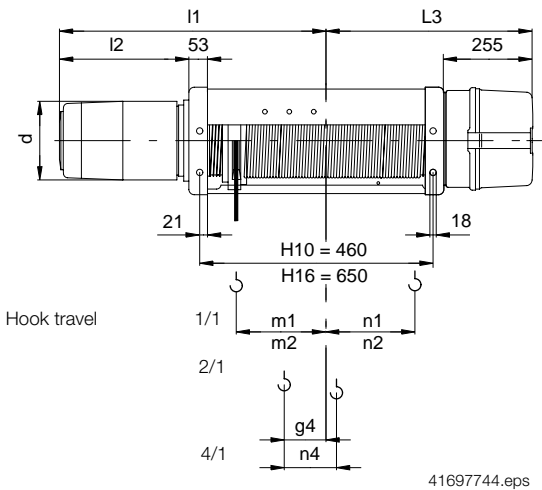
41139844.eps

2/1

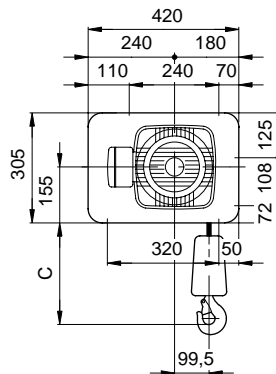


41139944.eps

DH 200 – H10, H16

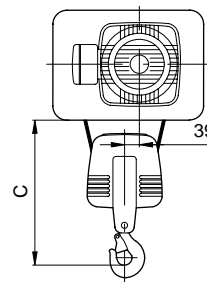


1/1 rope reeving



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2/1



41690344.eps

Hook dimension C

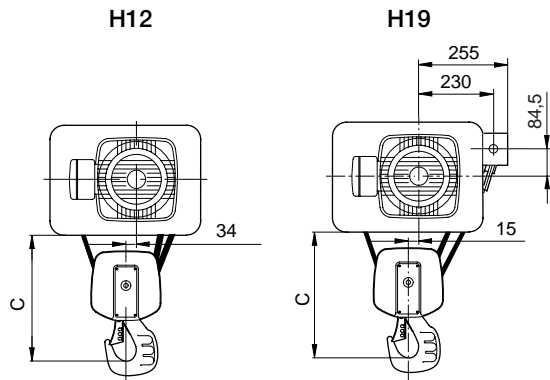
Size	Hook dimensions C with and without overload cut-off							
	1/1		2/1		4/2		A 4/1	
	with	without	with	without	with	without	with	without
	creep lifting							
DH 168-165	350	390					320	340
DH 212-208	420	460	450	490	370	410	410	430

Hoist unit

Size		Rope reeving										Size	Rope reeving														
		1/1	2/1	4/1	4/2	1/1	2/1	4/1	4/2	1/1	2/1		4/1	4/2	1/1	2/1	4/1	4/2									
		Hook path				Hook travel				e 1	e 2		Hook path				Hook travel				e 1	e 2					
		m		m 1	n 1	m 2	n 2	g 4	n 4				m		m 1	n 1	m 2	n 2	g 4	n 4							
DH 168-165	H 12	24	12	6	-	160	189	128	47	50	87	-	-	DH 212-208	H 10	20	10	5	-	141	181	118	43	35	81	-	-
	H 19	38	19	9,5	10,3	255	284	223	47	145	135	108	215		H 16	32	16	8	9,1	236	276	213	43	130	128	92	212

DH 160 and DH 200 hoist units

Type A 4/1

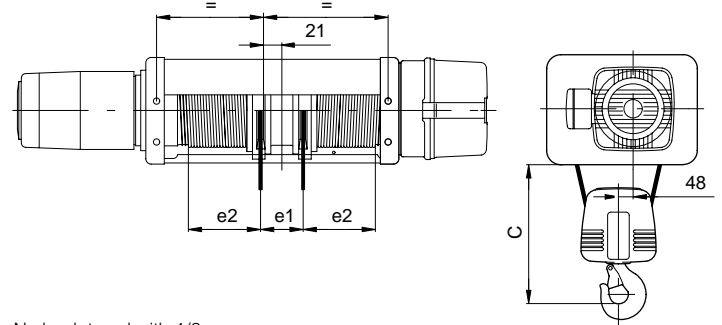


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4/2 rope reeving

DH 160 – H 19
DH 200 – H 16

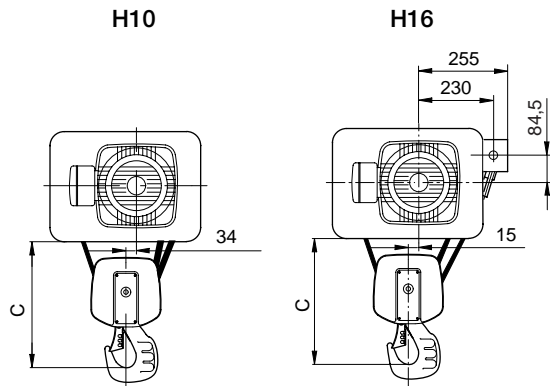


No hook travel with 4/2

41136244.eps

41136144.eps

Type A 4/1



41136044.eps

42526944.eps

See page 23 for weights

Hoist unit dimensions											
Range		DH 160					DH 200				
Rope reeving method		1/1	2/1	4/1	2/2, 4/2	1/1	2/1	4/1	2/2	4/2	
Rope dia.	mm	7	7,5		5,5	9			6,5		
Drum dia. (rope centre-to-centre)	mm	199			198	200			198		
Pitch	mm	8,5			6,5	10			7,2		

Motor type – Main/creep lifting, pole changing F 4

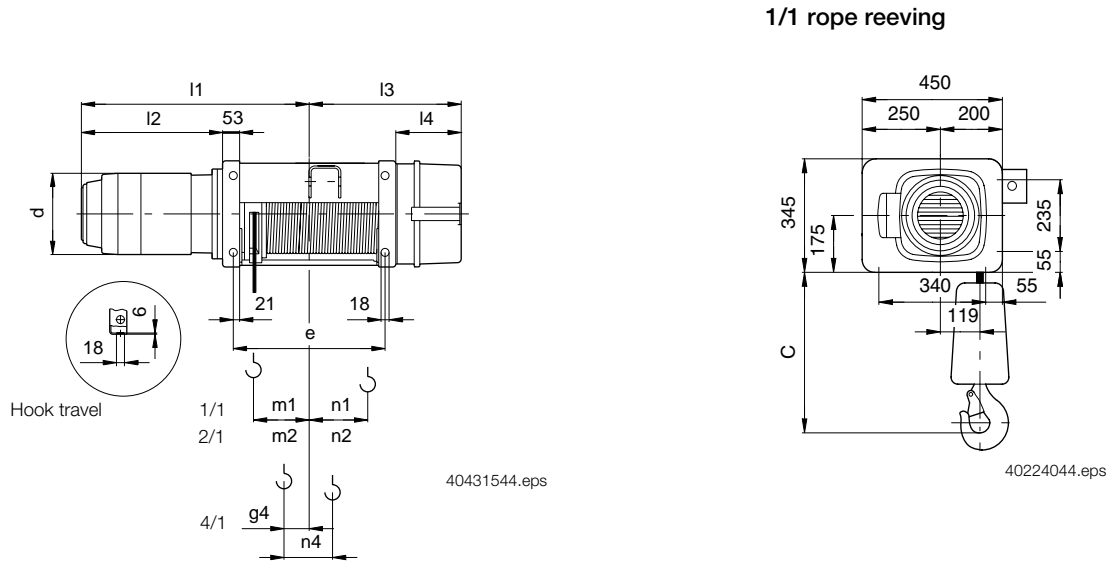
Range	Main hoist motor size	Code	d	I 1				I 2	Range	Main hoist motor size	Code	d	I 1				I 2
				with hook path									with hook path				
				H 12	H 19	H 12	H 19						H 10	H 16	H 10	H 16	
DH 160	KMH 90	V1	178	568	663			306	DH 200	KMH 100	V1	198	591	686	519	613	329
	KMH 100	V2	198	591	686	519	613	329		KMH 112	V2	222	632	727			370
	KMH 112	V3	222	632	727			370									

Motor type – Main hoist

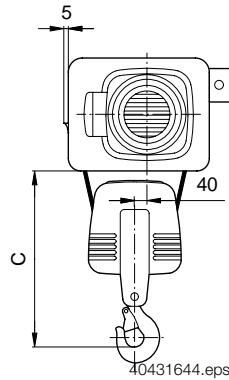
Range	Main hoist motor size	Code	d	I 1				I 2	Range	Main hoist motor size	Code	d	I 1				I 2
				with hook path									with hook path				
				H 12	H 19	H 12	H 19						H 10	H 16	H 10	H 16	
DH 160	KMH 100	V2	198	591	686	519	613	329	DH 200	KMH 100	V1	198	591	686	519	613	329

DH 300 hoist unit

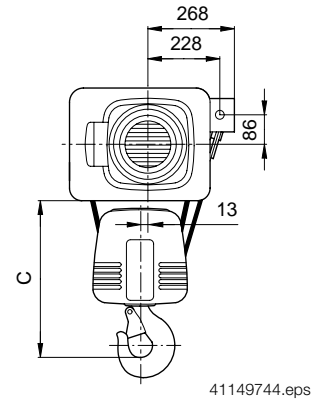
SWL 800 kg – 8000 kg



2/1 rope reeving



Type A 4/1



See page 23 for weights

Hoist unit dimensions					
Range	DH 300				
Rope reeving method	1/1	2/1	4/1	2/2	4/2
Rope dia. mm	11		7	7,5	
Drum dia.(rope centre-to-centre) mm	238		237		
Pitch mm	12		8,5		

Hook dimension C

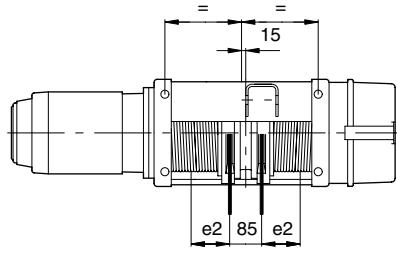
Size	Hook dimensions C with overload cut-off								Hook dimensions C without overload cut-off							
	1/1		2/1		4/2		A 4/1		1/1		2/1		4/2		A 4/1	
	with	without	with	without	with	without	with	without	with	without	with	without	with	without	with	without
	creep lifting								creep lifting							
DH 320-310	410	455	605	650	520	565	545	565	410	455	545	590	520	565	485	505
DH 308			700	740			615				640	680			555	

Hoist unit

Size	Rope reeving											4/2	e
	1/1	2/1	4/1	4/2	1/1		2/1		Type A 4/1				
	Hook path				Hook travel								
	m				m 1	n 1	m 2	n 2	g 4	n 4	e 2		
DH 320-308	H 12	24	12	6	6,3	190	196	120	73	23,5	96	143	520
	H 20	40	20	10	12	320	322	250	71	153	161	274	780

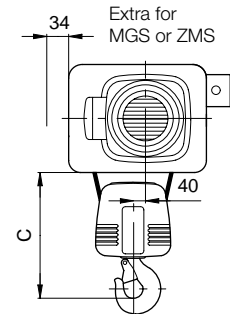
DH 300 hoist unit

4/2 rope reeving



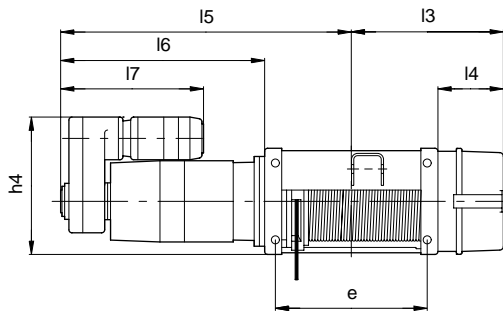
No hook travel with 4/2

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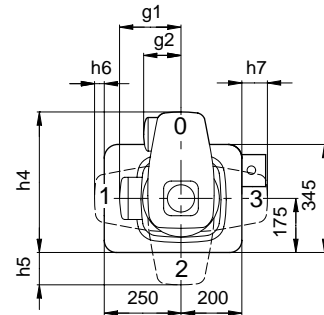


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DH hoist unit with F 10 mechanical microspeed unit



40225044.eps



40225144.eps

Motor type – Main/creep lifting, pole changing F 6

Main hoist motor size	Code	d	I 1		I 2	Cover I 3				Cover	
			with hook path			with hook path				I 4	
			H 12	H 20		H 12	H 20	short	long		
KBH 112	V1	220	703	833	411	short	long	short	long	254	325
KBH 125	V2	246	756	886	464	546	617	676	747		
KBH 140	V3	274	824	954	532						

Motor type – Main hoist

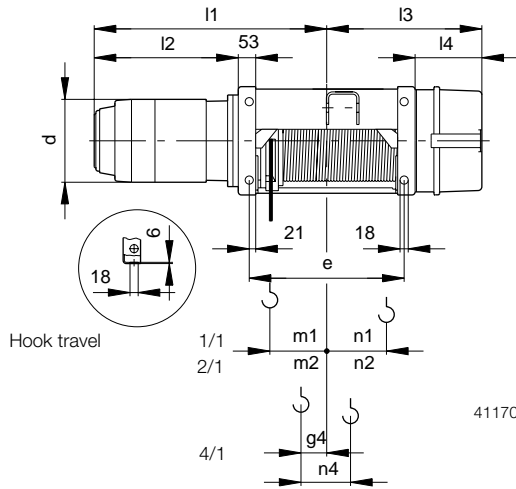
Main hoist motor size	Code	d	g 1	I 1		I 2	Cover I 3				Cover	
				with hook path			with hook path				I 4	
				H 12	H 20		H 12	H 20	short	long		
KBH 100	V1	196	181	680	810	388	short	long	short	long	254	325
KBH 112	V2	220	188	703	833	411	546	617	676	747		
KBH 125	V3	246	200	756	886	464						

Motor type – Main hoist with F 10 mechanical microspeed unit

Main hoist motor size	Code	Gearbox size	Creep hoist motor size	g 2	h 4	h 5	h 6	h 7	I 5		I 6	I 7
									with hook path			
									H 12	H 20		
KBH 100	V1	FG 06	KBA 71	132	421	71	-	46	836	966	544	437
KBH 112	V2	KBA 71	488		138	63	113	917	1047	625	484	
KBH 125	V3	FG 08	KBA 80	141					971	1101	697	523

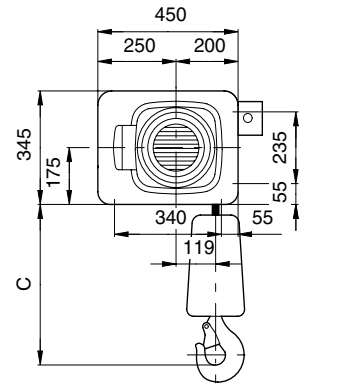
DH 400 hoist unit

SWL 1000 kg – 10000 kg



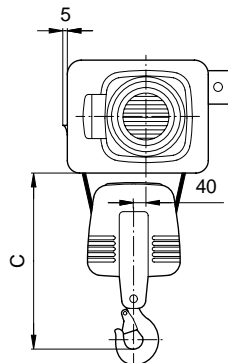
41170544.eps

1/1 rope reeving



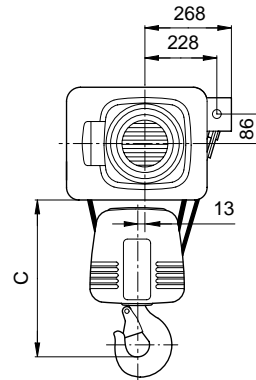
40224044.eps

2/1 rope reeving



40431644.eps

Type A 4/1



41149744.eps

See page 23 for weights

Hoist unit dimensions

Range	DH 400				
Rope reeving method	1/1	2/1	4/1	2/2	4/2
Rope dia. mm	11		7	7,5	
Drum dia. (rope centre-to-centre) mm	238		237		
Pitch mm	12		8,5		

Hook dimension C

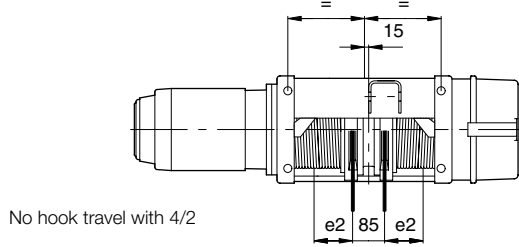
Size	Hook dimensions C with overload cut-off								Hook dimensions C without overload cut-off							
	1/1		2/1		4/2		A 4/1		1/1		2/1		4/2		A 4/1	
	with	without	with	without	with	without	with	without	with	without	with	without	with	without	with	without
	creep lifting								creep lifting							
DH 425	-		605	650	520	565	545	565	-		545	590	520	565	485	505
DH 420-412	410	455	700	740	520	565	615		410	455	640	680	520	565	555	
DH 410																

Hoist unit

Size	Rope reeving														
	1/1		2/1		4/1		4/2		1/1		2/1		Type A 4/1		4/2
	Hook path						Hook travel								
	m						m 1	n 1	m 2	n 2	g 4	n 4	e 2	e	
DH 425-410	H 12	24	12	6	6,3	190	196	120	73	23,5	96	143	520		
	H 20	40	20	10	12	320	322	250	71	153	161	274	780		

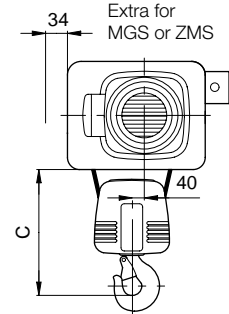
DH 400 hoist unit

4/2 rope reeving



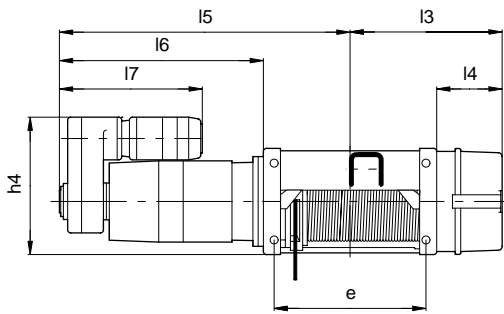
No hook travel with 4/2

41698944.eps

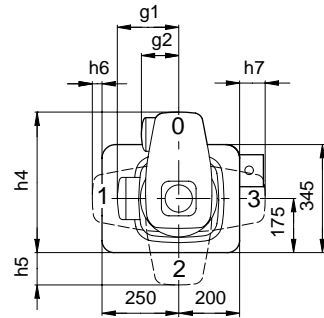


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DH hoist unit with F 10 mechanical microspeed unit



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Motor type – Main/creep lifting, pole changing F 6

Main hoist motor size	Code	d	I 1		I 2	Cover I 3				Cover	
			with hook path			with hook path				I 4	
			H 12	H 20		H 12	H 20	short	long		
KBH 112	V1	220	703	833	411	short	long	short	long	254	325
KBH 125	V2	246	756	886	464	546	617	676	747	254	325
KBH 140	V3	274	824	954	532						

Motor type – Main hoist

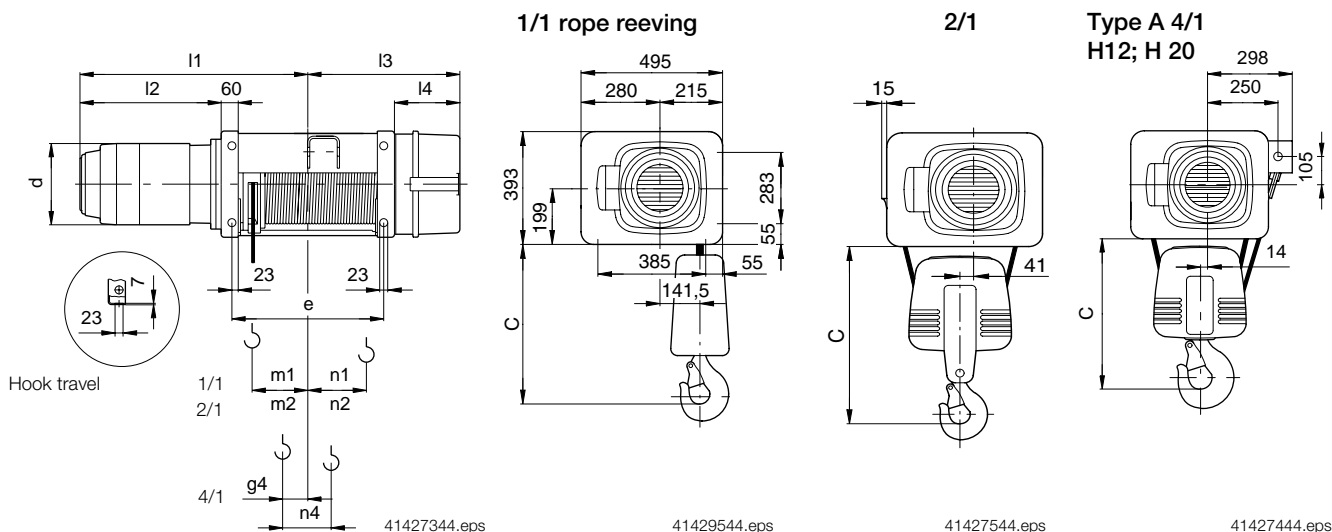
Main hoist motor size	Code	d	g 1	I 1		I 2	Cover I 3				Cover	
				with hook path			with hook path				I 4	
				H 12	H 20		H 12	H 20	short	long		
KBH 100	V1	196	181	680	810	388	short	long	short	long	254	325
KBH 112	V2	220	188	703	833	411	546	617	676	747	254	325
KBH 125	V3	246	200	756	886	464						

Motor type – Main hoist with F 10 mechanical microspeed unit

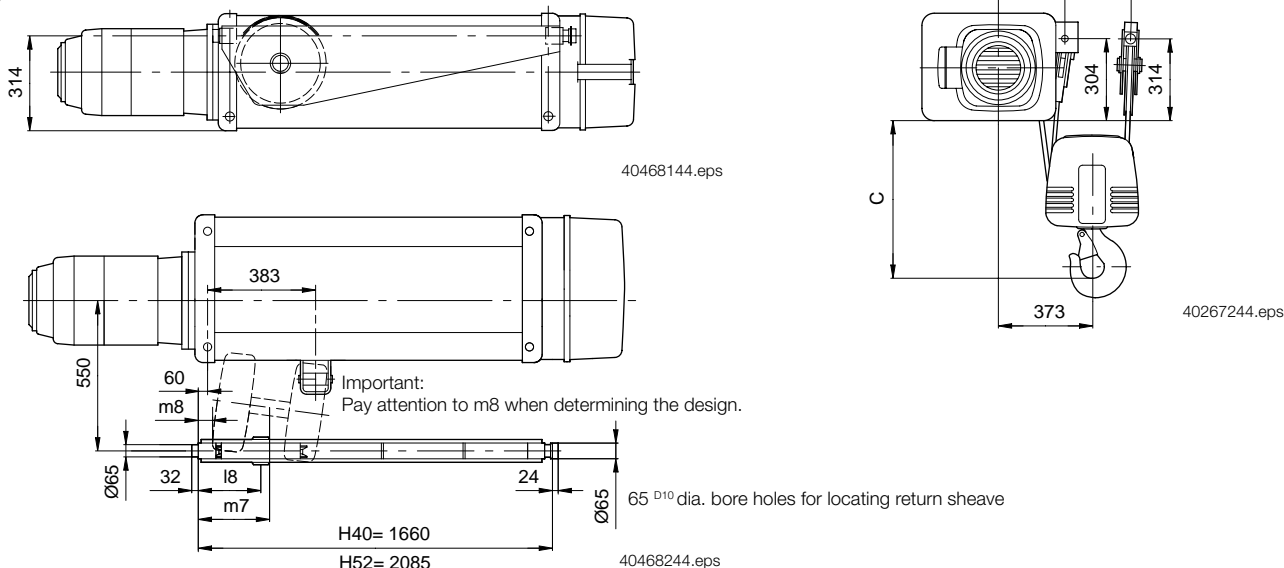
Main hoist motor size	Code	Gearbox size	Creep hoist motor size	g 2	h 4	h 5	h 6	h 7	I 5		I 6	I 7
									with hook path			
									H 12	H 20		
KBH 100	V1	FG 06	KBA 71	132	421	71	-	46	836	966	544	437
KBH 112	V2	KBA 71	488		138	63	113	917	1047	625	484	
KBH 125	V3	FG 08	KBA 80	141					971	1101	697	523

DH 500 hoist unit

SWL 1250 kg – 12500 kg



Type B 4/1 H40; H 52



Hook dimension C

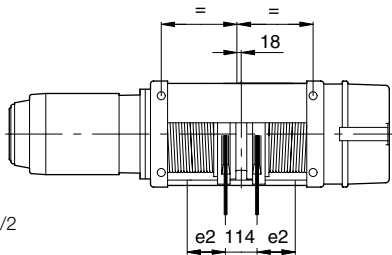
Size	Hook dimensions C with overload cut-off										Hook dimensions C without overload cut-off									
	1/1		2/1		4/2		A 4/1		B 4/1		1/1		2/1		4/2		A 4/1		B 4/1	
	with	w/o	with	w/o	with	w/o	with	w/o	with	w/o	with	w/o	with	w/o	with	w/o	with	w/o	with	w/o
	with creep lifting										with creep lifting									
DH 532-516	555	600	750	455	500	630	650	630	650	555	600	680	455	500	560	580	560	580		
DH 512			925	570	610	850	850					855	570	610	780	780				

Hoist unit

Size	Rope reeving																			
	1/1				2/1		4/1		4/2		1/1		2/1		A4/1		B4/1			
	Hook path								Hook travel										4/2	
	m				m 1	n 1	m 2	n 2	g 4	n 4	l 8	m 7	m 8	g 4	n 4	e 2	e			
DH 532-512	H 12	24	12	6	5,2	199	220	107		6	105	-	-	-	-	-	146	560		
	H 20	40	20	10	10,2	339	360	247		160	175	-	-	-	-	-	282	840		
DH 532-516	H 40	80	40	20	22,6	689	710	597	103			311	296	90	534	350	636	1540		
DH 512												331	304	55	530					
DH 532-516	H 52	104	52	26	30,2	901	922	809				311	296	90	747	456	848	1965		
DH 512													331	304	55	743				

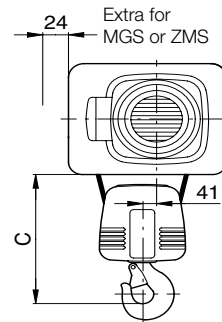
DH 500 hoist unit

4/2 rope reeving



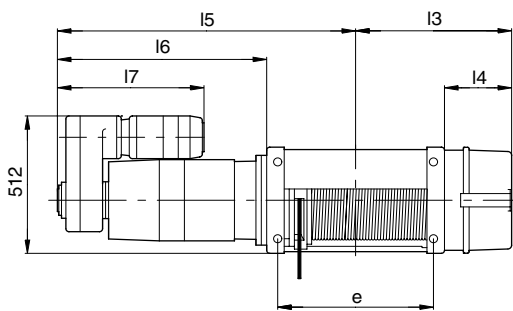
No hook travel with 4/2

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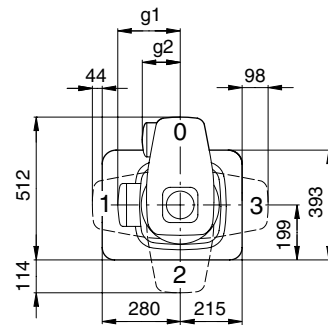


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DH hoist unit with F 10 mechanical microspeed unit



41427744.eps



41427644.eps

See page 24 for weights

Hoist unit dimensions

Range	DH 500				
Rope reeving method	1/1	2/1	4/1	2/2	4/2
Rope dia. mm	14			11	
Drum dia. (rope centre-to-centre) mm	283				
Pitch mm	15,5		12,5		

Special design
See pages 46 – 47 for type C 4/1 hoist units

Motor type – Main/creep lifting, pole changing F 6

Main hoist motor size	Code	d	I 1				I 2	Cover I 3								Cover I 4			
			with hook path					with hook path								I 4			
			H 12	H 20	H 40	H 52		H 12	H 20	H 40	H 52	short	long	short	long	short	long		
KBH 125	V1	246	774	914	1264	1477	457	short	long	short	long	short	long	short	long	short	long	254	325
KBH 140	V2	274	842	982	1332	1545	525	571	642	711	782	1061	1132	1271	1342	254	325		
KBH 160	V3	314	924	1064	1414	1627	607												

Motor type – Main hoist

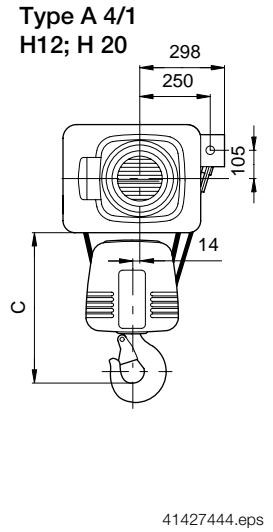
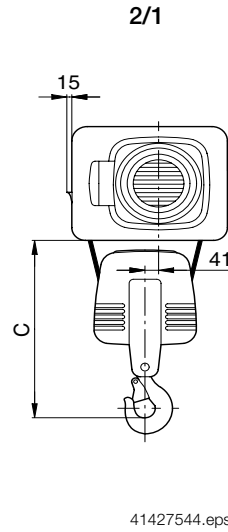
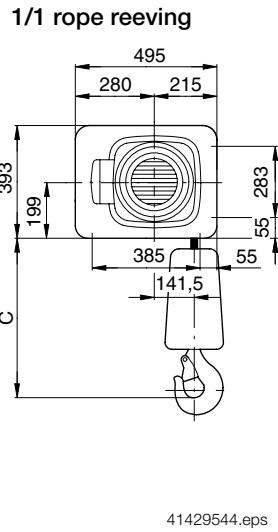
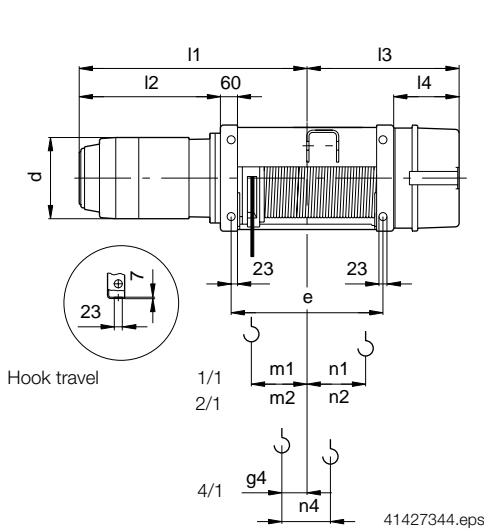
Main hoist motor size	Code	d	g 1	I 1				I 2	Cover I 3								Cover I 4			
				with hook path					with hook path								I 4			
				H 12	H 20	H 40	H 52		H 12	H 20	H 40	H 52	short	long	short	long	short	long		
KBH 112	V1	220	188	717	857	1207	1420	400	short	long	short	long	short	long	short	long	short	long	254	325
KBH 125	V2	246	200	774	914	1264	1477	457	571	642	711	782	1061	1132	1271	1342	254	325		
KBH 140	V3	274	229	842	982	1332	1545	525												

Motor type – Main hoist with F 10 mechanical microspeed unit

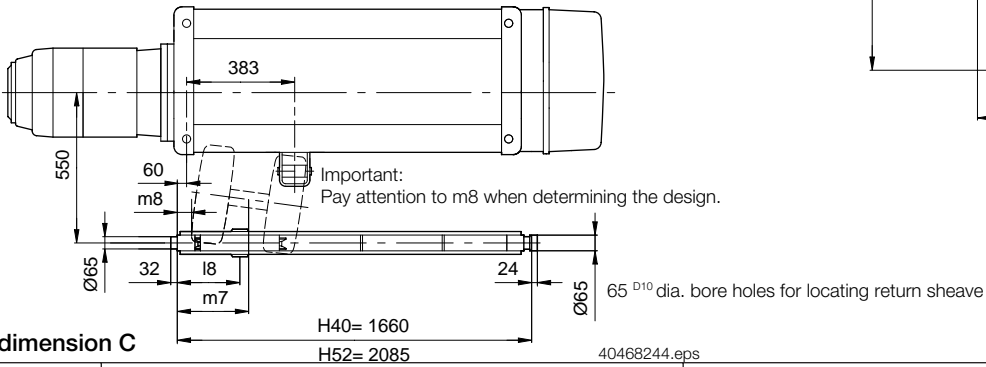
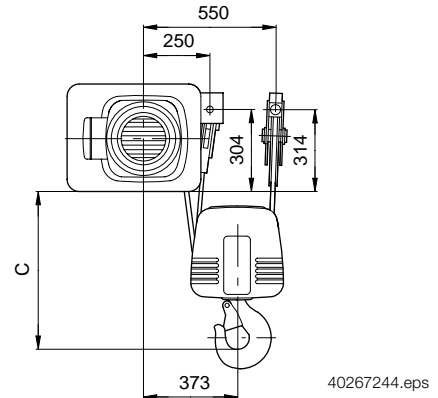
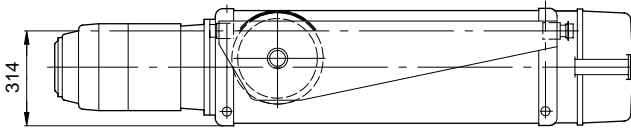
Main hoist motor size	Code	Gearbox size	Creep hoist motor size	g 2	I 5				I 6	I 7
					with hook path					
					H 12	H 20	H 40	H 52		
KBH 112	V1	FG 08	KBA 71	132	931	1071	1444	1657	614	484
KBH 125	V2		KBA 80	141	989	1129	1502	1715	672	523
KBH 140	V3		KBA 80	141	1052	1192	1542	1778	735	

DH 600 hoist unit

SWL 1600 kg –16000 kg



Type B 4/1 H40; H 52



Hook dimension C

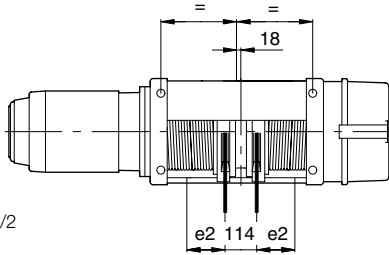
Size	Hook dimensions C with overload cut-off										Hook dimensions C without overload cut-off													
	1/1		2/1		4/2		A 4/1		B 4/1		1/1		2/1		4/2		A 4/1		B 4/1					
	with	w/o	with	w/o	with	w/o	with	w/o	with	w/o	with	w/o	with	w/o	with	w/o	with	w/o	with	w/o				
	with creep lifting										with creep lifting													
DH 640	-		750	455	500	630	650	630	650	-		680	455	500	560	580	560	580						
DH 632-620	555	600											555	600										
DH 616			925	570	610	850	850				855	570	610	780		780								

Hoist unit

Size	Rope reeving																		
	1/1		2/1		4/1		4/2		1/1		2/1		A4/1		B4/1				4/2
	Hook path				Hook travel														
		m				m 1	n 1	m 2	n 2	g 4	n 4	l 8	m 7	m 8	g 4	n 4	e 2	e	
DH 640-616	H 12	24	12	6	5,2	199	220	107	103	6	105	-	-	-	-	-	146	560	
	H 20	40	20	10	10,2	339	360	247		160	175	-	-	-	-	-	282	840	
DH 640-620	H 40	80	40	20	22,6	689	710	597	-	-	311	296	90	534	350	636	1540		
DH 616		331	304	55	530	848	1965												
DH 640-620	H 52	104	52	26	30,2	901	922	809	-	-	311	296	90	747	456	848	1965		
DH 616		104	52	26	30,2	901	922	809			331	304	55	743		848	1965		

