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1. Hoist

1.1. Hoist code

K	5	1	04	D	0200	M5	06	D	D05	B	40	N
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Pos.	Code	Description		Properties												
1	K	Production platform of WORLDHOISTS														
2	5	Hoist Serial Code		2~6	2~6 as Worldhoists serial code											
3	1	Ropes		1	Number of ropes from drum											
				2												
4	04	Rope Reeving		02	Number of rope falls per rope											
				04												
				06												
				08												
5	D	Trolley Type		D	Double girder trolley											
				L	Low headroom hoist											
				N	Normal headroom hoist											
				F	Fixed hoist											
6	0200	Safe Working Load		0032	1) 0032 = 32 ×100kg = 3,200kg											
				0200	2) 0200 = 200×100kg = 20,000kg											
7	M5	Duty Group		M5	ISO/GB M3~M7				FEM 1Am~4m							
8	06	Lifting Height (m)		00	1) 00 = Special height							00~99m				
				06	2) 06 = 6m											
				18	3) 18 = 18m											
9	D	Lifting Speed (m/min)		A	2.5/0.4			B		3.2/0.5						
				C	4/0.7			D		5/0.8						
				E	6.3/1.1			F		8/1.3						
				G	10/1.7			H		12.5/2.1						
				J	16/2.7			K		20/3.3						
10	D05	Lifting Motor (kW)		D = Pole change motor		D01	2/0.25		D02		3.7/0.5		D03		5/0.7	
						D04	7.5/1.2		D05		9/1.4		D06		15/2.5	
						D07	18.5/3		D08		23/3.5					
				F = Frequency convertor motor		F11	2.5		F12		3.7		F13		5	
						F14	7.5		F15		9		F16		15	
						F17	18.5		F18		23		F19		28	
						F20	35									
11	B	Travelling Speed (m/min)		B	0~20				C		0~25					
				D	0~32				S		Special speed					
12	40	Rail Gauge (mm)		Low Headroom/ Normal Headroom Flange width			40 = 400mm			Double Girder Rail gauge			40 = 4000mm			
13	N	Special properties		N	Standard hoist without any options											
				F	Options selected from option list											
				S	Special hoist											

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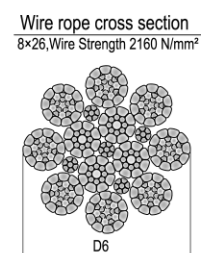
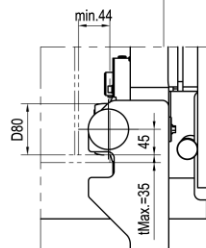
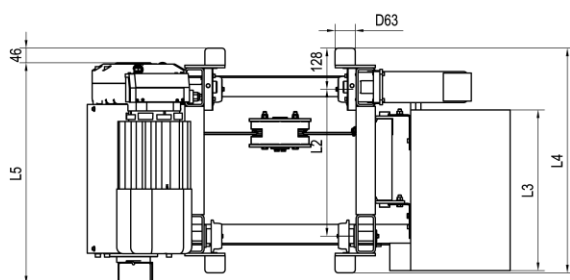
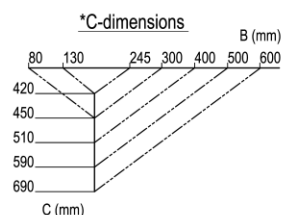
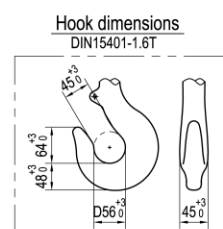
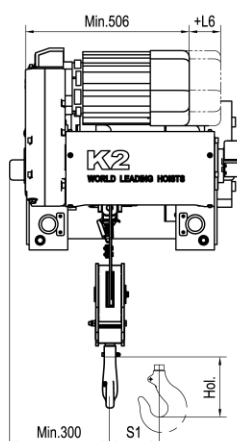
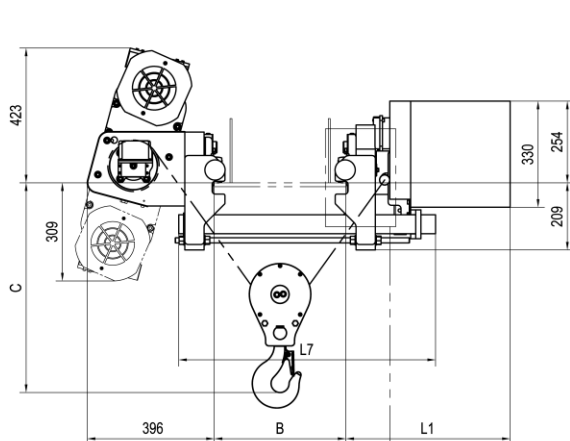
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1.2. Low Headroom Hoist K2102 (Reeving 1:2)

HOL (m)	B	L1	L2	L3	L4	L5	S1	Weight (kg)
12	80~	512	457	500	699	688	52	238+W0
19	610	452	652	500	894	883	83	262+W0

motor	D01	F11	D02	F12
L6	0	47	89	136
W0	0	0	11	11

L7(mm)	B(mm)	L7(mm)	B(mm)
600	>100-210	900	>410-510
700	>210-310	1000	>510-610
800	>310-410		



Load (kg)	Class FEM/ISO	Hoisting				Travelling	
		Gear Ratio 70				Gear Ratio 6	
		Speed (m/min)	Motor	Speed (m/min)	Motor	Speed / Motor Code (m/min)	
1000	3m/M6	10/1.7 2-speed	1x D01	0~10 Stepless	1x F11	0~20 / 1x F01	0~32 / 1x F02
1600	2m/M5		1x D02		1x F12		

*C-dimensions should be increased by 200mm for safety;

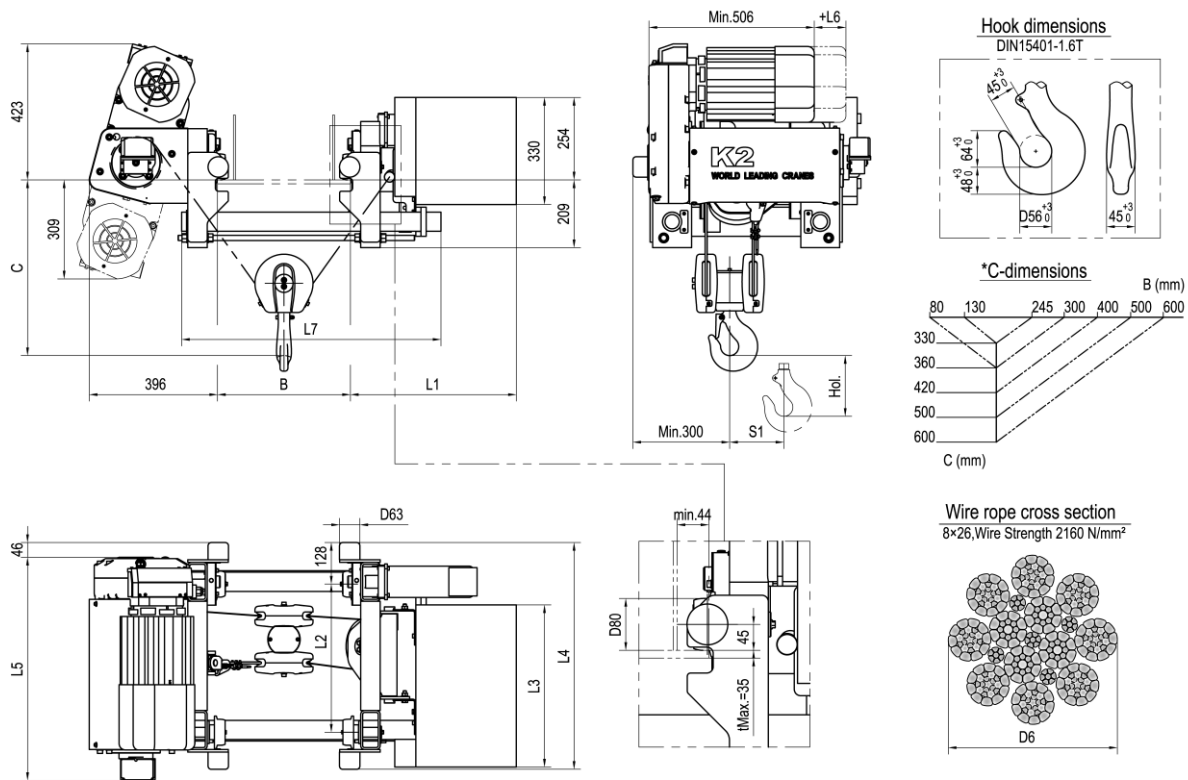
*Weight calculated with B in 410.

1.3. Low Headroom Hoist K2104 (Reeving 1:4)

HOL (m)	B	L1	L2	L3	L4	L5	S1	Weight (kg)
6	80~ 610	512	457	500	699	688	52	238+w0
9.5		452	652	500	894	883	83	262+w0

motor	D01	F11	D02	F12	D03	F13
L6	0	47	89	136	89	136
W0	0	0	11	11	12	9

L7(mm)	B(mm)	L7(mm)	B(mm)
600	>100-210	900	>410-510
700	>210-310	1000	>510-610
800	>310-410		



Load (kg)	Class FEM/ISO	Hoisting												Travelling	
		Gear Ratio 70				Gear Ratio 56				Gear Ratio 47				Gear Ratio 6	
		Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed / Motor Code (m/min)	
1600	3m/M6	5/0.8 2-speed	1x D01	0-5 Stepless	1x F11	6.3/1.1 2-speed	1xD02	0-6.3 Stepless	1xF12	8/1.3 2-speed	1xD03	0-8 Stepless	1xF13	0-20 / 1×F02	0-32 / 1×F02
2000	3m/M6														
2500	3m/M6														
3200	2m/M5														

***C-dimensions should be increased by 200mm for safety;**

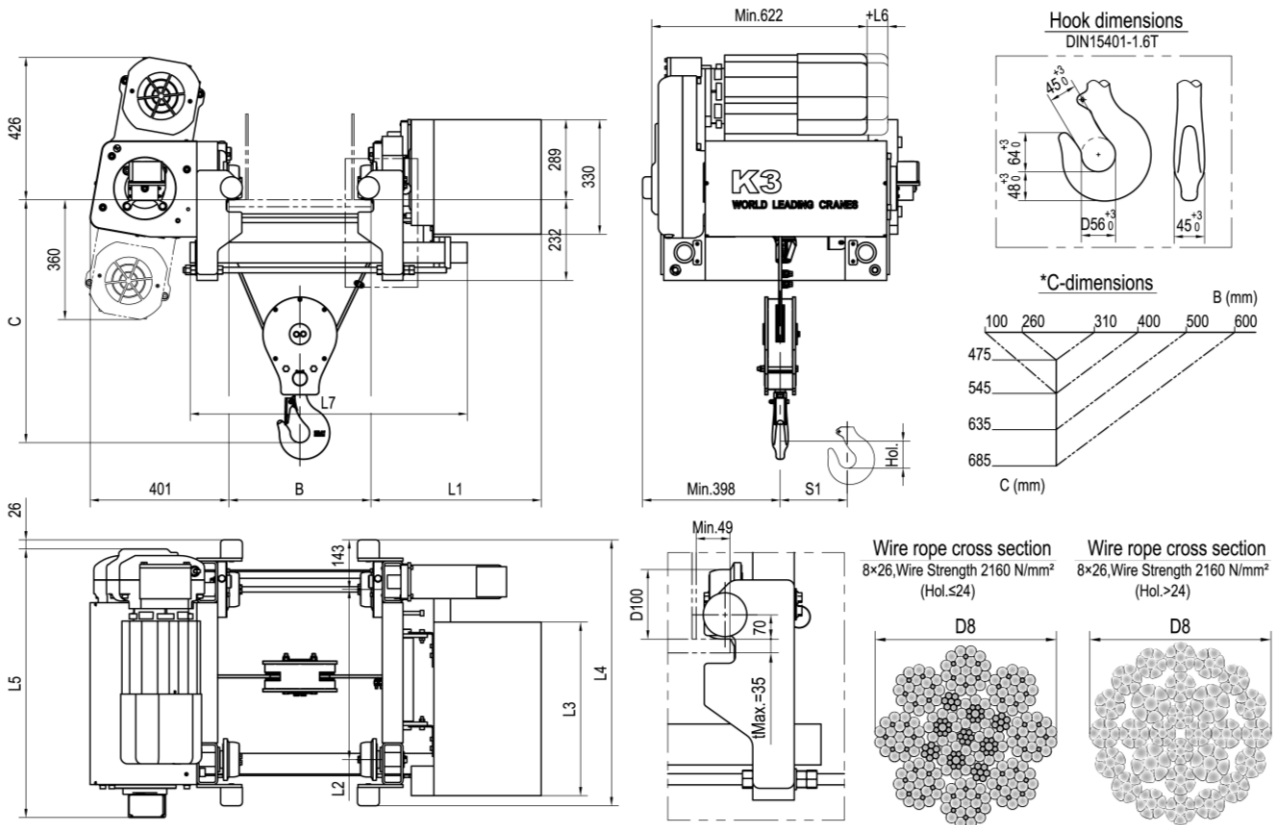
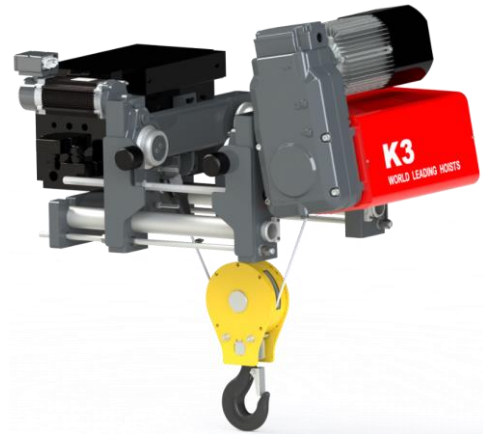
*Weight calculated with B in 410.

1.4. Low Headroom Hoist K3102 (Reeving 1:2)

HOL (m)	B	L1	L2	L3	L4	L5	S1	Weight (kg)
12	100~610	492	490	500	766	774	52	349+W0
18		432	640	500	916	924	83	364+W0
24		432	810	500	1086	1094	108	387+W0
30		482	970	500	1246	1254	125	416+W0

motor	D03	F13	motor	D03	F13
L6	0	47	W0	0	-3

L7(mm)	B(mm)	L7(mm)	B(mm)
600	>100-210	900	>410-510
700	>210-310	1000	>510-610
800	>310-410		



Load (kg)	Class FEM/ISO	Hoisting												Travelling	
		Gear Ratio 109				Gear Ratio 90				Gear Ratio 59				Gear Ratio 6	
		Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed / Motor Code (m/min)	
1600	3m/M6	8/1.3 2-speed	1xD03	0-8 Stepless	1xF13	10/1.7 2-speed	1xD03	0-10 Stepless	1xF13	16/2.7 2-speed	1xD04	0-16 Stepless	1xF14	0-20 / 1xF02	0-32 / 1xF02
2000	3m/M6														
2500	2m/M5														
3200	1Am/M4						N/A		N/A		N/A		N/A		

*C-dimensions should be increased by 200mm for safety;

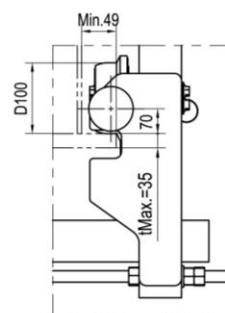
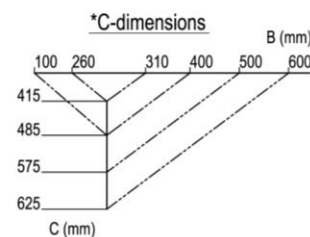
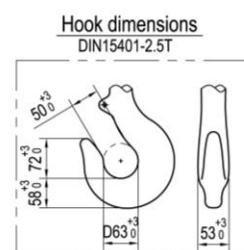
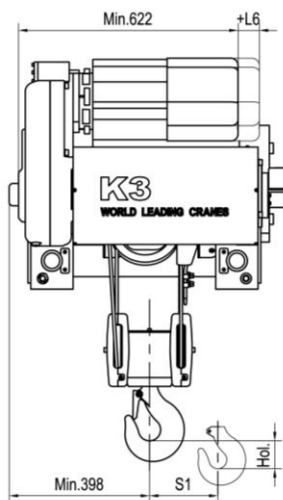
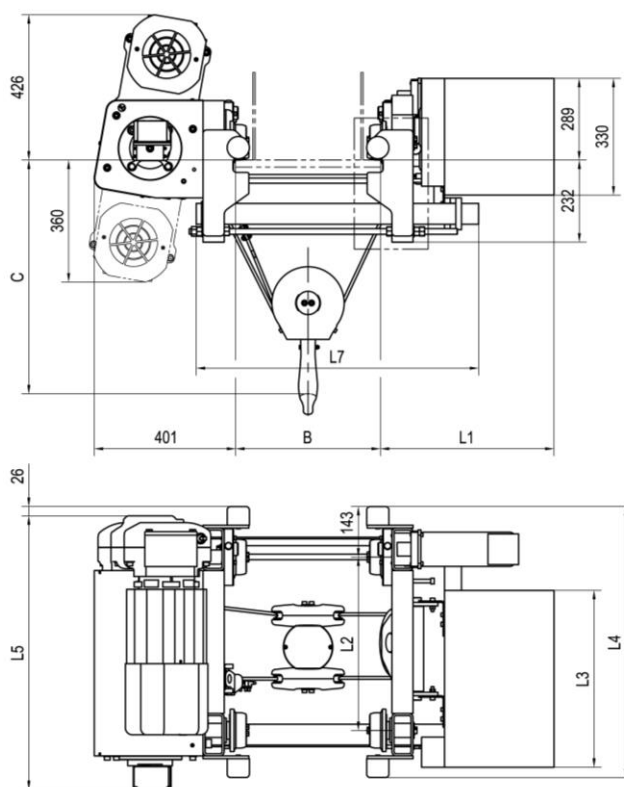
*Weight calculated with B in 410.

1.5. Low Headroom Hoist K3104 (Reeving 1:4)

HOL (m)	B	L1	L2	L3	L4	L5	S1	Weight (kg)
6	100~610	492	490	500	766	774	52	349+W0
9		432	640	500	916	924	83	364+W0
12		432	810	500	1086	1094	108	387+W0
15		482	970	500	1246	1254	125	416+W0

motor	D03	F13	D04	F14
L6	0	47	71	118
W0	0	-3	17	12

L7(mm)	B(mm)	L7(mm)	B(mm)
600	>100-210	900	>410-510
700	>210-310	1000	>510-610
800	>310-410		



Load (kg)	Class FEM/IS O	Hoisting												Travelling	
		Gear Ratio 109				Gear Ratio 90				Gear Ratio 59				Gear Ratio 6	
		Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed / Motor Code (m/min)	
3200	3m/M6	4/0.7 2-speed	1xD03	0-4 Stepless	1xF13	5/0.8 2-speed	1xD03	0-5 Stepless	1xF13	8/1.3 2-speed	1xD04	0-8 Stepless	1xF14	0-20 / 1xF02	0-32 / 1xF02
4000	3m/M6														
5000	2m/M5														

*C-dimensions should be increased by 200mm for safety;

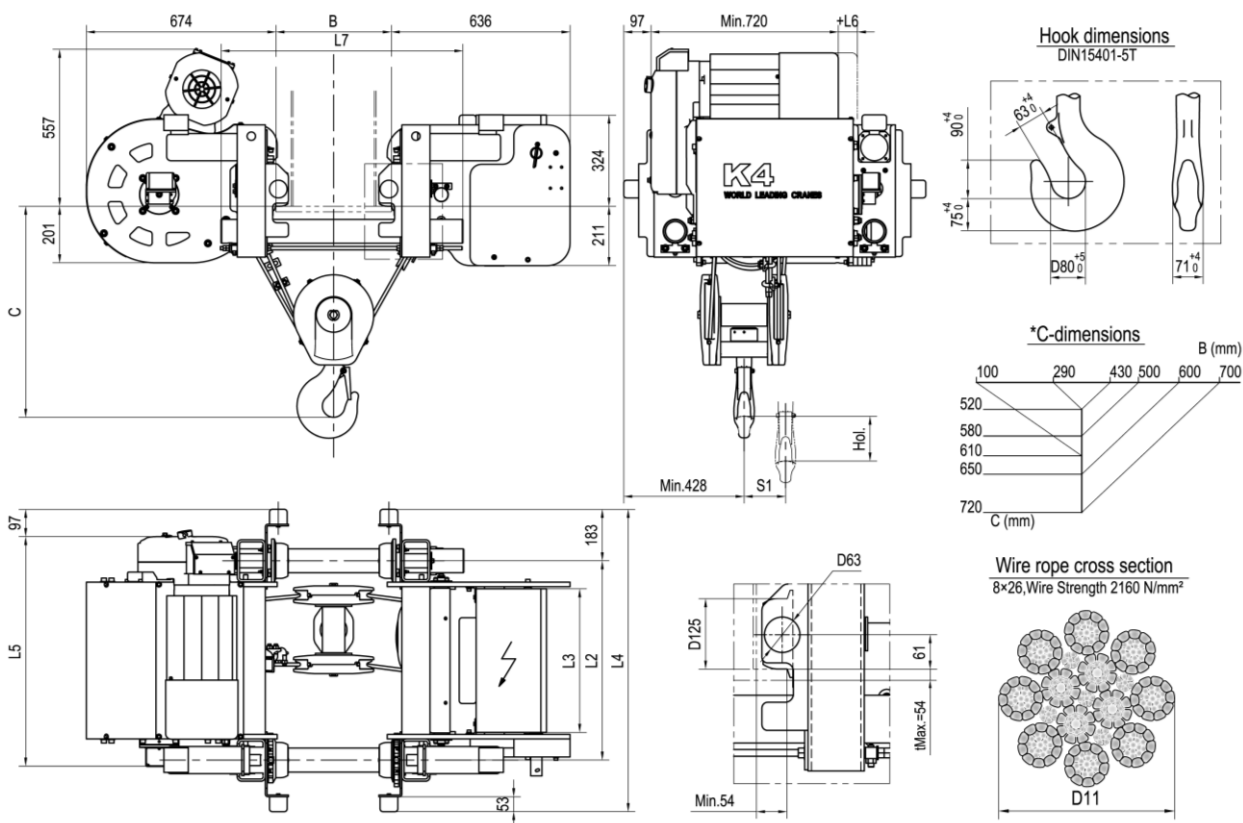
*Weight calculated with B in 410.

1.7. Low Headroom Hoist K4104 (Reeving 1:4)

HOL (m)	B	L2	L3	L4	L5	S1	Weight (kg)
9	100~710	708	510	1074	817	90	686+W0
12		838	650	1204	947	120	774+W0
16		1008	820	1374	1117	170	854+W0

motor	D05	F15	D06	F16
L6	0	12	-12	85
W0	0	-4	33	22

L7(mm)	B(mm)	L7(mm)	B(mm)
660	>100-210	960	>410-510
760	>210-310	1060	>510-610
860	>310-410	1160	>610-710



Load (kg)	Class FEM/ISO	Hoisting														Travelling			
		Gear ratio 229				Gear ratio 185				Gear ratio 114				Gear ratio 90				Gear Ratio 6	
		Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed / Motor Code (m/min)			
5000	3m/M6	4/0.7 2-speed	1xD05	0-4 Stepless	1xF15	5/0.8 2-speed	1xD05	0-5 Stepless	1xF15	8/1.3 2-speed	1xD06	0-8 Stepless	1xF16	10/1.7 2-speed	1xD07	0-10 Stepless	1xF17	0-20 / 2xF02	0-32 / 2xF02
6300	3m/M6																		
8000	3m/M6																		
10000	2m/M5																		

*C-dimensions should be increased by 200mm for safety;

*Weight calculated with B in 410.