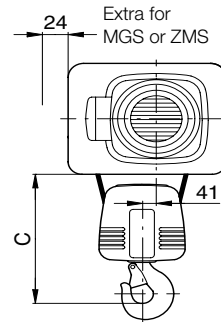
DH 600 hoist unit

4/2 rope reeving



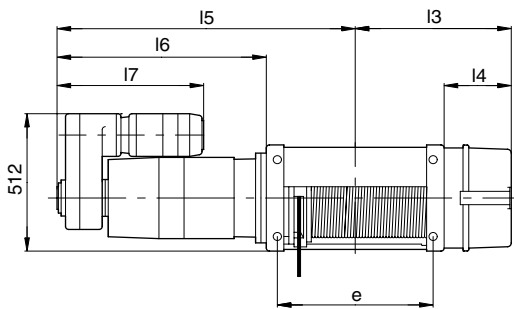
No hook travel with 4/2

41427944.eps

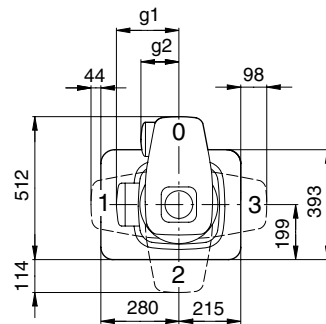


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DH hoist unit with F 10 mechanical microspeed unit



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See page 24 for weights

Hoist unit dimensions

Range	DH 600				
Rope reeving method	1/1	2/1	4/1	2/2	4/2
Rope dia. mm	14			11	
Drum dia. (rope centre-to-centre) mm	283				
Pitch mm	15,5		12,5		

Special design

See pages 46 – 47 for type C 4/1 hoist units

Motor type – Main/creep lifting, pole changing F 6

Main hoist motor size	Code	d	I 1				I 2	Cover I 3								Cover I 4	
			with hook path					with hook path								I 4	
			H 12	H 20	H 40	H 52		H 12	H 20	H 40	H 52	short	long	short	long	short	long
KBH 125	V1	246	774	914	1264	1477	457	short	long	short	long	short	long	short	long	254	325
KBH 140	V2	274	842	982	1332	1545	525	571	642	711	782	1061	1132	1271	1342	254	325
KBH 160	V3	314	924	1064	1414	1627	607										

Motor type – Main hoist

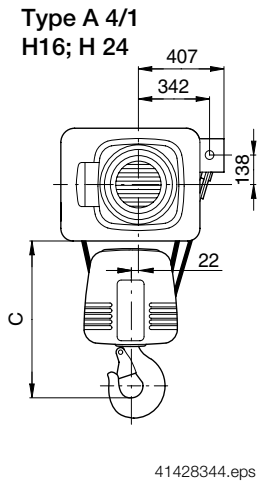
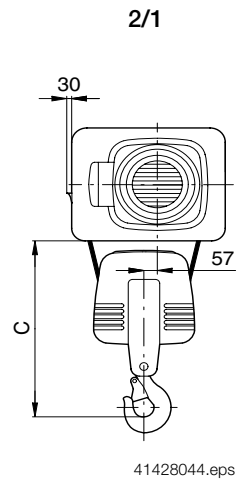
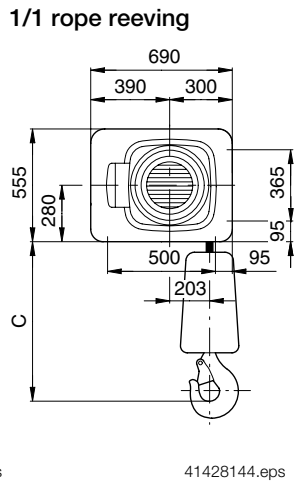
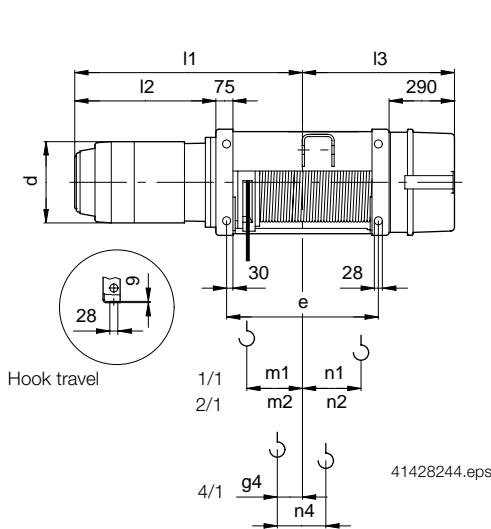
Main hoist motor size	Code	d	g 1	I 1				I 2	Cover I 3								Cover I 4	
				with hook path					with hook path								I 4	
				H 12	H 20	H 40	H 52		H 12	H 20	H 40	H 52	short	long	short	long	short	long
KBH 112	V1	220	188	717	857	1207	1420	400	short	long	short	long	short	long	short	long	254	325
KBH 125	V2	246	200	774	914	1264	1477	457	571	642	711	782	1061	1132	1271	1342	254	325
KBH 140	V3	274	229	842	982	1332	1545	525										

Motor type – Main hoist with F 10 mechanical microspeed unit

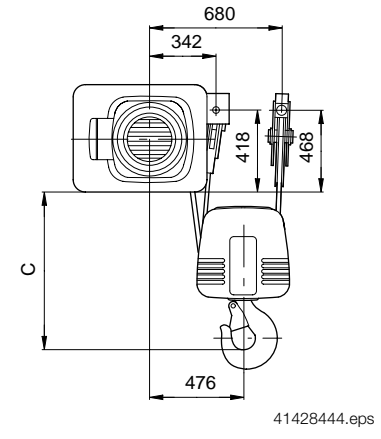
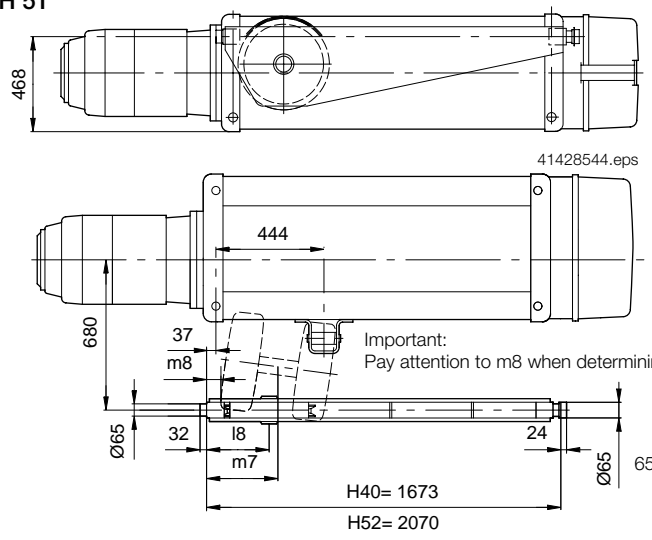
Main hoist motor size	Code	Gearbox size	Creep hoist motor size	g 2	I 5				I 6	I 7
					with hook path					
					H 12	H 20	H 40	H 52		
KBH 112	V1	FG 08	KBA 71	132	931	1071	1444	1657	614	484
KBH 125	V2		KBA 80	141	989	1129	1502	1715	672	523
KBH 140	V3		KBA 80	141	1052	1192	1542	1778	735	

DH 1000 hoist unit

SWL 2500 kg – 25000 kg



Type B 4/1 H40; H 51



Hook dimension C

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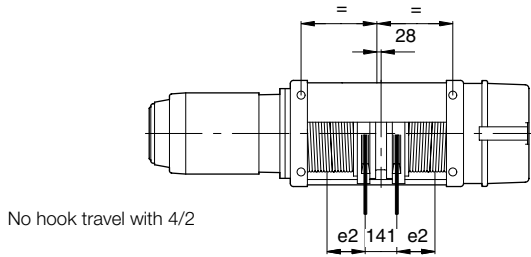
Size	Hook dimensions C with overload cut-off										Hook dimensions C without overload cut-off									
	1/1		2/1		4/2		A 4/1		B 4/1		1/1		2/1		4/2		A 4/1		B 4/1	
	with	w/o	with	w/o	with	w/o	with	w/o	with	w/o	with	w/o	with	w/o	with	w/o	with	w/o	with	w/o
	with creep lifting										with creep lifting									
DH 1063-1032	625	670	890	935	565	605	845	865	810	830	625	670	810	855	565	605	765	785	730	750
DH 1025			1060	1105	1160	1205	1120	1000	1020			980	1025	1160	1205	1040	920	940		

Hoist unit

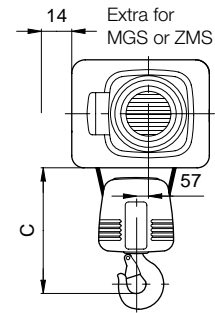
Size	Rope reeving															4/2	e
	1/1	2/1	4/1	4/2	1/1		2/1		A 4/1		B 4/1						
	Hook path				Hook travel												
	m				m 1	n 1	m 2	n 2	g 4	n 4	l 8	m 7	m 8	g 4	n 4	e 2	
DH 1063-1032 H 16	32	16	8	8	277	288	182	101	65	141					193	780	
DH 1025									55								
DH 1063-1032 H 24	48	24	12	13,5	412	423	317		198	209					328	1050	
DH 1025									188								
DH 1063-1032 H 40	80	40	20	24,8	687	698	592	-			281	299	44	538	346	603	1600
DH 1025											307	311	48	526			
DH 1063-1032 H 51	102	51	25,5	33	885	896	791				281	299	44	737	445	802	1997
DH 1025										307	311	48	725				

DH 1000 hoist unit

4/2 rope reeving

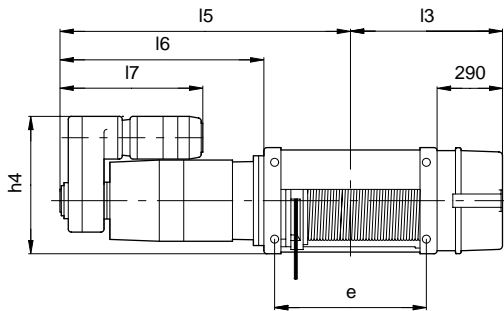


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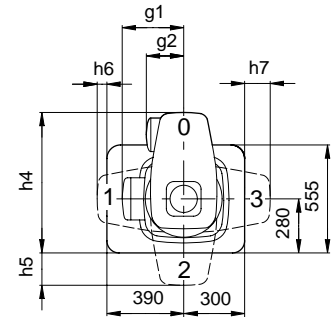


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DH hoist unit with F 10 mechanical microspeed unit



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41429044.eps

See page 25 for weights

Hoist unit dimensions					
Range	DH 1000				
Rope reeving method	1/1	2/1	4/1	2/2	4/2
Rope dia. mm	20		14		
Drum dia. (rope centre-to-centre) mm	406				
Pitch mm	22		15,5		

Special design
See pages 46 – 47 for type C 4/1 hoist units

Motor type – Main/creep lifting, pole changing F 6

Main hoist motor size	Code	d	I 1				I 2	Cover I 3			
			with hook path					with hook path			
			H 16	H 24	H 40	H 51		H 16	H 24	H 40	H 51
KBH 160	V1	314	1052	1187	1462	1661	617	725	860	1135	1334
KBH 180	V2	354	1128	1263	1538	1737	693				
KBH 200	V3	394	1205	1340	1615	1814	770				

Motor type – Main hoist

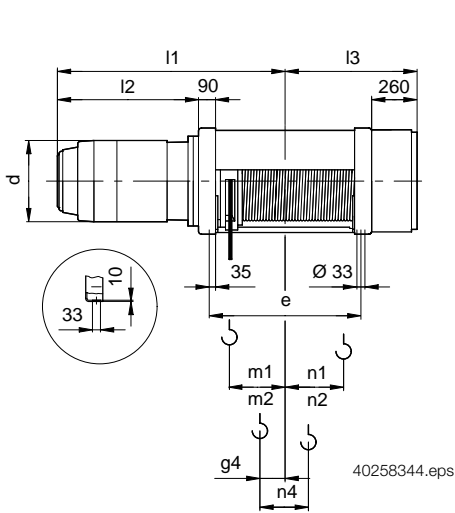
Main hoist motor size	Code	d	g 1	I 1				I 2	I 3			
				with hook path					with hook path			
				H 16	H 24	H 40	H 51		H 16	H 24	H 40	H 51
KBH 140	V1	274	229	970	1105	1380	1574	535	725	860	1135	1334
KBH 160	V2	314	247	1052	1187	1462	1661	617				
KBH 200	V3	394	302	1205	1340	1615	1814	770				

Motor type – Main hoist with F 10 mechanical microspeed unit

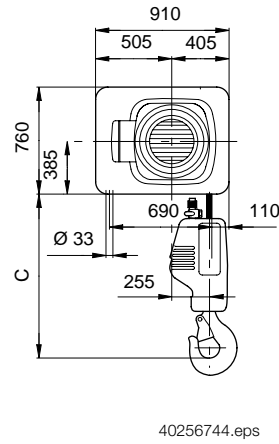
Main hoist motor size	Code	Gearbox size	Creep hoist motor size	g 2	h 4	h 5	h 6	h 7	I 5				I 6	I 7
									with hook path					
									H 16	H 24	H 40	H 51		
KBH 140	V1	FG 08	KBA 80	141	593	33	-	13	1180	1315	1590	1789	745	523
KBH 160	V2	FG 10	KBA 90	151	733	173	63	153	1383	1518	1793	1992	948	665
KBH 200	V3		KBA 100	176					1531	1666	1941	2140	1096	702

DH 2000 hoist unit

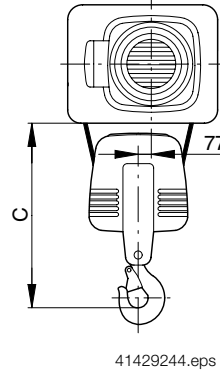
SWL 6300 kg – 50000 kg



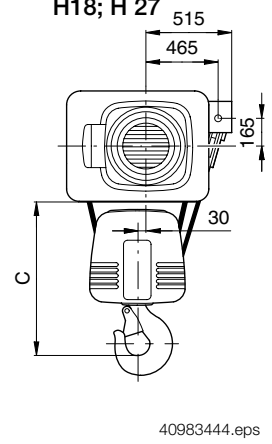
1/1 rope reeving



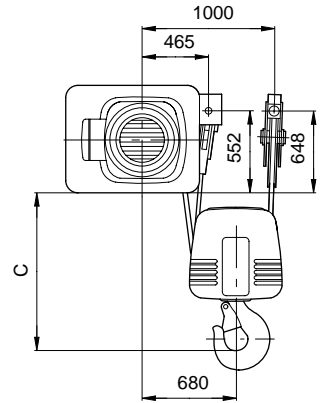
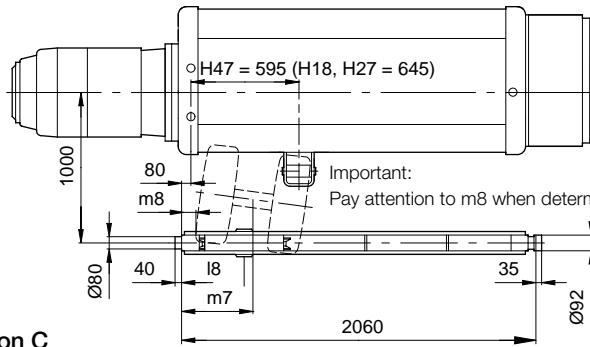
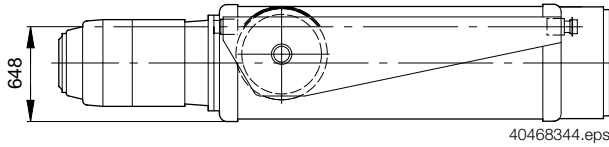
2/1



Type A 4/1 H18; H 27



Type B 4/1 H47



92^{D10} dia. bore holes for locating return sheave

Hook dimension C

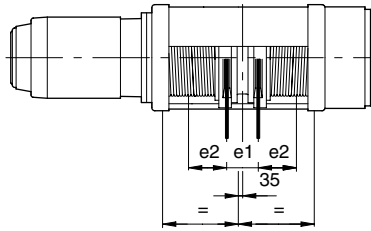
Size	Hook dimensions C with overload cut-off										Hook dimensions C without overload cut-off									
	1/1		2/1		4/2		A 4/1		B 4/1		1/1		2/1		4/2		A 4/1		B 4/1	
	with	w/o	with	w/o	with	w/o	with	w/o	with	w/o	with	w/o	with	w/o	with	w/o	with	w/o	with	w/o
	with creep lifting										with creep lifting									
DH 2125-2080	735	780	1140	1180	1110	1150	1120	1140	1120	1140	735	780	1060	1100	1110	1150	1040	1060	1040	1060
DH 2063			1260	1300	1030	1075	1300		1345	1365			1180	1220	1030	1075	1200		1265	1285
DH 2050	-										-									

Hoist unit

Size	Rope reeving																																
	1/1		2/1		4/1		4/2		1/1		2/1		A 4/1		B4/1				4/2														
	Hook path								Hook travel								4/2																
	m				m1		n 1		m 2		n 2		g 4		n 4		l 8		m 7		m 8		g 4		n 4		e 1		e 2		e		
DH 2125-2080	36							309	301																								
DH 2063	H 18	18	9	6,9						187	118	31	153														193	194	910				
DH 2050		-						-	-																	193							
DH 2125-2080		54						464	456																		193						
DH 2063	H 27	27	13,5	12,4						342	118	176	230														190	349	1220				
DH 2050		-						-	-																		190						
DH 2125-2080		94						804	796																		193						
DH 2063	H 47	47	23,5	24,4						682	118	-	-														190	689	1900				
DH 2050		-						-	-																								

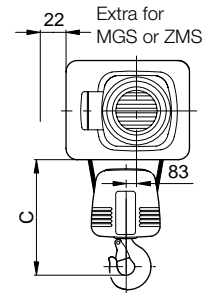
DH 2000 hoist unit

4/2 rope reeving



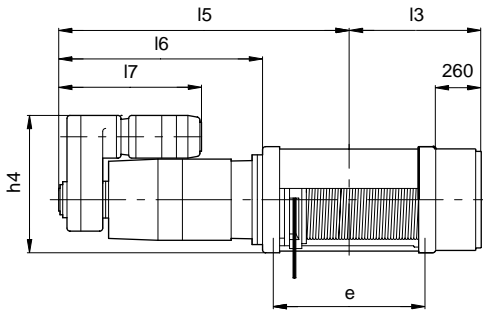
No hook travel with 4/2

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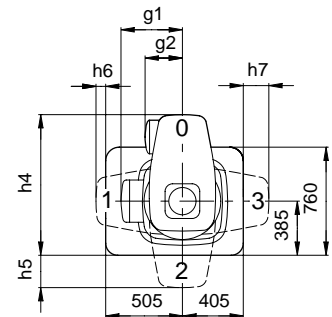


41431444.eps

DH hoist unit with F 10 mechanical microspeed unit



40253544.eps



41429344.eps

See page 25 for weights

Hoist unit dimensions

Range	DH 2000				
Rope reeving method	1/1	2/1	4/1	2/2	4/2
Rope dia. mm	25			20	
Drum dia. (rope centre-to-centre) mm	508			507	
Pitch mm	27			22,5	

Special design
See pages 46 – 47 for type C 4/1 hoist units

Motor type – Main/creep lifting, pole changing F 6

Main hoist motor size	Code	d	I 1			I 2	I 3		
			with hook path				with hook path		
			H 18	H 27	H 47		H 18	H 27	H 47
KBH 180	V1	354	1207	1362	1702	697	770	925	1265
KBH 200	V2	394	1274	1429	1769	764			

Motor type – Main hoist

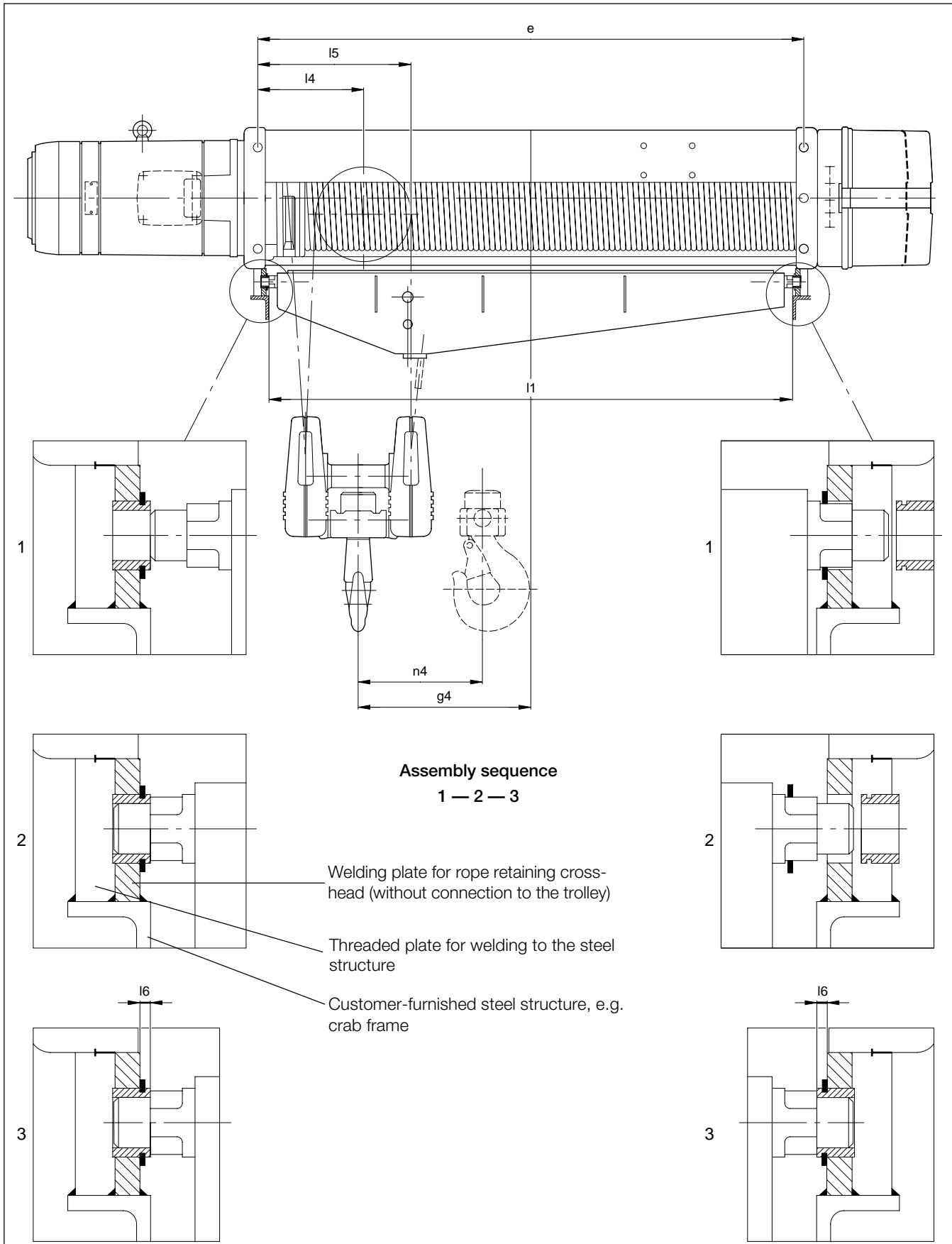
Main hoist motor size	Code	d	g 1	I 1			I 2	I 3		
				with hook path				with hook path		
				H 18	H 27	H 47		H 18	H 27	H 47
KBH 160	V1	314	247	1131	1286	1626	621			
KBH 200	V2	394	302	1274	1429	1769	764	770	925	1265
KBH 225	V3	440	323	1326	1481	1821	816			

Motor type – Main hoist with F 10 mechanical microspeed unit

Main hoist motor size	Code	Gearbox size	Creep hoist motor size	g 2	h 4	h 5	h 6	h 7	I 5			I 6	I 7
									with hook path				
									H 18	H 27	H 47		
KBH 160	V1	FG 10	KBA 90	151	838	68	-	48	1468	1623	1963	958	665
KBH 200	V2		KBA 100	176					1600	1755	2095		
KBH 225	V3		KBA 112	188	845	75		55	1655	1810	2150	1145	740

Type C 4/1 hoist units

DH 500 H40, H52 – DH 1000 H40, H51 – DH 2000 H47



Assembly sequence

1 — 2 — 3

Welding plate for rope retaining cross-head (without connection to the trolley)

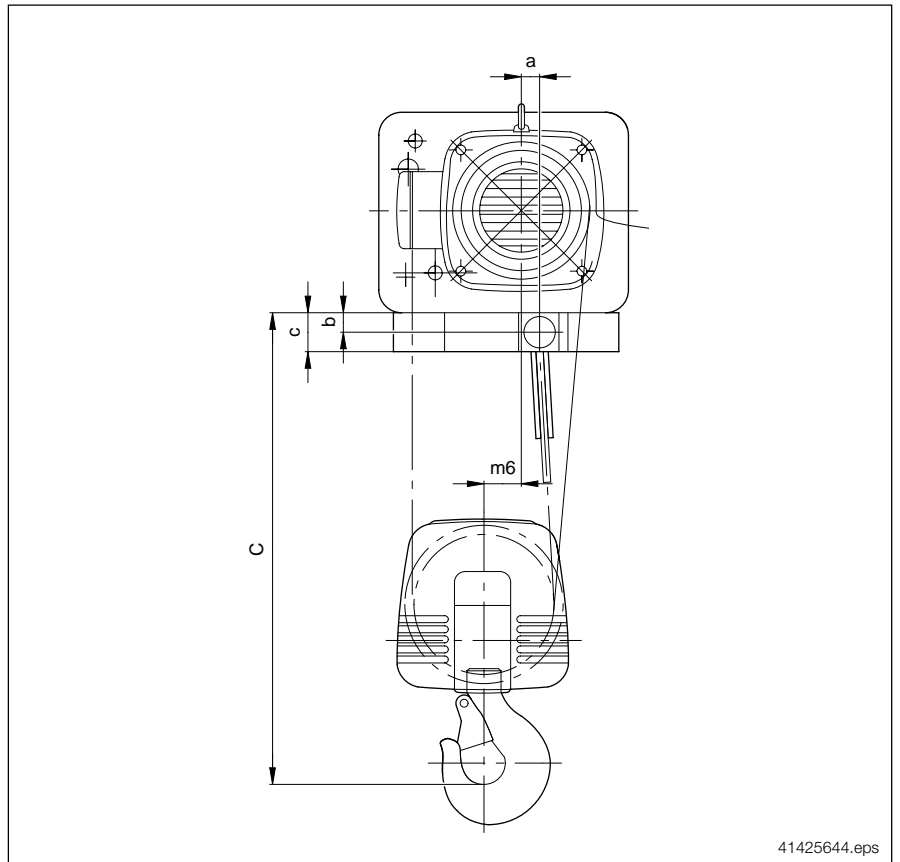
Threaded plate for welding to the steel structure

Customer-furnished steel structure, e.g. crab frame

Type C 4/1 hoist units

Weights (kg)

Rope reeving		Type C 4/1	
Range	Motor size	Size	
	DH	532-516 640-620	512 616
DH 500 H 40 DH 600 H 40	KBH	112	550 625
		125	570 645
		140	600 675
		160	670 745
DH 500 H 52 DH 600 H 52	KBH	112	615 690
		125	635 710
		140	665 740
		160	735 810
	DH	1063-1032	1025
DH 1000 H 40	KBH	140	1140 1215
		160	1210 1285
		180	1280 1355
		200	1340 1415
DH 1000 H 51	KBH	140	1260 1335
		160	1330 1405
		180	1400 1475
		200	1500 1535
	DH	2125-2080	2063
DH 2000 H 47	KBH	160	2200 2265
		180	2280 2345
		200	2345 2410
		225	2450 2515



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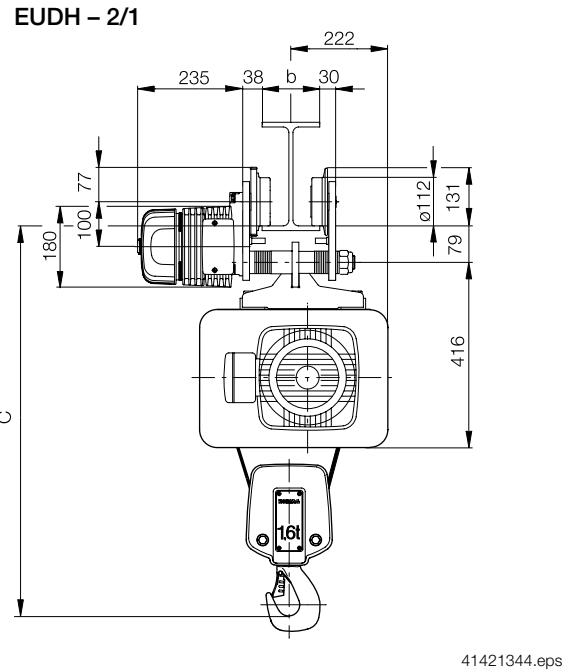
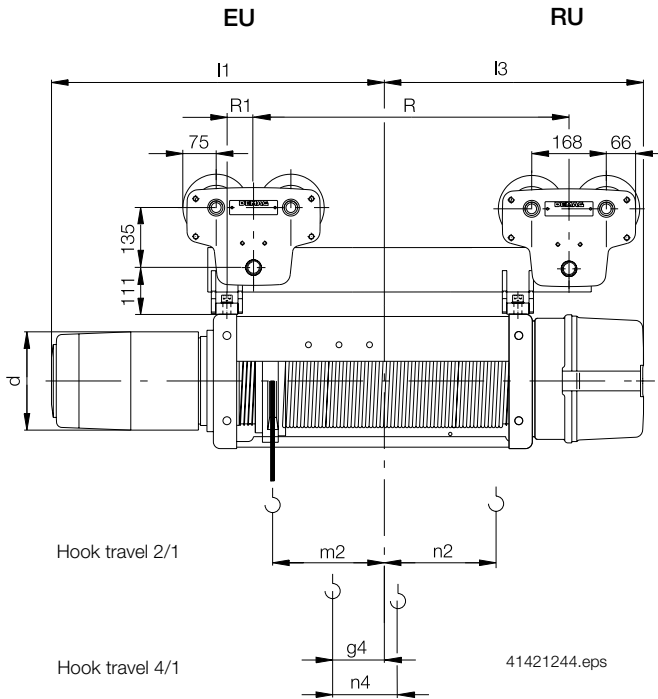
Size	Hook path m	Hook dimension C with creep lifting 1)	e	m 6	g 4	n 4	a	b	c	Top block l 4	Crosshead			Top block, crosshead and attachments Part no.	Rope lengths m
											l 1	l 5	l 6		
DH 532-516 DH 632-620	H 40	900	1540	74	499	349	30	40	80	297	1482	420	7	450 357 46	87,2
DH 640														607 234 46	
DH 512 DH 616														450 358 46	
DH 532-516 DH 640-620	H 52	900	1965	74	711	456	30	40	80	297	1907	420	7	450 359 46	111,4
DH 640														607 235 46	
DH 512 DH 616														450 360 46	
DH 1063 DH 1050-1032	H 40	1200	1600	93	480	346	70	60	120	351,5	1525	480	7	450 351 46	90,9
DH 1025														450 352 46	
DH 1063 DH 1050-1032	H 51	1200	1997	93	678	445	70	60	120	351,5	1922	480	7	450 354 46	112,9
DH 1025														450 355 46	
DH 1025														450 356 46	
DH 2125-2080 DH 2063-2050	H 47	1500	1900	126	531 516	400	80	60	120	474	1816	582 642	6	450 347 46	106,3
DH 2063-2050														450 348 46	

1) Hook dimensions C with overload cut-off

Trolley size 3,2

UDH 160 standard-headroom monorail hoist, 2/1 and 4/1 rope reeving

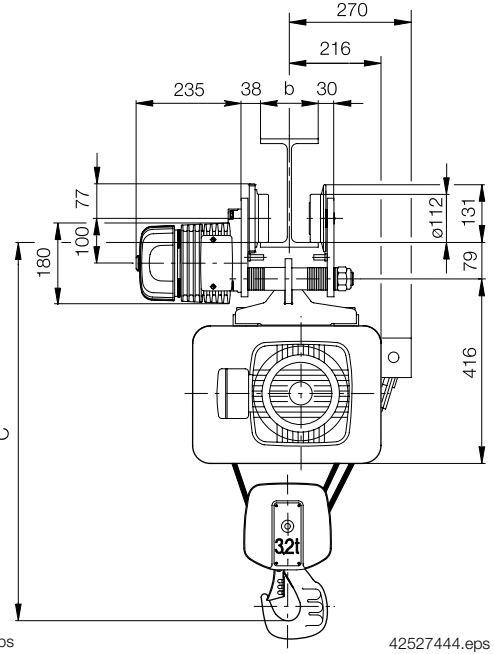
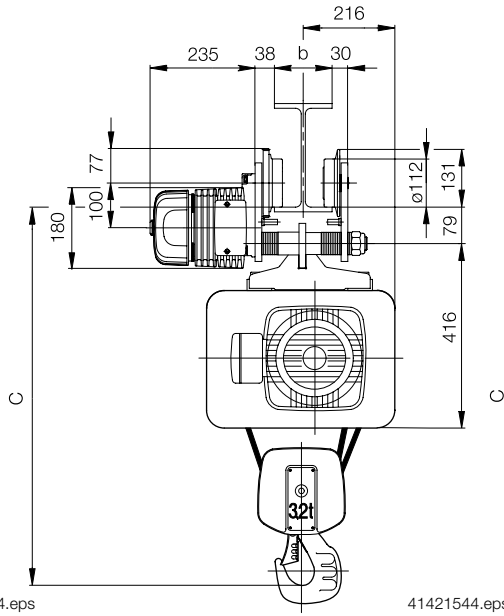
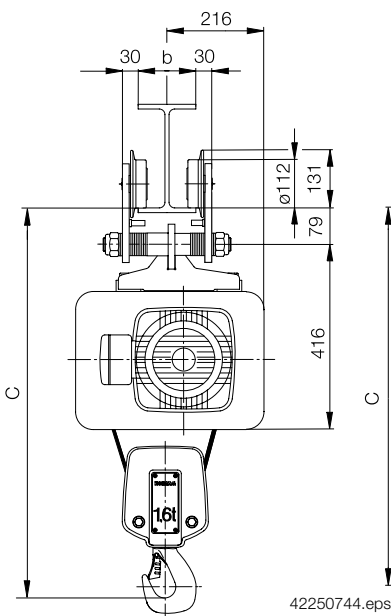
SWL 1000 kg – 3200 kg



RUDH - 2/1
1

EUDH - 4/1 H12

EUDH - 4/1 H19



Hook dimension C from girder running surface

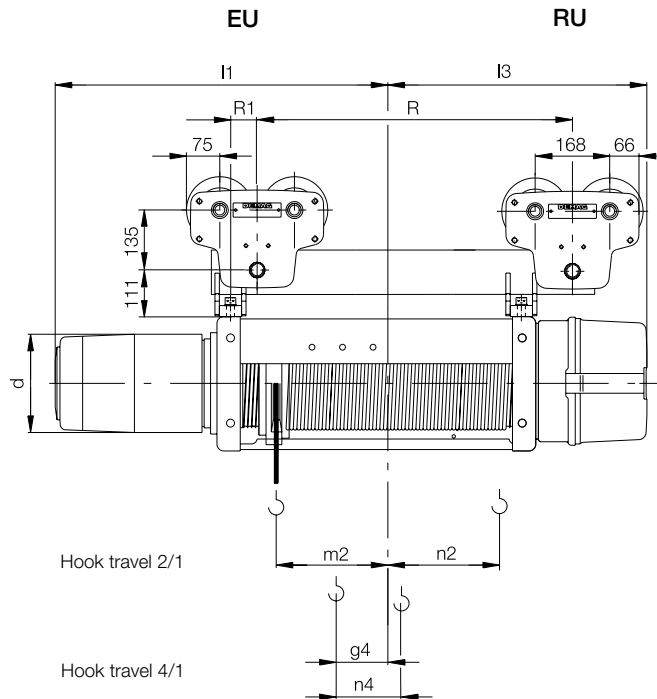
max. flange thickness 22 mm

Size	Hook dimensions C with and without overload cut-off					
	2/1		4/1		4/2	
	with creep lifting	without creep lifting	with creep lifting	without creep lifting	with creep lifting	without creep lifting
DH 168-165	945	985	815	835	865	905