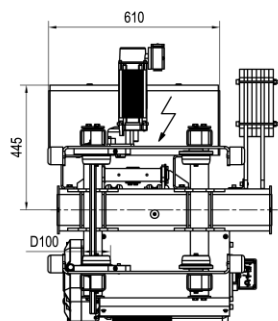
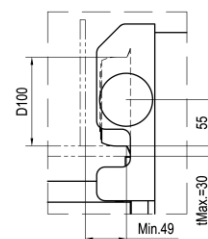
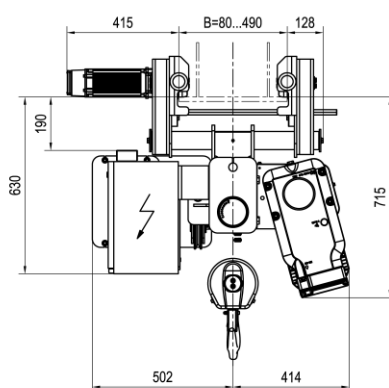
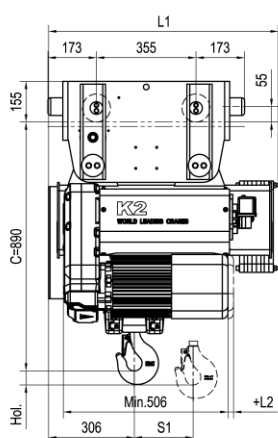
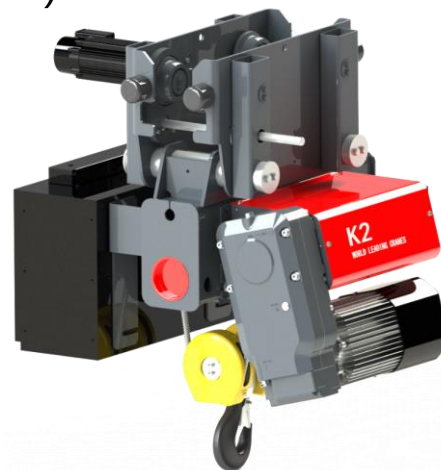
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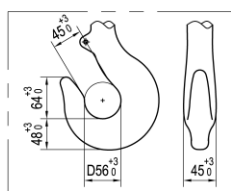
1.8. Normal Headroom Hoist K2104 (Reeving 1:4)

HOL (m)	L1	S1	Weight (kg)
6	819	52	405+W0
9.5	885	83	435+W0

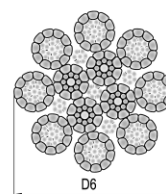
motor	D01	F11	D02	F12	D03	F13
L2	0	47	89	136	89	136
W0	0	0	11	11	12	9



Hook dimensions
DIN15401-1.6T



Wire rope cross section
8x26, Wire Strength 2160 N/mm²

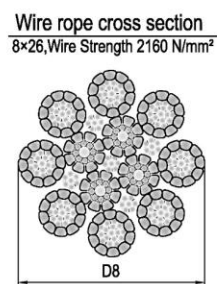
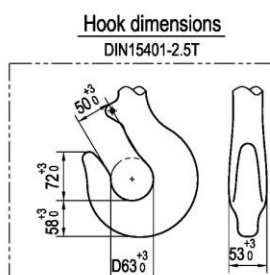
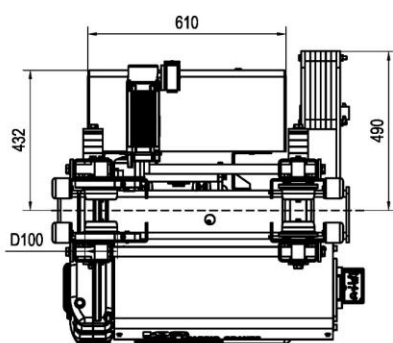
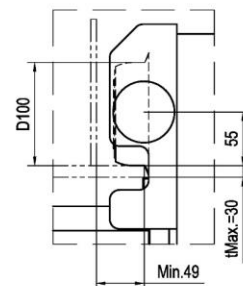
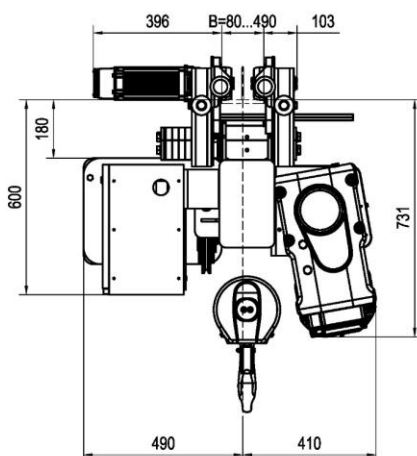
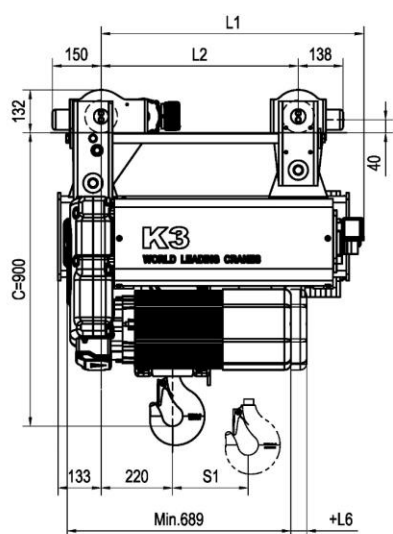


Load (kg)	Class FEM/ISO	Hoisting												Travelling
		Gear Ratio 70				Gear Ratio 56				Gear Ratio 47				Gear Ratio 6
		Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed / Motor Code (m/min)
1600	3m/M6	5/0.8 2-speed	1x D01	0-5 Stepless	1x F11	6.3/1.1 2-speed	1xD02	0-6.3 Stepless	1xF12	8/1.3 2-speed	1xD03	0-8 Stepless	1xF13	0~20 /1xF02
2000	3m/M6		1x D02		1x F12									
2500	3m/M6													
3200	2m/M5													

1.9. Normal Headroom Hoist K3104 (Reeving 1:4)

HOL (m)	L1	L2	S1	Weight (kg)
6	659	477	52	500+W0
9	809	607	83	515+W0
12	979	607	108	555+W0
15	1139	807	140	595+W0

motor	D03	F13	D04	F14
L6	0	47	71	118
W0	0	-3	17	12

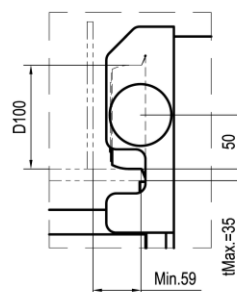
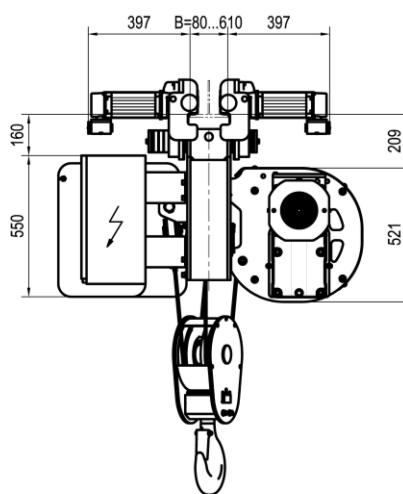
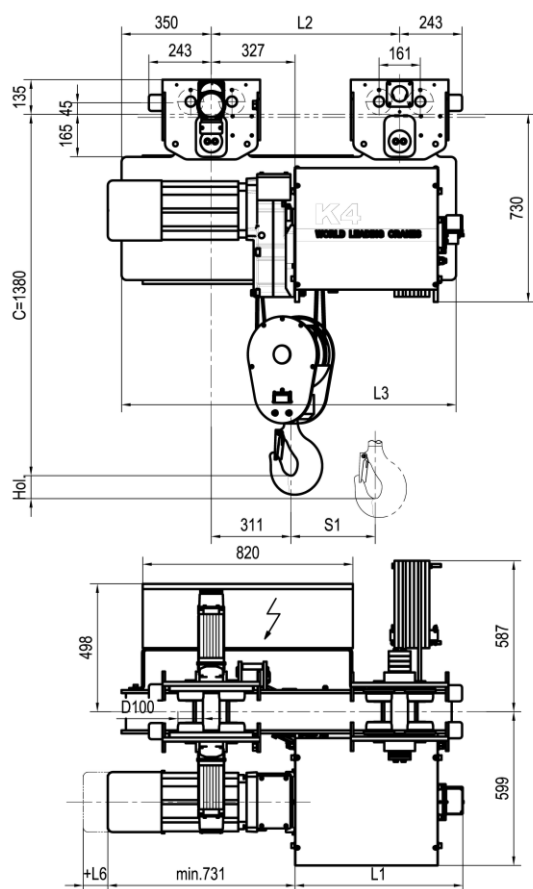


Load (kg)	Class FEM/ISO	Hoisting												Travelling
		Gear Ratio 109				Gear Ratio 90				Gear Ratio 59				Gear Ratio 6
		Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	
3200	3m/M6	4/0.7 2-speed	1xD03	0~4 Stepless	1xF13	5/0.8 2-speed	1xD03	0~5 Stepless	1xF13	8/1.3 2-speed	1xD04	0~8 Stepless	1xF14	0~20 /1xF02
4000	3m/M6													
5000	2m/M5													

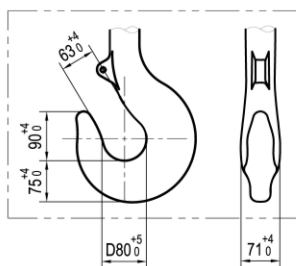
1.10. Normal Headroom Hoist K4104 (Reeving 1:4)

HOL (m)	L1	L2	L3	S1	Weight (kg)
9	654	735	1305	90	1022+W0
12	784	865	1435	120	1065+W0
16	954	915	1605	170	1099+W0
20	1114	915	1775	220	1140+W0
26	1384	1050	1910	280	1265+W0

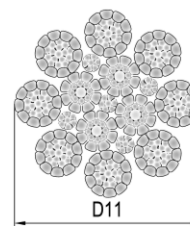
motor	D05	F15	D06	F16
L6	0	12	-12	85
W0	0	-4	33	22



Hook dimensions
DIN15401-5T



Wire rope cross section
8x26, Wire Strength 2160 N/mm²



Load (kg)	Class FEM/ISO	Hoisting																Travelling	
		Gear ratio 229				Gear ratio 185				Gear ratio 114				Gear ratio 90				Gear Ratio 6	
		Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed / Motor Code (m/min)	
5000	3m/M6	4/0.7 2-speed	1xD05	0-4 Stepless	1xF15	5/0.8 2-speed	1xD05	0-5 Stepless	1xF15	8/1.3 2-speed	1xD06	0-8 Stepless	1xF16	10/1.7 2-speed	1xD07	0-10 Stepless	1xF17	0-20 / 2xF02	0-32 / 2xF02
6300	3m/M6																		
8000	3m/M6																		
10000	2m/M5																		

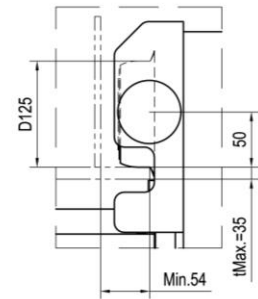
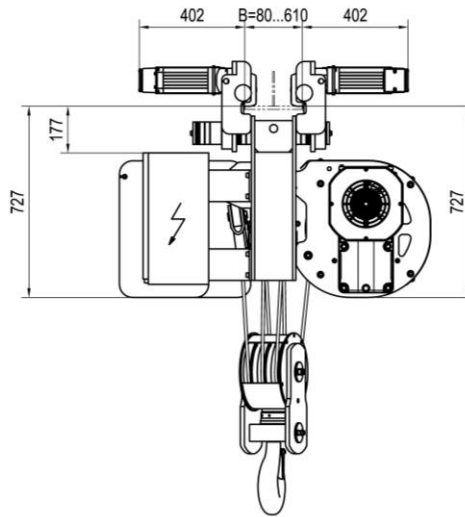
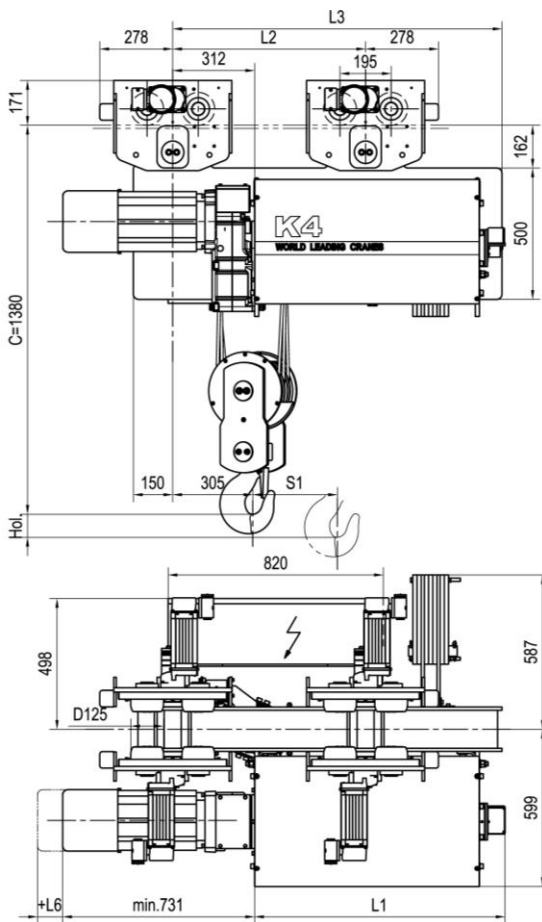
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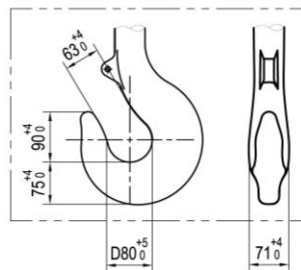
1.11. Normal Headroom Hoist K4106 (Reeving 1:6)

HOL (m)	L1	L2	L3	S1	Weight (kg)
6	654	735	955	99	1037+W0
8	784	865	1085	115	1080+W0
10	954	915	1255	131	1114+W0
13	1114	915	1425	169	1155+W0
17	1384	1050	1560	219	1226+W0

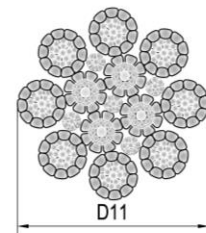
motor	D05	F15	D06	F16	D07	F17
L6	0	12	-12	85	75	85
W0	0	-4	33	22	55	39



Hook dimensions
DIN15401-5V



Wire rope cross section
8x26, Wire Strength 2160 N/mm²

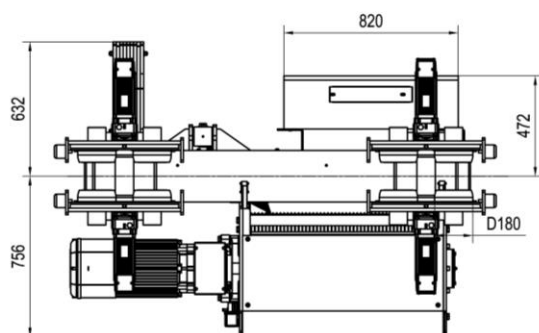
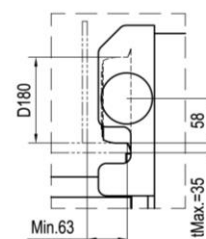
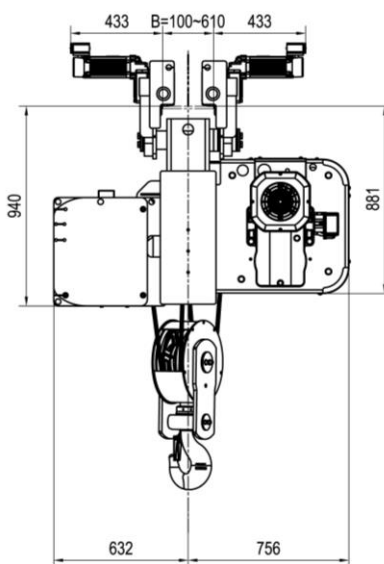
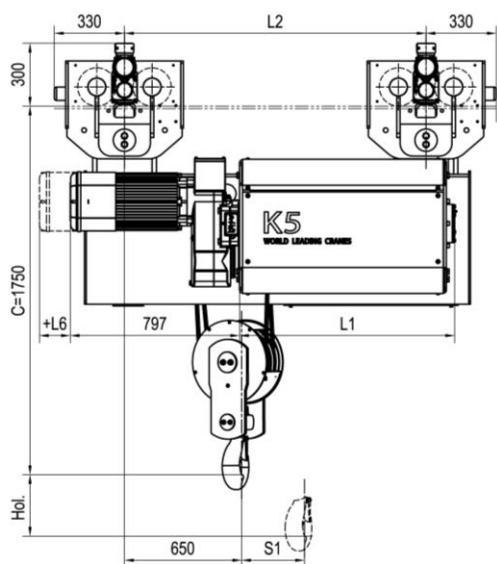


Load (kg)	Class FEM/ISO	Hoisting (m/min)												Travelling	
		Gear ratio 186				Gear ratio 115				Gear ratio 90				Gear ratio 42	
		Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed / Motor Code (m/min)	
12000	3m/M6	3.2/0.5 2-speed	1xD05	0-3.2 Stepless	1xF15	5/0.8 2-speed	1xD06	0-5 Stepless	1xF16	6.3/1.1 2-speed	1xD07	0-6.3 Stepless	1xF17	0-20 /4xF01	
15000	2m/M5														

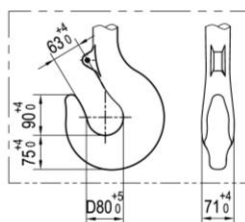
1.12. Normal Headroom Hoist K5104 (Reeving 1:4)

Hol (m)	L1	L2	S1	Weight (kg)
7.5	565	1200	72	1520+W0
9	615	1200	86	1536+W0
10.5	685	1200	99	1560+W0
12	765	1200	115	1610+W0
14	815	1419	131	1640+W0
18	1015	1419	169	1740+W0
23.5	1215	1419	221	1950+W0
30.5	1515	1450	287	2100+W0
40	1915	1450	378	2400+W0
48.5	2265	1450	456	2750+W0

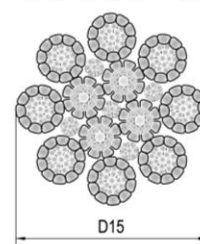
motor	D06	F16	D07	F17	D08	F18
L6	0	97	87	97	87	137
W0	0	-11	22	6	22	10



Hook dimensions
DIN15401-5V



Wire rope cross section
8x26, Wire Strength 2160 N/mm²



Load (kg)	Class FEM/ ISO	Hoisting																Travelling		
		Gear ratio 289				Gear ratio 243				Gear ratio 191				Gear ratio 144		Gear ratio 114		Gear Ratio 15		
		Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed / Motor Code (m/min)		
12500	3m/M6	4/0.7 2-speed	1xD06	0-4 Stepless	1xF16	5/0.8 2-speed	1xD06	0-5 Stepless	1xF16	6.3/1.1 2-speed	1xD07	0-6 Stepless	1xF17	0-8 Stepless	1xF18	0-10 Stepless	1xF19	N/A	0-20 / 4xF02	0-32 / 4xF02
16000	2m/M5						1xD07		1xF17		1xD08		1xF18							
20000	1Am/M4																			

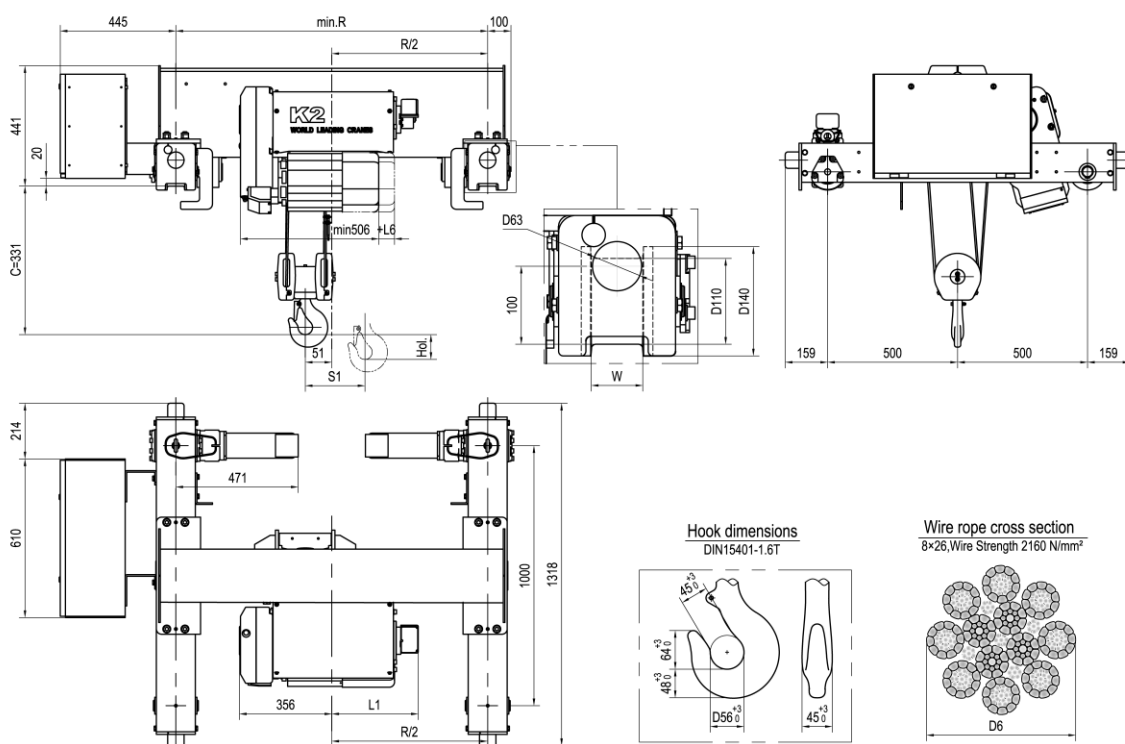
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1.13. Double Girder Hoist K2104 (Reeving 1:4)

Ho (m)	L1	S1	W	R	Weight (kg)
6	332	52	Default: 75	1200	413+W0
9.5	527	83		1400	452+W0

motor	D01	F11	D02	F12	D03	F13
L6	0	47	89	136	89	136
W0	0	0	11	11	12	9



Load (kg)	Class FEM/ISO	Hoisting (m/min)												Travelling (m/min)	
		Gear Ratio 70				Gear ratio 56				Gear Ratio 47				Gear ratio 42	Gear ratio 32
		Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed/Motor Code	
1600	3m/M6	5/0.8 2-speed	1xD01	0-5 Stepless	1xF11	6.3/1.1 2-speed	1xD02	0-6.3 Stepless	1xF12	8/1.3 2-speed	1xD03	0-8 Stepless	1xF13	0-25/ 2xF01	0-32/ 2xF01
2000	3m/M6														
2500	3m/M6														
3200	2m/M5														

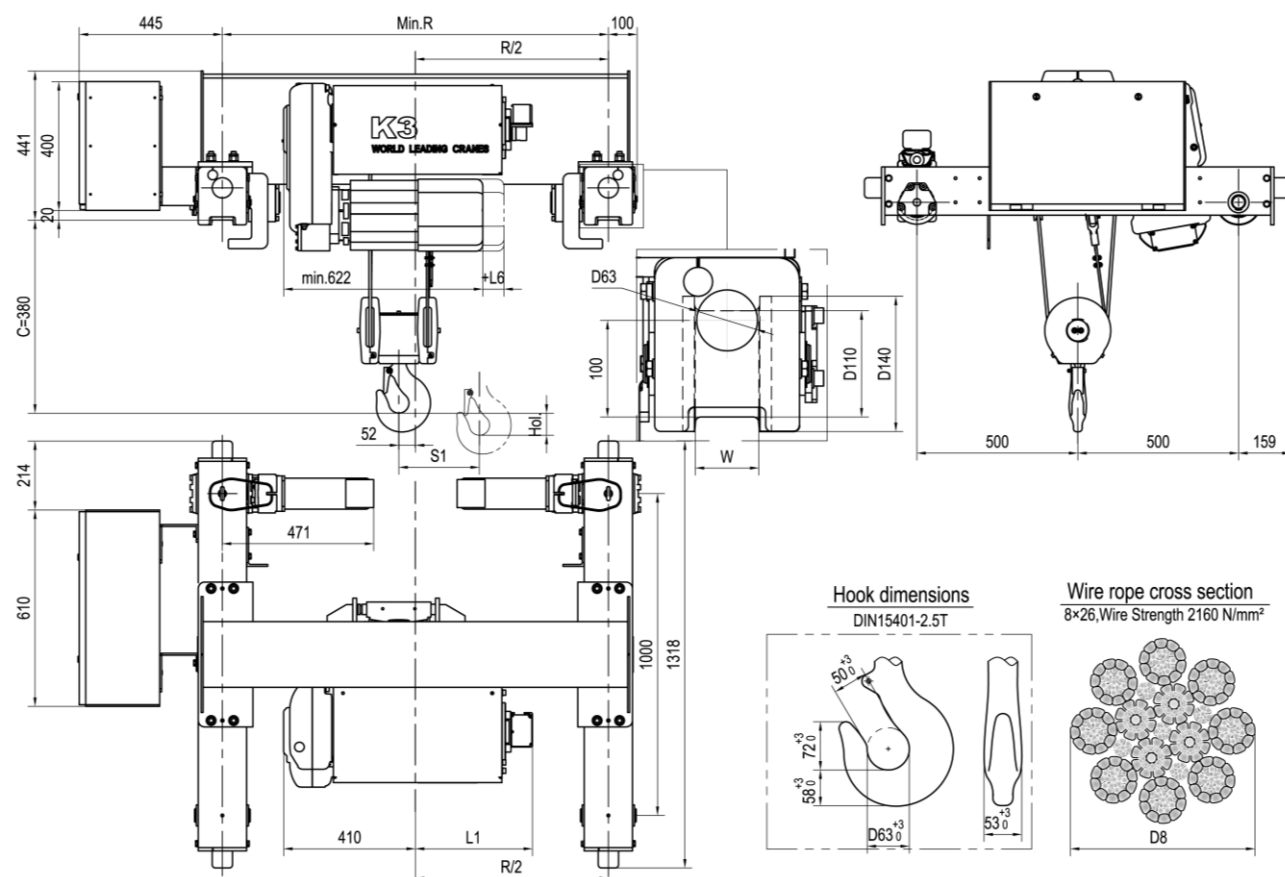
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1.14. Double Girder Hoist K3104 (Reeving 1:4)