Hoist unit

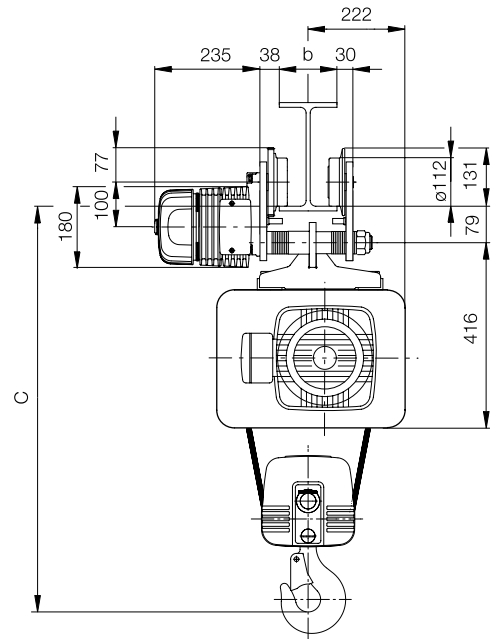
Size	Rope reeving										Adjusting range		
	2/1	4/1	4/2	2/1		4/1		2/1-4/2	4/1	2/1-4/2		4/1	
	Hook path			Hook travel				Wheel base		R 1		Flange width b mm	
	m			m 2	n 2	g 4	n 4	R		R 1			
DH 168-165	H 12	12	6	-	128	47	50	87	515		60	60	82-143
	H 19	19	9,5	10,3	223		145	135	660	765	105	0	144-200 201-300

Trolley size 3,2



41421244.eps

EUDH - 4/2



42265044.eps

Travel speeds

Travel drive		Possible cross travel speeds in approx. ...m/min					
		7	14	28	7/28	4,6/14	
		13/6 PKF 8	13/6 PKF 4	13/6 PKF 2	13/6 PKF 8/2	13/6 PKF 12/4	
Part no.	Voltage	230/400 V	818 088 46	563 036 44	563 033 44	-	-
		400 V	-	-	-	563 057 44	563 056 44

Weights (kg)

Rope reeving		2/1		4/1		4/2
Hook path		H 12	H 19	H 12	H 19	H 19
DH size		168-165		168-165		168-165
Motor size	KMH 90	220	238	-	-	238
	KMH 100	229	245	252	268	245
	KMH 112	239	255	262	278	255

Motor type – Main/creep lifting, pole-changing F 4

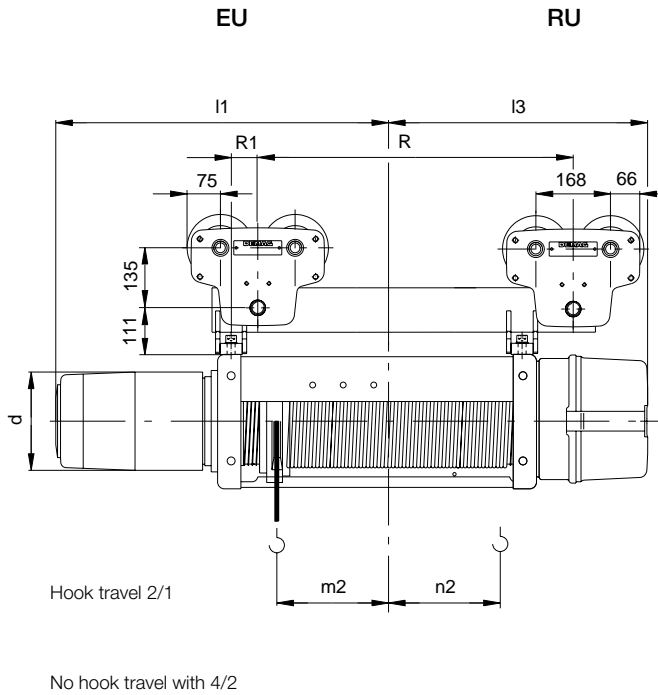
Range	Main hoist motor size	Code	d	l 1		l 3	
				with hook path			
				H 12	H 19	H 12	H 19
DH 160	KMH 90	V1	178	568	663	519	613
	KMH 100	V2	198	591	686		
	KMH 112	V3	222	632	729		

Motor type – Main hoist

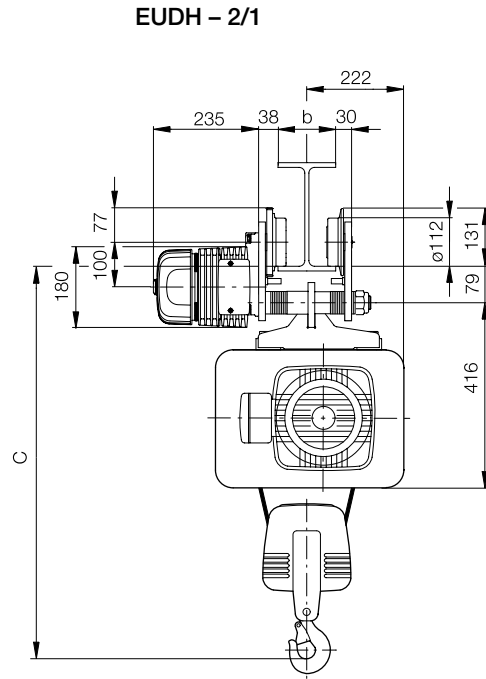
Range	Main hoist motor size	Code	d	l 1		l 3	
				with hook path			
				H 12	H 19	H 12	H 19
DH 160	KMH 100	V2	198	591	686	519	613

Trolley size 3,2

UDH 200 standard-headroom monorail hoist, 2/1 and 4/2 rope reeving
 SWL 1600 kg – 2500 kg

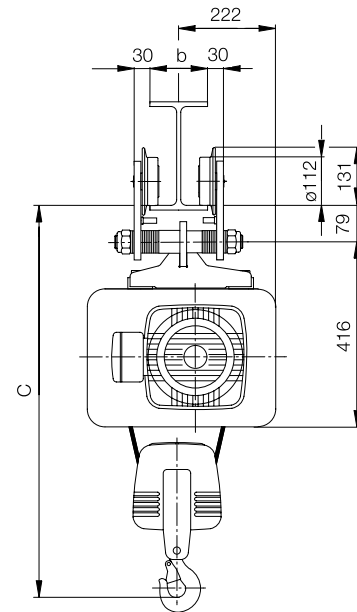


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RUDH - 2/1



42250844.eps

max. flange thickness 22 mm

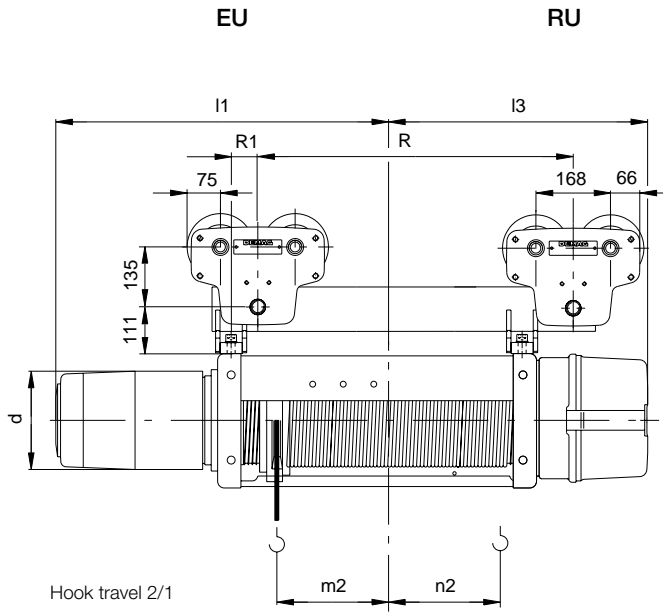
Hook dimension C from girder running surface

Size	Hook dimensions C with and without overload cut-off			
	2/1		4/2	
	with creep lifting	without creep lifting	with creep lifting	without creep lifting
DH 212-208	945	985	865	905

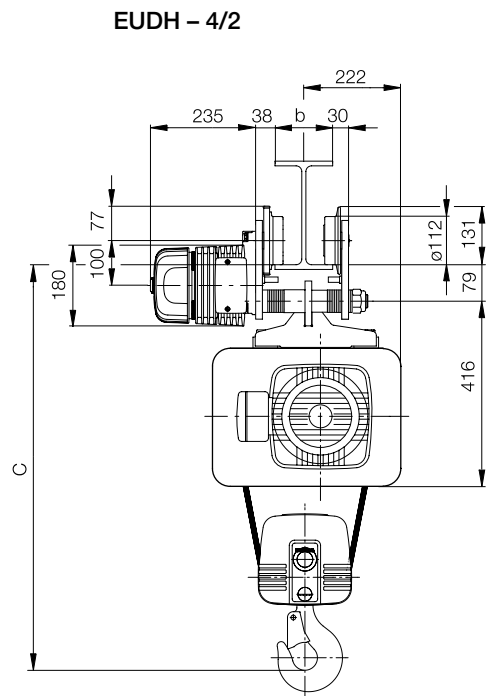
Hoist unit

Size	Rope reeving				Wheel base	Adjusting range		
	2/1	4/2	2/1					
	Hook path		Hook travel					
	m	m 2	n 2	R			R 1	mm
DH 212-208	H 10	10	-	118	43	515	60	82-143 144-200 201-300
	H 16	16	9.1	213				

Trolley size 3,2



42003244.eps



42265144.eps

Weights in kg

Size	212 - 208		212 - 208
Rope reeving	2/1		4/2
Hook path	H 10	H 16	H 16
Motor size	KMH 100	224	241
	KMH 112	234	251

Travel speeds

Travel drive		Possible cross travel speeds in approx. ...m/min					
		7	14	28	7/28	4,6/14	
		13/6 PKF 8	13/6 PKF 4	13/6 PKF 2	13/6 PKF 8/2	13/6 PKF 12/4	
Part no.	Voltage	230/400 V	818 088 46	563 036 44	563 033 44	-	-
		400 V	-	-	-	563 057 44	563 056 44

Motor type - Main/creep lifting, pole-changing F 4

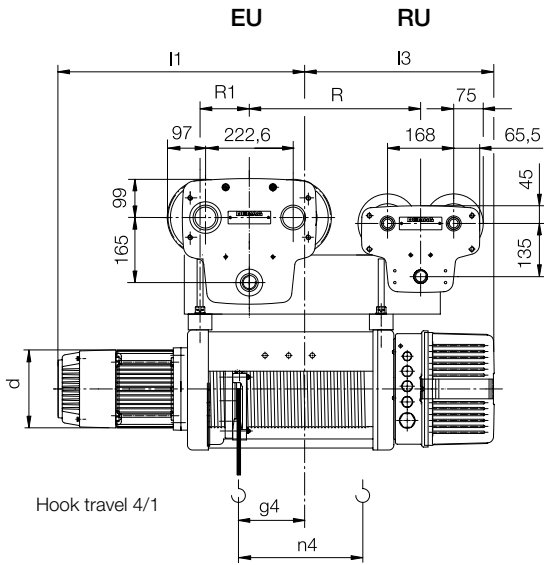
Range	Main hoist motor size	Code	d	I 1		I 3	
				with hook path			
				H 10	H 16	H 10	H 16
DH 200	KMH 100	V1	198	591	686	519	613
	KMH 112	V2	222	632	727		

Motor type - Main hoist

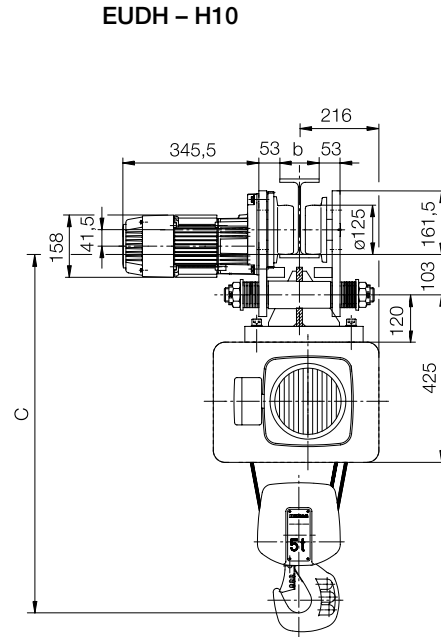
DH 200	KMH 100	V1	198	591	686	519	613
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Trolley size 5

UDH 200 standard-headroom monorail hoist, 4/1 rope reeving
SWL 3200 kg – 5000 kg

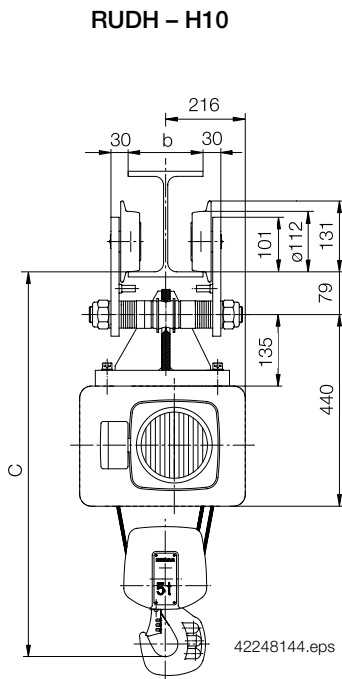


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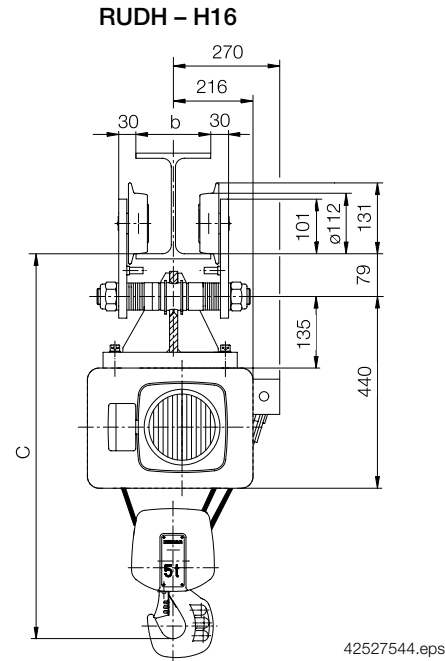


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max. flange thickness 22 mm



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Hook dimension C from girder running surface

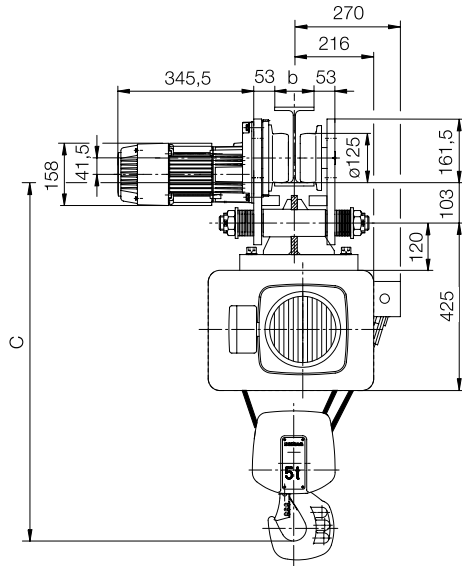
Size	Hook dimensions C with and without overload cut-off	
	4/1	
	with creep lifting	without creep lifting
DH 212 - 208	940	960

Hoist unit

Size	Rope reeving			Wheel base	Adjusting range	
	4/1					
	Hook path	Hook travel				Flange width b
	m	g 4	n 4	R	R 1	mm
DH 212-208	H 10	5	35	81	435	106-143 144-200
	H 16	8	130	128	625	201-300

Trolley size 5

EUDH - H16



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Weights in kg

Size		212 - 208	
Rope reeving		4/1	
Hook path		H 10	H 16
Motor size	KMH 100	315	330
	KMH 112	325	340

Travel speeds

SWL	Size	Travel drive	
		Possible cross travel speeds in approx. ...m/min	
kg	DH	12,5	6,3/25
3200	208	KMF 80A4 40% CDF 0,32 kW	KMF 80A8/2 40% CDF 0,13/0,5 kW
4000	210		
5000	212		

Motor type - Main/creep lifting, pole changing F 4

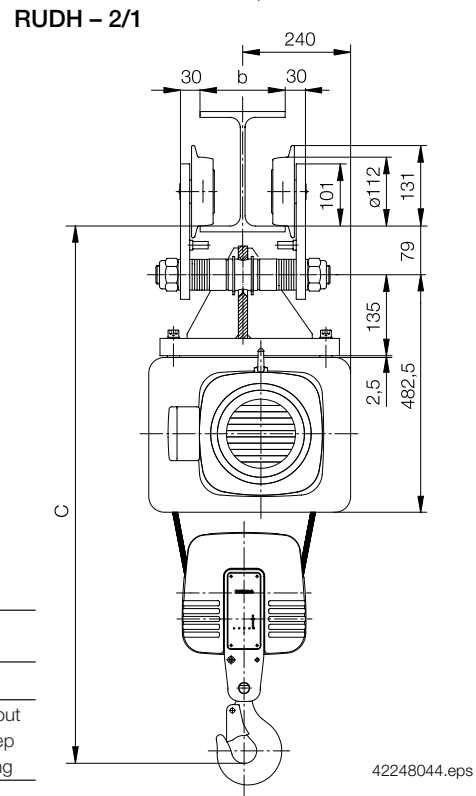
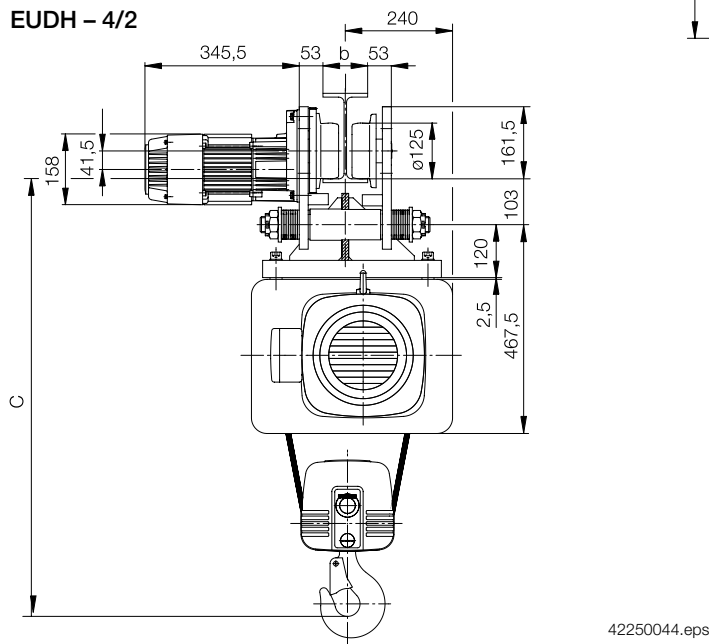
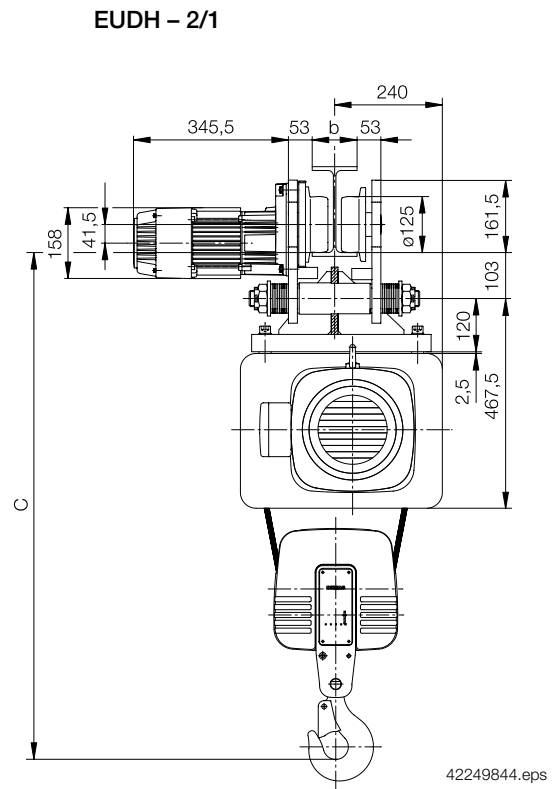
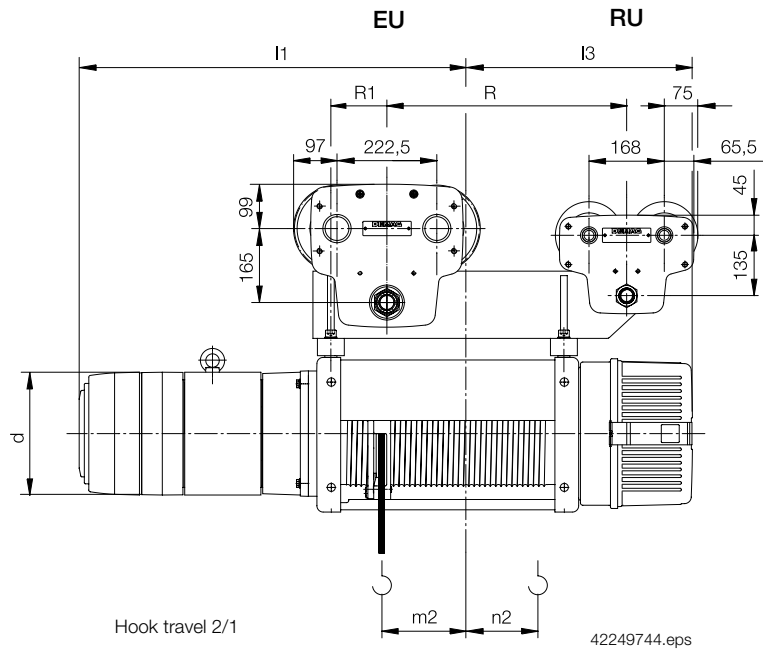
Range	Main hoist motor size	Code	d	I 1		I 3	
				with hook path			
				H 10	H 16	H 10	H 16
DH 200	KMH 100	V1	198	591	686	519	613
	KMH 112	V2	222	632	727		

Motor type - Main hoist

DH 200	KMH 100	V1	198	591	686	519	613
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Trolley size 5

UDH 300 standard headroom monorail hoist, 2/1 and 4/2 rope reeving
 SWL 1600 kg – 4000 kg



Hook dimension C from girder running surface

Size	Hook dimensions C with overload cut-off				Hook dimensions C without overload cut-off			
	2/1		4/2		2/1		4/2	
	with creep lifting	without creep lifting	with creep lifting	without creep lifting	with creep lifting	without creep lifting	with creep lifting	without creep lifting
DH 320-310	1175	1220	1090	1135	1115	1160	1090	1135
DH 308	1270	1310			1210	1250		

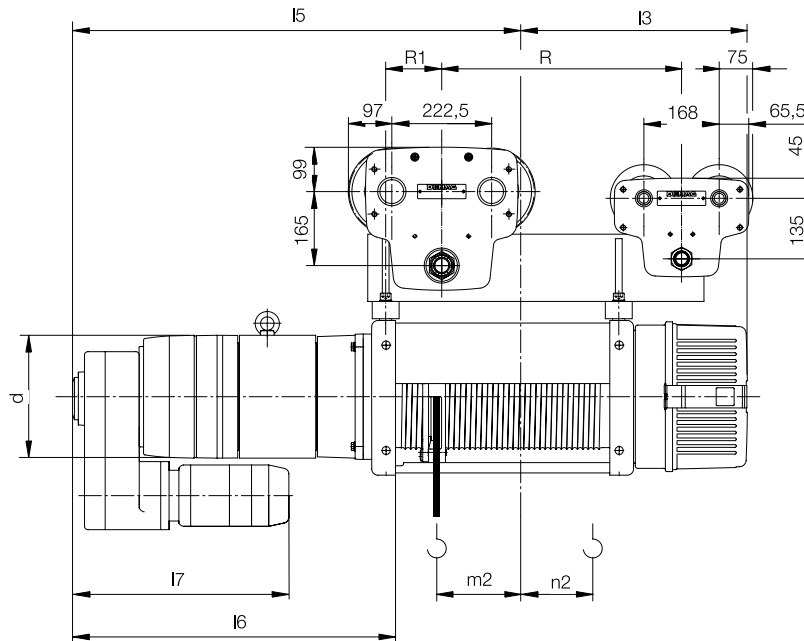
max. flange thickness 22 mm

Hoist unit

Range	Rope reeving				Wheel base	Adjusting range		
	2/1		4/2				Flange width b	
	Hook path		Hook travel					
	m			m 2	n 2	R	R 1	mm
DH 300	H 12	12	6,3	120	73	535	125	106-143
	H 20	20	12	250	71	795		144-200

Trolley size 5

UDH standard headroom monorail hoist with mechanical microspeed unit F10



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Travel speeds

SWL	Size	Travel drive	
		Possible cross travel speeds in approx. ...m/min	
kg	DH	12,5	6,3/25
1600	308	KMF 80A4 40% CDF 0,32 kW	KMF 80A8/2 40% CDF 0,13/0,5 kW
2000	310		
2500	312		
3200	316		
4000	320		

Weights (kg)

Rope reeving		2/1		4/2		2/1		4/2	
Hook path		H 12				H 20			
DH size		320-310	308	320-310	308	320-310	308	320-310	308
Motor size	KBH 100	345	360	365	485	370	385	395	415
	KBH 112	360	375	380	400	385	400	410	430
	KBH 125	375	390	395	415	400	425	425	445
	KBH 140	405	420	425	445	430	455	455	475

Motor type - Main/creep lifting, pole-changing F 6

Main hoist motor size	Code	d	I 1		Cover I 3			
			with hook path					
			H 12	H 20	H 12		H 20	
KBH 112	V 1	220	703	833	short	long	short	long
KBH 125	V 2	246	756	886	546	617	676	747
KBH 140	V 3	274	824	954				

Weights

Mechanical microspeed unit

FG 06 with KBA 71 = 18 kg

FG 08 with KBA 71 = 50 kg

FG 08 with KBA 80 = 55 kg

Motor type - Main/creep lifting, pole changing F 10

Main hoist motor size	Code	d	g 1	I 1		Cover I 3				Gearbox size	Creep hoist motor size	g 2	a 11	a 12	b 9	I 5		16	17
				with hook path												with hook path			
				H 12	H 20	H 12		H 20								H 12	H 20		
KBH 100	V 1	196	181	680	810	short	long	short	long	FG 06	KBA 71	132	212	284	643	836	966	544	437
KBH 112	V 2	220	188	703	833	546	617	676	747	FG 08	KBA 71	275	351	710	917	1047	625	484	
KBH 125	V 3	246	200	756	886						KBA 80				141	971	1101	697	523

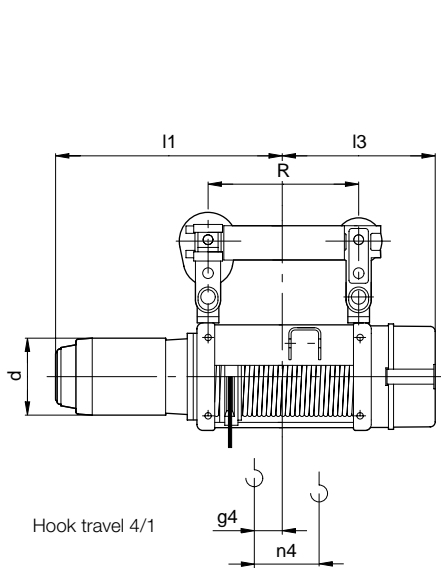
Trolley size 6

UDH 300 standard headroom monorail hoist, 4/1 rope reeving

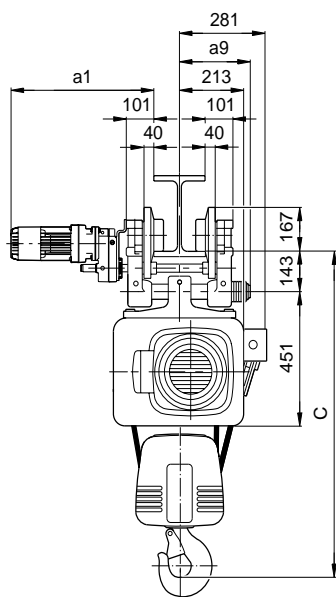
SWL 3200 kg – 8000 kg

EUDH

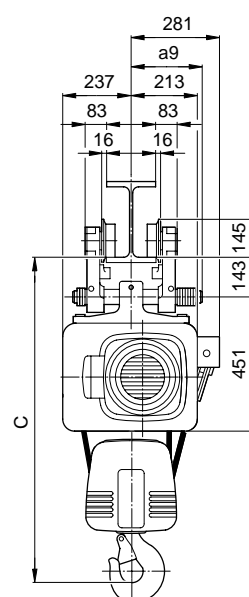
RUDH



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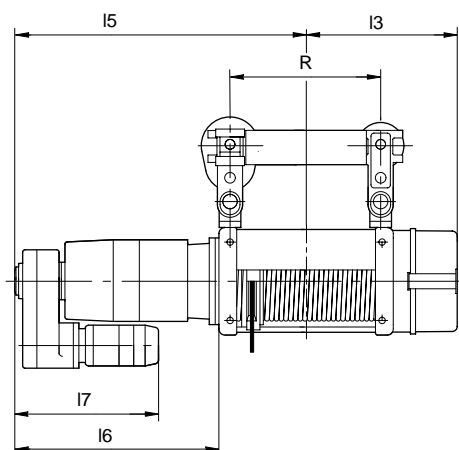


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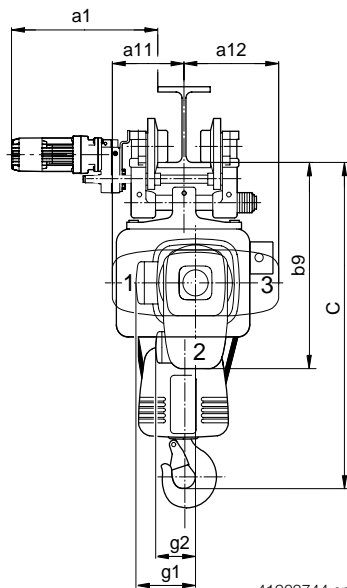


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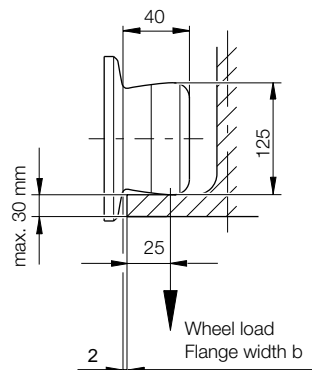
UDH standard headroom monorail hoist with mechanical microspeed unit F10



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Hook dimension C from girder running surface

Size	Hook dimensions C with overload cut-off		Hook dimensions C without overload cut-off	
	4/1		4/1	
	with creep lifting	without creep lifting	with creep lifting	without creep lifting
DH 320-310	1140	1160	1080	1100
DH 308	1210		1150	

Hoist unit

Range	Rope reeving			Travel drive					Wheel base	Smallest curve radius	Connecting rods for		
	4/1			Direct drive							Flange width b	max.	
	Hook path	Hook travel		AMK 10-DD ZBF 63 A	AMK 10-DD ZBF 71 A	AMK 10-DD ZBF 80 A	AUK 30-DD ZBF 90 B	AUK 30-DD ZBF 100 A					
	m	g 4	n 4	a 1					R	m	mm	a 9	
DH 300	H 12	6	23,5	96	557	557	613	656	656	520	5,5	119-165	238
	H 20	10	153	161						780	8	166-245	295

Trolley size 6

EUDH standard-headroom monorail hoist with a single drive

SWL	Size	Travel drive			
		Hoist travel speed in approx. m/min			
		400 V, 50 Hz			
		12,5 1)	20 1)	31,5 1)	40 1)
kg		3,1/12,5	5/20	8/31,5	10/40
3200	DH 308	AMK 10-DD ZBF 63 A 8/2-B003 40% CDF 0,06/0,25 kW i = 25,7 17 kg	AMK 10-DD ZBF 63 A 8/2-B003 40% CDF 0,06/0,25 kW i = 15,7 17 kg	AMK 10-DD ZBF 71 A 8/2-B003 40% CDF 0,09/0,34 kW i = 10,5 18 kg	AMK 10-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 8,32 26 kg
4000	DH 310		AMK 10-DD ZBF 71 A 8/2-B003 40% CDF 0,09/0,34 kW i = 15,7 18 kg	AMK 10-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 10,5 26 kg	AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 7,78 44 kg
5000	DH 312		AMK 10-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 15,7 26 kg	AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 10,1 44 kg	
6300	DH 316				
8000	DH 320		AMK 10-DD ZBF 71 A 8/2-B003 40% CDF 0,09/0,34 kW i = 25,7 18 kg	AMK 10-DD ZBF 71 A 8/2-B003 40% CDF 0,09/0,34 kW i = 15,7 18 kg	AUK 30-DD ZBF 100 A 8/2-B050 40% CDF 0,29/1,2 kW i = 7,78 44 kg

1) Only the 2-pole winding is connected for single speed drives.