Hol (m)	L1	S1	W	R	Weight (kg)
6	364	52	Default: 75	1200	474+W0
9	514	83		1200	488+W0
12	684	108		1700	537+W0
15	844	140		1700	552+W0

motor	D03	F13	D04	F14
L6	0	47	71	118
W0	0	-3	17	12



Load (kg)	Class FEM/ISO	Hoisting (m/min)												Travelling (m/min)	
		Gear ratio 109				Gear ratio 90				Gear ratio 59				Gear ratio 42	Gear ratio 32
		Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed/Motor Code	
4000	3m/M6	400.7 2-speed	1xD03	0-4 Stepless	1xF13	570.8 2-speed	1xD03	0-5 Stepless	1xF13	871.3 2-speed	1xD04	0-8 Stepless	1xF14	0-25/ 2xF01	0-32/ 2xF01
5000	2m/M5					N/A									
6300	1Am/M4														

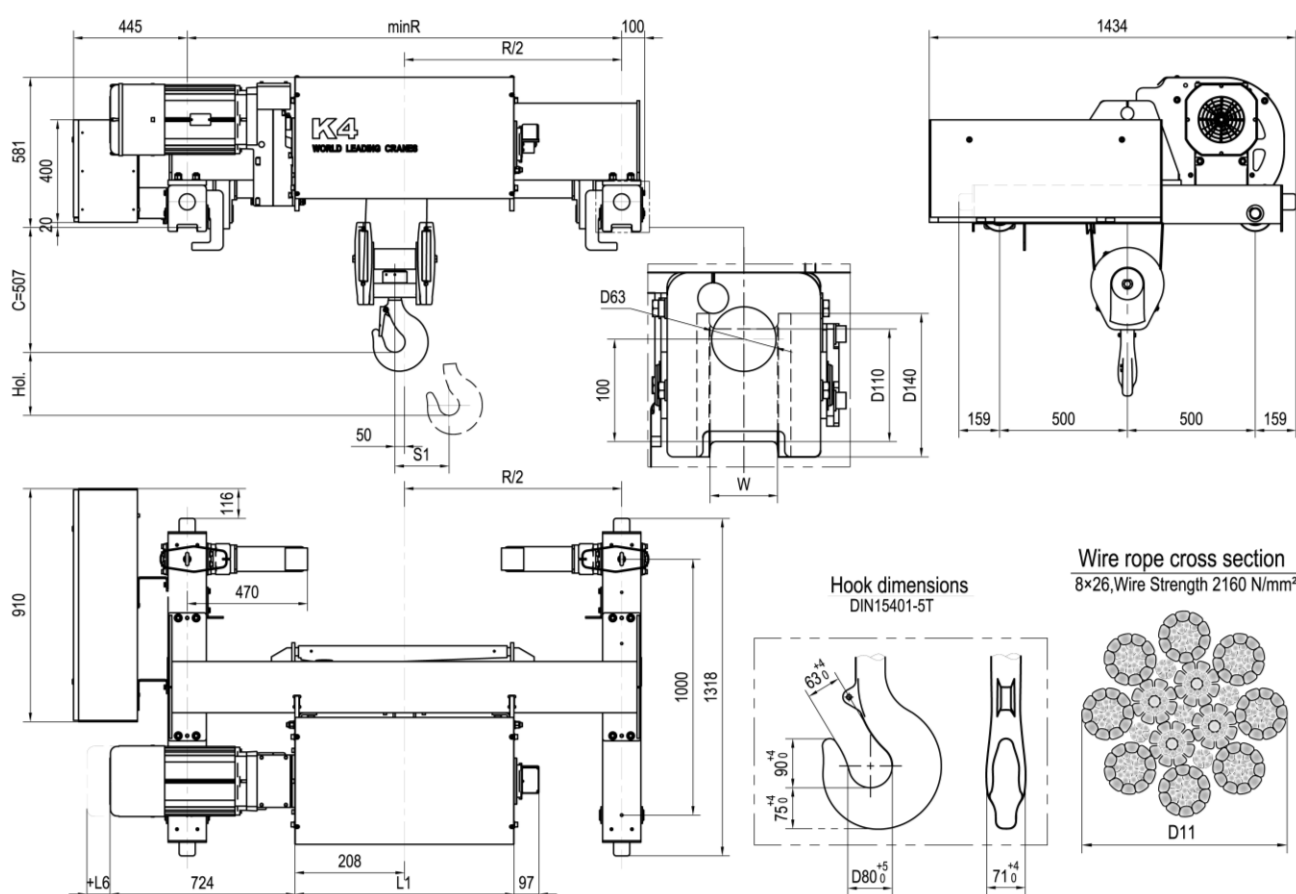
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1.15. Double Girder Hoist K4104 (Reeving 1:4)

Hol (m)	L1	S1	W	R	Weight (kg)
9	654	55	Default:75	1200	744+W0
12	784	80		1400	802+W0
16	954	100		1700	860+W0
20	1114	135		2000	916+W0
26	1384	185		2700	988+W0

motor	D05	F15	D06	F16	D07	F17
L6	0	12	-12	85	75	85
W0	0	-4	33	22	55	39

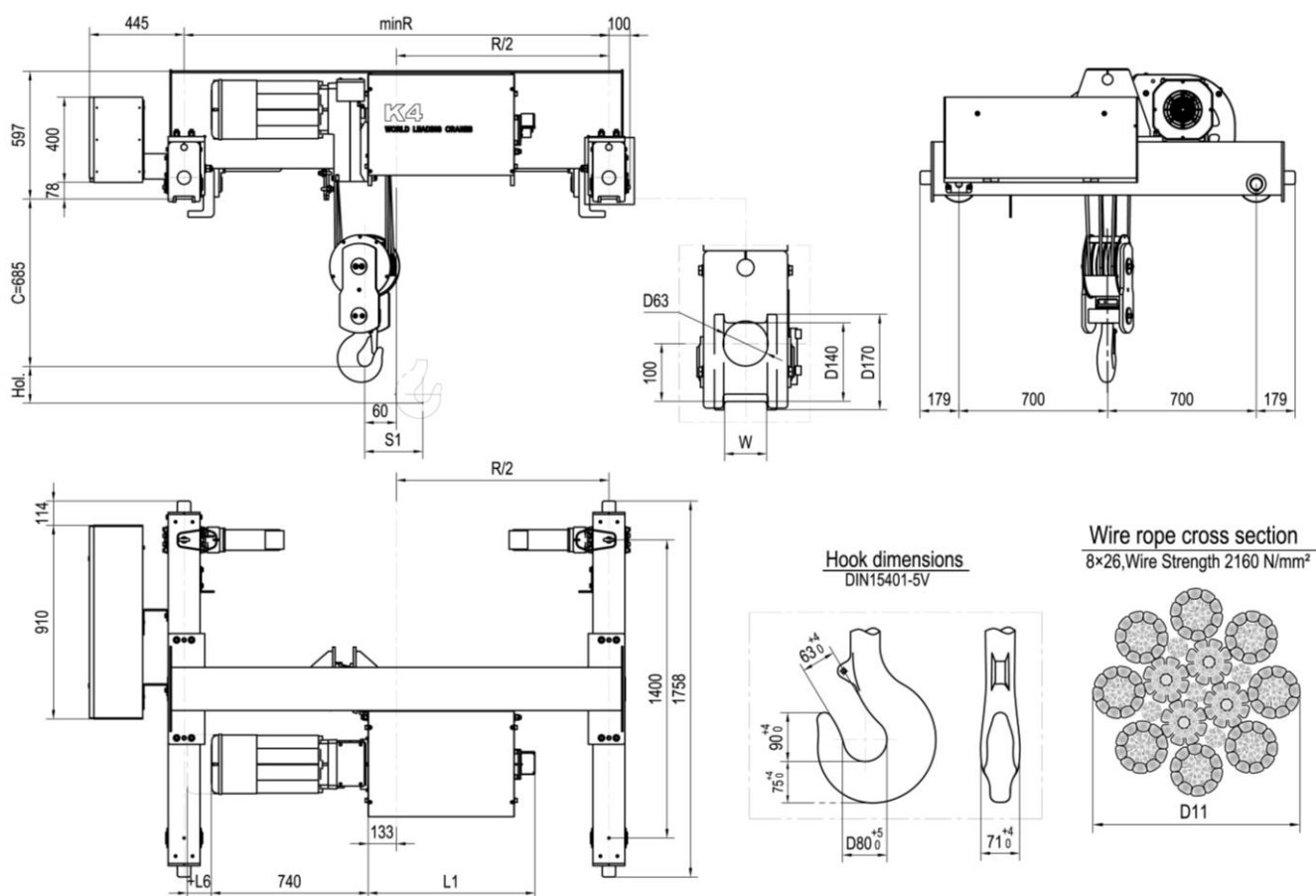


Load (kg)	Class FEM/ISO	Hoisting (m/min)																Travelling (m/min)										
		Gear ratio 229				Gear ratio 185				Gear ratio 114				Gear ratio 92				Gear ratio 42	Gear ratio 32									
		Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed/Motor Code										
5000	3m/M6	2-speed 40/0.7	1xD05 U=4	Stepless	1xF15 U=8	2-speed	1xD05	U=5	Stepless	1xF15	U=1.3	2-speed	1xD06	U=8	Stepless	1xF16	U=1.7		2-speed	1xD07	U=10	Stepless	1xF17	0-25 / 2xF02	0-32 / 2xF02			
6300	3m/M6																											
8000	3m/M6																											
10000	2m/M5																											
12500	1Am/M4					N/A																						

1.16. Double Girder Hoist K4106 (Reeving 1:6)

Hol (m)	L1	S1	W	R	Weight (kg)
6	654	99	Default: 75	1700	1000+W0
8	784	115		2000	1063+W0
10	954	131		2400	1148+W0
13	1114	169		2700	1218+W0
17	1384	219		3100	1293+W0

motor	D05	F15	D06	F16	D07	F17
L6	0	12	-12	85	75	85
W0	0	-4	33	22	55	39

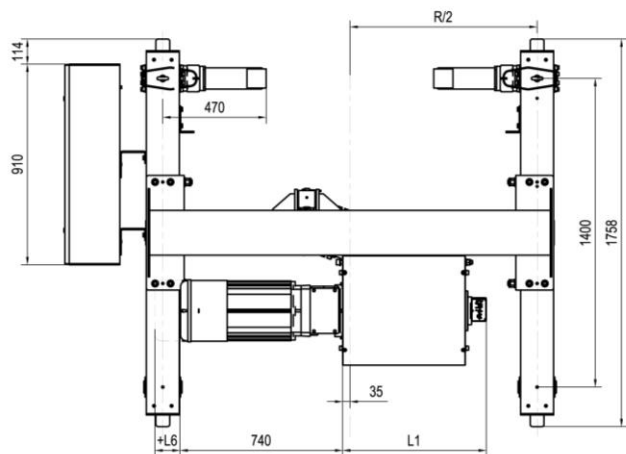
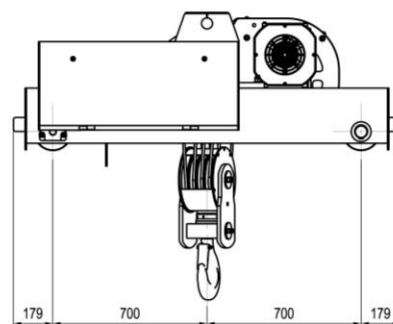
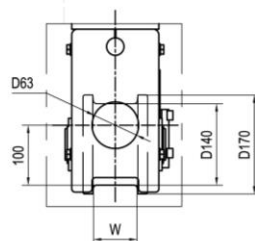
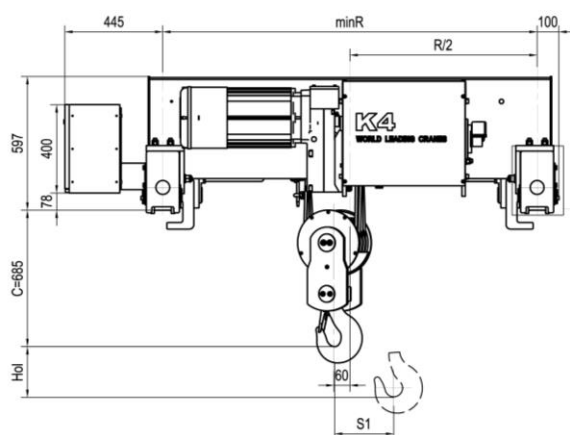


Load (kg)	Class FEM/ISO	Hoisting (m/min)												Travelling (m/min)
		Gear ratio 186				Gear ratio 115				Gear ratio 90				Speed/Motor Code
		Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	
12000	3m/M6	3.2/0.5	1xD05	0.3/2	1xF15	5/0.8	1xD06	0.5	1xF16	6.3/1.1	1xD07	0.6/3	1xF17	0-20 /2xF02
15000	2m/M5	2-speed	1xD05	Stepless	1xF15	2-speed	1xD06	Stepless	1xF16	2-speed	1xD07	Stepless	1xF17	

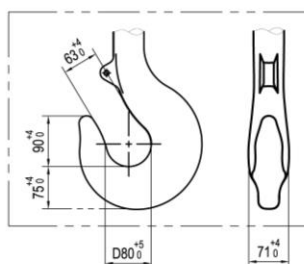
1.17. Double Girder Hoist K4108 (Reeving 1:8)

Hol (m)	L1	S1	W	R	Weight (kg)
4.5	654	99	Default: 75	1700	1055+W0
6	784	115		2000	1068+W0
8	954	131		2400	1153+W0
10	1114	169		2400	1187+W0
13	1384	265		3100	1298+W0

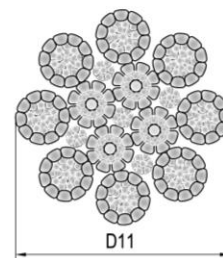
motor	D05	F15	D06	F16	D07	F17
L6	0	12	-12	85	75	85
W0	0	-4	33	22	55	39



Hook dimensions
DIN15401-5V



Wire rope cross section
8x26, Wire Strength 2160 N/mm²



Load (kg)	Class FEM/ISO	Hoisting (m/min)												Travelling (m/min)	
		Gear ratio 186				Gear ratio 115				Gear ratio 90				Gear ratio 42	Gear* ratio 63
		Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed/Motor Code	
16000	2m/M5	2.5/0.4 2-speed	1xD05	0~2.5 Stepless	1xF15	4/0.7 2-speed	1xD06	0~4 Stepless	1xF16	5/0.8 2-speed	1xD07	0~5 Stepless	1xF17	0~20 /2xF02	0~32 /2xF03
20000	1Am/M4														

*Travelling speed 0~32 should be equipped with the wheel of 200mm;

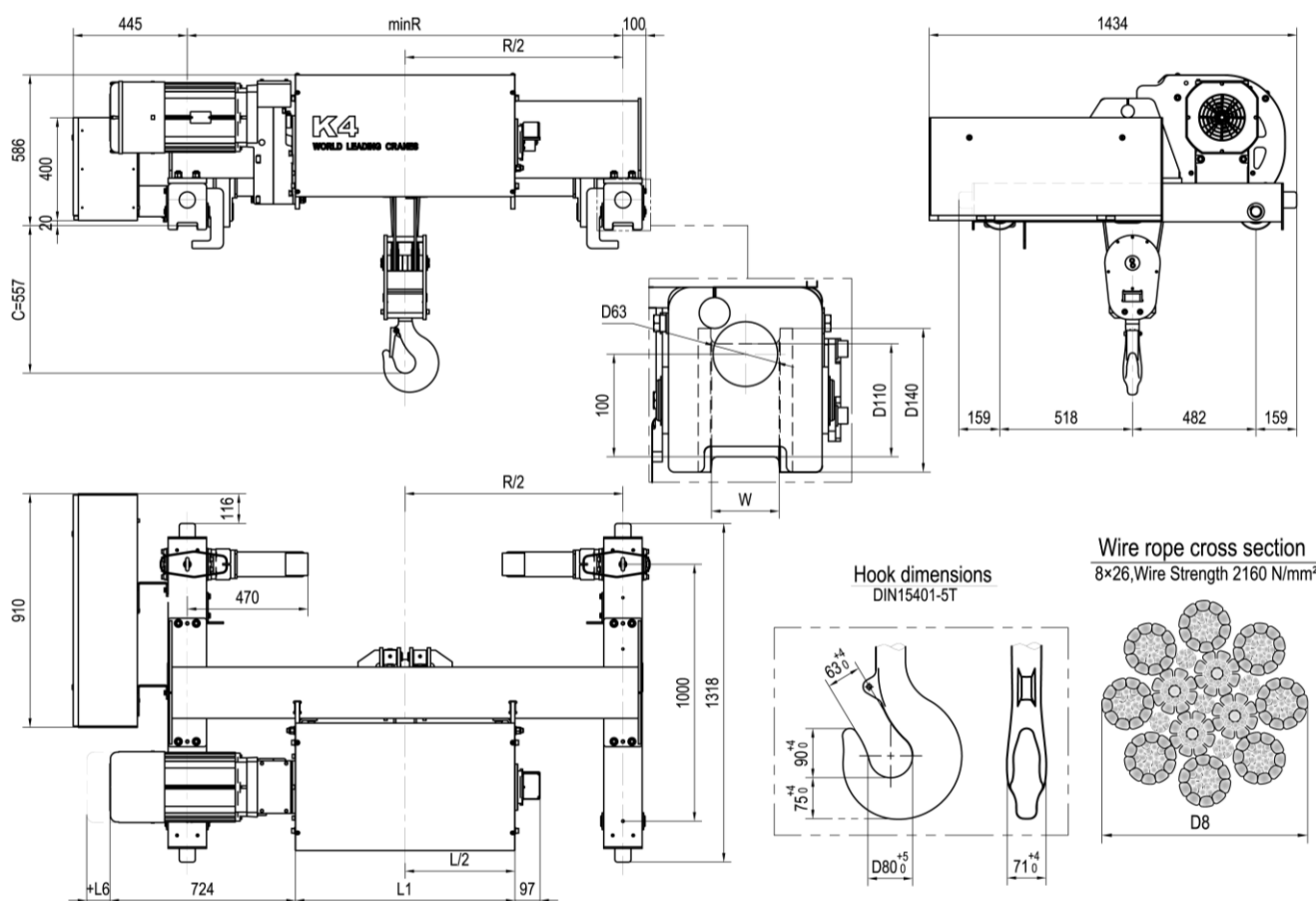
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1.18. Double Girder Hoist K4202 (Reeving 2:2)

Hol (m)	L1	W	R	Weight (kg)
9	654	Default: 75	1400	698+W0
13.5	784		1700	746+W0
19.5	954		1700	780+W0
25	1114		2000	834+W0
34.5	1384		2400	887+W0
46.5	1734		2700	986+W0

motor	D05	F15	D06	F16	D07	F17
L6	0	12	-12	85	75	85
W0	0	-4	33	22	55	39

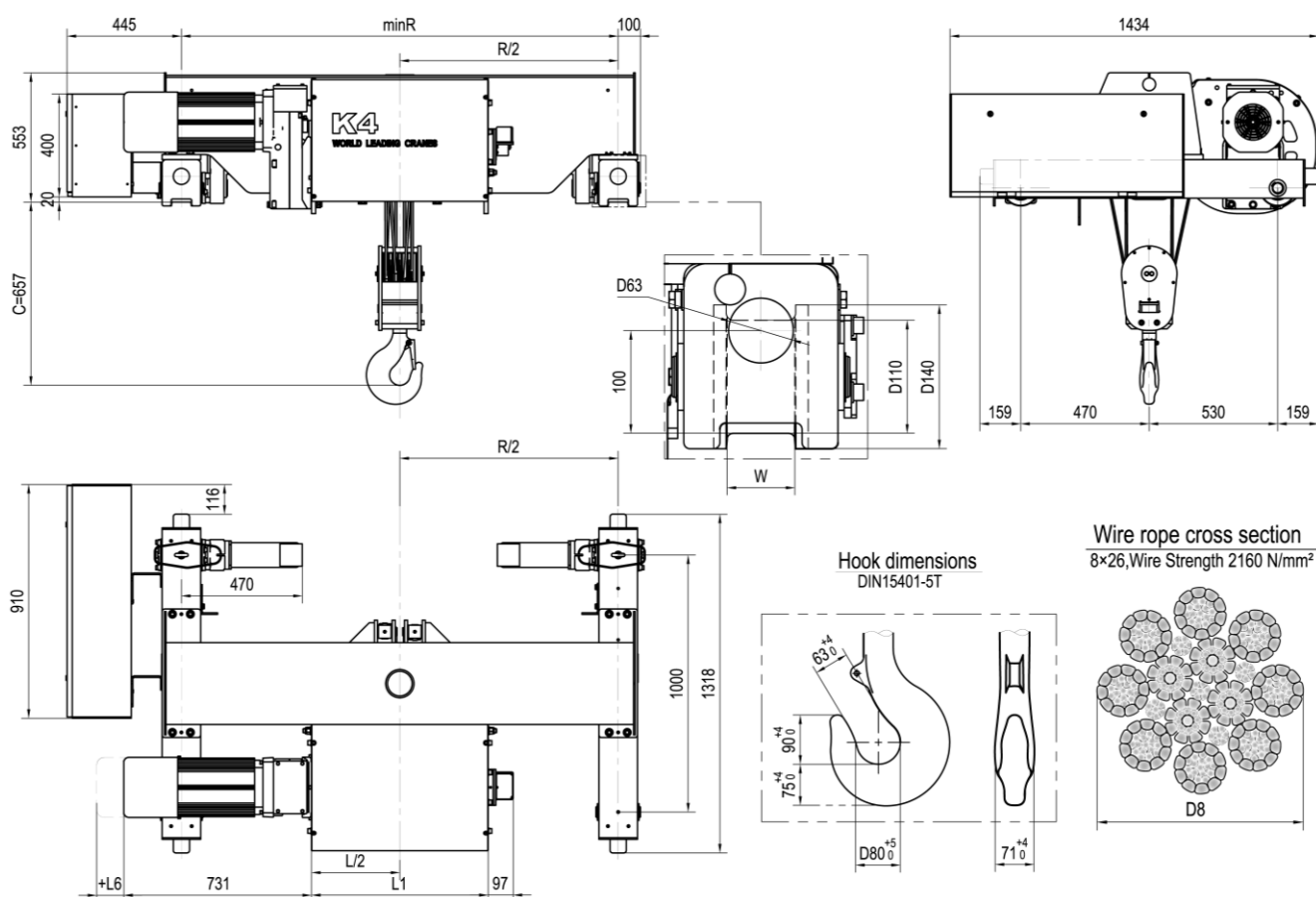


Load (kg)	Class FEM/ISO	Hoisting (m/min)																Travelling (m/min)
		Gear ratio 229				Gear ratio 186				Gear ratio 115				Gear ratio 90				Gear ratio 42
		Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed/Motor Code
4000	3m/M6	8/1.3 2-speed	1xD05	0-8 Stepless	1xF15	10/1.7 2-speed	1xD05	0-10 Stepless	1xF15	16/2.7 2-speed	1xD06	0-16 Stepless	1xF16	20/3.3 2-speed	1xD07	0-20 Stepless	1xF17	0-20 /2xF01
5000	2m/M5																	