Trolley can be supplied with

Conical travel wheels: for track girders with inclined flange surfaces

Cylindrical travel wheels: for track girders with parallel flange surfaces

Weights (kg)

Rope reeving		4/1		4/1	
Hook path		H 12		H 20	
DH size		320-310	308	320-310	308
Motor size	KBH 100	340	380	370	410
	KBH 112	355	395	385	425
	KBH 125	370	410	400	440
	KBH 140	400	440	430	470

Weights

Mechanical microspeed unit

FG 06 with KBA 71 = 18 kg

FG 08 with KBA 71 = 50 kg

FG 08 with KBA 80 = 55 kg

Motor type – Main/creep lifting, pole-changing F 6

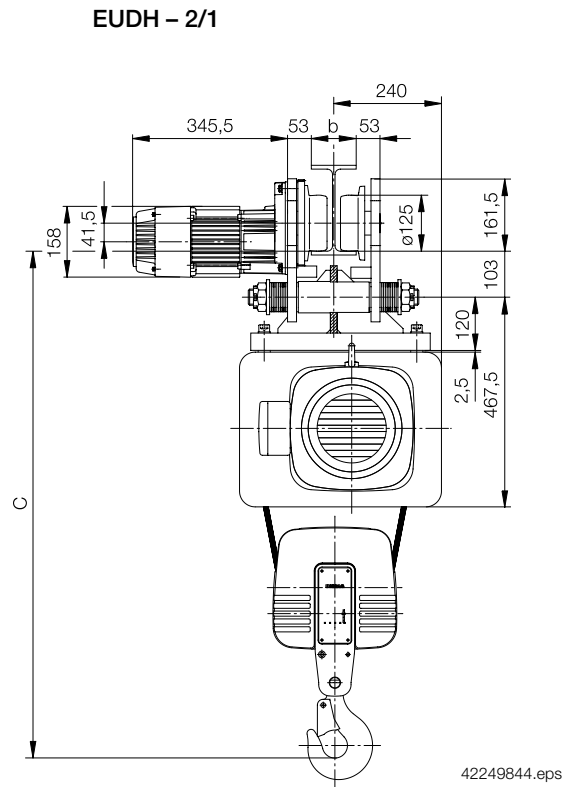
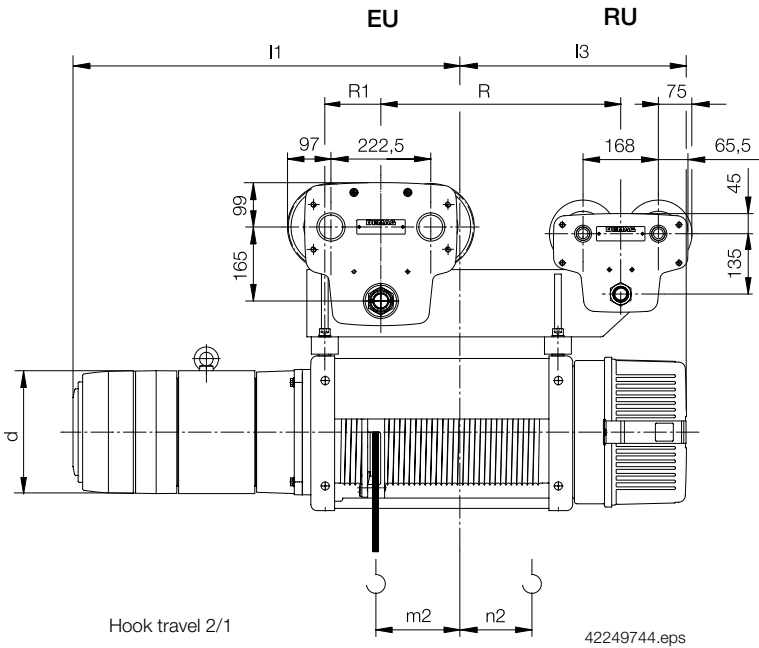
Main hoist motor size	Code	d	I 1		Cover I 3			
			with hook path					
			H 12	H 20	H 12		H 20	
KBH 112	V 1	220	703	833	short	long	short	long
KBH 125	V 2	246	756	886	546	617	676	747
KBH 140	V 3	274	824	954				

Motor type – Main hoist and F10 mechanical microspeed unit

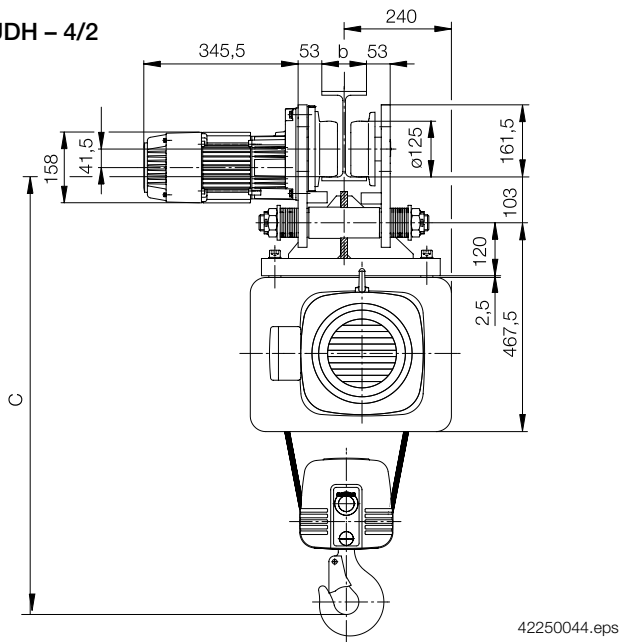
Main hoist motor size	Code	d	g 1	I 1		Cover I 3				Gearbox size	Creep hoist motor size	g 2	a 11	a 12	b 9	I 5		I 6	I 7
				with hook path												with hook path			
				H 12	H 20	H 12		H 20								H 12	H 20		
KBH 100	V 1	196	181	680	810	kurz	lang	kurz	lang	FG 06	KBA 71	132	237	259	665	836	966	544	437
KBH 112	V 2	220	188	703	833	546	617	676	747	FG 08	KBA 71	300	326	732	917	1047	625	484	
KBH 125	V 3	246	200	756	886					KBA 80	141				971	1101	697	523	

Trolley size 5

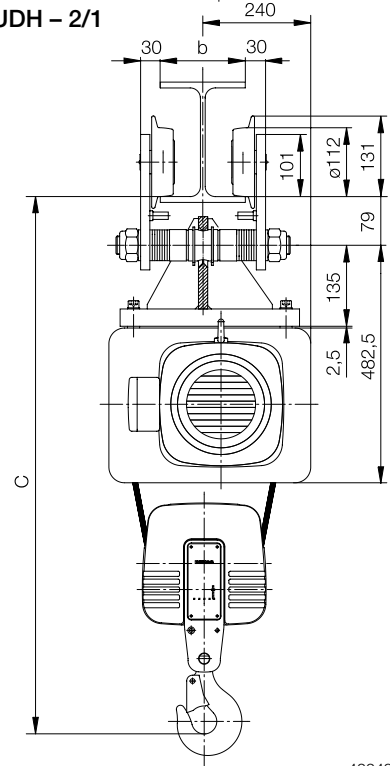
UDH 400 standard-headroom monorail hoist, 2/1 and 4/2 rope reeving
 SWL 2000 kg – 5000 kg



EUDH - 4/2



RUDH - 2/1



Hook dimension C from girder running surface

Size	Hook dimensions C with overload cut-off				Hook dimensions C without overload cut-off			
	2/1		4/2		2/1		4/2	
	with creep lifting	without creep lifting	with creep lifting	without creep lifting	with creep lifting	without creep lifting	with creep lifting	without creep lifting
DH 425-412	1175	1220	1090	1135	1115	1160	1090	1135
DH 410	1270	1310			1210	1250		

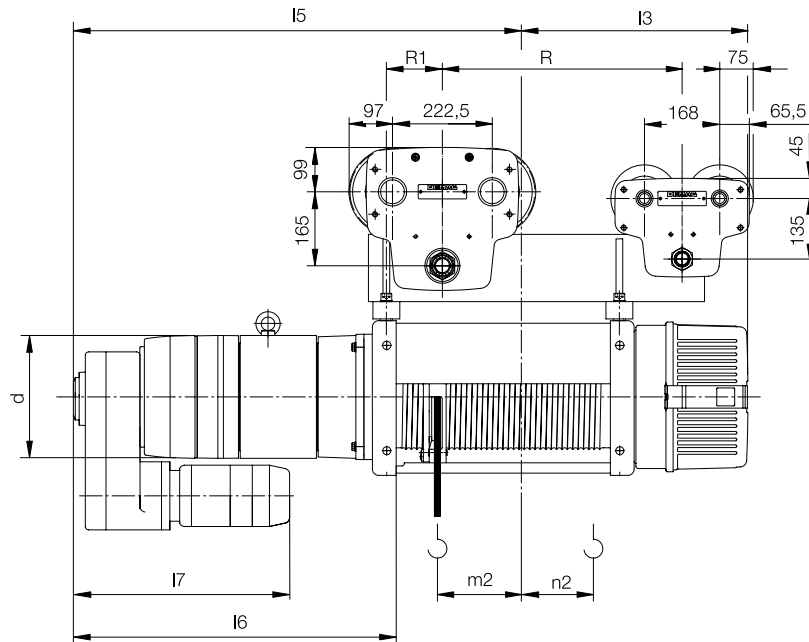
Hoist unit

Range	Rope reeving				Wheel base	Adjusting range	
	2/1		4/2				
	Hook path		Hook travel		R	R 1	
	m		m 2	n 2			mm
DH 400	H 12	12	6,3	120	73	535	106-143
	H 20	20	12	250	71	795	144-200 201-300

max. flange thickness 22 mm

Trolley size 5

UDH standard-headroom monorail hoist with mechanical microspeed unit F10



42248244.eps

Travel speeds

SWL	Size	Travel drive	
		Possible cross travel speeds in approx. ...m/min	
kg	DH	12,5	6,3/25
2000	410	KMF 80A4 40% CDF 0,32 kW	KMF 80A8/2 40% CDF 0,13/0,5 kW
2500	412		
3200	416		
4000	420		
5000	425		

Weights (kg)

Rope reeving		2/1		4/2		2/1		4/2	
Hook path		H 12				H 20			
DH size		425-412	410	425-412	410	425-412	410	425-412	410
Motor size	KBH 100	345	360	365	385	370	385	395	415
	KBH 112	360	375	380	400	385	400	410	430
	KBH 125	375	390	395	415	400	425	425	445
	KBH 140	405	420	425	445	430	455	455	475

Motor type - Main/creep lifting, pole-changing F 6

Main hoist motor size	Code	d	I 1		Cover I 3			
			with hook path					
			H 12	H 20	H 12		H 20	
KBH 112	V 1	220	703	833	short	long	short	long
KBH 125	V 2	246	756	886	546	617	676	747
KBH 140	V 3	274	824	954				

Weights

Mechanical microspeed unit

FG 06 with KBA 71 = 18 kg

FG 08 with KBA 71 = 50 kg

FG 08 with KBA 80 = 55 kg

Motor type - Main hoist and F 10 mechanical microspeed unit

Main hoist motor size	Code	d	g 1	I 1		Cover I 3				Gearbox size	Creep hoist motor size	g 2	a 11	a 12	b 9	I 5		l 6	l 7
				with hook path															
				H 12	H 20	H 12		H 20								H 12	H 20		
KBH 100	V 1	196	181	680	810	short	long	short	long	FG 06	KBA 71	132	212	284	643	836	966	544	437
KBH 112	V 2	220	188	703	833	546	617	676	747	FG 08	KBA 71	141	275	351	710	917	1047	625	484
KBH 125	V 3	246	200	756	886					KBA 80						971	1101	697	523

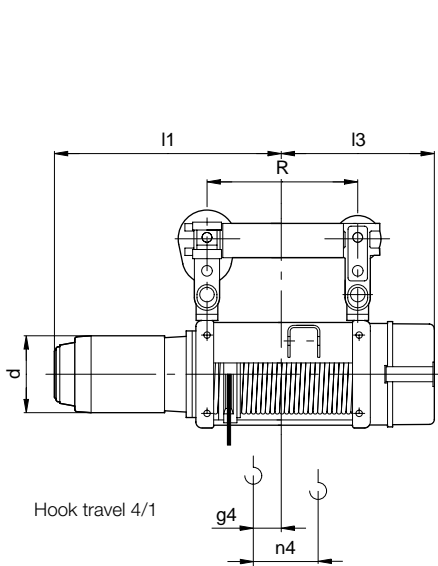
Trolley size 6

UDH 400 standard-headroom monorail hoist, 4/1 rope reeving

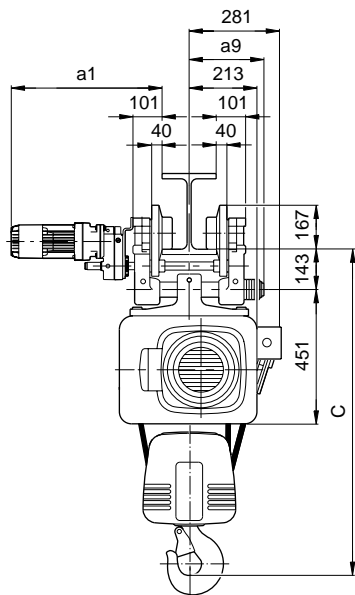
SWL 4000 kg – 10000 kg

EUDH

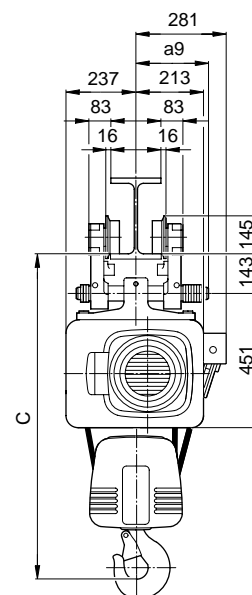
RUDH



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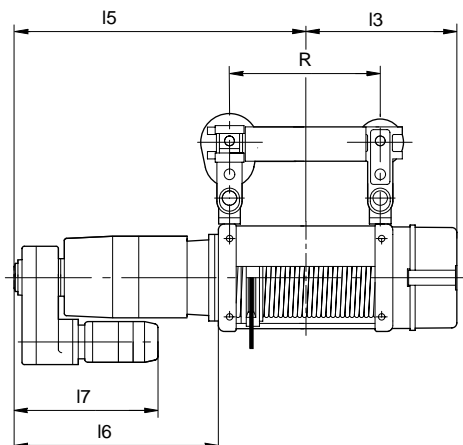


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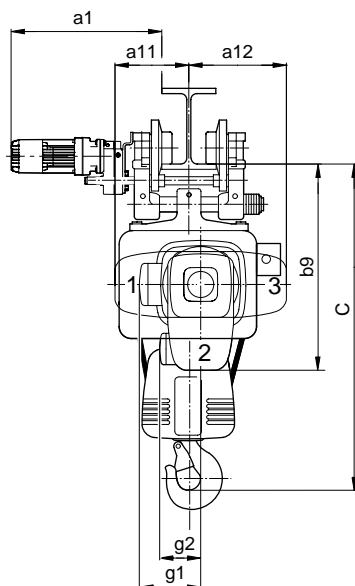


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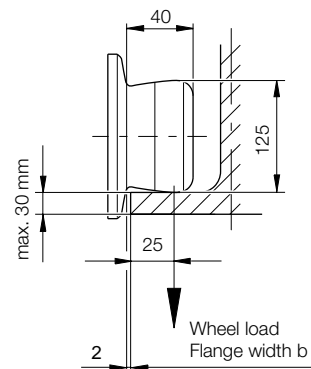
UDH standard-headroom monorail hoist with F 10 mechanical microspeed



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Hook dimensions C from girder running surface

Size	Hook dimensions C with overload cut-off		Hook dimensions C without overload cut-off	
	4/1		4/1	
	with creep lifting	without creep lifting	with creep lifting	without creep lifting
DH 425-412	1140	1160	1080	1100
DH 410	1210		1150	

Hoist unit

Range	Rope reeving			Drive			Wheel base	Smallest curve radius	Connecting rods for				
	4/1			Direct drive					Flange width b	max.			
	Hook path	Hook travel		AMK 10-DD ZBF 63 A	AMK 10-DD ZBF 71 A	AMK 10-DD ZBF 80 A					AUK 30-DD ZBF 90 B	AUK 30-DD ZBF 100 A	
	m	g 4	n 4	a 1			R	m	mm	a 9			
DH 400	H 12	6	23,5	96	557	557	613	656	656	520	5,5	119-165	238
	H 20	10	153	161						780	8	166-245	295
												246-305	315

Trolley size 6

EUDH standard-headroom monorail hoist with a single drive

SWL	Size	Travel drive			
		Travel speed in approx. m/min			
		400 V, 50 Hz			
		12,5 1)	20 1)	31,5 1)	40 1)
kg		3,1/12,5	5/20	8/31,5	10/40
4000	DH 410	AMK 10-DD ZBF 63 A 8/2-B003 40% CDF 0,06/0,25 kW i = 25,7 17 kg	AMK 10-DD ZBF 71 A 8/2-B003 40% CDF 0,09/0,34 kW i = 15,7 18 kg	AMK 10-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 10,5 26 kg	AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 7,78 44 kg
5000	DH 412				
6300	DH 416			AMK 10-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 15,7 26 kg	
8000	DH 420	AMK 10-DD ZBF 71 A 8/2-B003 40% CDF 0,09/0,34 kW i = 25,7 18 kg	AUK 30-DD ZBF 100 A 8/2-B050 40% CDF 0,29/1,2 kW i = 7,78 44 kg		
10000	DH 425			AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 15,7 44 kg	

1) Only the 2-pole winding is connected for single speed drives.

Trolley can be supplied with

Conical travel wheels: for track girders with inclined flange surfaces

Cylindrical travel wheels: for track girders with parallel flange surfaces

Weights (kg)

Rope reeving		4/1		4/1	
Hook path		H 12		H 20	
DH size		425-412	410	425-412	410
	KBH 100	340	380	370	410
	KBH 112	355	395	385	425
Motor size	KBH 125	370	410	400	440
	KBH 140	400	440	430	470

Weights

Mechanical microspeed unit

FG 06 with KBA 71 = 18 kg

FG 08 with KBA 71 = 50 kg

FG 08 with KBA 80 = 55 kg

Motor type – Main/creep lifting, pole-changing F 6

Main hoist motor size	Code	d	I 1		Cover I 3			
			with hook path					
			H 12	H 20	H 12		H 20	
KBH 112	V 1	220	703	833	short	long	short	long
KBH 125	V 2	246	756	886	546	617	676	747
KBH 140	V 3	274	824	954				

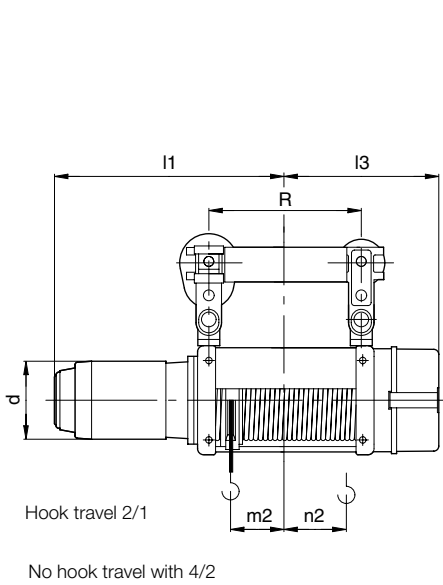
Motor type – Main hoist and F 10 mechanical microspeed unit

Main hoist motor size	Code	d	g 1	I 1		Cover I 3				Gearbox size	Creep hoist motor size	g 2	a 11	a 12	b 9	I 5					
				with hook path												with hook path		I 6	I 7		
				H 12	H 20	H 12		H 20								H 12	H 20				
KBH 100	V 1	196	181	680	810	short	long	short	long	FG 06	KBA 71	132	237	259	665	836	966	544	437		
KBH 112	V 2	220	188	703	833	546	617	676	747	FG 08	KBA 71		300	326	732	917	1047	625	484		
KBH 125	V 3	246	200	756	886						KBA 80	141				971	1101	697	523		

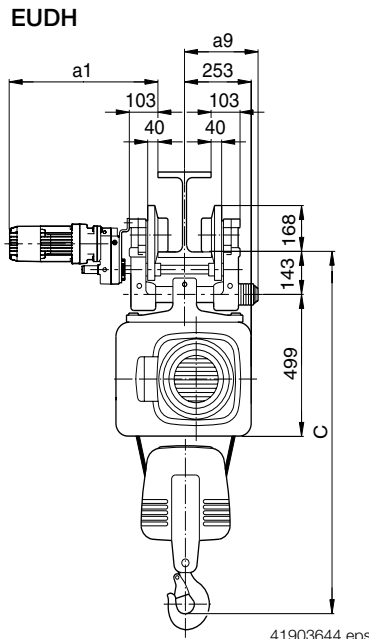
Trolley size 6

UDH 500 standard-headroom monorail hoist, 2/1 and 4/2 rope reeving

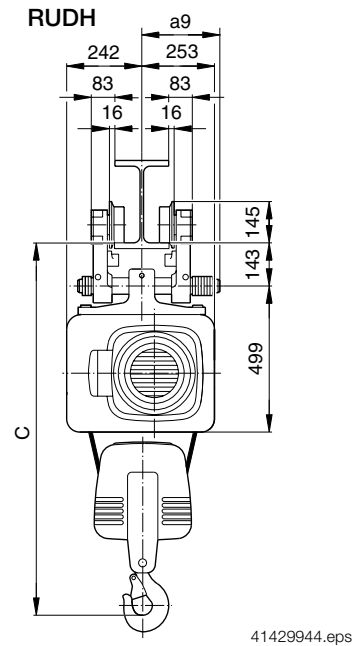
SWL 2500 kg – 6300 kg



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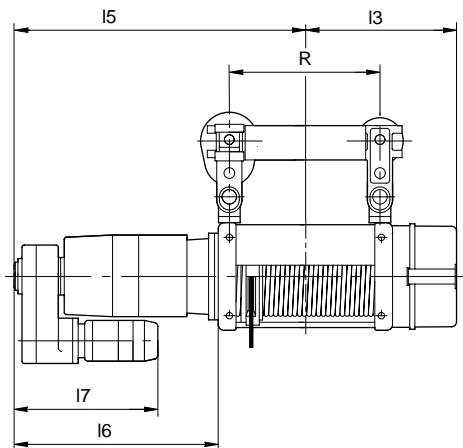


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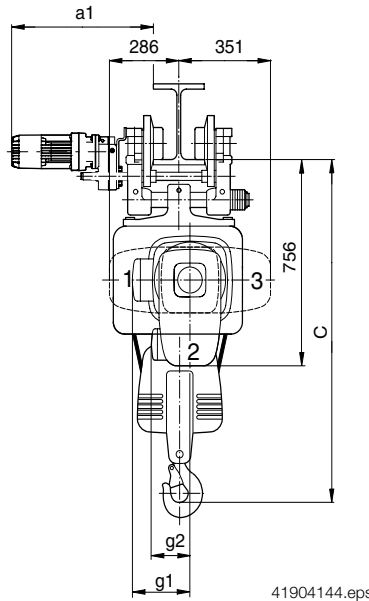


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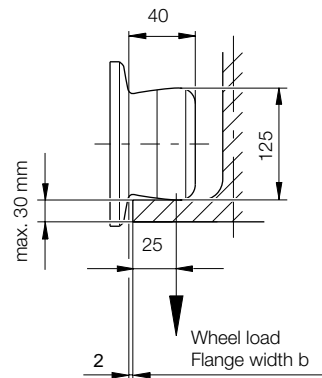
UDH standard-headroom monorail hoist with F 10 mechanical microspeed



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Hook dimensions C from girder running surface

Size	Hook dimensions C with overload cut-off				Hook dimensions C without overload cut-off			
	2/1		4/2		2/1		4/2	
	with creep lifting	without creep lifting	with creep lifting	without creep lifting	with creep lifting	without creep lifting	with creep lifting	without creep lifting
DH 532-516	1390	1095	1140		1320	1095	1140	
DH 512	1565	1210	1250		1495	1210	1250	

Hoist unit

Range	Rope reeving			Drive				Wheel base	Smallest curve radius	Connecting rods for			
	2/1	4/2	2/1	Direct drive						Flange width b	max.		
	Hook path		Hook travel	AMK 10-DD ZBF 63 A	AMK 10-DD ZBF 71 A	AMK 10-DD ZBF 80 A	AUK 30-DD ZBF 90 B						
	m		m 2	n 2	a 1								
DH 500	H 12	12	5,2	107	103	557	557	613	656	560	6	119-165	238
	H 20	20	10,2	247								166-245	295
										840	8	246-305	315

Trolley size 6

EUDH standard-headroom monorail hoist with a single drive

SWL	Size	Travel drive			
		Travel speed in approx. m/min			
		400 V, 50 Hz			
		12,5 1)	20 1)	31,5 1)	40 1)
kg		3,1/12,5	5/20	8/31,5	10/40
2500	DH 512	AMK 10-DD ZBF 63 A 8/2-B003 40% CDF 0,06/0,25 kW i = 15,7 17 kg	AMK 10-DD ZBF 63 A 8/2-B003 40% CDF 0,06/0,25 kW i = 15,7 17 kg	AMK10-DD ZBF 71 A 8/2-B003 40% CDF 0,09/0,34 kW i = 10,5 18 kg	AMK 10-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 8,32 26 kg
3200	DH 516				
4000	DH 520		AMK 10-DD ZBF 71 A 8/2-B003 40% CDF 0,09/0,34 kW i = 15,7 18 kg	AMK 10-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 10,5 26 kg	AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 7,78 44 kg
5000	DH 525			AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 10,1 44 kg	
6300	DH 532		AMK 10-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 15,7 26 kg		

1) Only the 2-pole winding is connected for single speed drives.

Trolley can be supplied with

Conical travel wheels: for track girders with inclined flange surfaces

Cylindrical travel wheels: for track girders with parallel flange surfaces

Weights (kg)

Rope reeving	2/1		4/2		2/1		4/2		
Hook path	H 12				H 20				
DH size	532-516	512	532-516	512	532-516	512	532-516	512	
Motor size	KBH 112	405	445	420	455	450	490	450	485
	KBH 125	425	465	440	475	470	510	470	505
	KBH 140	455	495	470	505	500	540	500	535
	KBH 160	525	565	540	575	570	600	570	605

Motor type – Main/creep lifting, pole-changing F 6

Motor size	Code	d	I 1		Cover I 3			
			with hook path					
			H 12	H 20	H 12		H 20	
KBH 125	V1	246	774	914	short	long	short	long
KBH 140	V2	274	842	982	571	642	711	782
KBH 160	V3	314	924	1064				

Weights

Mechanical microspeed unit

FG 08 with KBA 71 = 50 kg

FG 08 with KBA 80 = 55 kg

Motor type – Main hoist and F 10 mechanical microspeed unit

Main hoist motor size	Code	d	g 1	I 1		Cover I 3				Gearbox size	Creep hoist motor size	g 2	I 5		I 6	I 7
				with hook path												
				H 12	H 20	H 12		H 20					H 12	H 20		
KBH 112	V1	220	188	717	857	short	long	short	long	FG 08	KBA 71	132	931	1071	614	484
KBH 125	V2	246	200	774	914	571	642	711	782		KBA 80	141	989	1129	672	523
KBH 140	V3	274	229	842	982						KBA 80		1052	1192	735	

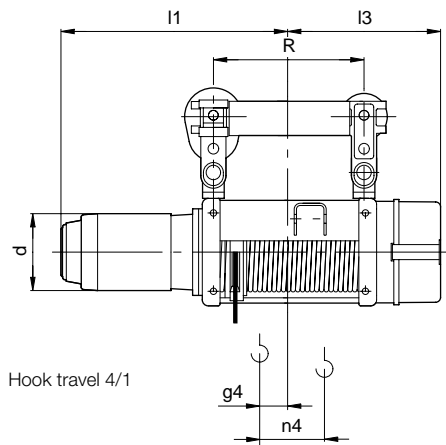
Trolley size 10

UDH 500 standard-headroom monorail hoist, 4/1 rope reeving

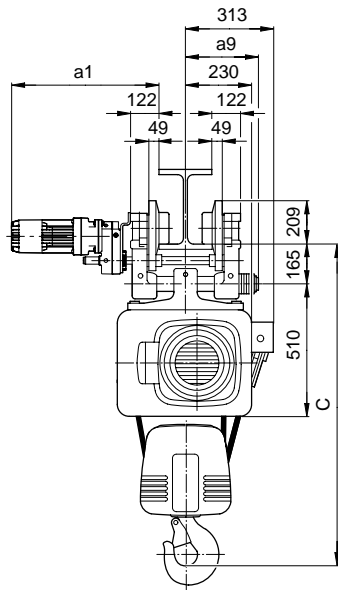
SWL 5000 kg – 12500 kg

EUDH

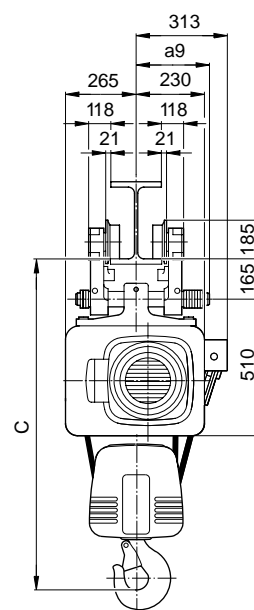
RUDH



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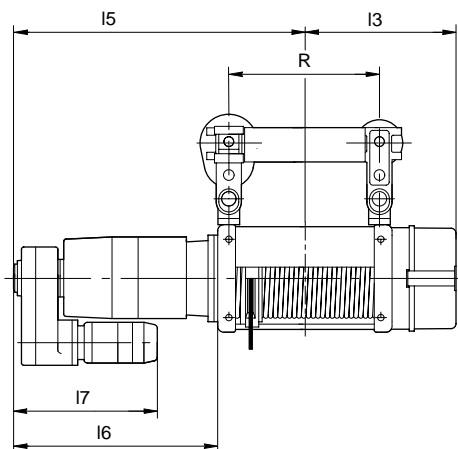


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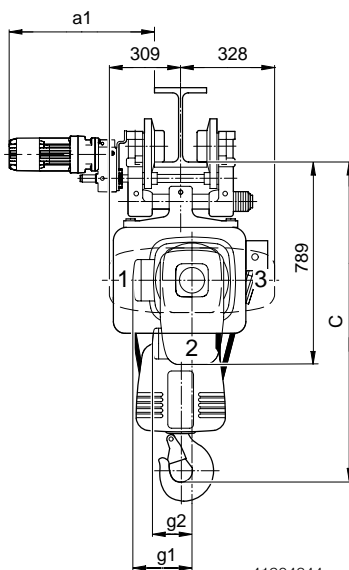


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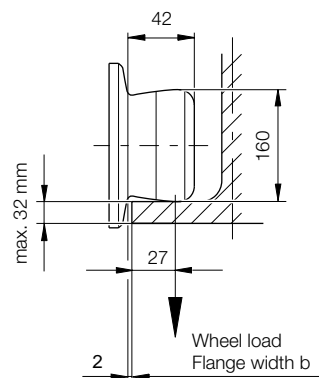
UDH standard-headroom monorail hoist with F 10 mechanical microspeed



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Hook dimensions C from girder running surface

Size	Hook dimensions C with overload cut-off		Hook dimensions C without overload cut-off	
	4/1		4/1	
	with creep lifting	without creep lifting	with creep lifting	without creep lifting
DH 532-516	1305	1325	1235	1255
DH 512	1525		1455	

Hoist unit

Range	Rope reeving			Drive				Wheel base	Smallest curve radius	Connecting rods for		
	4/1			Direct drive						m	mm	a 9
	Hook path	Hook travel		AMK 20-DD ZBF 63/71 A	AMK 20-DD ZBF 80 A	AUK 30-DD ZBF 90 B	AUK 30-DD ZBF 100 A					
	m	g 4	n 4	a 1				R				
DH 500	H 12	6	6	105	594	650	680	680	560	6	149-225	329
	H 20	10	160	175					840	8,5	226-305	371

Trolley size 10

EUDH standard-headroom monorail hoist with a single drive

SWL	Size	Travel drive			
		Travel speed in approx. m/min			
		400 V, 50 Hz			
		12,5 1)	20 1)	31,5 1)	40 1)
kg	3,1/12,5	5/20	8/31,5	10/40	
5000	DH 512	AMK 20-DD ZBF 63 A 8/2-B003 40% CDF 0,06/0,25 kW i = 25,3 18 kg	AMK 20-DD ZBF 71 A 8/2-B003 40% CDF 0,09/0,34 kW i = 16,4 19 kg	AMK 20-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 9,95 27 kg	AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 7,78 44 kg
6300	DH 516		AMK 20-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 16,4 27 kg	AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 10,1 44 kg	
8000	DH 520				
10000	DH 525		AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 15,7 44 kg	2x AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 7,78 44 kg	
12500	DH 532				

1) Only the 2-pole winding is connected for single speed drives.

Trolley can be supplied with

Conical travel wheels: for track girders with inclined flange surfaces

Cylindrical travel wheels: for track girders with parallel flange surfaces

Weights (kg)

Rope reeving		4/1		4/1	
Hook path		H 12		H 20	
DH size		532-516	512	532-516	512
Motor size	KBH 112	570	645	600	675
	KBH 125	590	665	620	695
	KBH 140	620	695	650	725
	KBH 160	690	765	720	795

Weights

Mechanical microspeed unit

FG 08 with KBA 71 = 50 kg

FG 08 with KBA 80 = 55 kg

Motor type – Main/creep lifting, pole-changing F 6

Motor size	Code	d	I 1		Cover I 3			
			with hook path					
			H 12	H 20	H 12		H 20	
KBH 125	V1	246	774	914	short	long	short	long
KBH 140	V2	274	842	982				
KBH 160	V3	314	924	1064				

Motor type – Main hoist and F 10 mechanical microspeed unit

Main hoist motor size	Code	d	g 1	I 1		Cover I 3				Gearbox size	Creep hoist motor size	g 2	I 5		I 6	I 7							
				with hook path																			
				H 12	H 20	H 12		H 20					H 12	H 20									
KBH 112	V1	220	188	717	857	short	long	short	long	FG 08	KBA 71	132	931	1071	614	484							
KBH 125	V2	246	200	774	914								571	642			711	782	141	989	1129	672	523
KBH 140	V3	274	229	842	982															1052	1192		

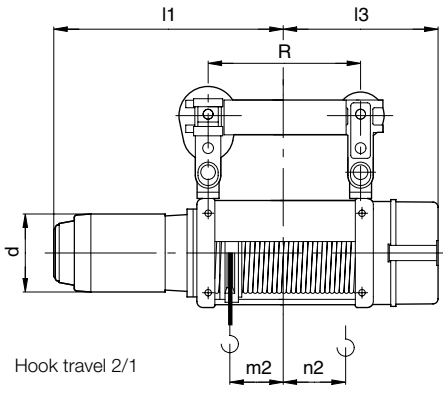
Trolley size 6

UDH 600 standard-headroom monorail hoist, 2/1 and 4/2 rope reeving

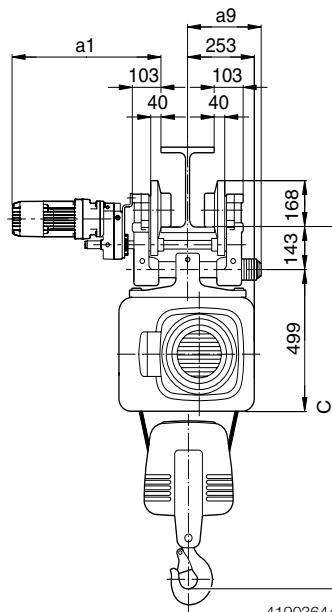
SWL 3200 kg – 8000 kg

EUDH

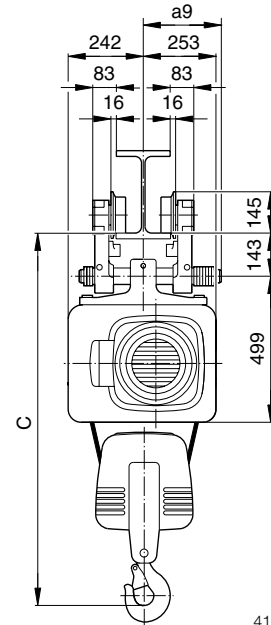
RUDH



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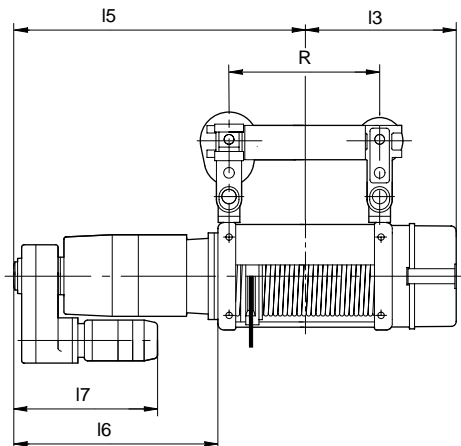


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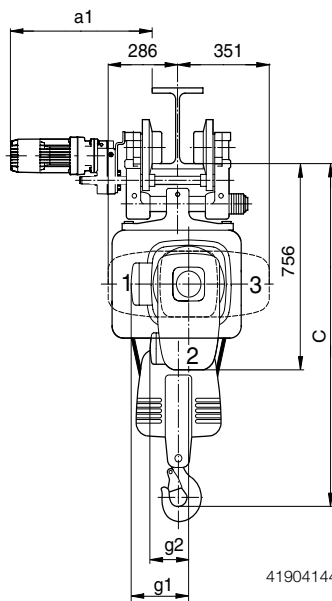


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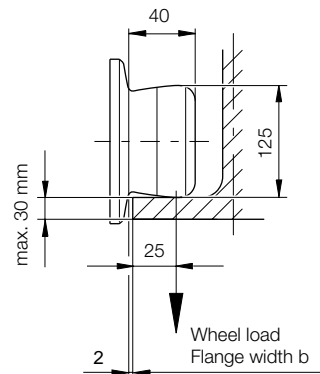
UDH standard-headroom monorail hoist with F 10 mechanical microspeed



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Hook dimensions C from girder running surface

Size	Hook dimensions C with overload cut-off				Hook dimensions C without overload cut-off			
	2/1		4/2		2/1		4/2	
	with creep lifting	without creep lifting	with creep lifting	without creep lifting	with creep lifting	without creep lifting	with creep lifting	without creep lifting
DH 640-620	1390	1095	1140		1320	1095	1140	
DH 616	1565	1210	1250		1495	1210	1250	

Hoist unit

Range	Rope reeving				Drive				Wheel base	Smallest curve radius	Connecting rods for		
	2/1	4/2	2/1		Direct drive						Flange width b	max.	
	Hook path		Hook travel		AMK 10-DD ZBF 63/71 A	AMK 10-DD ZBF 80 A	AUK 30-DD ZBF 90 B	AUK 30-DD ZBF 100 A					
	m		m 2	n 2	a 1						R	m	mm
DH 600	H 12	12	5,2	107	103	557	613	656	656	560	6	119-165	238
	H 20	20	10,2	247						840	8	166-245	295

Trolley size 6

EUDH standard-headroom monorail hoist with a single drive

SWL	Size	Travel drive				
		Travel speed in approx. m/min				
		400 V, 50 Hz				
kg		12,5 1)	20 1)	31,5 1)	40 1)	
		3,1/12,5	5/20	8/31,5	10/40	
3200	DH 616	AMK 10-DD ZBF 63 A 8/2-B003 40% CDF 0,06/0,25 kW i = 25,7 17 kg	AMK 10-DD ZBF 71 A 8/2-B003 40% CDF 0,09/0,34 kW i = 15,7 18 kg	AMK 10-DD ZBF 71 A 8/2-B003 40% CDF 0,09/0,34 kW i = 10,5 18 kg	AMK 10-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 8,32 26 kg	
4000	DH 620			AMK 10-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 10,5 26 kg	AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 7,78 44 kg	
5000	DH 625			AMK 10-DD ZBF 80 A 8/2-B020 40% CDF 0,2/0,8 kW i = 10,1 44 kg		AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 7,78 44 kg
6300	DH 632					
8000	DH 640			AMK 10-DD ZBF 71 A 8/2-B003 40% CDF 0,09/0,34 kW i = 25,7 18 kg	AUK 30-DD ZBF 100 A 8/2-B050 40% CDF 0,29/1,2 kW i = 7,78 44 kg	

1) Only the 2-pole winding is connected for single speed drives.

Trolley can be supplied with

Conical travel wheels: for track girders with inclined flange surfaces

Cylindrical travel wheels: for track girders with parallel flange surfaces

Weights (kg)

Rope reeving	2/1		4/2		2/1		4/2		
Hook path	H 12				H 20				
DH size	640-620	616	640-620	616	640-620	616	640-620	616	
Motor size	KBH 112	405	445	420	455	450	490	450	485
	KBH 125	425	465	440	475	470	510	470	505
	KBH 140	455	495	470	505	500	540	500	535
	KBH 160	525	565	540	575	570	600	570	605

Motor type – Main/creep lifting, pole-changing F 6

Motor size	Code	d	I 1		Cover I 3			
			with hook path					
			H 12	H 20	H 12		H 20	
KBH 125	V1	246	774	914	short	long	short	long
KBH 140	V2	274	842	982	571	642	711	782
KBH 160	V3	314	924	1064				

Weights

Mechanical microspeed unit

FG 08 with KBA 71 = 50 kg

FG 08 with KBA 80 = 55 kg

Motor type – Main hoist and F 10 mechanical microspeed unit

Main hoist motor size	Code	d	g 1	I 1		Cover I 3				Gearbox size	Creep hoist motor size	g 2	I 5		I 6	I 7
				with hook path												
				H 12	H 20	H 12		H 20					H 12	H 20		
KBH 112	V1	220	188	717	857	short	long	short	long	FG 08	KBA 71	132	931	1071	614	484
KBH 125	V2	246	200	774	914	571	642	711	782		KBA 80	141	989	1129	672	523
KBH 140	V3	274	229	842	982						1052		1192	735		

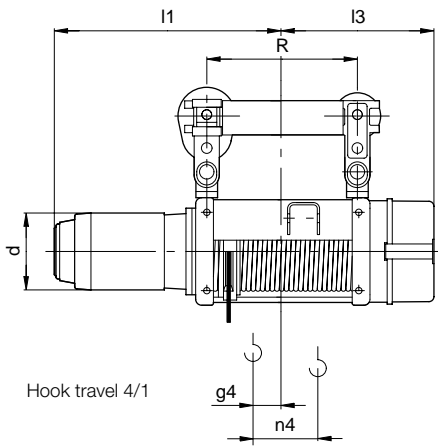
Trolley size 10

UDH 600 standard-headroom monorail hoist, 4/1 rope reeving

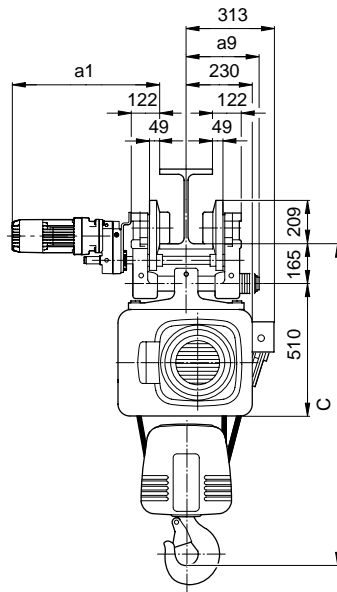
SWL 6300 kg – 16000 kg

EUDH

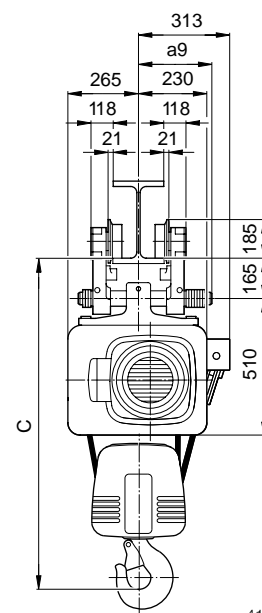
RUDH



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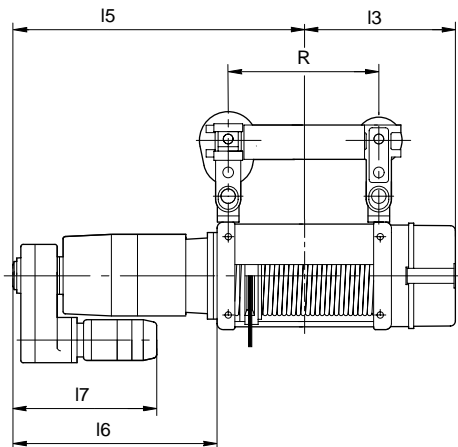


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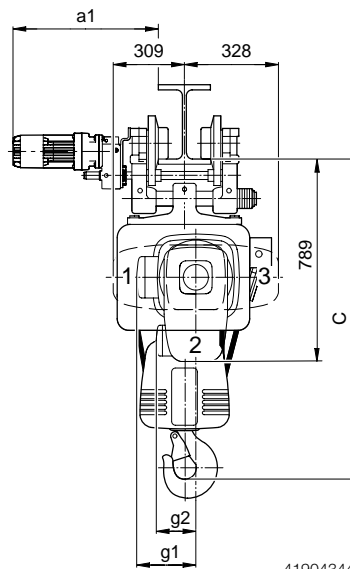


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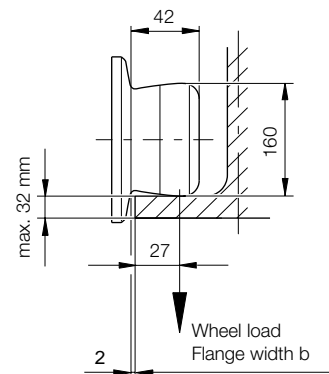
UDH standard-headroom monorail hoist with F 10 mechanical microspeed



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Hook dimensions C from girder running surface

Size	Hook dimensions C with overload cut-off		Hook dimensions C without overload cut-off	
	4/1		4/1	
	with creep lifting	without creep lifting	with creep lifting	without creep lifting
DH 640-620	1305	1325	1235	1255
DH 616	1525		1455	

Hoist unit

Range	Rope reeving			Drive				Wheel base	Smallest curve radius	Connecting rods for		
	4/1			Direct drive						m	mm	a 9
	Hook path	Hook travel		AMK 20-DD ZBF 63/71 A	AMK 20-DD ZBF 80 A	AUK 30-DD ZBF 90 B	AUK 30-DD ZBF 100 A					
	m	g 4	n 4	a 1				R	m	mm	a 9	
DH 600	H 12	6	6	105	594	650	680	680	560	6	149-225	329
	H 20	10	160	175					840	8,5	226-305	371

Trolley size 10

EUDH standard-headroom monorail hoist with a single drive

SWL	Size	Travel drive			
		Travel speed in approx. m/min			
		400 V, 50 Hz			
		12,5 1)	20 1)	31,5 1)	40 1)
kg		3,1/12,5	5/20	8/31,5	10/40
6300	DH 616	AMK 20-DD ZBF 63 A 8/2-B003 40% CDF 0,06/0,25 kW i = 25,3 18 kg	AMK 20-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 16,4 27 kg	AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 10,1 44 kg	AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 7,78 44 kg
8000	DH 620	AMK 20-DD ZBF 71 A 8/2-B003 40% CDF 0,09/0,34 kW i = 25,3 19 kg			AUK 30-DD ZBF 100 A 8/2-B050 40% CDF 0,29/1,2 kW i = 7,78 44 kg
10000	DH 625		AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 15,7 44 kg	AUK 30-DD ZBF 100 A 8/2-B050 40% CDF 0,29/1,2 kW i = 7,78 44 kg	
12500	DH 632	AMK 20-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 25,3 27 kg		2x AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 7,78 44 kg	
16000	DH 640		2x AUK 30-DD ZBF 100 A 8/2-B050 40% CDF 0,29/1,2 kW i = 7,78 44 kg		

1) Only the 2-pole winding is connected for single speed drives.

Trolley can be supplied with

Conical travel wheels: for track girders with inclined flange surfaces

Cylindrical travel wheels: for track girders with parallel flange surfaces

Weights (kg)

Rope reeving		4/1		4/1	
Hook path		H 12		H 20	
DH size		640-620	616	640-620	616
Motor size	KBH 112	570	645	600	675
	KBH 125	590	665	620	695
	KBH 140	620	695	650	725
	KBH 160	690	765	720	795

Weights

Mechanical microspeed unit

FG 08 with KBA 71 = 50 kg

FG 08 with KBA 80 = 55 kg

Motor type – Main/creep lifting, pole-changing F 6

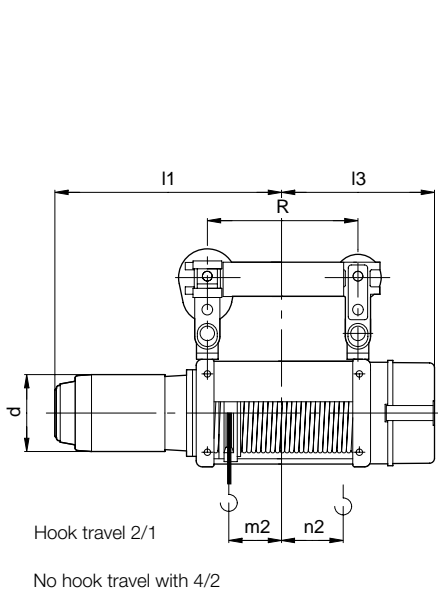
Motor size	Code	d	I 1		Cover I 3			
			with hook path					
			H 12	H 20	H 12		H 20	
KBH 125	V1	246	774	914	short	long	short	long
KBH 140	V2	274	842	982	571	642	711	782
KBH 160	V3	314	924	1064				

Motor type – Main hoist and F 10 mechanical microspeed unit

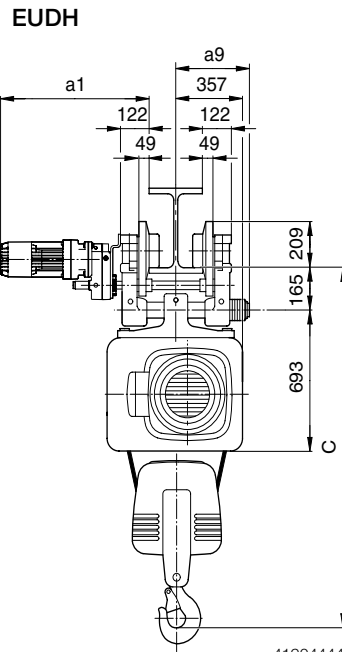
Main hoist motor size	Code	d	g 1	I 1		Cover I 3				Gearbox size	Creep hoist motor size	g 2	I 5		I 6	I 7
				with hook path												
				H 12	H 20	H 12		H 20					H 12	H 20		
KBH 112	V1	220	188	717	857	short	long	short	long	FG 08	KBA 71	132	931	1071	614	484
KBH 125	V2	246	200	774	914	571	642	711	782		KBA 80	141	989	1129	672	523
KBH 140	V3	274	229	842	982						KBA 80		1052	1192	735	

Trolley size 10

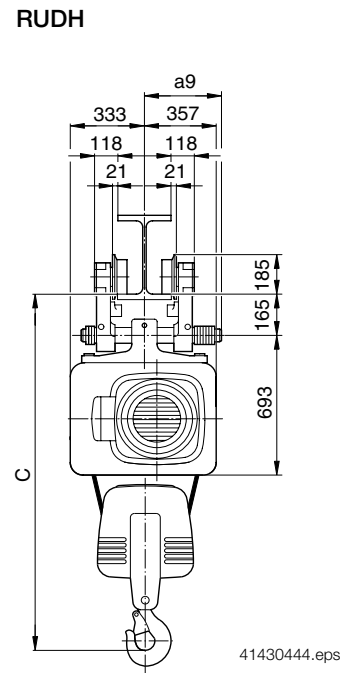
UDH 1000 standard-headroom monorail hoist, 2/1 and 4/2 rope reeving
 SWL 5000 kg – 12500 kg



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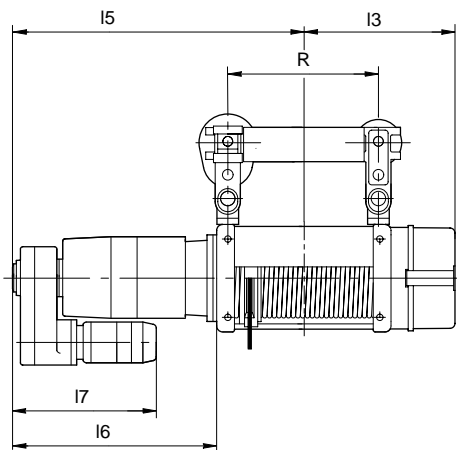


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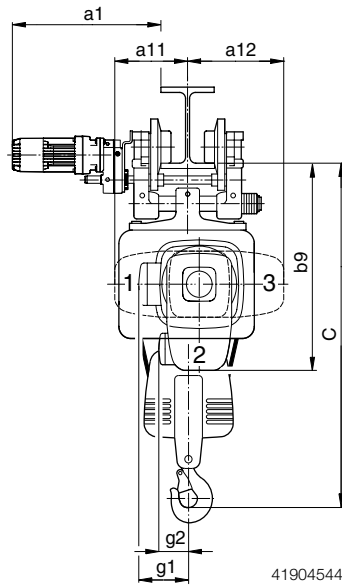


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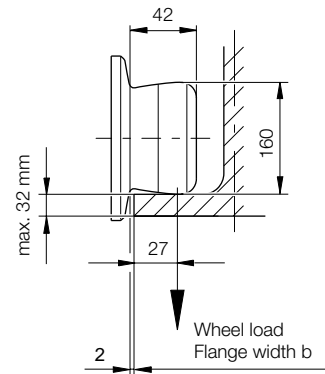
UDH standard-headroom monorail hoist with F 10 mechanical microspeed



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Hook dimensions C from girder running surface

Size	Hook dimensions C with overload cut-off				Hook dimensions C without overload cut-off			
	2/1		4/2		2/1		4/2	
	with creep lifting	without creep lifting	with creep lifting	without creep lifting	with creep lifting	without creep lifting	with creep lifting	without creep lifting
DH 1063-1032	1750	1795	1420	1460	1670	1715	1420	1460
DH 1025	1920	1965	2020	2065	1840	1885	2020	2065

Hoist unit

Range	Rope reeving				Drive				Wheel base	Smallest curve radius	Connecting rods for		
	2/1	4/2	2/1		Direct drive						Flange width b	max.	
	Hook path		Hook travel		AMK 20-DD ZBF 63/71 A	AMK 20-DD ZBF 80 A	AUK 30-DD ZBF 90 B	AUK 30-DD ZBF 100 A					
	m		m 2	n 2	a 1						R	m	mm
DH 1000	H 16	16	8	182	101	594	650	680	680	780	6	149-225 226-305	329 371
	H 24	24	13,5	317						1050	8		
	H 40	40	24,8	592						1600	12		

Trolley size 10

EUDH standard-headroom monorail hoist with a single drive

SWL	Size	Travel drive			
		Travel speed in approx. m/min			
		400 V, 50 Hz			
		12,5 1)	20 1)	31,5 1)	40 1)
kg		3,1/12,5	5/20	8/31,5	10/40
5000	DH 1025	AMK 20-DD ZBF 63 A 8/2-B003 40% CDF 0,06/0,25 kW i = 25,3 18 kg	AMK 20-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 16,4 27 kg	AMK 20-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 9,95 27 kg	AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 7,78 44 kg
6300	DH 1032			AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 10,1 44 kg	
8000	DH 1040	AMK 20-DD ZBF 71 A 8/2-B003 40% CDF 0,09/0,34 kW i = 25,3 19 kg	AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 15,7 44 kg	AUK 30-DD ZBF 100 A 8/2-B050 40% CDF 0,29/1,2 kW i = 10,1 44 kg	AUK 30-DD ZBF 100 B 8/2-B050 40% CDF 0,29/1,2 kW i = 7,78 44 kg
10000	DH 1050				
12500	DH 1063	AMK 20-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 25,3 27 kg		AUK 30-DD ZBF 100 A 8/2-B050 40% CDF 0,29/1,2 kW i = 10,1 44 kg	2x AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 7,78 44 kg

1) Only the 2-pole winding is connected for single speed drives.

Trolley can be supplied with

Conical travel wheels: for track girders with inclined flange surfaces

Cylindrical travel wheels: for track girders with parallel flange surfaces

Weights (kg)

Rope reeving	2/1		4/2		2/1		4/2		2/1		4/2	
Hook path	H 16 2)		H 16		H 24				H 40			
DH size	1063-1032	1025	1063-1032	1025	1050-1032	1025	1063-1032	1025	1050-1032	1025	1063-1032	1025
KBH 140	890	905	925	970	985	1000	1020	1065	1190	1205	1225	1270
KBH 160	960	975	995	1040	1055	1070	1090	1135	1260	1275	1295	1340
KBH 180	1030	1045	1065	1110	1125	1140	1160	1205	1330	1345	1365	1410
KBH 200	1090	1105	1125	1170	1185	1200	1220	1265	1390	1405	1425	1470

1) DH 1063 only possible in type H16

Motor type – Main/creep lifting, pole-changing F 6

Main hoist motor size	Code	d	I 1			Cover I 3		
			with hook path					
			H 16	H 24	H 40	H 16	H 24	H 40
KBH 160	V 1	314	1052	1187	1462	725	860	1135
KBH 180	V 2	354	1128	1263	1538			
KBH 200	V 3	394	1205	1340	1615			

Weights

Mechanical microspeed unit

FG 08 with KBA 80 = 55 kg

FG 10 with KBA 90 = 160 kg

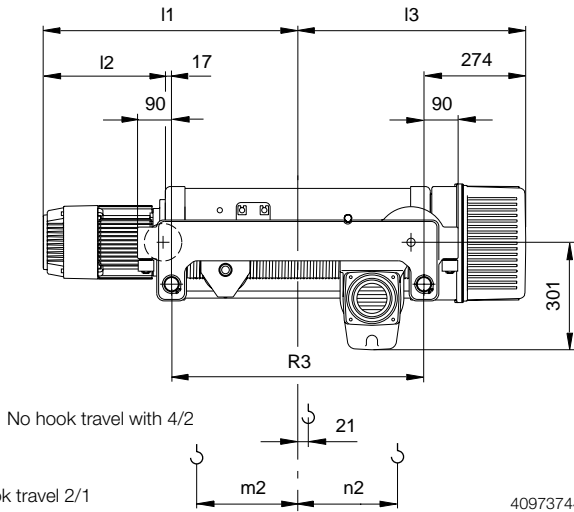
FG 10 with KBA 100 = 186 kg

Motor type – Main hoist and F 10 mechanical microspeed unit

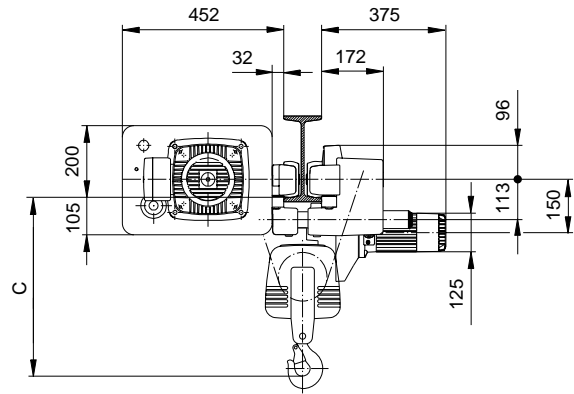
Main hoist motor size	Code	d	g 1	I 1			Cover I 3			Gearbox size	Creep hoist motor size	g 2	a 11	a 12	b 9	I 5			I 6	I 7
				with hook path												with hook path				
				H 16	H 24	H 40	H 16	H 24	H 40							H 16	H 24	H 40		
KBH 140	V 1	274	229	970	1105	1380	725	860	1135	FG 08	KBA 80	141	333	370	891	1180	1315	1590	745	523
KBH 160	V 2	314	247	1032	1187	1462				FG 10	KBA 90	151	396	510	1031	1383	1518	1793	948	665
KBH 200	V 3	394	302	1205	1340	1615				KBA 100	176	1531				1666	1941	1096	702	

Trolley size 3,2

KDH 160 low-headroom monorail hoist, 2/1 and 4/2 rope reeving
 SWL 1000 kg – 1600 kg

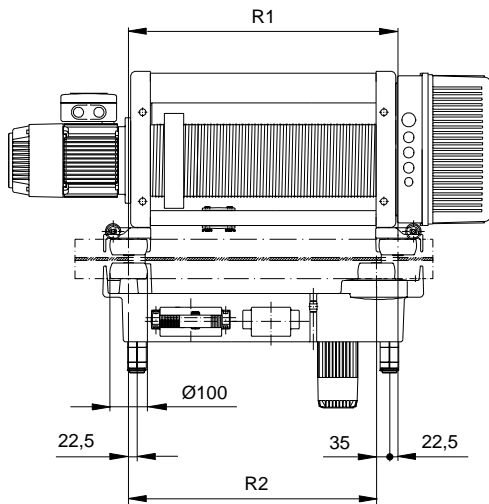


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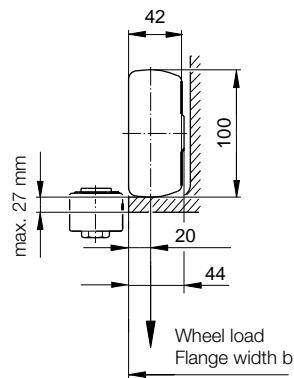


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Pay attention to girder height



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Hook dimension C from girder running surface

KDH 160 low-headroom monorail hoist, 2/1 rope reeving

Flange width b		82-105	106-110	120-140	150	160-180	200	220	240	260	280	300	400
DH 168-165	Creep lifting	Hook dimension C with and without overload cut-off											
	without	530	505	500	495				490			500	590
	with	490	465	460	455				450			460	550

KDH 160 low-headroom monorail hoist, 4/2 rope reeving

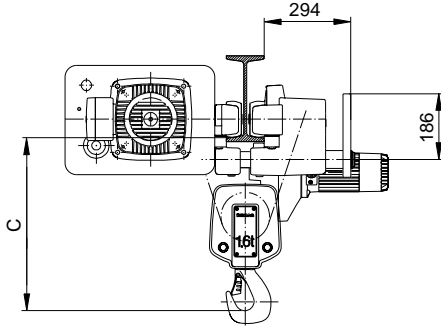
Flange width b		82 - 200				220	240	260	280	300	400
DH 168-165	Creep lifting	Hook dimension C with and without overload cut-off									
	without	430				425	440	460	485	510	660
	with	390				385	400	420	445	470	620

Hoist unit

Range	Rope reeving			Wheel base		Connecting rods	Adjusting range		
	2/1	4/2	2/1	R 1	R 2	R 3			
	Hook path		Hook travel				mm		
	m	m 2	n 2						
DH 160	H 12	12	-	122	52,5	535	477,5	490	82-105 106-200 201-300 301-400
	H 19	19	10,3	217		725	667,5	680	

Trolley size 3,2

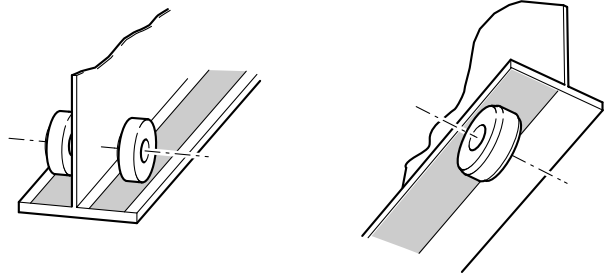
KDH 160 low-headroom monorail hoist for flange width 82 – 105 mm



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Runway

The running surfaces of rails and track beams must only be given a primer coat of 40 μ. A finish coat is detrimental to the running characteristics (see diagram below).



Hatched areas only to be given a primer coat.

Hoist travel on track beams must in no way be obstructed by protruding suspension bolts, screw heads, butt straps, clamping plates, etc.

End stops must be fitted at both ends of the runway.

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Travel speeds

SWL kg	Size DH	Travel drive Possible cross travel speeds in approx. ...m/min				
		7 2)	14	28 1)	7/14	7/28
1000	165	ZBF 71 A 8/2 B003 40 % CDF 0,09/0,34 kW	ZBF 71 A 4 B003 40 % CDF 0,18 kW	ZBF 71 A 8/2 B003 40 % CDF 0,09/0,34 kW	ZBF 71 A 8/4 B003 40 % CDF 0,09/0,18 kW	ZBF 71 A 8/2 B003 40 % CDF 0,09/0,34 kW
1250	166					
1600	168					

- 1) Only the 2-pole winding is connected for single speed drives.
- 2) Only the 8-pole winding is connected for single speed drives.

Weights (kg)

	2/1	2/1	4/2
Rope reeving			
Hook path	H 12	H 19	H 19
DH size	168-165	168-165	168-165
Motor size	KMH 90	211	231
	KMH 100	220	250
	KMH 112	240	270

Motor type – Main/creep lifting, pole-changing F 4

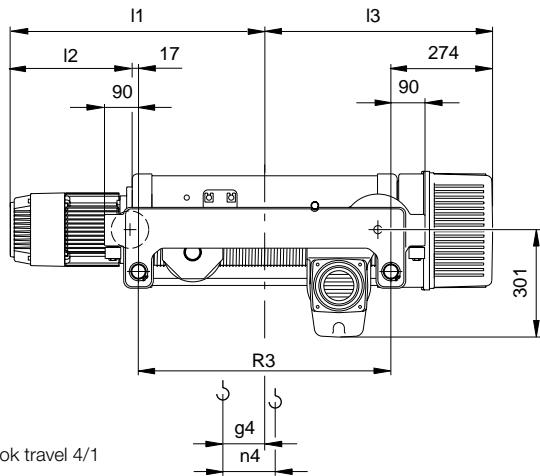
Range	Main hoist motor size	Code	d	I 1		I 3		I 2	
				with hook path					
				H 12	H 19	H 12	H 19		
DH 160	KMH 90	V1	178	568	663	519	613	306	
	KMH 100	V2	198	591	686			329	
	KMH 112	V3	222	632	729	370			

Motor type – Main hoist

Range	Main hoist motor size	Code	d	I 1		I 3		I 2	
				with hook path					
				H 12	H 19	H 12	H 19		
DH 160	KMH 100	V2	198	591	687	519	613	329	

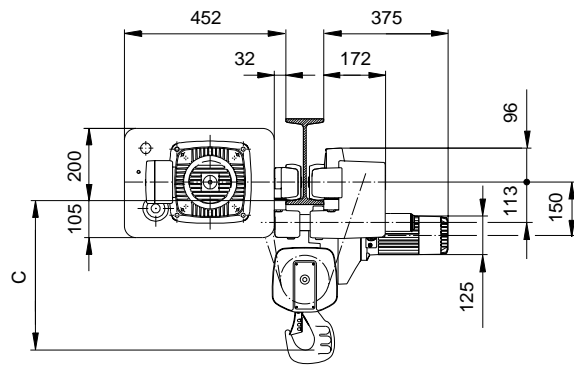
Trolley size 3,2

KDH 160 low-headroom monorail hoist, 4/1 rope reeving
 SWL 2000 kg – 3200 kg



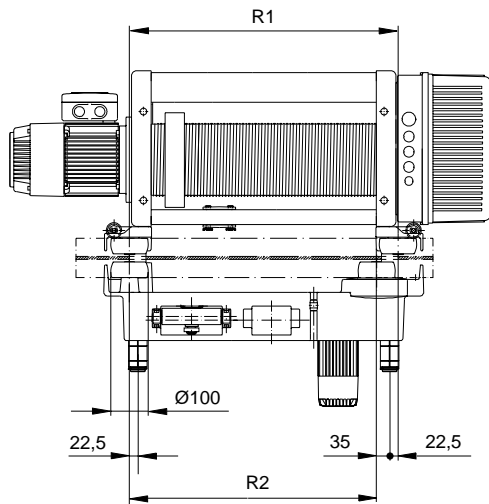
Hook travel 4/1

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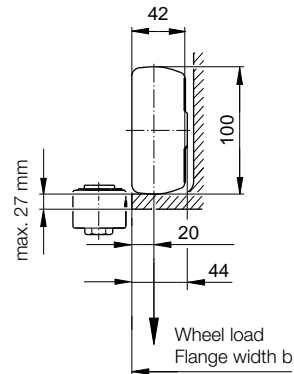
Pay attention to girder height

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Pay attention to girder height



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Hook dimension C from girder running surface

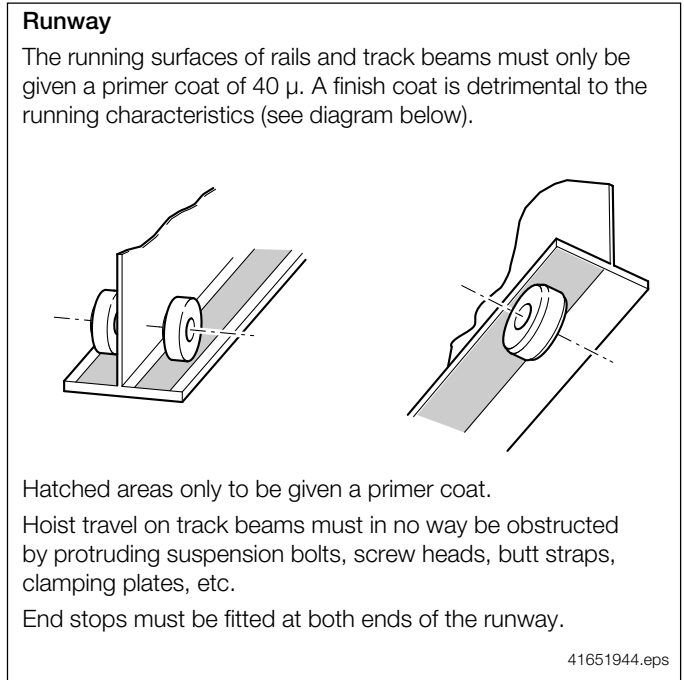
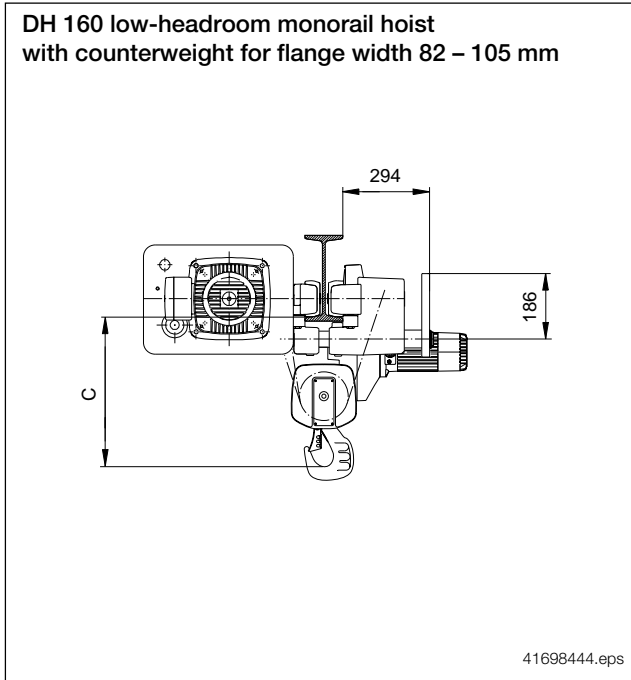
KDH 160 low-headroom monorail hoist, 4/1 rope reeving

Flange width b		82-105	106-110	120-140	150	160-180	200	220	240	260	280	300	400		
Size	Creep lifting	Hook dimension C with and without overload cut-off													
	without						360				370	380	390	400	510
DH 168-165	with						340				350	360	370	380	490

Hoist unit

Range	Rope reeving			Wheel base		Connecting rods	Adjusting range	
	4/1			R 1	R 2	R 3		
	Hook path	Hook travel					Flange width b	
	m	g 4	n 4				mm	
DH 160	H 12	6	95	87	535	477,5	490	82-105
	H 19	9,5	190	135	725	667,5	680	106-200 201-300 301-400

Trolley size 3,2



Travel speeds

		Travel drive				
SWL kg	Size	Possible cross travel speeds in approx. ...m/min				
	DH	7 2)	14	28 1)	7/14	7/28
2000	165	ZBF 71 A 8/2 B003	ZBF 71 A 4 B003	ZBF 71 A 8/2 B003	ZBF 71 A 8/4 B003	ZBF 71 A 8/2 B003
2500	166	40 % CDF 0,09/0,34 kW	40 % CDF 0,18 kW	40 % CDF 0,09/0,34 kW	40 % CDF 0,09/0,18 kW	40 % CDF 0,09/0,34 kW
3200	168					

- 1) Only the 2-pole winding is connected for single speed drives.
2) Only the 8-pole winding is connected for single speed drives.