1.19. Double Girder Hoist K4204 (Reeving 2:4)

Hol (m)	L1	W	R	Weight (kg)
4.5	654	Default:75	1400	831+W0
6.5	784		1700	903+W0
9.5	954		1700	937+W0
12	1114		2000	1008+W0
17	1384		2400	1082+W0
23	1734		2700	1202+W0

motor	D05	F15	D06	F16	D07	F17
L6	0	12	-12	85	75	85
W0	0	-4	33	22	55	39



Load (kg)	Class FEM/ISO	Hoisting (m/min)																Travelling (m/min)
		Gear ratio 229				Gear ratio 186				Gear ratio 115				Gear ratio 90				Gear ratio 42
		Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed/Motor Code
8000	3m/M6	4/0.7 2-speed	1xD05	0-4 Stepless	1xF15	5/0.8 2-speed	1xD05	0-5 Stepless	1xF15	8/1.3 2-speed	1xD06	0-8 Stepless	1xF16	10/1.7 2-speed	1xD07	0-10 Stepless	1xF17	0~20/2xF02
10000	2m/M5																	

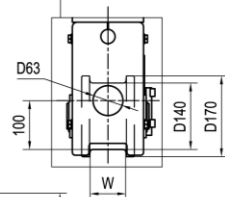
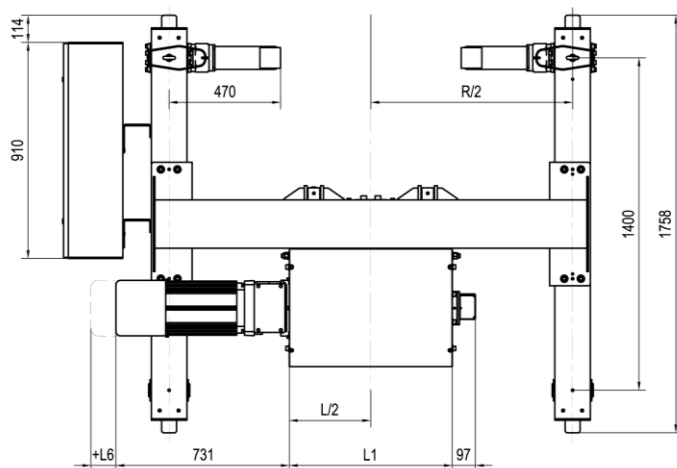
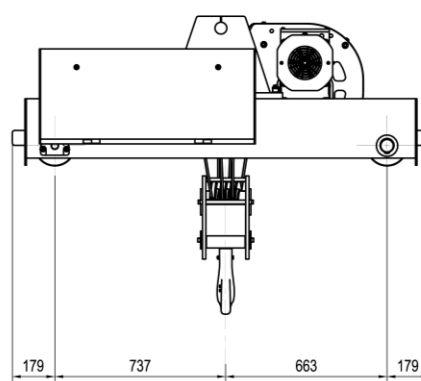
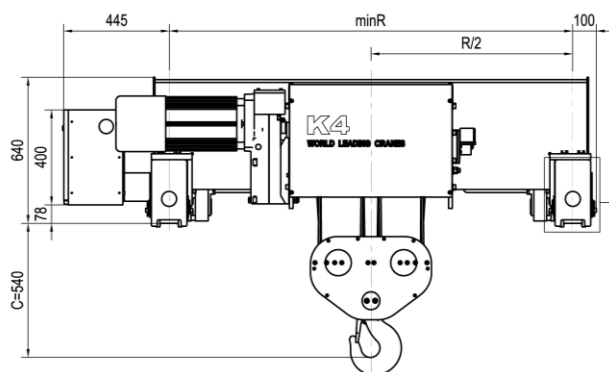
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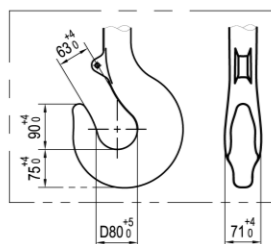
1.20. Double Girder Hoist K4206 (Reeving 2:6)

Hol (m)	L1	W	R	Weight (kg)
4.3	784	Default:75	1700	1074+W0
6.3	954		1700	1108+W0
8	1114		2000	1183+W0
11.3	1384		2400	1263+W0
15.3	1734		2700	1384+W0

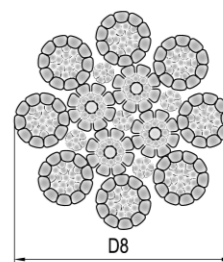
motor	D05	F15	D06	F16	D07	F17
L6	0	12	-12	85	75	85
W0	0	-4	33	22	55	39



Hook dimensions
DIN15401-5V



Wire rope cross section
8×26, Wire Strength 2160 N/mm²

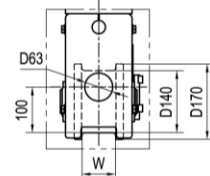
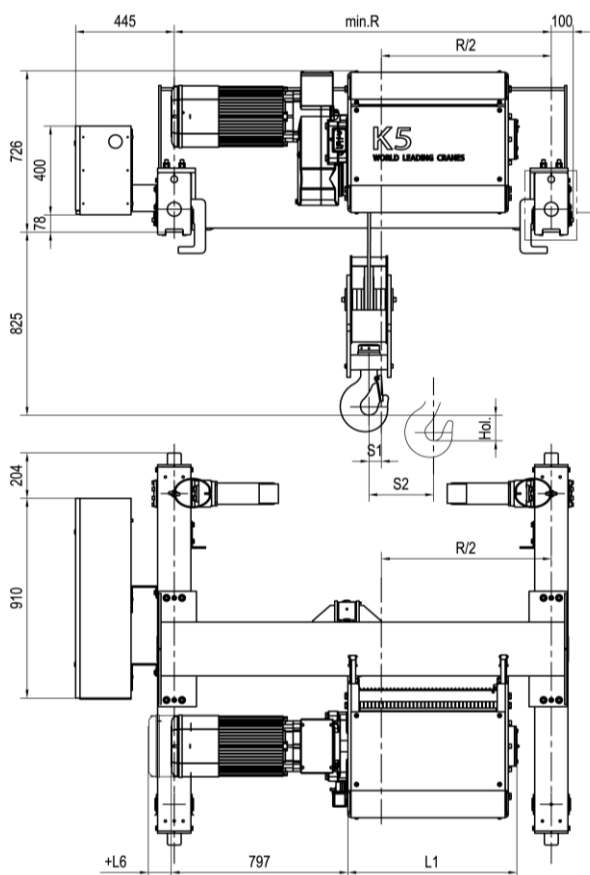


Load (kg)	Class FEM/ISO	Hoisting (m/min)												Travelling (m/min)
		Gear ratio 186				Gear ratio 115				Gear ratio 90				Gear ratio 42
		Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed/Motor Code
12000	3m/M6	3.2/0.5 2-speed	1xD05	0-3.2 Stepless	1xF15	5/0.8 2-speed	1xD06	0-5 Stepless	1xF16	6.3/1.1 2-speed	1xD07	0-6.3 Stepless	1xF17	0-20/2xF02
15000	2m/M5													

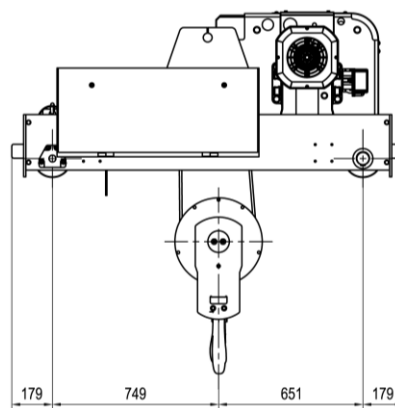
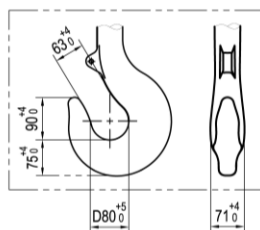
1.21. Double Girder Hoist K5102 (Reeving 1:2)

Hol (m)	L1	S1	S2	W	R	Weight (kg)
15.5	565	44	145	Default:75	1700	1326+W0
18	615	51	170		1700	1348+W0
21.5	685	60	197		2000	1427+W0
25	765	70	234		2000	1460+W0
28	815	79	264		2000	1482+W0
36.5	1015	101	338		2400	1630+W0
47	1215	133	442		3100	1832+W0
61	1515	172	573		3400	2007+W0
80	1915	227	758		4200	2306+W0
97.5	2265	274	912		4800	2551+W0

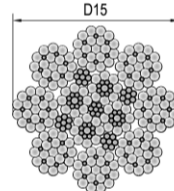
motor	D06	F16	D07	F17	D08	F18	F19
L6	0	97	87	97	87	137	137
W0	0	-11	22	6	22	10	16



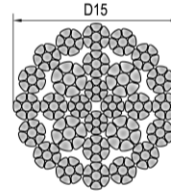
Hook dimensions
DIN15401-5V



Wire rope cross section
8×26, Wire Strength 2160 N/mm²
(Hol.<24)



Wire rope cross section
8×26, Wire Strength 2160 N/mm²
(Hol.≥24)

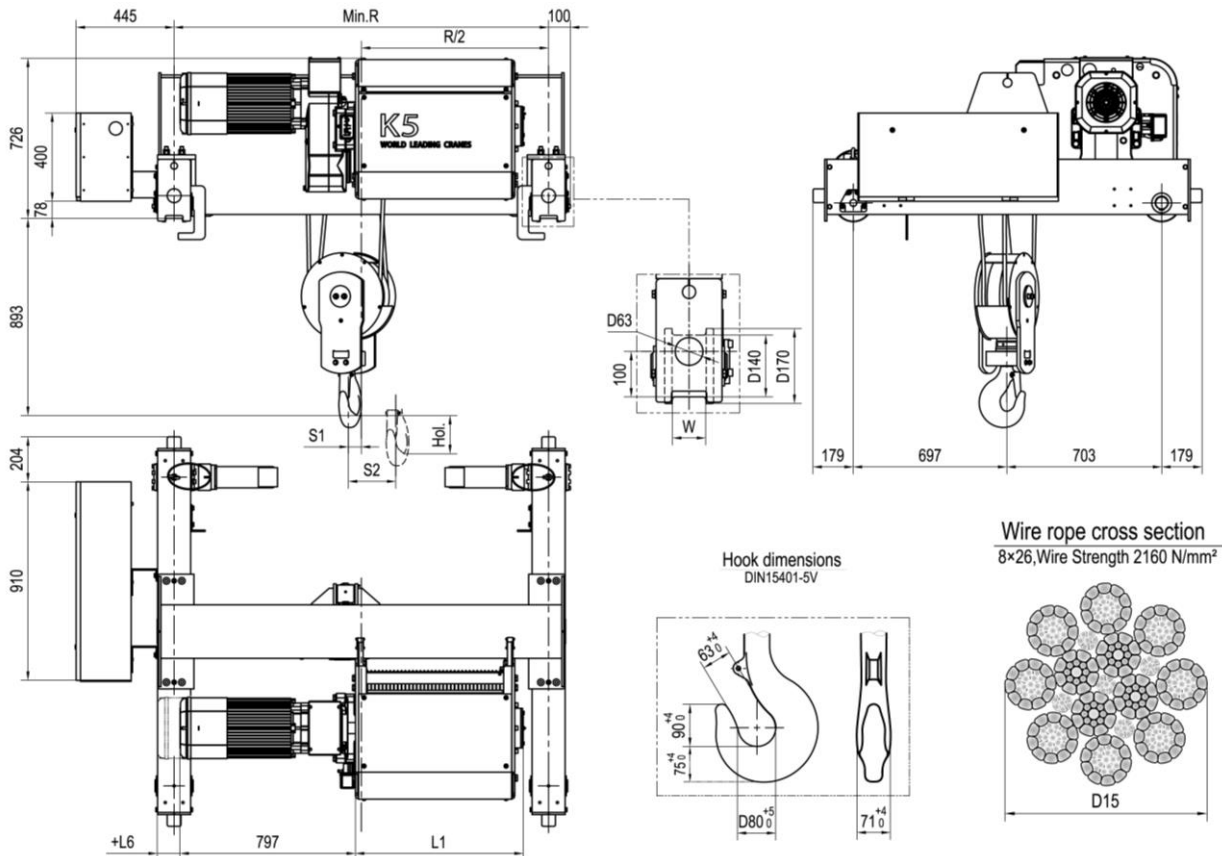


Load (kg)	Class FEM/ISO	Hoisting (m/min)														Travelling (m/min)			
		Gear ratio 289				Gear ratio 243				Gear ratio 191				Gear ratio 144		Gear ratio 114		Gear ratio 42	Gear ratio 32
		Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed /Motor Code	
6300	3m/M6	8/1.3 2-speed	1xD06	0-8 Stepless	1xF16	10/1.7 2-speed	1xD06	0-10 Stepless	1xF16	12.5/2 2-speed	1xD07	0-12.5 Stepless	1xF17	0-16 Stepless	1xF18	0-20 Stepless	1xF19	0-25 / 2xF02	0-32 / 2xF02
8000	2m/M5																		
10000	1Am/M4						1xD07		1xF17		1xD08		1xF18		N/A				