Weights (kg)

Rope reeving		4/1	
Hook path		H 12	H 19
DH size		168-165	168-165
Motor size	KMH 90	210	230
	KMH 100	230	250
	KMH 112	260	280

Motor type – Main/creep lifting, pole-changing F 4

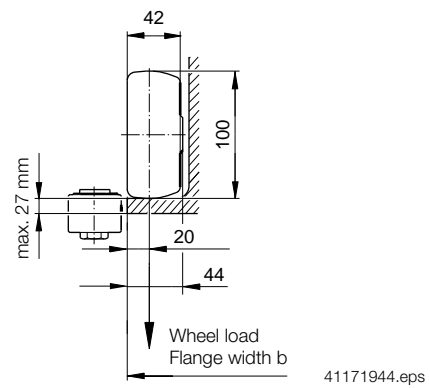
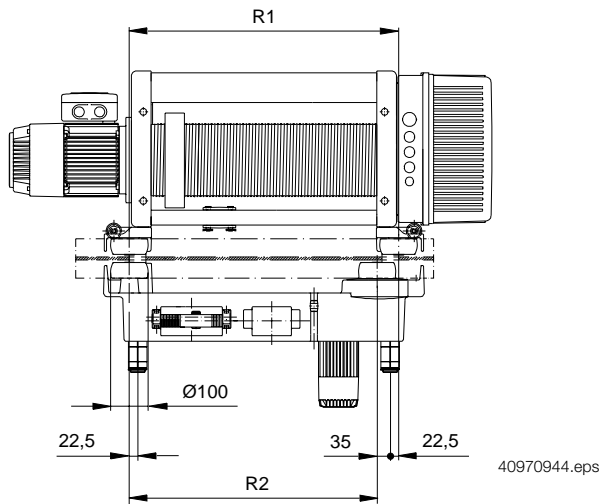
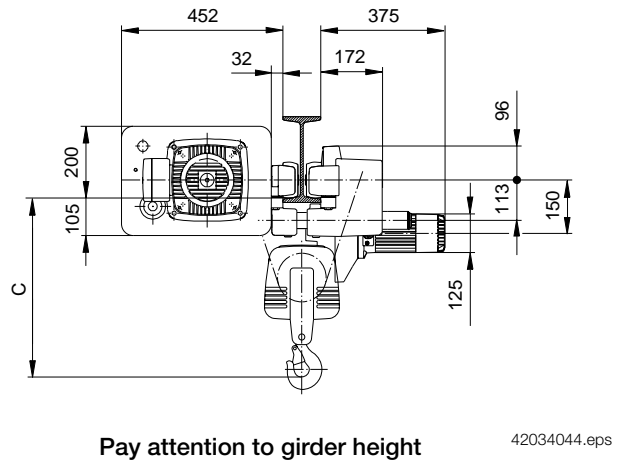
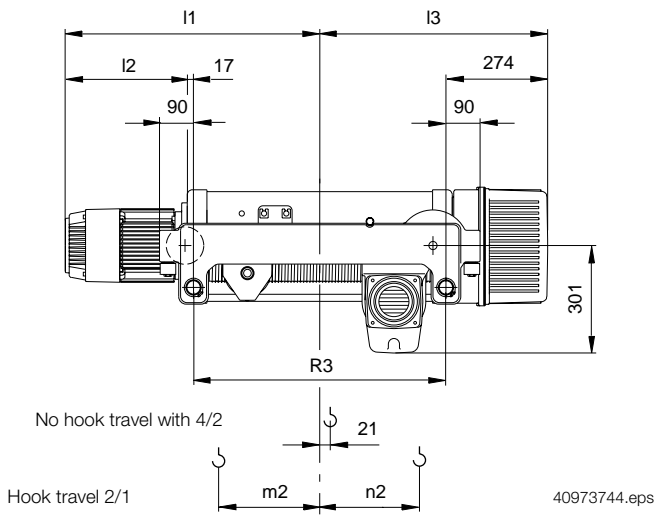
Range	Main hoist motor size	Code	d	I 1		I 3	
				with hook path			
				H 12	H 19	H 12	H 19
DH 160	KMH 90	V1	178	568	663	519	613
	KMH 100	V2	198	591	686		
	KMH 112	V3	222	632	729		

Motor type – Main hoist

Range	Main hoist motor size	Code	d	I 1		I 3	
				with hook path			
				H 12	H 19	H 12	H 19
DH 160	KMH 100	V2	198	591	686	519	613

Trolley size 3,2

KDH 200 low-headroom monorail hoist, 2/1 and 4/2 rope reeving
 SWL 1600 kg – 2500 kg



Hook dimension C from girder running surface

KDH 200 low-headroom monorail hoist, 2/1 rope reeving

Flange width b		82-105	106-110	120-140	150	160-180	200	220	240	260	280	300	400
Size	Creep lifting	Hook dimension C with and without overload cut-off											
DH 212-208	without	535			520			530	550	560	580	650	
	with	495			480			490	510	520	540	610	

KDH 200 low-headroom monorail hoist, 4/2 rope reeving

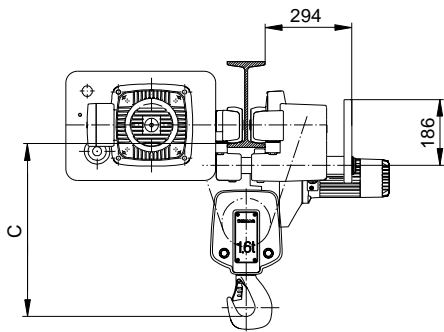
Flange width b		82-200				220	240	260	280	300	400
Size	Creep lifting	Hook dimension C with and without overload cut-off									
DH 212-208	without	430				445	460	480	505	530	660
	with	390				405	420	440	465	490	620

Hoist unit

Range	Rope reeving				Wheel base		Connecting rods	Adjusting range	
	2/1	4/2	2/1		R 1	R 2	R 3	Flange width b	
	Hook path		Hook travel					mm	
	m		m 2	n 2					
DH 200	H 10	10	-	115	46	535	477,5	490	82-105 106-200
	H 16	16	9,1	210	46	725	667,5	680	201-300 301-400

Trolley size 3,2

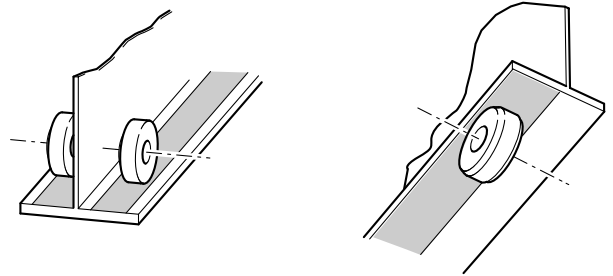
**KDH 200 low-headroom monorail hoist
for flange width 82 – 105 mm**



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Runway

The running surfaces of rails and track beams must only be given a primer coat of 40 μ. A finish coat is detrimental to the running characteristics (see diagram below).



Hatched areas only to be given a primer coat.

Hoist travel on track beams must in no way be obstructed by protruding suspension bolts, screw heads, butt straps, clamping plates, etc.

End stops must be fitted at both ends of the runway.

41651944.eps

Travel speeds

		Travel drive				
SWL kg	Size	Possible cross travel speeds in approx. ...m/min				
	DH	7 2)	14	28 1)	7/14	7/28
1600	208	ZBF 71 A 8/2 B003 40 % CDF 0,09/0.34 kW	ZBF 71 A 4 B003 100 % CDF 0,18 kW	ZBF 71 A 8/2 B003 40 % CDF 0,09/0.34 kW	ZBF 71 A 8/4 B003 40 % CDF 0,09/0,18 kW	ZBF 71 A 8/2 B003 40 % CDF 0,09/0.34 kW
2000	210					
2500	212					

1) Only the 2-pole winding is connected for single speed drives.

2) Only the 8-pole winding is connected for single speed drives.

Weights (kg)

Rope reeving		2/1		4/2
Hook path		H 10	H 16	H 16
DH size		212-208	212-208	212-208
Motor size	KMH 100	215	236	255
	KMH 112	235	256	275

Motor type – Main/creep lifting, pole-changing F 4

Range	Main hoist motor size	Code	d	I 1		I 3		I 2
				with hook path				
				H 10	H 16	H 10	H 16	
DH 200	KMH 100	V1	198	591	686	519	613	329
	KMH 112	V2	222	632	727			370

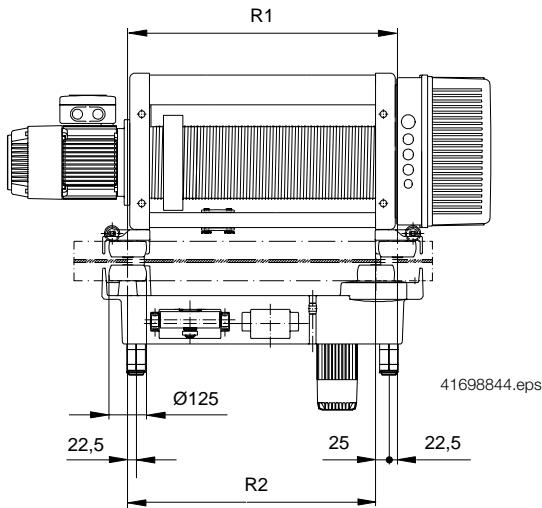
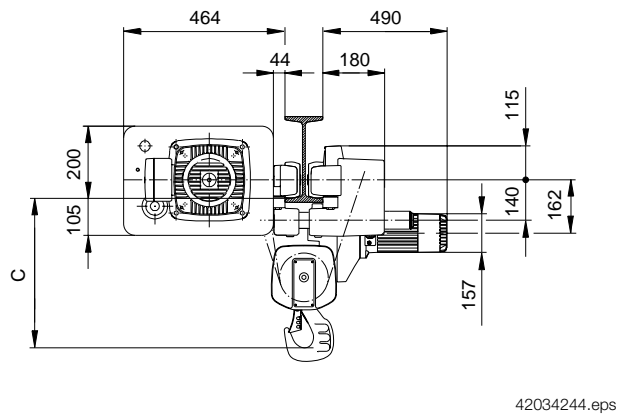
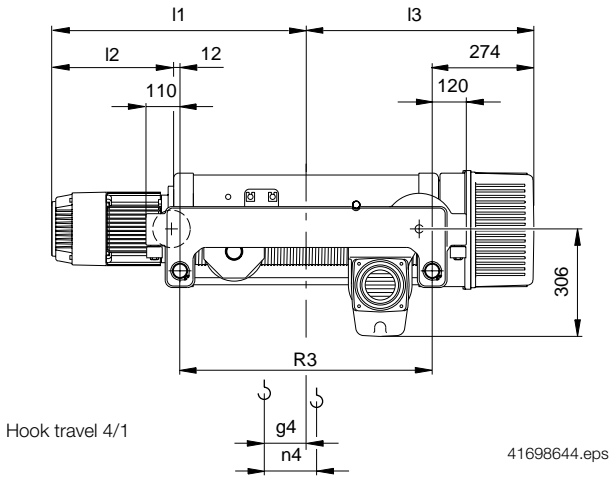
Motor type – Main hoist

Range	Main hoist motor size	Code	d	I 1		I 3		I 2
				with hook path				
				H 10	H 16	H 10	H 16	
DH 200	KMH 100	V1	198	591	686	519	613	329

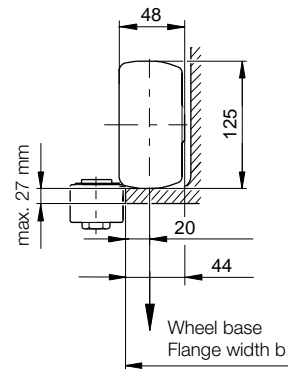
Trolley size 5

KDH 200 low-headroom monorail hoist, 4/1 rope reeving

SWL 3200 kg – 5000 kg



Pay attention to girder height



Hook dimension C from girder running surface

KDH 200 low-headroom monorail hoist, 4/1 rope reeving

Flange width b		105-300	400
Size	Creep lifting	Hook dimension C with and without overload cut-off	
DH 212-208	without	420	510
	with	400	490

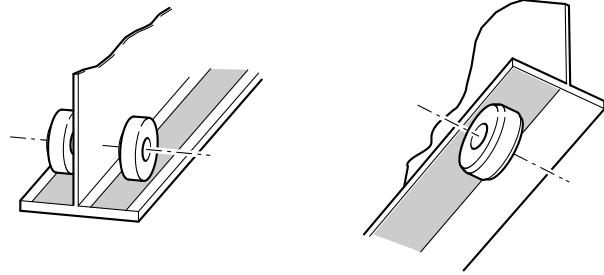
Hoist unit

Range	Rope reeving			Wheel base		Connecting rods	Adjusting range	
	4/1			R 1	R 2	R 3	Flange width b	
	Hook path	Hook travel					mm	
	m	g 4	n 4					
DH 200	H 10	5	77	80	535	487,5	500	106-200
	H 16	8	172	127	725	677,5	690	201-300 301-400

Trolley size 5

Runway

The running surfaces of rails and track beams must only be given a primer coat of 40 μ. A finish coat is detrimental to the running characteristics (see diagram below).



Hatched areas only to be given a primer coat.

Hoist travel on track beams must in no way be obstructed by protruding suspension bolts, screw heads, butt straps, clamping plates, etc.

End stops must be fitted at both ends of the runway.

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Travel speeds

Travel drive						
SWL	Size	Possible cross travel speeds in approx. ...m/min				
kg	DH	12,5	25 1)	4,1/12,5	6,3/19	6,3/25
3200	208	ZBF 80 A 4 B020 40 % ED 0,25 kW	ZBF 80 A 8/2 B020 40 % ED 0,13/0,5 kW	ZBF 80 A 12/4 B020 15/40 % ED 0,06/0,25 kW	ZBF 80 A 12/4 B020 15/40 % ED 0,06/0,25 kW	ZBF 80 A 8/2 B020 40 % ED 0,13/0,5 kW
4000	210				-	
5000	212				-	

1) Only the 2-pole winding is connected for single speed drives.

Weights (kg)

Rope reeving		4/1	
Hook path		H 10	H 16
DH size		212-208	212-208
Motor size	KMH 100	228	248
	KMH 112	258	278

Motor type - Main/creep lifting, pole-changing F 4

Range	Main hoist motor size	Code	d	I 1		I 3	
				with hook path			
				H 10	H 16	H 10	H 16
DH 200	KMH 100	V1	198	591	686	519	613
	KMH 112	V2	222	632	727		

Motor type – Main hoist

Range	Main hoist motor size	Code	d	I 1		I 3	
				with hook path			
				H 10	H 16	H 10	H 16
DH 200	KMH 100	V1	198	591	686	519	613

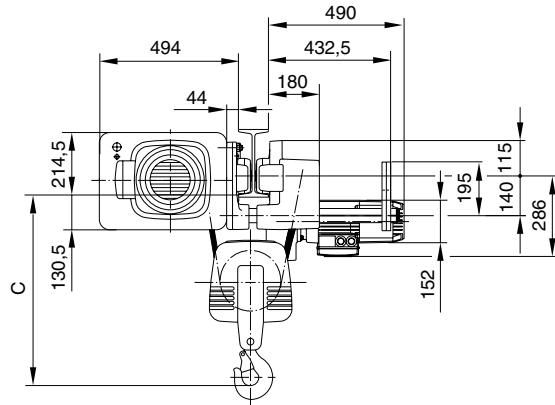
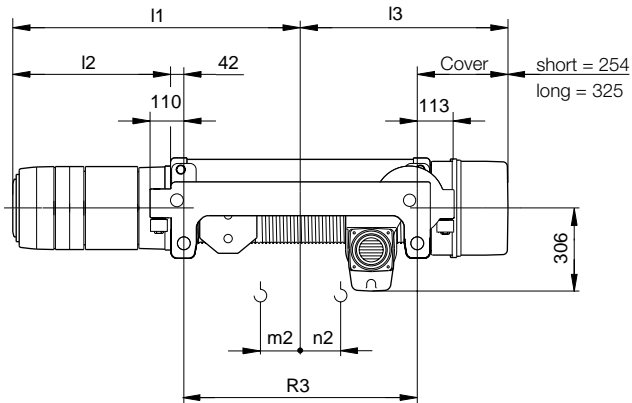
Trolley size 5

KDH 300 low-headroom monorail hoist, for flange width 106 – 200 mm, 2/1 and 4/2 rope reeving

SWL 1600 kg – 4000 kg

For track details see page 79.

EKDH

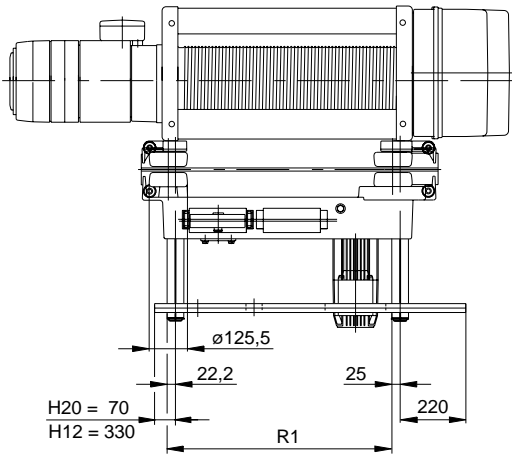


No hook travel with 4/2

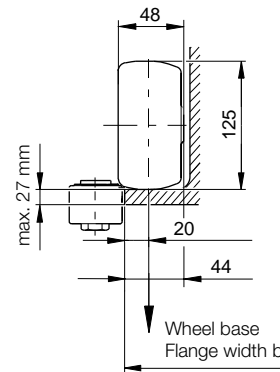
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Pay attention to girder height

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Hook dimension C from girder running surface

KDH 300 low-headroom monorail hoist, 2/1 rope reeving

Flange width b		106-160	180	200	106-160	180	200
Size	Creep lifting	Hook dimension C with overload cut-off			Hook dimension C without overload cut-off		
DH 320-310	without	750			690		
	with	710			650		
DH 308	without	840	830		780	770	
	with	800	790		740	730	

KDH 300 low-headroom monorail hoist, 4/2 rope reeving

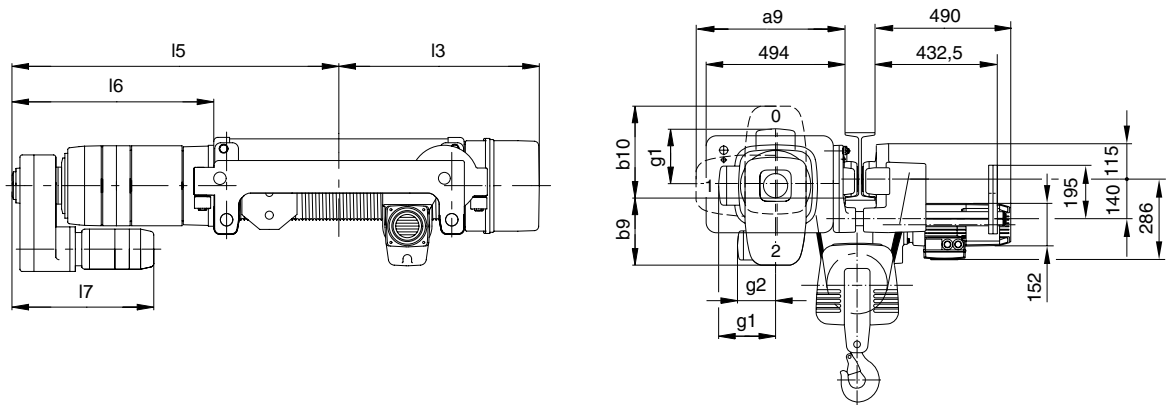
Size	Creep lifting	Hook dimension C with overload cut-off		Hook dimension C without overload cut-off	
DH 320-310	without	690	720	690	720
	with	650	680	650	680
DH 308	without	630	660	630	660
	with	590	640	590	640

Hoist unit

Range	Rope reeving				Wheel base	Connecting rods	Adjusting range	
	2/1	4/2	2/1					
	Hook path		Hook travel					
	m	m 2	n 2					
DH 300	H 12	12	-	147,5	45,5	497,5	500	106-200
	H 20	20	12	277,5	43,5	757,5	760	

Trolley size 5

KDH monorail hoist with F 10 mechanical microspeed unit



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Travel speeds

		Travel drive				
SWL kg	Size	Possible cross travel speeds in approx. ...m/min				
	DH	12,5	25 1)	4,1/12,5	6,3/19	6,3/25
1600	308	ZBF 80 A 4 B020 40 % ED 0,25 kW	ZBF 80 A 8/2 B020 40 % ED 0,13/0,5 kW	ZBF 80 A 12/4 B020 15/40 % ED 0,06/0,25 kW	ZBF 80 A 12/4 B020 15/40 % ED 0,06/0,25 kW	ZBF 80 A 8/2 B020 40 % ED 0,13/0,5 kW
2000	310					
2500	312					
3200	316					
4000	320					

1) Only the 2-pole winding is connected for single speed drives.

Weights (kg)

Rope reeving		2/1		4/2		Rope reeving		2/1		4/2					
Hook path		H 12		H 20		Hook path		H 12		H 20					
DH size		320-310	308	320-310	308	320-310	308	DH size		320-310	308	320-310	308	320-310	308
F10 mechanical microspeed unit		without						with							
Motor size	KBH 112	385	400	415	430	425	445	KBH 100+FG06 with mot. KBA 71	415	430	445	460	455	475	
	KBH 125	400	415	430	445	440	460	KBH112+FG08 with mot. KBA 71	460	475	490	505	500	520	
	KBH 140	430	445	460	475	470	490	KBH125+FG08 with mot. KBA 80	480	495	510	525	520	540	

Motor type – Main/creep lifting, pole-changing F 6

Main hoist motor size	Code	d	I 1		Cover I 3			
			with hook path					
			H 12	H 20	H 12		H 20	
KBH 112	V 1	220	703	833	short	long	short	long
KBH 125	V 2	246	756	886	546	617	676	747
KBH 140	V 3	274	824	954				

Motor type – Main hoist and F 10 mechanical microspeed unit

Main hoist motor size	Code	d	g 1	I 1		Cover I 3				Gearbox size	Creep hoist motor size	g 2	a 9	b 9	b 10	I 5		I 6	I 7
				with hook path															
				H 12	H 20	H 12		H 20								H 12	H 20		
KBH 100	V 1	196	181	680	810	short	long	short	long	FG 06	KBA 71	132	494	201,5	290,5	836	966	544	437
KBH 112	V 2	220	188	703	833	546	617	676	747	FG 08	KBA 71	132	557	268,5	357,5	917	1047	625	484
KBH 125	V 3	246	200	756	886						KBA 80					141	971	1101	697

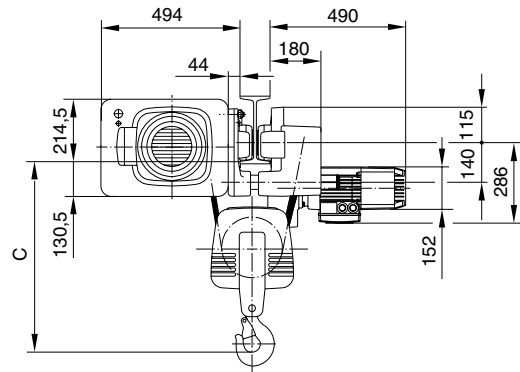
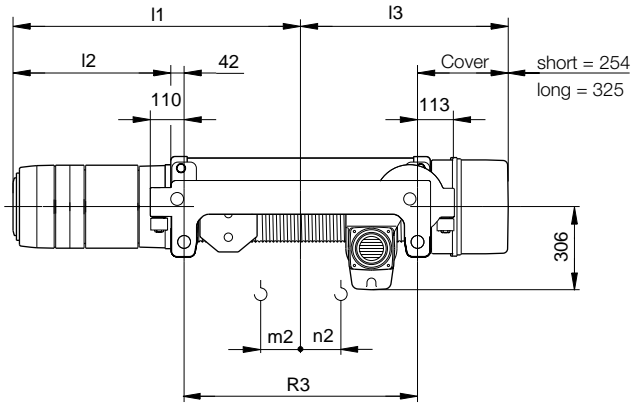
Trolley size 5

KDH 300 low-headroom monorail hoist, for flange width 201 – 400 mm, 2/1 and 4/2 rope reeving

SWL 1600 kg – 4000 kg

For track details see page 79.

EKDH

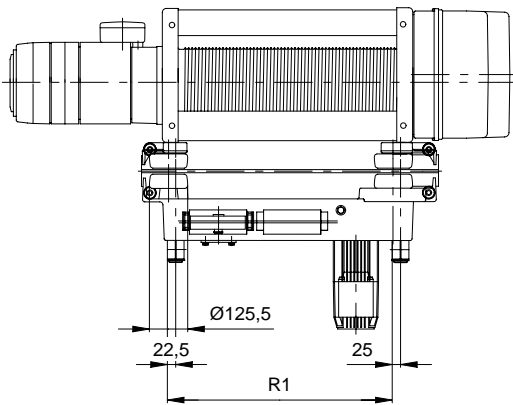


No hook travel with 4/2

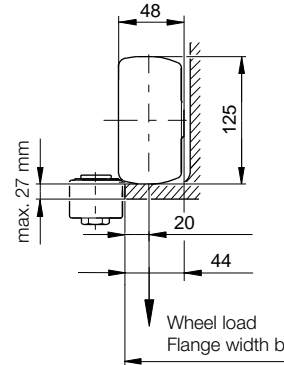
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Pay attention to girder height

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Hook dimension C from girder running surface

KDH 300 low-headroom monorail hoist, 2/1 rope reeving

Flange width b		201-220	240-260	280	300	400	201-220	240-260	280	300	400
Size	Creep lifting	Hook dimension C with overload cut-off					Hook dimension C without overload cut-off				
DH 320-310	without	750			770	800	690		710	740	820
	with	710			730	760	650		670	700	
DH 308	without	830	820	810	800	880	770	760	750	740	820
	with	790	780	770	760		730	720	710	700	

KDH 300 low-headroom monorail hoist, 4/2 rope reeving

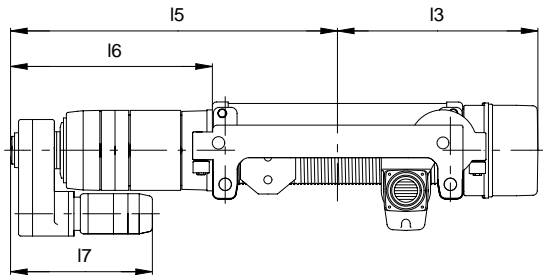
		201	220	240	260	280	300	400	201	220	240	260	280	300	400
Size	Creep lifting	Hook dimension C with overload cut-off							Hook dimension C without overload cut-off						
DH 320-310	without	720	740	770	790	780	810	940	720	740	770	790	780	810	940
	with	680	700	730	750		680	700	730	750	660	680		710	730
DH 308	without	660	680	710	730	720	750	880	660	680	710	730	720	750	880
	with	620	640	670	690		620	640	670	690					

Hoist unit

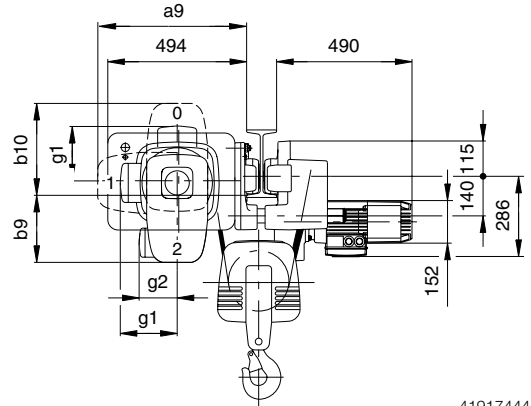
Range	Rope reeving				Wheel base	Connecting rods	Adjusting range	
	2/1	4/2	2/1					
	Hook path		Hook travel					
	m	m 2	n 2	R 1				R 3
DH 300	H 12	12	-	147,5	45,5	497,5	500	201-300 301-400
	H 20	20	12	277,5	43,5	757,5	760	

Trolley size 5

KDH monorail hoist with F10 mechanical microspeed unit



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Travel speeds

		Travel drive				
SWL kg	Size	Possible cross travel speeds in approx. ...m/min				
	DH	12,5	25 1)	4,1/12,5	6,3/19	6,3/25
1600	308	ZBF 80 A 4 B020 40 % ED 0,25 kW	ZBF 80 A 8/2 B020 40 % ED 0,13/0,5 kW	ZBF 80 A 12/4 B020 15/40 % ED 0,06/0,25 kW	ZBF 80 A 12/4 B020 15/40 % ED 0,06/0,25 kW	ZBF 80 A 8/2 B020 40 % ED 0,13/0,5 kW
2000	310					
2500	312					
3200	316					
4000	320					

1) Only the 2-pole winding is connected for single speed drives.

Weights (kg)

Rope reeving		2/1				4/2	
Hook path		H 12		H 20			
DH size		320-310	308	320-310	308	320-310	308
Motor size	KBH 100	315	330	345	360	355	375
	KBH 112	330	345	360	375	370	390
	KBH 125	345	360	375	390	385	415
	KBH 140	375	390	405	420	415	435

Motor type – Main/creep lifting, pole-changing F 6

Main hoist motor size	Code	d	I 1		Cover I 3			
			with hook path					
			H 12	H 20	H 12		H 20	
KBH 112	V 1	220	703	833	short	long	short	long
KBH 125	V 2	246	756	886	546	617	676	747
KBH 140	V 3	274	824	954				

Weights

Mechanical microspeed unit

FG 06 with KBA 71 = 18 kg

FG 08 with KBA 71 = 50 kg

FG 08 with KBA 80 = 55 kg

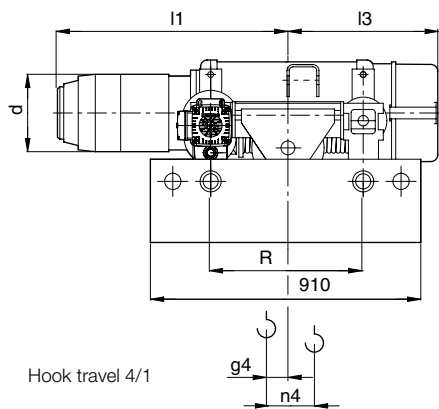
Motor type – Main hoist and F 10 mechanical microspeed unit

Main hoist motor size	Code	d	g 1	I 1		Cover I 3				Gearbox size	Creep hoist motor size	g 2	a 9	b 9	b 10	I 5		I 6	I 7
				with hook path															
				H 12	H 20	H 12	H 20	H 12	H 20										
KBH 100	V 1	196	181	680	810	short	long	short	long	FG 06	KBA 71	132	494	201,5	290,5	836	966	544	437
KBH 112	V 2	220	188	703	833	546	617	676	747	FG 08	KBA 71	141	557	268,5	357,5	917	1047	625	484
KBH 125	V 3	246	200	756	886						KBA 80								

Trolley size 6

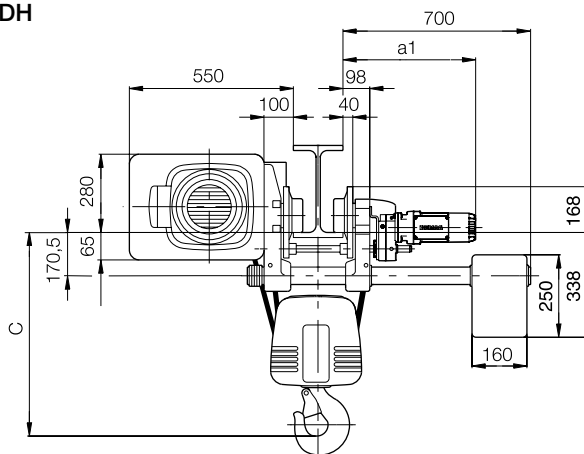
KDH 300 low-headroom monorail hoist, 4/1 rope reeving

SWL 3200 kg – 8000 kg



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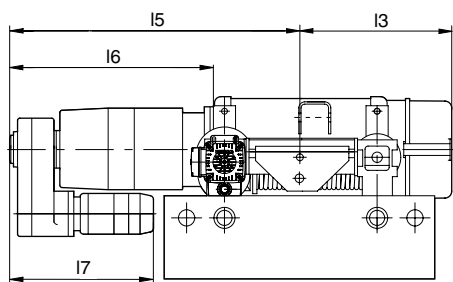
EKDH



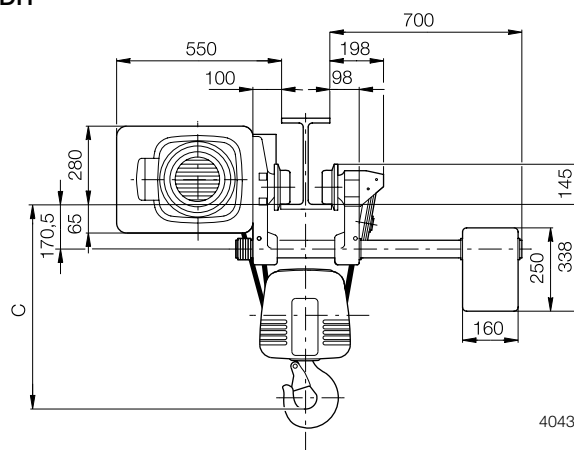
Pay attention to girder height

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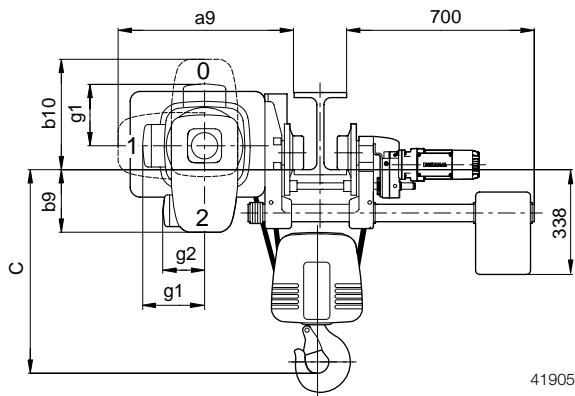
KDH monorail hoist with F 10 mechanical microspeed unit RKDH



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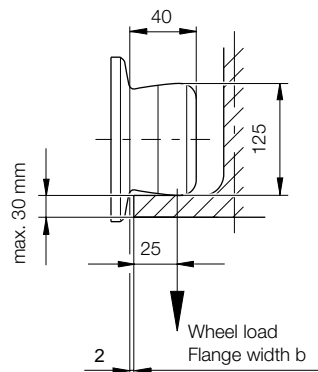


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Trolley can be supplied with
Conical travel wheels:
 for track girders with inclined flange surfaces
Cylindrical travel wheels:
 for track girders with parallel flange surfaces



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Hook dimension C from girder running surface

Flange width b		100-200	305	100-200	305
Size	Creep lifting	Hook dimensions C with overload cut-off		Hook dimensions C without overload cut-off	
DH 320-310	without	600	665	540	605
	with				
DH 308	without	780		720	
	with				

Hoist unit

Range	Rope reeving			Drive				Wheel base	Smallest curve radius	Adjusting range
	4/1			Direct drive						
	Hook path	Hook travel		AMK 10-DD ZBF 63/71 A	AMK 10-DD ZBF 80 A	AUK 30-DD ZBF 90 B	AUK 30-DD ZBF 100 A			Flange width b
	m	g 4	n 4	a 1				R	m	mm
DH 320-310	H 12	6	32,5	97	554	610	650	650	5,5	100-245 246-305 306-420
DH 308			22,5							
DH 320-310	H 20	10	162,5	161	554	610	650	650	8	100-245 246-305 306-420
DH 308			152,5							

Trolley size 6

EKDH low-headroom monorail hoist with a single drive

SWL	Size	Travel drive			
		Travel speed in approx. m/min			
		400 V, 50 Hz			
		12,5 1)	20 1)	31,5 1)	40 1)
kg		3,1/12,5	5/20	8/31,5	10/40
3200	DH 308	AMK 10-DD ZBF 63 A 8/2-B003 40% CDF 0,06/0,25 kW i = 25,7 17 kg	AMK 10-DD ZBF 63 A 8/2-B003 40% CDF 0,06/0,25 kW i = 15,7 17 kg	AMK 10-DD ZBF 71 A 8/2-B003 40% CDF 0,09/0,34 kW i = 10,5 19 kg	AMK 10-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 8,32 26 kg
4000	DH 310		AMK 10-DD ZBF 71 A 8/2-B003 40% CDF 0,09/0,34 kW i = 15,7 19 kg	AMK 10-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 10,5 26 kg	AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 7,78 44 kg
5000	DH 312			AMK 10-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 10,1 44 kg	
6300	DH 316		AMK 10-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 15,7 26 kg		
8000	DH 320				

1) Only the 2-pole winding is connected for single speed drives.

Weights (kg)

Rope reeving		4/1		4/1	
Hook path		H 12		H 20	
DH size		320-310	308	320-310	308
Motor size	KBH 100	400	435	430	470
	KBH 112	415	450	445	485
	KBH 125	430	465	460	500
	KBH 140	460	495	490	530

Weights

Mechanical microspeed unit

FG 06 with KBA 71 = 18 kg

FG 08 with KBA 71 = 50 kg

FG 08 with KBA 80 = 55 kg

Motor type – Main/creep lifting, pole-changing F 6

Main hoist motor size	Code	d	I 1		Cover I 3			
			with hook path					
			H 12	H 20	H 12		H 20	
KBH 112	V 1	220	703	833	short	long	short	long
KBH 125	V 2	246	756	886				
KBH 140	V 3	274	824	954				

Motor type – Main hoist and F 10 mechanical microspeed unit

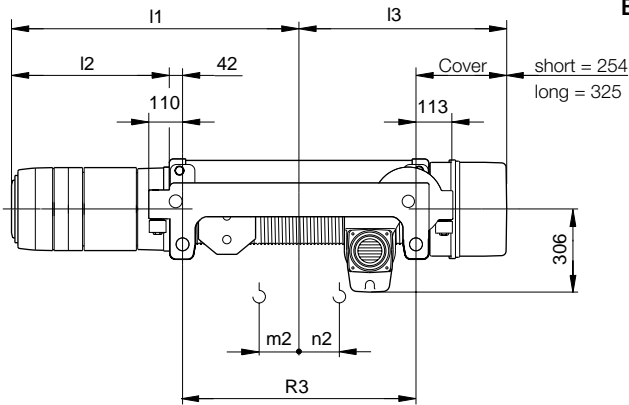
Main hoist motor size	Code	d	g 1	I 1		Cover I 3				Gearbox size	Creep hoist motor size	g 2	a 9	b 9	b 10	I 5		I 6	I 7
				with hook path												with hook path			
				H 12	H 20	H 12		H 20								H 12	H 20		
KBH 100	V 1	196	181	680	810	short	long	short	long	FG 06	KBA 71	132	550	136	356	836	966	544	437
KBH 112	V 2	220	188	703	833	546	617	676	747	FG 08	KBA 71					613	203	423	917
KBH 125	V 3	246	200	756	886						KBA 80	141				971	1101	697	523

Trolley size 5

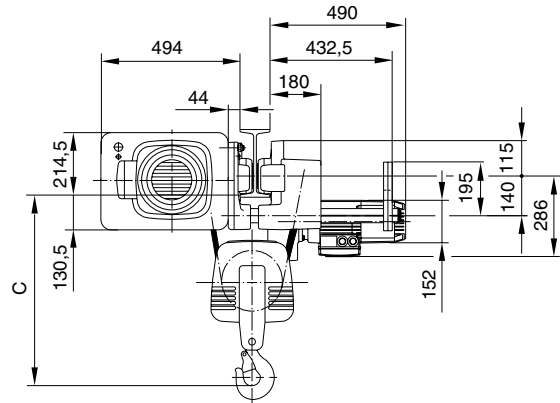
KDH 400 low-headroom monorail hoist, for flange width 106 – 200 mm, 2/1 and 4/2 rope reeving

SWL 2000 kg – 5000 kg

For track details see page 79.



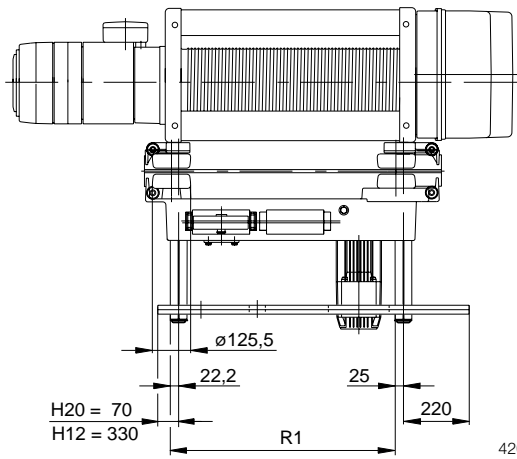
EKDH



No hook travel with 4/2

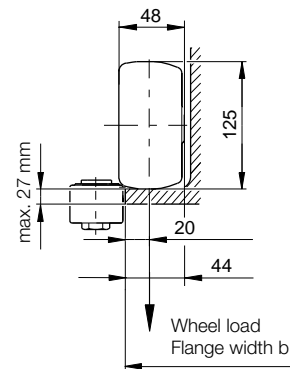
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Pay attention to girder height



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Hook dimension C from girder running surface

KDH 400 low-headroom monorail hoist, 2/1 rope reeving

Flange width b		106-160	180	200	106-160	180	200
Size	Creep lifting	Hook dimension C with overload cut-off			Hook dimension C without overload cut-off		
	without	790			730		
DH 425	with	750			690		
	without	750			690		
DH 420-412	with	710			650		
	without	840	830		780	770	
DH 410	with	800	790		740	730	

KDH 400 low-headroom monorail hoist, 4/2 rope reeving

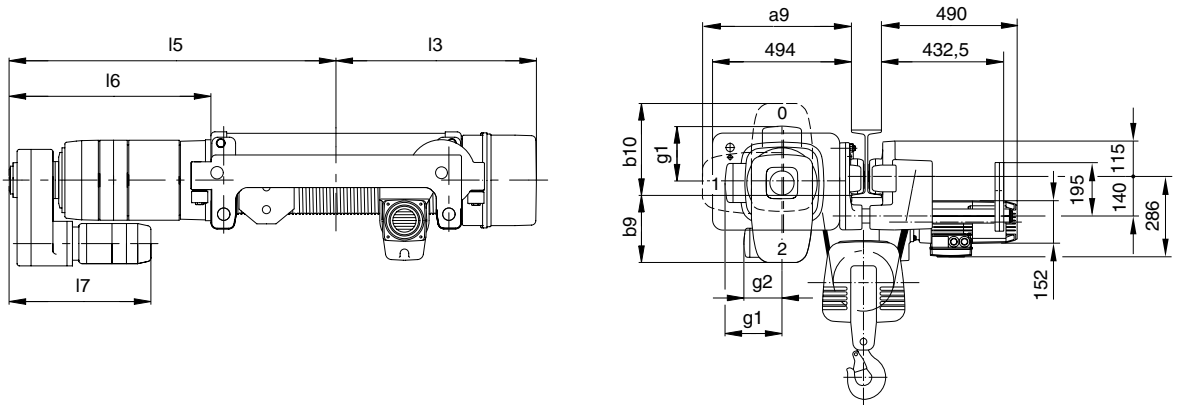
Size	Creep lifting	Hook dimension C with overload cut-off		Hook dimension C without overload cut-off	
DH 425-412	without	690	720	690	720
	with	650	680	650	680
DH 410	without	630	660	630	660
	with	590	640	590	640

Hoist unit

Range	Rope reeving				Wheel base	Connecting rods	Adjusting range	
	2/1	4/2	2/1					
	Hook path		Hook travel					
	m	m 2	n 2					
DH 400	H 12	12	-	147,5	45,5	497,5	500	106-200
	H 20	20	12	277,5	43,5	757,5	760	

Trolley size 5

KDH monorail hoist with F10 mechanical microspeed unit



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Travel speeds

		Travel drive				
SWL kg	Size	Possible cross travel speeds in approx. ...m/min				
	DH	12,5	25 1)	4,1/12,5	6,3/19	6,3/25
2000	410	ZBF 80 A 4 B020 40 % ED 0,25 kW	ZBF 80 A 8/2 B020 40 % ED 0,13/0,5 kW	ZBF 80 A 12/4 B020 15/40 % ED 0,06/0,25 kW	ZBF 80 A 12/4 B020 15/40 % ED 0,06/0,25 kW	ZBF 80 A 8/2 B020 40 % ED 0,13/0,5 kW
2500	412					
3200	416					
4000	420					
5000	425				-	

1) Only the 2-pole winding is connected for single speed drives.

Weights (kg)

Rope reeving	2/1				4/2				Rope reeving	2/1				4/2			
Hook path	H 12				H 20				Hook path	H 12				H 20			
DH size	425-412	410	425-412	410	425-412	410	425-412	410	DH size	425-412	410	425-412	410	425-412	410	425-412	410
Mechanical microspeed unit F10	without								with								
KBH 112	385	400	415	430	425	445	KBH 100+FG06 with mot. KBA 71	415	430	445	460	455	475				
KBH 125	400	415	430	445	440	460	KBH112+FG08 with mot. KBA 71	460	475	490	505	500	520				
KBH 140	430	445	460	475	470	490	KBH125+FG08 with mot. KBA 80	480	495	510	525	520	540				

Motor type – Main/creep lifting, pole-changing F 6

Main hoist motor size	Code	d	I 1		Cover I 3			
			with hook path					
			H 12	H 20	H 12		H 20	
KBH 112	V 1	220	703	833	short	long	short	long
KBH 125	V 2	246	756	886	546	617	676	747
KBH 140	V 3	274	824	954				

Motor type – Main hoist and F 10 mechanical microspeed unit

Main hoist motor size	Code	d	g 1	I 1		Cover I 3				Gearbox size	Creep hoist motor size	g 2	a 9	b 9	b 10	I 5		I 6	I 7
				with hook path												with hook path			
				H 12	H 20	H 12	H 20	H 12	H 20							H 12	H 20		
KBH 100	V 1	196	181	680	810	short	long	short	long	FG 06	KBA 71	132	494	201,5	290,5	836	966	544	437
KBH 112	V 2	220	188	703	833	546	617	676	747	FG 08	KBA 71	141	557	268,5	357,5	917	1047	625	484
KBH 125	V 3	246	200	756	886					KBA 80						971	1101	697	523

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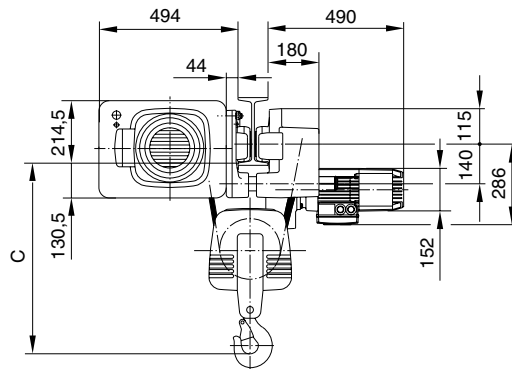
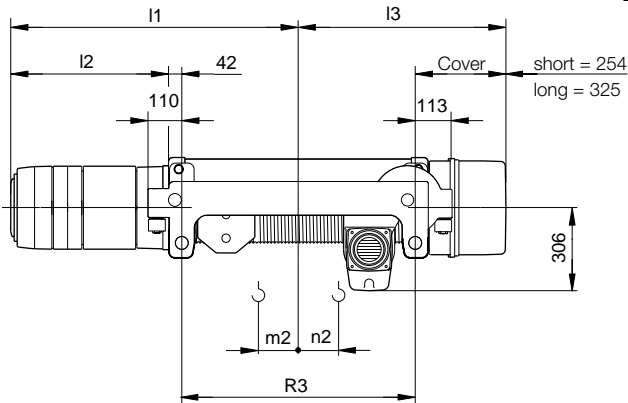
Trolley size 5

KDH 400 low-headroom monorail hoist, for flange width 201 – 400 mm, 2/1 and 4/2 rope reeving

SWL 2000 kg – 5000 kg

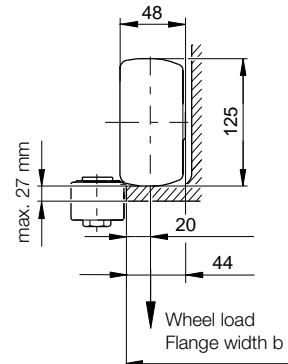
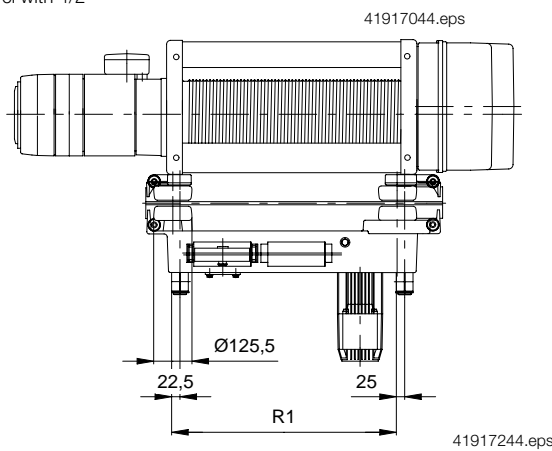
For track details see page 79.

EKDH



Pay attention to girder height

No hook travel with 4/2



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Hook dimension C from girder running surface

KDH 400 low-headroom monorail hoist, 2/1 rope reeving

Flange width b		201-220	240-260	280	300	400	201-220	240-260	280	300	400
Size	Creep lifting	Hook dimension C with overload cut-off					Hook dimension C without overload cut-off				
	without	790			800	880	730			740	820
DH 425	with	750			760		690			700	
DH 420-412	without	750		770	800	690		710	740	820	
	with	710		730	760	650		670	700		
DH 410	without	830	820	810	800	770	760	750	740	820	
	with	790	780	770	760	730	720	710	700		

KDH 400 low-headroom monorail hoist, 4/2 rope reeving

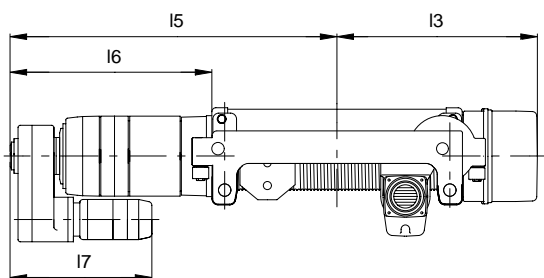
		201	220	240	260	280	300	400	201	220	240	260	280	300	400
Size	Creep lifting	Hook dimension C with overload cut-off							Hook dimension C without overload cut-off						
	without	720	740	770	790	780	810	940	720	740	770	790	780	810	940
DH 425-412	with	680	700	730	750				680	700	730	750			
DH 410	without	660	680	710	730	720	750	880	660	680	710	730	720	750	880
	with	620	640	670	690				620	640	670	690			

Hoist unit

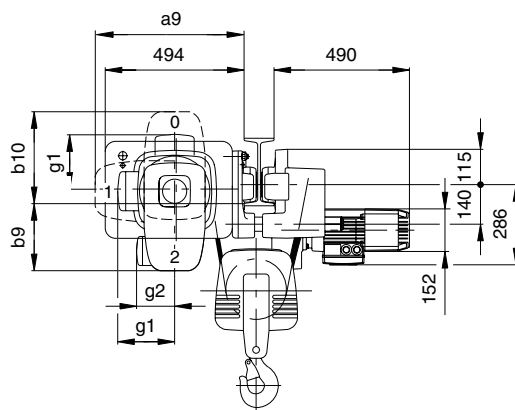
Range	Rope reeving				Wheel base	Connecting rods	Adjusting range	
	2/1	4/2	2/1					
	Hook path		Hook travel					
	m	m 2	n 2	mm				
DH 400	H 12	12	-	147,5	45,5	497,5	500	201-300
	H 20	20	12	277,5	43,5	757,5	760	301-400

Trolley size 5

KDH monorail hoist with F10 mechanical microspeed unit



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Travel speeds

		Travel drive				
SWL kg	Size	Possible cross travel speeds in approx. ...m/min				
	DH	12,5	25 1)	4,1/12,5	6,3/19	6,3/25
2000	410	ZBF 80 A 4 B020 40 % ED 0,25 kW	ZBF 80 A 8/2 B020 40 % ED 0,13/0,5 kW	ZBF 80 A 12/4 B020 15/40 % ED 0,06/0,25 kW	ZBF 80 A 12/4 B020 15/40 % ED 0,06/0,25 kW	ZBF 80 A 8/2 B020 40 % ED 0,13/0,5 kW
2500	412					
3200	416					
4000	420					
5000	425				-	

1) Only the 2-pole winding is connected for single speed drives.

Weights (kg)

Rope reeving		2/1				4/2	
Hook path		H 12		H 20			
DH size		425-412	410	425-412	410	425-412	410
Motor size	KBH 100	315	330	345	360	355	375
	KBH 112	330	345	360	375	370	390
	KBH 125	345	360	375	390	385	415
	KBH 140	375	390	405	420	415	435

Motor type – Main/creep lifting, pole-changing F 6

Main hoist motor size	Code	d	I 1		Cover I 3			
			with hook path					
			H 12	H 20	H 12		H 20	
KBH 112	V 1	220	703	833	short	long	short	long
KBH 125	V 2	246	756	886	546	617	676	747
KBH 140	V 3	274	824	954				

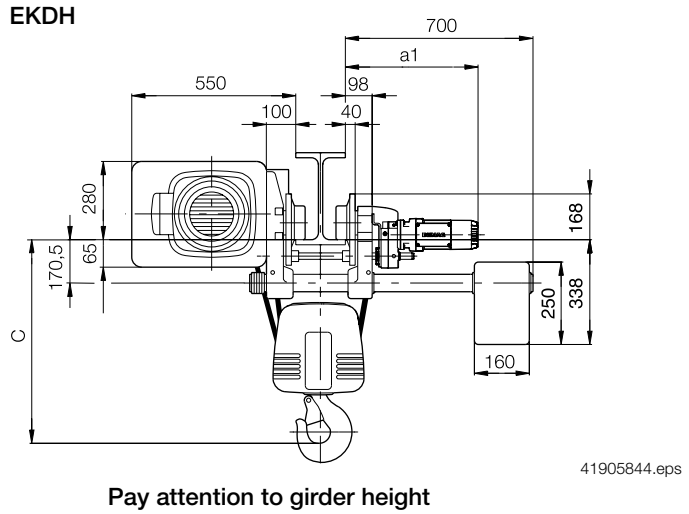
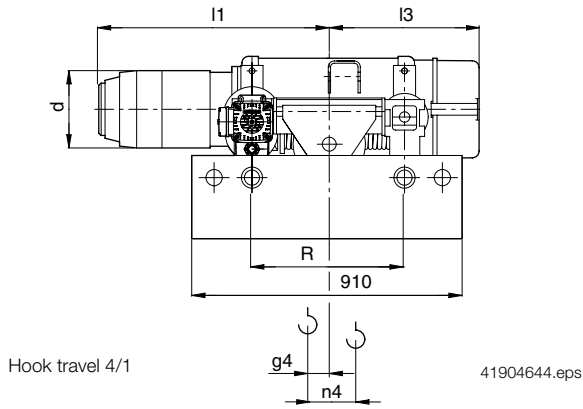
Weights
Mechanical microspeed unit
 FG 06 with KBA 71 = 18 kg
 FG 08 with KBA 71 = 50 kg
 FG 08 with KBA 80 = 55 kg

Motor type – Main hoist and F 10 mechanical microspeed unit

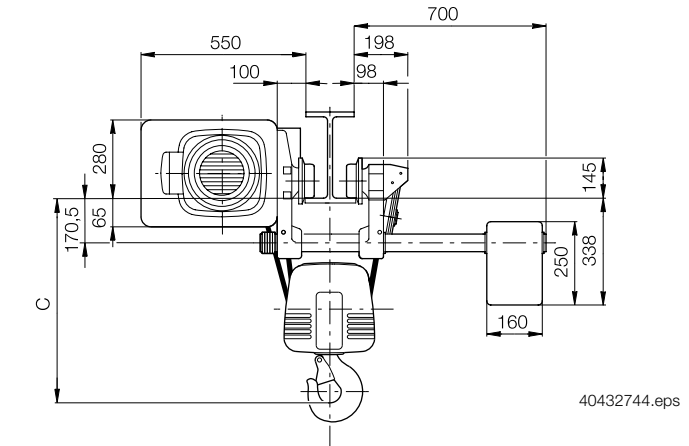
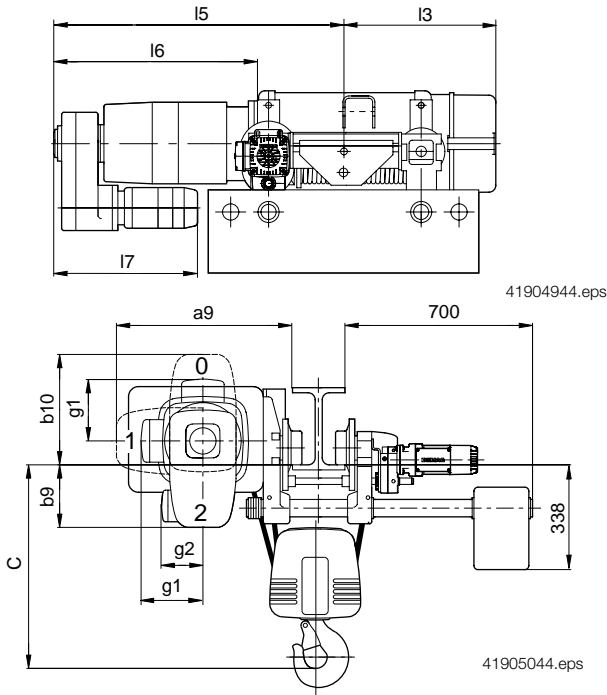
Main hoist motor size	Code	d	g 1	I 1		Cover I 3				Gearbox size	Creep hoist motor size	g 2	a 9	b 9	b 10	I 5		16	17
				with hook path															
				H 12	H 20	H 12		H 20								H 12	H 20		
KBH 100	V 1	196	181	680	810	short	long	short	long	FG 06	KBA 71	132	494	201,5	290,5	836	966	544	437
KBH 112	V 2	220	188	703	833	546	617	676	747	FG 08	KBA 71		557	268,5	357,5	917	1047	625	484
KBH 125	V 3	246	200	756	886						KBA 80	141				971	1101	697	523

Trolley size 6

KDH 400 low-headroom monorail hoist, 4/1 rope reeving
SWL 4000 kg – 10000 kg



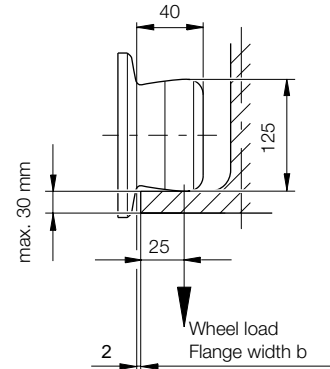
KDH monorail hoist with F 10 mechanical microspeed unit RKDH



Trolley can be supplied with
Conical travel wheels:
for track girders with inclined flange surfaces
Cylindrical travel wheels:
for track girders with parallel flange surfaces

Hook dimension C from girder running surface

Flange width b		100-200	305	100-200	305
Size	Creep lifting	Hook dimensions C with overload cut-off		Hook dimensions C without overload cut-off	
DH 425-412	without	600	665	540	605
	with				
DH 410	without	780		720	
	with				



Hoist unit

Range	Rope reeving			Drive				Wheel base	Smallest curve radius	Adjusting range
	4/1			Direct drive						
	Hook path	Hook travel		AMK 10-DD ZBF 63/71 A	AMK 10-DD ZBF 80 A	AUK 30-DD ZBF 90 B	AUK 30-DD ZBF 100 A			R
DH 425-412	H 12	6	32,5	97	554	610	650	650	5,5	100-245 246-305 306-420
DH 410			22,5							
DH 425-412	H 20	10	162,5	161						
DH 410			152,5							

Trolley size 6

EKDH low-headroom monorail hoist with a single drive

SWL	Size	Travel drive			
		Travel speed in approx. m/min			
		400 V, 50 Hz			
		12,5 1)	20 1)	31,5 1)	40 1)
kg		3,1/12,5	5/20	8/31,5	10/40
4000	DH 410	AMK 10-DD ZBF 63 A 8/2-B003 40% CDF 0,06/0,25 kW i = 25,7 17 kg	AMK 10-DD ZBF 71 A 8/2-B003 40% CDF 0,09/0,34 kW i = 15,7 19 kg	AMK 10-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 10,5 26 kg	AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 7,78 44 kg
5000	DH 412				
6300	DH 416		AMK 10-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 15,7 26 kg	AMK 10-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 10,1 44 kg	
8000	DH 420	AMK 10-DD ZBF 71 A 8/2-B003 40% CDF 0,09/0,34 kW i = 25,7 19 kg			
10000	DH 425		AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 15,7 44 kg	AUK 30-DD ZBF 100 A 8/2-B050 40% CDF 0,29/1,2 kW i = 10,1 44 kg	

1) Only the 2-pole winding is connected for single speed drives.

Weights (kg)

Rope reeving	4/1		4/1	
Hook path	H 12		H 20	
DH size	425-412	410	425-412	410
Motor size	KBH 100	400	435	430
	KBH 112	415	450	445
	KBH 125	430	465	460
	KBH 140	460	495	490

Weights

Mechanical microspeed unit

FG 06 with KBA 71 = 18 kg

FG 08 with KBA 71 = 50 kg

FG 08 with KBA 80 = 55 kg

Motor type – Main/creep lifting, pole-changing F 6

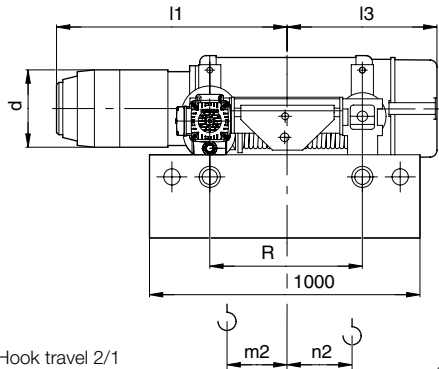
Main hoist motor size	Code	d	I 1		Cover I 3			
			with hook path					
			H 12	H 20	H 12		H 20	
KBH 112	V 1	220	703	833	short	long	short	long
KBH 125	V 2	246	756	886	546	617	676	747
KBH 140	V 3	274	824	954				

Motor type – Main hoist and F 10 mechanical microspeed unit

Main hoist motor size	Code	d	g 1	I 1		Cover I 3				Gearbox size	Creep hoist motor size	g 2	a 9	b 9	b 10	I 5		1 6	1 7
				with hook path												with hook path			
				H 12	H 20	H 12	H 20	H 12	H 20							H 12	H 20		
KBH 100	V 1	196	181	680	810	short	long	short	long	FG 06	KBA 71	132	550	136	356	836	966	544	437
KBH 112	V 2	220	188	703	833	546	617	676	747	FG 08	KBA 71		613	203	423	917	1047	625	484
KBH 125	V 3	246	200	756	886							971	1101	697	523				

Trolley size 6

KDH 500 low-headroom monorail hoist, 2/1 and 4/2 rope reeving
 SWL 2500 kg – 6300 kg

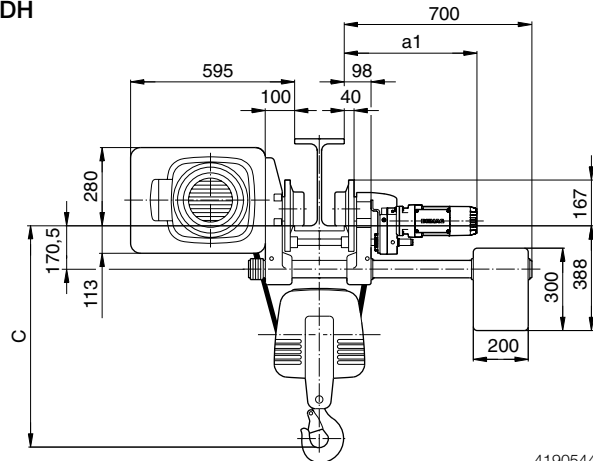


Hook travel 2/1

No hook travel with 4/2

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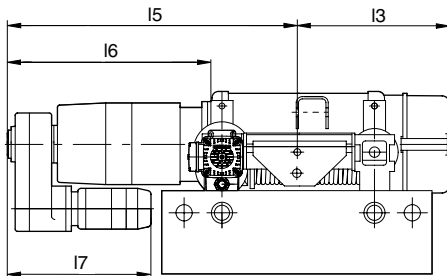
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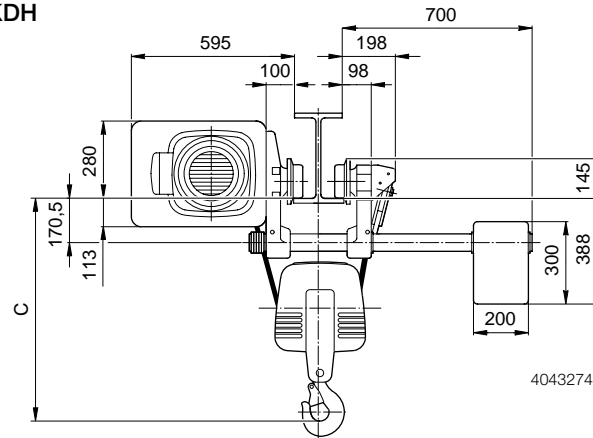
Pay attention to girder height

KDH monorail hoist with F 10 mechanical microspeed unit

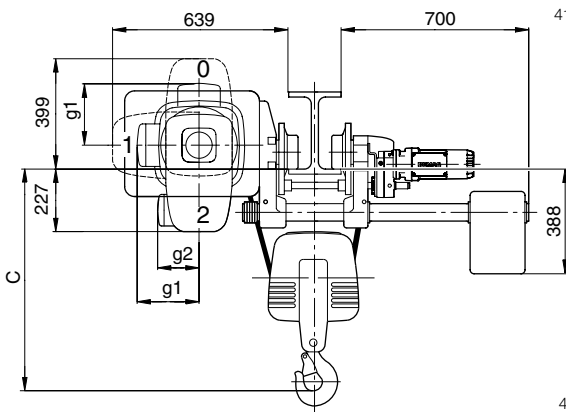


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RKDH

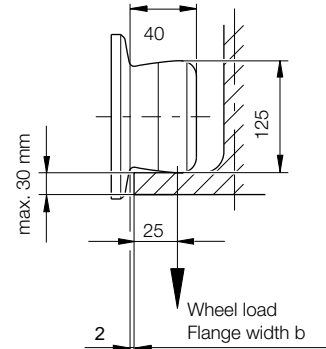


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Trolley can be supplied with
 Conical travel wheels:
 for track girders with inclined flange surfaces
 Cylindrical travel wheels:
 for track girders with parallel flange surfaces



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Hook dimension C from girder running surface

Rope reeving		2/1		4/2		2/1		4/2	
Flange width b		100-200	305	100-200	305	100-200	305	100-200	305
Size	Creep lifting	Hook dimensions C with overload cut-off				Hook dimensions C without overload cut-off			
	DH 532-516	without	770	550	620	700	550	620	
with		730			660				
DH 512	without	945	670		875	670			
	with		630			630			

Hoist unit

Range	Rope reeving				Drive				Wheel base	Smallest curve radius	Adjusting range	
	2/1	4/2	2/1		Direct drive							Flange width b
	Hook path		Hook travel		AMK 10-DD ZBF 63 A	AMK 10-DD ZBF 71 A	AMK 10-DD ZBF 80 A	AUK 30-DD ZBF 90 B			R	
DH 500	H 12	12	5,2	141	69	554	554	610	650	560	6	100-245 246-305 306-420
	H 20	20	10,2	281						840	8,5	

Trolley size 6

EKDH low-headroom monorail hoist with a single drive

SWL	Size	Travel drive			
		Travel speed in approx. m/min			
kg		400 V, 50 Hz			
		12,5 1)	20 1)	31,5 1)	40 1)
2500	DH 512	AMK 10-DD ZBF 63 A 8/2-B003 40% CDF 0,06/0,25 kW i = 25,7 17 kg	AMK 10-DD ZBF 63 A 8/2-B003 40% CDF 0,06/0,25 kW i = 15,7 17 kg	AMK 10-DD ZBF 71 A 8/2-B003 40% CDF 0,09/0,34 kW i = 10,5 18 kg	AMK 10-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 8,32 26 kg
3200	DH 516		AMK 10-DD ZBF 71 A 8/2-B003 40% CDF 0,09/0,34 kW i = 15,7 18 kg		
4000	DH 520			AMK 10-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 7,78 44 kg	
5000	DH 525				
6300	DH 532				

1) Only the 2-pole winding is connected for single speed drives.

Weights (kg)

Rope reeving		2/1		4/2		2/1		4/2	
Hook path		H 12				H 20			
DH size		532-516	512	532-516	512	532-516	512	532-516	512
Motor size	KBH 112	465	505	510	480	505	545	540	510
	KBH 125	485	525	530	500	525	565	560	530
	KBH 140	515	555	560	530	555	595	590	560
	KBH 160	585	625	630	600	625	665	660	630

Motor type – Main/creep lifting, pole-changing F 6

Motor size	Code	d	I 1		Cover I 3			
			with hook path					
			H 12	H 20	H 12		H 20	
KBH 125	V1	246	774	914	short	long	short	long
KBH 140	V2	274	842	982	571	642	711	782
KBH 160	V3	314	924	1064				

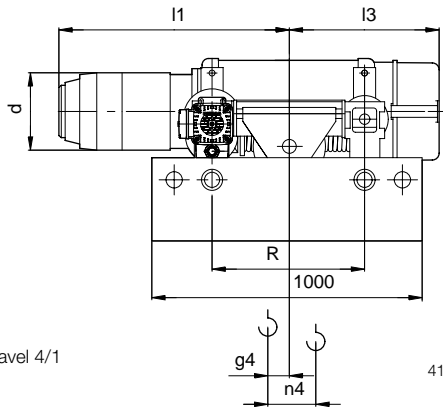
Weights
Mechanical microspeed unit
FG 08 with KBA 71 = 50 kg
FG 08 with KBA 80 = 55 kg

Motor type – Main hoist and F 10 mechanical microspeed unit

Motor size	Code	d	g 1	I 1		Cover I 3				Gearbox size	Creep hoist motor size	g 2	I 5		I 6	I 7		
				with hook path														
				H 12	H 20	H 12		H 20					H 12	H 20				
KBH 112	V1	220	188	717	857	short	long	short	long	FG 08	KBA 71	132	931	1071	614	484		
KBH 125	V2	246	200	774	914	571	642	711	782				KBA 80	141	989	1129	672	523
KBH 140	V3	274	229	842	982										1052	1192	735	

Trolley size 10

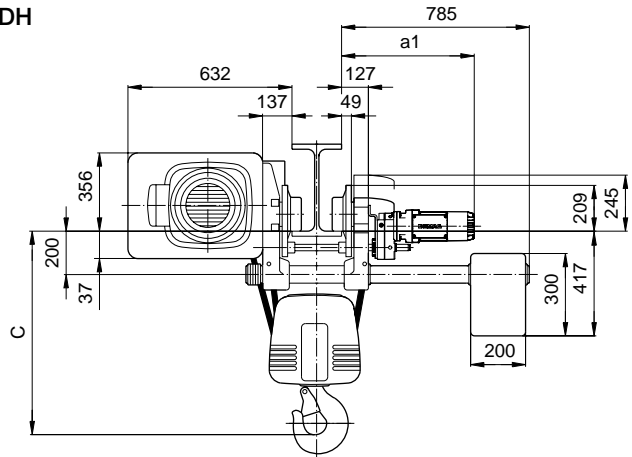
KDH 500 low-headroom monorail hoist, 4/1 rope reeving
 SWL 5000 kg – 12500 kg



Hook travel 4/1

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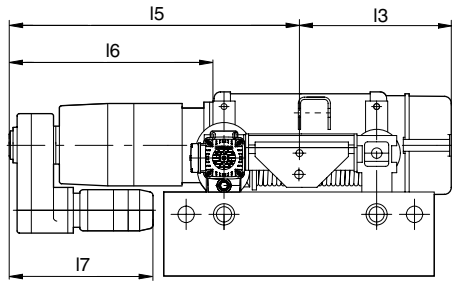
EKDH



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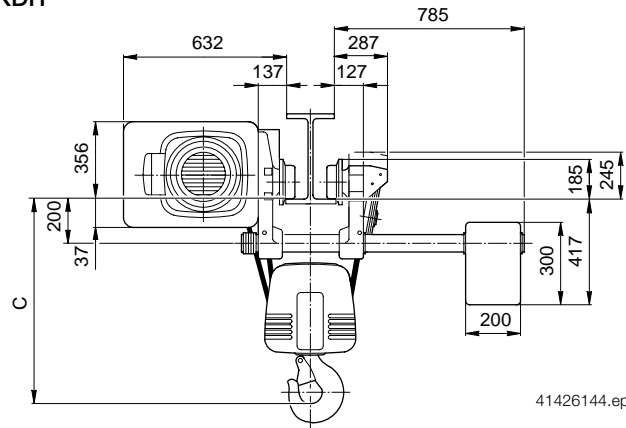
Pay attention to girder height

KDH monorail hoist with F 10 mechanical microspeed unit



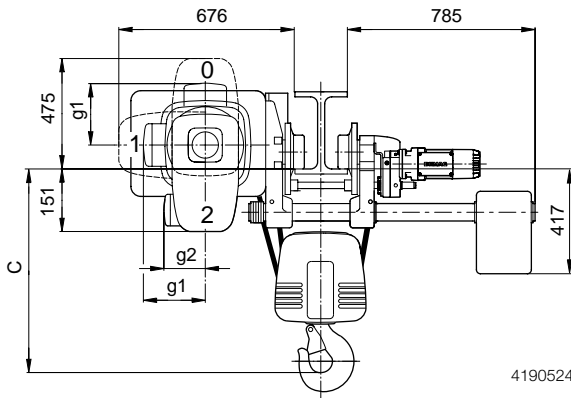
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RKDH



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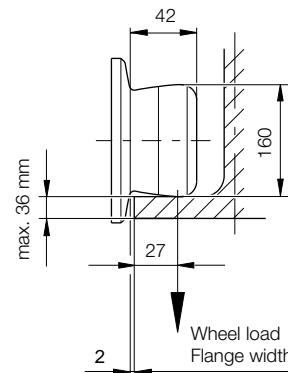
Trolley can be supplied with
 Conical travel wheels:
 for track girders with inclined flange surfaces
 Cylindrical travel wheels:
 for track girders with parallel flange surfaces



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Hook dimension C from girder running surface

Rope reeving		4/1	
Flange width b		110-305	110-305
Size	Creep lifting	Hook dimension C with overload cut-off	Hook dimension C without overload cut-off
	DH 532-516	without	680
with		660	590
DH 512	H 12 without/with	1010	940
	H 20 without/with	910	840



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Hoist unit

Range	Rope reeving		Drive				Wheel base	Smallest curve radius	Adjusting range		
	4/1		Direct drive							Flange width b	
	Hook path	Hook travel	AMK 20-DD ZBF 63/71 A	AMK 20-DD ZBF 80 A	AUK 30-DD ZBF 90 B	AUK 30-DD ZBF 100 A			m		mm
DH 500	H 12	6	24	105	594	650	689	689	560	6	110-245 246-305
	H 20	10	164	175					840	8,5	306-420

Trolley size 10

EKDH low-headroom monorail hoist with a single drive

SWL	Size	Travel drive			
		Travel speed in approx. m/min			
		400 V, 50 Hz			
		12,5 1)	20 1)	31,5 1)	40 1)
kg		3,1/12,5	5/20	8/31,5	10/40
5000	DH 512	AMK 20-DD ZBF 63 A 8/2-B003 40% CDF 0,06/0,25 kW i = 25,3 18 kg	AMK 20-DD ZBF 71 A 8/2-B003 40% CDF 0,09/0,34 kW i = 16,4 19 kg	AMK 20-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 9,95 27 kg	AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 7,78 44 kg
6300	DH 516				
8000	DH 520	AMK 20-DD ZBF 71 A 8/2-B003 40% CDF 0,09/0,34 kW i = 25,3 19 kg	AMK 20-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 16,4 27 kg	AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 10,1 44 kg	AUK 30-DD ZBF 100 A 8/2-B050 40% CDF 0,29/1,2 kW i = 7,78 44 kg
10000	DH 525				
12500	DH 532	AMK 20-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 25,3 27 kg	AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 15,7 44 kg	AUK 30-DD ZBF 100 A 8/2-B050 40% CDF 0,29/1,2 kW i = 10,1 44 kg	2x AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 7,78 44 kg

1) Only the 2-pole winding is connected for single speed drives.

Weights (kg)

Rope reeving		4/1		4/1	
Hook path		H 12		H 20	
DH size		532-516	512	532-516	512
Motor size	KBH 112	640	710	675	750
	KBH 125	660	730	695	770
	KBH 140	690	760	725	820
	KBH 160	760	830	795	890

Weights

Mechanical microspeed unit

FG 08 with KBA 71 = 50 kg

FG 08 with KBA 80 = 55 kg

Motor type – Main/creep lifting, pole-changing F 6

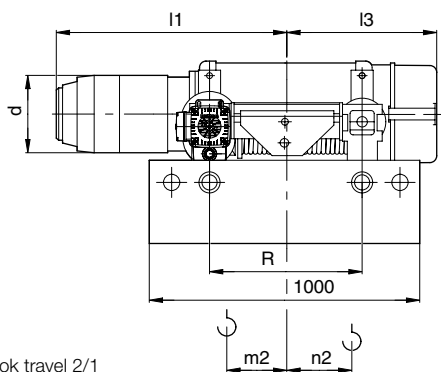
Motor size	Code	d	I 1		Cover I 3			
			with hook path					
			H 12	H 20	H 12		H 20	
KBH 125	V1	246	774	914	short	long	short	long
KBH 140	V2	274	842	982	571	642	711	782
KBH 160	V3	314	924	1064				

Motor type – Main hoist and F 10 mechanical microspeed unit

Motor size	Code	d	g 1	I 1		Cover I 3				Gearbox size	Creep hoist motor size	g 2	I 5		I 6	I 7
				with hook path												
				H 12	H 20	H 12		H 20					H 12	H 20		
KBH 112	V1	220	188	717	857	short	long	short	long	FG 08	KBA 71	132	931	1071	614	484
KBH 125	V2	246	200	774	914	571	642	711	782		KBA 80	141	989	1129	672	523
KBH 140	V3	274	229	842	982						KBA 80		1052	1192	735	

Trolley size 6

KDH 600 low-headroom monorail hoist, 2/1 and 4/2 rope reeving
SWL 3200 kg – 8000 kg

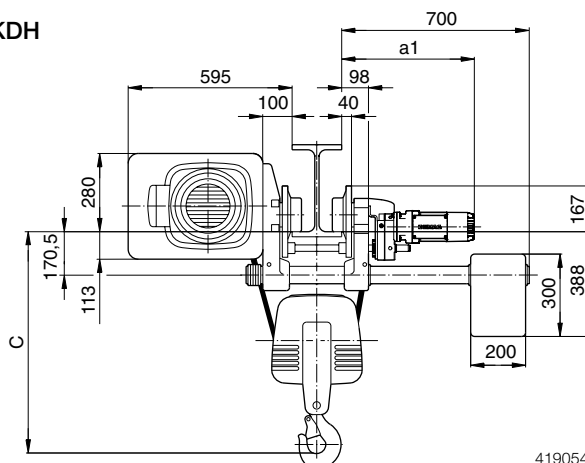


Hook travel 2/1

No hook travel with 4/2

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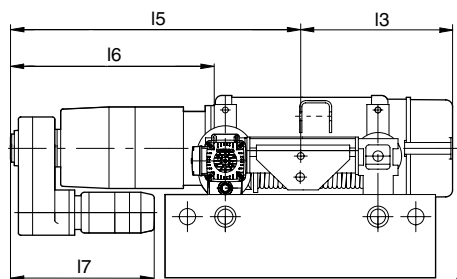
EKDH



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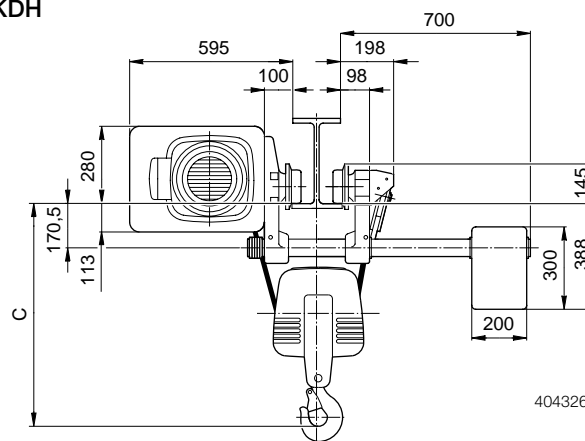
Pay attention to girder height

KDH monorail hoist with F 10 mechanical microspeed unit



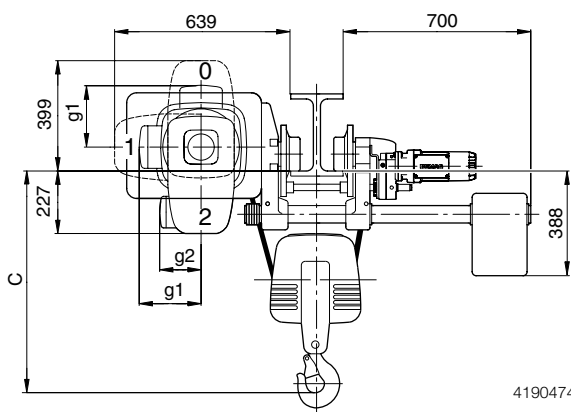
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RKDH



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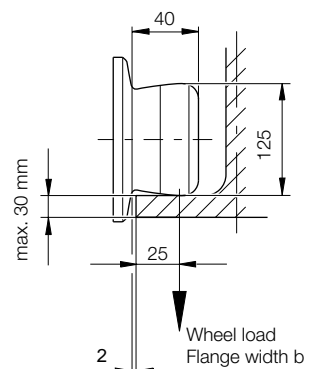
Trolley can be supplied with
Conical travel wheels:
for track girders with inclined flange surfaces
Cylindrical travel wheels:
for track girders with parallel flange surfaces



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Hook dimension C from girder running surface

Rope reeving		2/1		4/2		2/1		4/2	
Flange width b		100-200	305	100-200	305	100-200	305	100-200	305
Size	Creep lifting	Hook dimension C with overload cut-off				Hook dimension C without overload cut-off			
DH 640-620	without	770	550	620	700	550	620	550	620
	with	730			660				
DH 616	without	945	670	630	875	670	630	670	630
	with								



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Hoist unit

Range	Rope reeving				Drive				Wheel base	Smallest curve radius	Adjusting range	
	2/1	4/2	2/1		Direct drive							
	Hook path		Hook travel		AMK 10-DD ZBF 63/71 A	AMK 10-DD ZBF 80 A	AUK 30-DD ZBF 90 B	AUK 30-DD ZBF 100 A				
	m		m 2	n 2	a 1							
DH 600	H 12	12	5,2	141	69	554	610	650	650	560	6	100-245
	H 20	20	10,2	281		630	840	8,5	306-420			

Trolley size 6

EKDH low-headroom monorail hoist with a single drive

SWL	Size	Travel drive			
		Travel speed in approx. m/min			
		400 V, 50 Hz			
		12,5 1)	20 1)	31,5 1)	40 1)
kg					
		3,1/12,5	5/20	8/31,5	10/40
3200	DH 616	AMK 10-DD ZBF 63 A 8/2-B003 40% CDF 0,06/0,25 kW i = 25,7 17 kg	AMK 10-DD ZBF 71 A 8/2-B003 40% CDF 0,09/0,34 kW i = 15,7 18 kg	AMK 10-DD ZBF 71 A 8/2-B003 40% CDF 0,09/0,345 kW i = 10,5 18 kg	AMK 10-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 8,32 26 kg
4000	DH 620			AMK 10-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 10,5 26 kg	AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 7,78 44 kg
5000	DH 625			AMK 10-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 10,1 44 kg	
6300	DH 632				
8000	DH 640		AMK 10-DD ZBF 71 A 8/2-B003 40% CDF 0,09/0,34 kW i = 25,7 18 kg	AMK 10-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 15,7 26 kg	

1) Only the 2-pole winding is connected for single speed drives.

Weights (kg)

Rope reeving		2/1		4/2		2/1		4/2	
Hook path		H 12				H 20			
DH size		640-620	616	640-620	616	640-620	616	640-620	616
Motor size	KBH 112	465	505	510	480	505	545	540	510
	KBH 125	485	525	530	500	525	565	560	530
	KBH 140	515	555	560	530	555	595	590	560
	KBH 160	585	625	630	600	625	665	660	630

Motor type – Main/creep lifting, pole-changing F 6

Motor size	Code	d	I 1		Cover I 3			
			with hook path					
			H 12	H 20	H 12		H 20	
KBH 125	V1	246	774	914	short	long	short	long
KBH 140	V2	274	842	982	571	642	711	782
KBH 160	V3	314	924	1064				

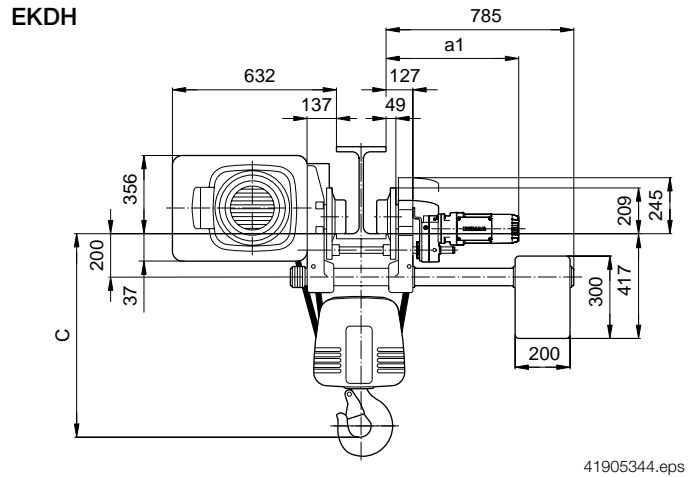
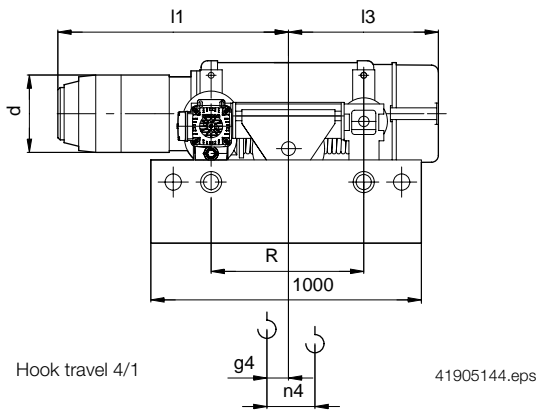
Weights
Mechanical microspeed unit
FG 08 with KBA 71 = 50 kg
FG 08 with KBA 80 = 55 kg

Motor type – Main hoist and F 10 mechanical microspeed unit

Motor size	Code	d	g 1	I 1		Cover I 3				Gearbox size	Creep hoist motor size	g 2	I 5		I 6	I 7		
				with hook path														
				H 12	H 20	H 12		H 20					H 12	H 20				
KBH 112	V1	220	188	717	857	short	long	short	long	FG 08	KBA 71	132	931	1071	614	484		
KBH 125	V2	246	200	774	914	571	642	711	782				KBA 80	141	989	1129	672	523
KBH 140	V3	274	229	842	982										1052	1192	735	

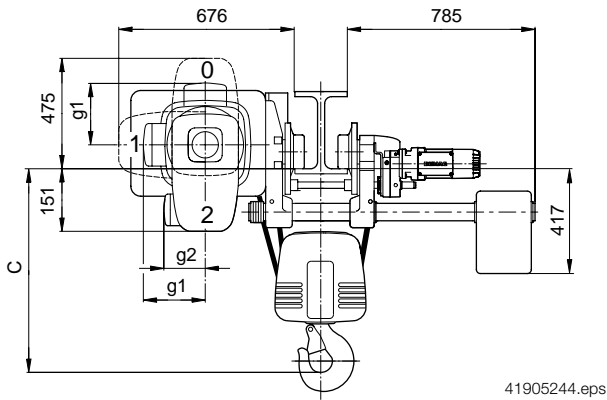
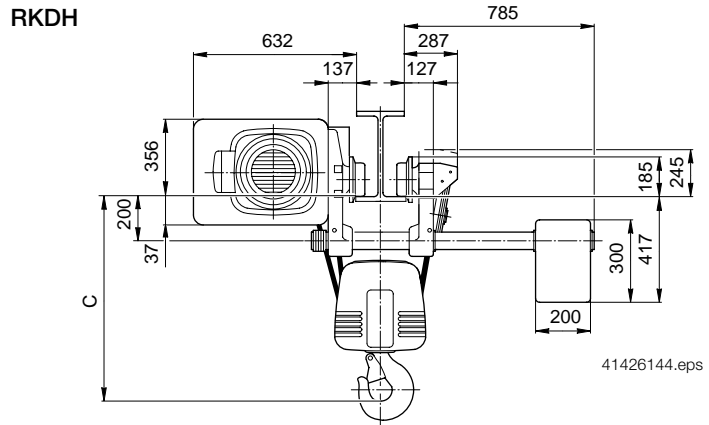
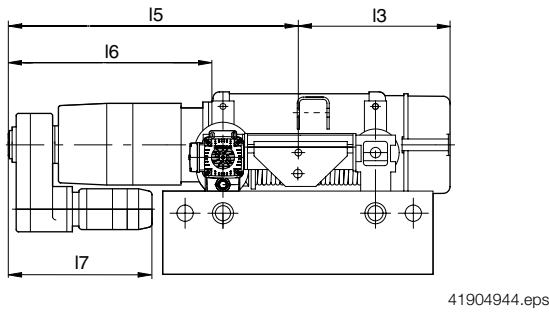
Trolley size 10

KDH 600 low-headroom monorail hoist, 4/1 rope reeving
SWL 6300 kg – 16000 kg



KDH monorail hoist with F 10 mechanical microspeed unit

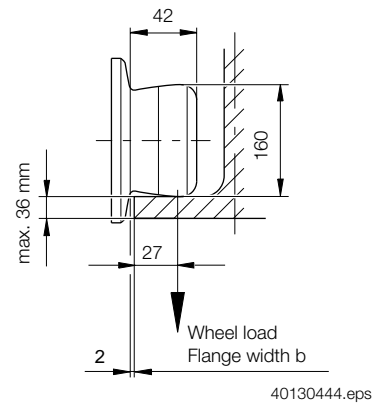
Pay attention to girder height



Trolley can be supplied with
Conical travel wheels:
for track girders with inclined flange surfaces
Cylindrical travel wheels:
for track girders with parallel flange surfaces

Hook dimension C from girder running surface

Rope reeving		4/1	
Flange width b		110-305	110-305
Size	Creep lifting	Hook dimension C with overload cut-off	Hook dimension C without overload cut-off
DH 640-620	without	680	610
	with	660	590
DH 616	H 12 without/with	1010	940
	H 20 without/with	910	840



Hoist unit

Range	Rope reeving			Drive				Wheel base	Smallest curve radius	Adjusting range	
	4/1			Direct drive							mm
	Hook path	Hook travel		AMK 20-DD ZBF 63/71 A	AMK 20-DD ZBF 80 A	AUK 30-DD ZBF 90 B	AUK 30-DD ZBF 100 A			m	
DH 600	H 12	6	24	105	594	650	689	689	560	6	110-215 216-305
	H 20	10	164	175					840	8,5	306-420

Trolley size 10

EKDH low-headroom monorail hoist with a single drive

SWL	Size	Travel drive			
		Travel speed in approx. m/min			
		400 V, 50 Hz			
		12,5 1)	20 1)	31,5 1)	40 1)
kg					
		3,1/12,5	5/20	8/31,5	10/40
6300	DH 616	AMK 20-DD ZBF 63 A 8/2-B003 40% CDF 0,06/0,25 kW i = 25,3 18 kg	AMK 20-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 16,4 27 kg	AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 10,1 44 kg	AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 7,78 44 kg
8000	DH 620	AMK 20-DD ZBF 71 A 8/2-B003 40% CDF 0,09/0,34 kW i = 25,3 19 kg			AUK 30-DD ZBF 100 A 8/2-B050 40% CDF 0,29/1,2 kW i = 7,78 44 kg
10000	DH 625				
12500	DH 632	AMK 20-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 25,3 27 kg	AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 15,7 44 kg	AUK 30-DD ZBF 100 A 8/2-B050 40% CDF 0,29/1,2 kW i = 10,1 44 kg	2x AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 7,78 44 kg
16000	DH 640				2x AUK 30-DD ZBF 100 A 8/2-B050 40% CDF 0,29/1,2 kW i = 7,78 44 kg

1) Only the 2-pole winding is connected for single speed drives.

Weights (kg)

Rope reeving		4/1		4/1	
Hook path		H 12		H 20	
DH size		640-620	616	640-620	616
Motor size	KBH 112	640	710	675	750
	KBH 125	660	730	695	770
	KBH 140	690	760	725	820
	KBH 160	760	830	795	890

Weights

Mechanical microspeed unit

FG 08 with KBA 71 = 50 kg

FG 08 with KBA 80 = 55 kg

Motor type – Main/creep lifting, pole-changing F 6

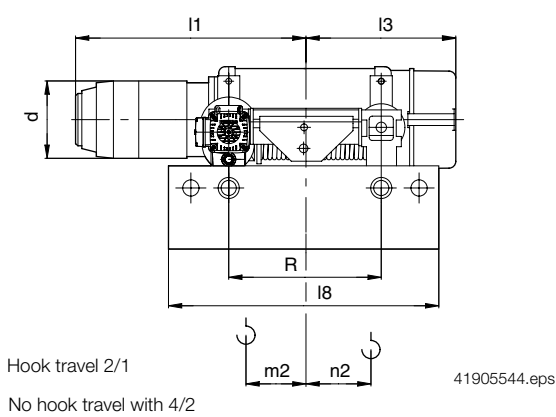
Motor size	Code	d	I 1		Cover I 3			
			with hook path					
			H 12	H 20	H 12		H 20	
KBH 125	V1	246	774	914	short	long	short	long
KBH 140	V2	274	842	982	571	642	711	782
KBH 160	V3	314	924	1064				

Motor type – Main hoist and F 10 mechanical microspeed unit

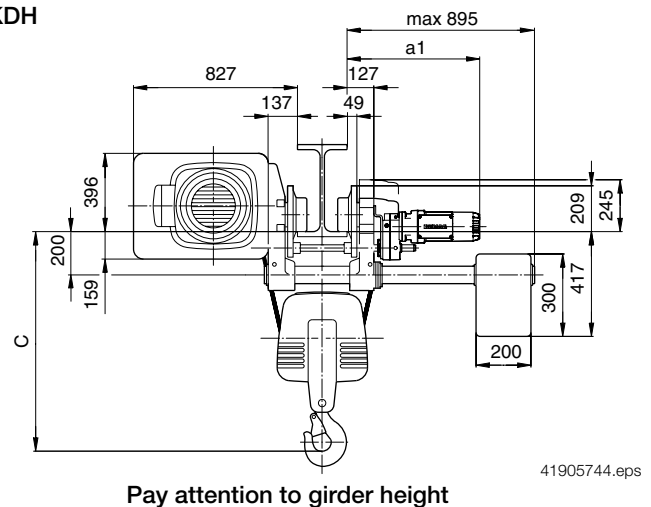
Motor size	Code	d	g 1	I 1		Cover I 3				Gearbox size	Creep hoist motor size	g 2	I 5		I 6	I 7
				with hook path												
				H 12	H 20	H 12		H 20					H 12	H 20		
KBH 112	V1	220	188	717	857	short	long	short	long	FG 08	KBA 71	132	931	1071	614	484
KBH 125	V2	246	200	774	914	571	642	711	782		KBA 80	141	989	1129	672	523
KBH 140	V3	274	229	842	982						KBA 80		1052	1192	735	

Trolley size 10

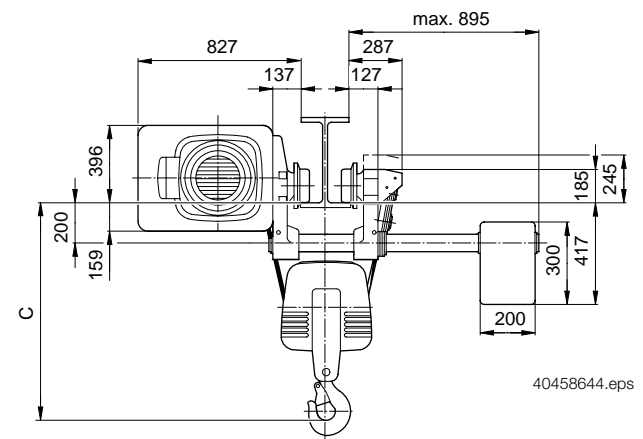
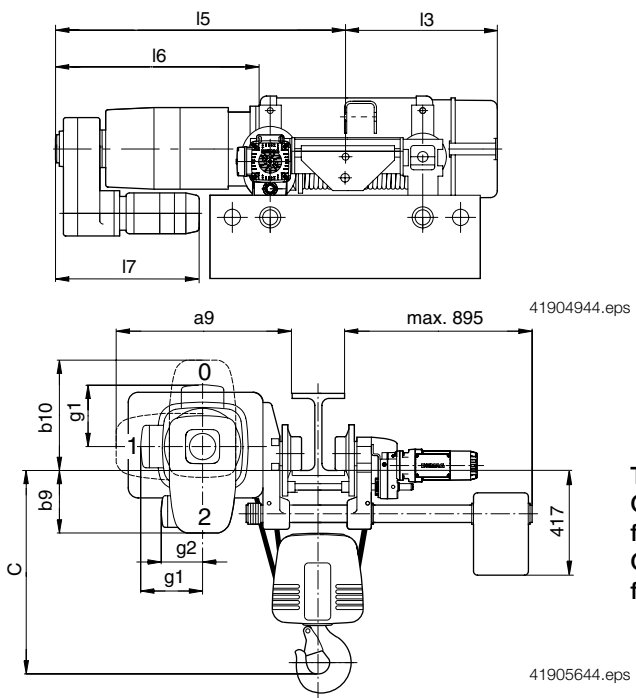
KDH 1000 low-headroom monorail hoist, 2/1 and 4/2 rope reeving
 SWL 5000 kg – 12500 kg



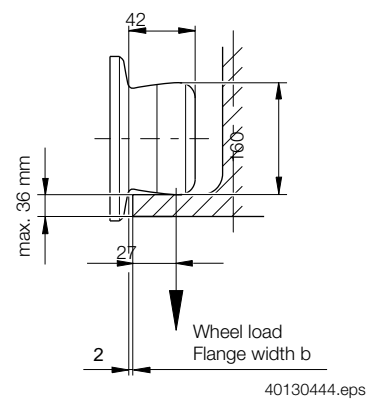
EKDH



KDH monorail hoist with F 10 mechanical microspeed unit RKDH



Trolley can be supplied with
Conical travel wheels:
 for track girders with inclined flange surfaces
Cylindrical travel wheels:
 for track girders with parallel flange surfaces



Hook dimension C from girder running surface

Rope reeving	2/1		4/2		2/1		4/2		
Flange width b	100-200	305	100-200	305	100-200	305	100-200	305	
Size	Creep lifting	Hook dimension C with overload cut-off				Hook dimension C without overload cut-off			
DH 1063-1032	without	960	660	680	880	660	680		
	with	920							840
DH 1025	without	1220	1255		1140	1255			
	with		1225			1225			

Hoist unit

Range	Rope reeving				Drive				Wheel base	Smallest curve radius	Adjusting range		
	2/1	4/2	2/1		Direct drive								
	Hook path		Hook travel		AMK 20-DD ZBF 63/71 A	AMK 20-DD ZBF 80 A	AUK 30-DD ZBF 90 B	AUK 30-DD ZBF 100 A	R	l8	mm		
	m	m 2	n 2	a 1									
DH 1000	H 16	16	8	203	80	594	650	689	689	780	1450	6	110-215 216-305 306-420
	H 24	24	13,5	338						1050	8		
	H 40	40	24,8	613						1600	1760	12	

Trolley size 10

EKDH low-headroom monorail hoist with a single drive

SWL	Size	Travel drive			
		Travel speed in approx. m/min			
		400 V, 50 Hz			
		12,5 1)	20 1)	31,5 1)	40 1)
kg		3,1/12,5	5/20	8/31,5	10/40
5000	DH 1025	AMK 20-DD ZBF 63 A 8/2-B003 40% CDF 0,06/0,25 kW i = 25,3 18 kg	AMK 20-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 16,4 27 kg	AMK 20-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 9,95 27 kg	AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 7,78 44 kg
6300	DH 1032	AMK 20-DD ZBF 71 A 8/2-B003 40% CDF 0,09/0,34 kW i = 25,3 19 kg		AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 10,1 44 kg	
8000	DH 1040	AMK 20-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 25,3 27 kg		AUK 30-DD ZBF 100 A 8/2-B050 40% CDF 0,29/0,1,2 kW i = 7,78 44 kg	
10000	DH 1050		AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 15,7 44 kg	AUK 30-DD ZBF 100 A 8/2-B050 40% CDF 0,29/1,2 kW i = 10,1 44 kg	
12500	DH 1063	AMK 20-DD ZBF 80 A 8/2-B020 40% CDF 0,13/0,5 kW i = 25,3 27 kg		AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 10,1 44 kg	2x AUK 30-DD ZBF 90 B 8/2-B020 40% CDF 0,2/0,8 kW i = 7,78 44 kg

1) Only the 2-pole winding is connected for single speed drives.

Weight without counterweight in kg

Rope reeving		2/1		4/2		2/1		4/2		2/1		4/2	
Hook path		H 16 2)		H 16		H 24				H 40			
DH size		1063-1032	1025	1063-1032	1025	1050-1032	1025	1063-1032	1025	1050-1032	1025	1063-1032	1025
Motor size	KBH 140	980	995	1020	1065	1090	1105	1120	1165	1325	1340	1370	1395
	KBH 160	1050	1065	1090	1135	1160	1175	1190	1235	1395	1410	1440	1465
	KBH 180	1120	1135	1160	1205	1230	1245	1260	1305	1465	1480	1520	1535
	KBH 200	1180	1195	1220	1265	1290	1305	1320	1365	1525	1540	1580	1595

1) DH 1063 only possible in type H 16

Motor type – Main/creep lifting, pole-changing F 6

Main hoist motor size	Code	d	I 1			Cover I 3		
			with hook path					
			H 16	H 24	H 40	H 16	H 24	H 40
KBH 160	V 1	314	1052	1187	1462	725	860	1135
KBH 180	V 2	354	1128	1263	1538			
KBH 200	V 3	394	1205	1340	1615			

Weight

Mechanical microspeed unit

FG 08 with KBA 80 = 55 kg

FG 10 with KBA 90 = 160 kg

FG 10 with KBA 100 = 186 kg

Motor type – Main hoist and F 10 mechanical microspeed unit

Main hoist motor size	Code	d	g 1	I 1			Cover I 3			Gearbox size	Creep hoist motor size	g 2	a 9	b 10	b 9	I 5			I 6	I 7
				with hook path												with hook path				
				H 16	H 24	H 40	H 16	H 24	H 40							H 16	H 24	H 40		
KBH 140	V 1	274	229	970	1105	1380	725	860	1135	FG 08	KBA 80	141	827	192	434	1180	1315	1590	745	523
KBH 160	V 2	314	247	1032	1187	1462				FG 10	KBA 90	151	890	332	574	1383	1518	1793	948	665
KBH 200	V 3	394	302	1205	1340	1615				KBA 100	176	1531				1666	1941	1096	702	

Variable speed cross travel drive

The travel speed is infinitely variable between standstill and maximum speed owing to the variable speed travel drive. The DEMAG proportional pushbutton is used for setting the speed (it is available for the DST and the DSE control pendants).

When using a signal transducer (PWM principle), the analogue set value can be transmitted via a conductor line.

For the operator, the following advantages result from the application of a variable speed travel drive:

Improved travel characteristics:

Due to controllable acceleration and an increased speed range, inching operation is eliminated.

Shorter transport times:

reduced pendulation of the load, no corrective switching operations.

Reduced wear:

no torque leaps due to switching operations, no wear on brake during deceleration.

Simple application and operation

Standard functions set in the factory, proportional control elements for DST and DSE.

Trolley size 3,2 – EKDH 160/200

Travel drive				
SWL kg	Size			Possible cross travel speeds 2,5 - 25 m/min
	Rope reeving			
	2/1	4/2	4/1	
3200	-		DH 168	ZBI 71 A 4-B007 0,44 kW
2500	DH 212		DH 166	
2000	DH 210		DH 165	
1600	DH 168/208		-	
1250	DH 166		-	
1000	DH 165		-	

Trolley size 5 – EKDH 200/300/400

Travel drive					
SWL kg	Size			Possible cross travel speeds	
	Rope reeving			2,2 - 22 m/min	3,4 - 34 m/min
	2/1	4/2	4/1		
5000	DH 425		DH 212	ZBI 80 A 4-B007 0,96 kW	
4000	DH 320/420		DH 210		
3200	DH 316/416		DH 208		
2500	DH 312/412		-		
2000	DH 310/410		-		
1600	DH 308		-		

Trolley size 6 – EUDH/EKDH 300/400 – 4/1 rope reeving

SWL kg	Size		Travel drive			
			Travel speed			
			1,25 - 12,5 m/min	2 - 20 m/min	3,15 - 31,5 m/min	4 - 40 m/min
3200	DH 308	-	AMK 10 DD ZBI 71 A 4-B007 0,44 kW i = 22 18 kg	AMK 10 DD ZBI 71 A 4-B007 0,44 kW i = 13,5 18 kg	AMK 10 DD ZBI 71 B 4-B007 0,64 kW i = 8,32 18 kg	AMK 20 DD ZBI 71 B 4-B007 0,64 kW i = 6,87 20 kg
4000	DH 310	DH 410				AMK 20 DD ZBI 80 A 4-B007 0,96 kW i = 6,87 24 kg
5000	DH 312	DH 412		AMK 10 DD ZBI 80 A 4-B007 0,96 kW i = 8,32 24 kg		
6300	DH 316	DH 416			AMK 10 DD ZBI 80 B 4-B020 1,35 kW i = 8,32 24 kg	
8000	DH 320	DH 420		AMK 20 DD ZBI 90 A 4-B020 1,95 kW i = 6,87 27 kg		
10000	-	DH 425			AMK 10 DD ZBI 80 A 4-B007 0,96 kW i = 13,5 24 kg	

Variable speed cross travel drive

Trolley size 6 – EUDH/EKDH 500/600 – 2/1 rope reeving

SWL	Size		Travel drive			
			Travel speed			
kg			1,25 - 12,5 m/min	2 - 20 m/min	3,15 - 31,5 m/min	4 - 40 m/min
2500	DH 512	-	AMK 10 DD ZBI 71 A 4-B007 0,44 kW i = 22 18 kg	AMK 10 DD ZBI 71 A 4-B007 0,44 kW i = 13,5 18 kg	AMK 10 DD ZBI 71 A 4-B007 0,44 kW i = 8,32 18 kg	AMK 20 DD ZBI 71 B 4-B007 0,64 kW i = 6,87 20 kg
3200	DH 516	DH 616			AMK 10 DD ZBI 71 B 4-B007 0,64 kW i = 8,32 18 kg	AMK 20 DD ZBI 80 A 4 ES-B007 0,96 kW i = 6,87 24 kg
4000	DH 520	DH 620				
5000	DH 525	DH 625		AMK 10 DD ZBI 71 B 4-B007 0,64 kW i = 8,32 24 kg	AMK 20 DD ZBI 80 B 4-B020 1,35 kW i = 6,87 24 kg	
6300	DH 532	DH 632				
8000	-	DH 640		AMK 10 DD ZBI 80 B 4-B020 1,35 kW i = 8,32 24 kg	AMK 20 DD ZBI 90 A 4-B020 1,95 kW i = 6,87 27 kg	

Trolley size 10 – EUDH/EKDH 500/600 – 4/1 rope reeving

SWL	Size		Travel drive				
			Travel speed				
kg			1,25 - 12,5 m/min	2 - 20 m/min	3,15 - 31,5 m/min	4 - 40 m/min	
5000	DH 512	-	AMK 20 DD ZBI 71 A 4-B007 0,44 kW i = 22,2 20 kg	AMK 20 DD ZBI 71 A 4-B007 0,44 kW i = 13,9 20 kg	AMK 20 DD ZBI 71 B 4-B007 0,64 kW i = 8,91 20 kg	AMK 20 DD ZBI 80 A 4-B007 0,96 kW i = 6,87 24 kg	
6300	DH 516	DH 616		AMK 20 DD ZBI 71 B 4-B007 0,64 kW i = 13,9 20 kg	AMK 20 DD ZBI 80 A 4-B007 0,96 kW i = 8,91 24 kg	AMK 20 DD ZBI 80 B 4-B020 1,35 kW i = 8,91 24 kg	AMK 20 DD ZBI 80 B 4-B020 1,35 kW i = 6,87 24 kg
8000	DH 520	DH 620					
10000	DH 525	DH 625		AMK 20 DD ZBI 71 B 4-B007 0,64 kW i = 22,2 20 kg	AMK 20 DD ZBI 80 B 4-B020 1,35 kW i = 13,9 24 kg	AMK 20 DD ZBI 90 A 4-B020 1,95 kW i = 8,91 27 kg	AMK 20 DD ZBI 90 A 4-B020 1,95 kW i = 6,87 27 kg
12500	DH 532	DH 632					
16000	-	DH 640		AMK 20 DD ZBI 80 B 4-B020 1,35 kW i = 13,9 24 kg	AUK 30 DD ZBI 90 B 4-B020 2,7 kW i = 7,78 44 kg		

Variable speed cross travel drive

Trolley size 10 – EUDH/EKDH 1000 – 2/1 rope reeving

SWL kg	Size	Travel drive			
		Travel speed			
		1,25 - 12,5 m/min	2 - 20 m/min	3,15 - 31,5 m/min	4 - 40 m/min
5000	DH 1025	AMK 20 DD ZBI 71 A 4-B007 0,44 kW i = 22,2 20 kg	AMK 20 DD ZBI 71 B 4-B007 0,64 kW i = 13,9 20 kg	AMK 20 DD ZBI 80 A 4-B007 0,96 kW i = 8,91 24 kg	AMK 20 DD ZBI 80 B 4-B020 1,35 kW i = 6,87 24 kg
6300	DH 1032				AMK 20 DD ZBI 80 A 4-B007 0,96 kW i = 13,9 24 kg
8000	DH 1040		AMK 20 DD ZBI 71 B 4-B007 0,64 kW i = 22,2 20 kg	AMK 20 DD ZBI 80 B 4-B020 1,35 kW i = 13,9 24 kg	
10000	DH 1050				AMK 20 DD ZBI 80 B 4-B020 1,35 kW i = 13,9 24 kg
12500	DH 1063	AMK 20 DD ZBI 71 B 4-B007 0,64 kW i = 22,2 20 kg	AMK 20 DD ZBI 80 B 4-B020 1,35 kW i = 13,9 24 kg	AMK 20 DD ZBI 90 A 4-B020 1,95 kW i = 8,91 24 kg	