1.22. Double Girder Hoist K5104 (Reeving 1:4)

Hol (m)	L1	S1	S2	W	R	Weight (kg)
7.5	565	24	72	Default: 75	1400	1319+W0
9	615	29	86		1700	1389+W0
10.5	685	33	99		1700	1417+W0
12	765	38	115		2000	1499+W0
14	815	44	131		2000	1523+W0
18	1015	56	169		2400	1671+W0
23.5	1215	74	221		3100	1873+W0
30.5	1515	96	287		3400	2046+W0
40	1915	126	378		4200	2346+W0
48.5	2265	152	456		4800	2592+W0

motor	D06	F16	D07	F17	D08	F18	F19
L6	0	97	87	97	87	137	137
W0	0	-11	22	6	22	10	16



Load (kg)	Class FEM/ISO	Hoisting (m/min)														Travelling (m/min)			
		Gear ratio 289				Gear ratio 243				Gear ratio 191				Gear ratio 144		Gear ratio 114		Gear ratio 42	Gear ratio* 63
		Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed/Motor Code	
12500	3m/M6	4/0.7 2-speed	1xD06	0-4 Stepless	1xF16	5/0.8 2-speed	1xD06	0-5 Stepless	1xF16	6.3/1 2-speed	1xD07	0-6.3 Stepless	1xF17	0-8 Stepless	1xF18	0-10 Stepless	1xF19	0-25 / 2xF02	0-32 / 2xF03
16000	2m/M5						1xD07		1xF17		1xD08		1xF18		1xF19				
20000	1Am/M4																		

*Travelling speed 0-32 should be equipped with the wheel of 200mm;

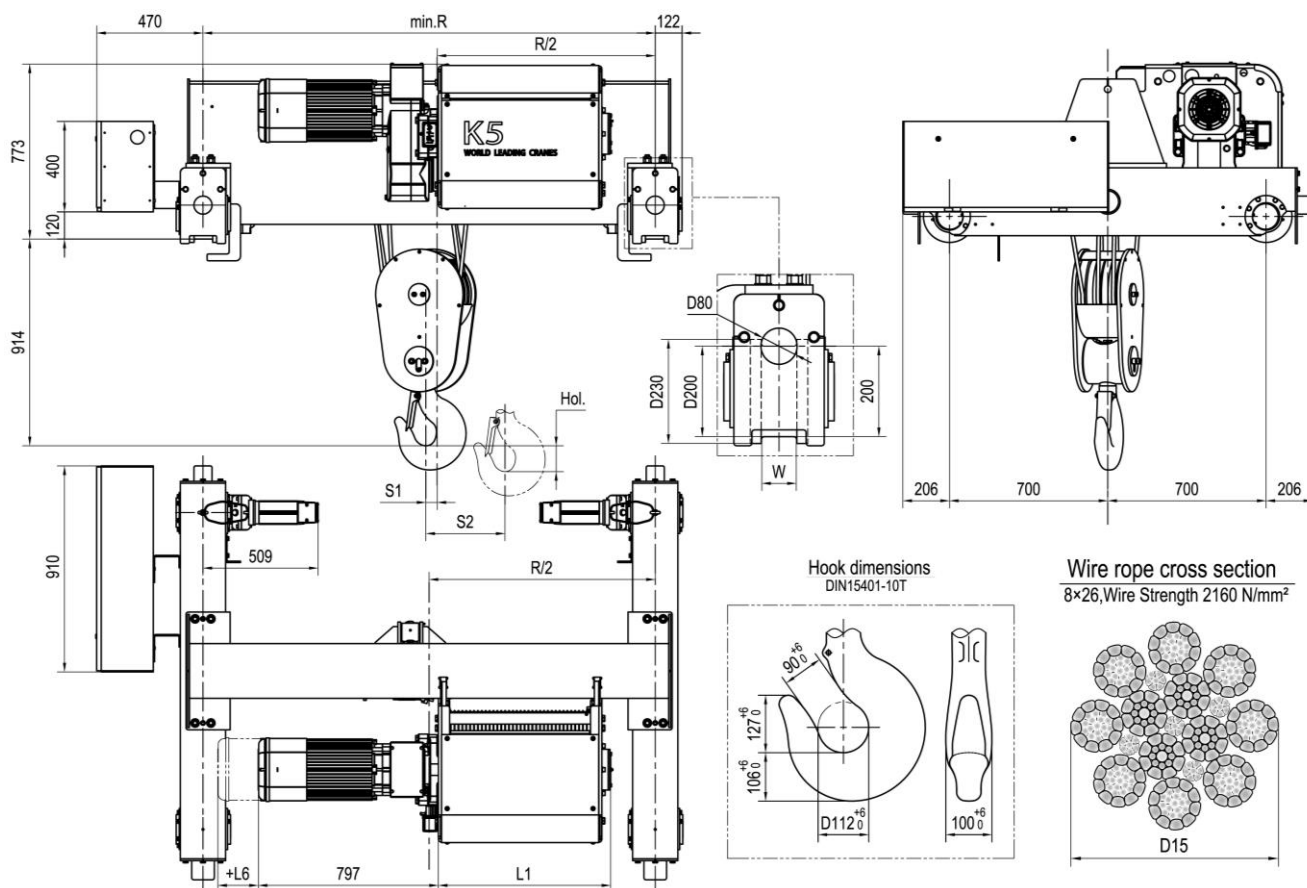
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1.23. Double Girder Hoist K5106 (Reeving 1:6)

Hol (m)	L1	S1	S2	W	R	Weight (kg)
5	565	16	48	Default:75	1700	1593+W0
6	615	19	57		1700	1615+W0
7	685	22	66		2000	1694+W0
8	765	26	77		2000	1725+W0
9	815	29	88		2000	1746+W0
12	1015	37	112		2400	1897+W0
15.5	1215	49	147		3100	2098+W0
20	1515	64	191		3400	2271+W0
26.5	1915	84	252		4200	2571+W0
32	2265	101	303		4800	2816+W0

motor	D06	F16	D07	F17	D08	F18	F19
L6	0	97	87	97	87	137	137
W0	0	-11	22	6	22	10	16

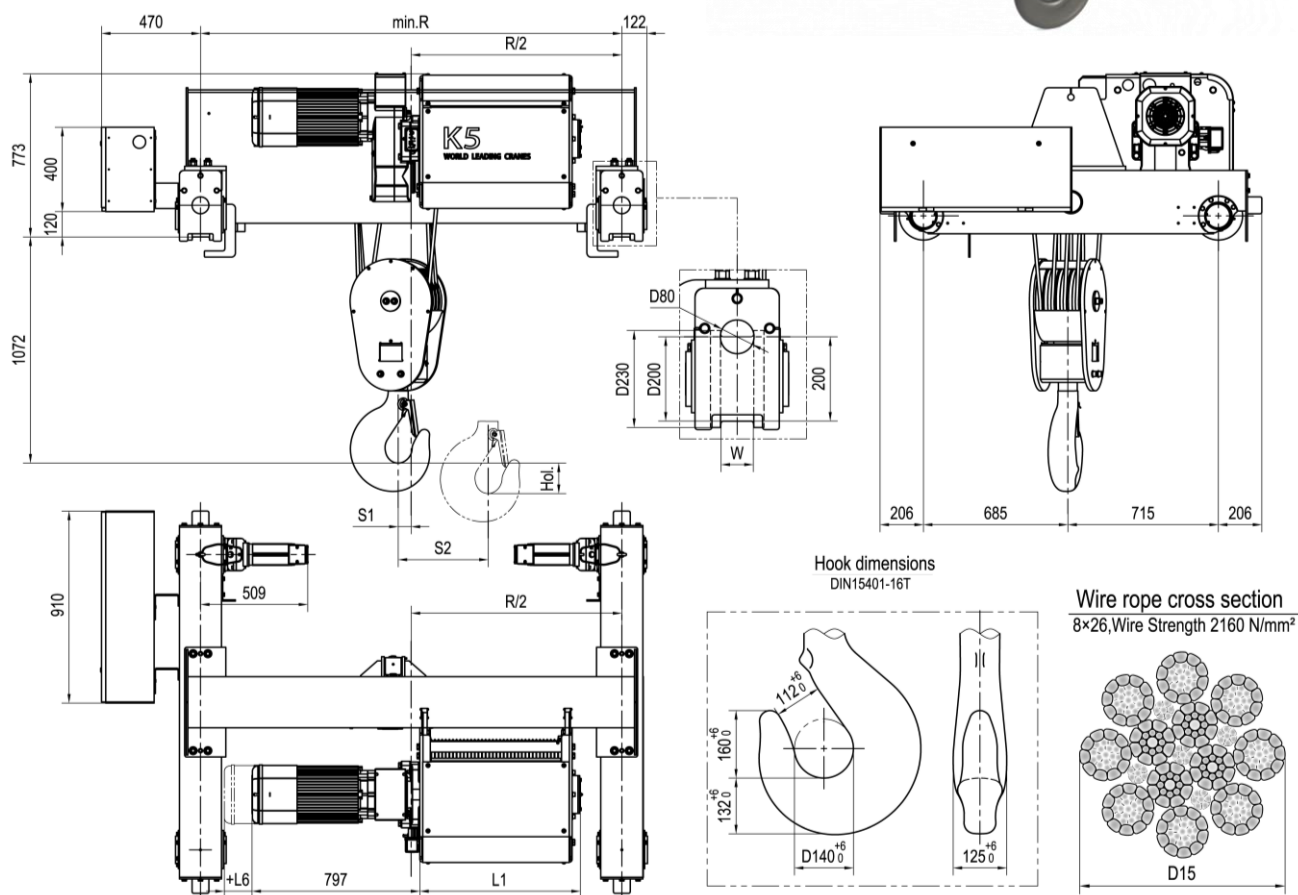


Load (kg)	Class FEM/ISO	Hoisting (m/min)														Travelling (m/min)			
		Gear ratio 289				Gear ratio 243				Gear ratio 191				Gear ratio 144		Gear ratio 114		Gear ratio 90	Gear ratio 63
		Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed/Motor Code	
20000	3m/M6	2.5/0.4 2-speed	1xD06	0-2.5 Stepless	1xF16	3.2/0.5 2-speed	1xD06	0-3.2 Stepless	1xF16	4/0.7 2-speed	1xD07	0-4 Stepless	1xF17	0-5 Stepless	1xF18	0-6.3 Stepless	1xF19	0-20/ 2xF02	0-32/ 2xF03
25000	2m/M5																		
30000	1Am/M4						1xD07				1xF17				1xF18				

1.24. Double Girder Hoist K5108 (Reeving 1:8)

Hol (m)	L1	S1	S2	W	R	Weight (kg)
7	815	22	66	Default: 75	2000	1814+W0
9	1015	28	85		2400	1962+W0
12	1215	37	110		3100	2166+W0
15	1515	48	144		3400	2336+W0
20	1915	63	189		4200	2638+W0
24	2265	76	228		4800	2881+W0

motor	D06	F16	D07	F17	D08	F18	F19
L6	0	97	87	97	87	137	137
W0	0	-11	22	6	22	10	16

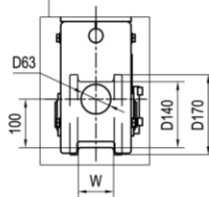
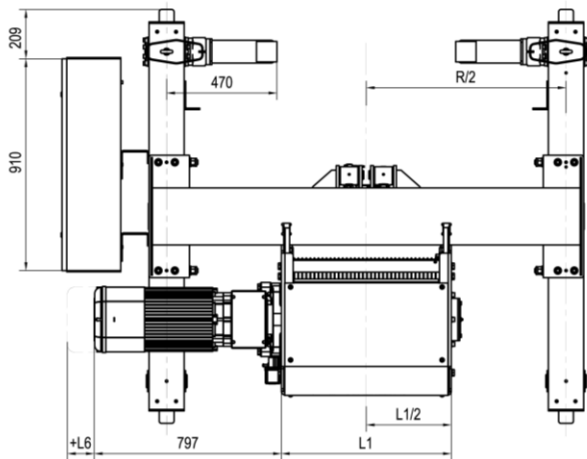
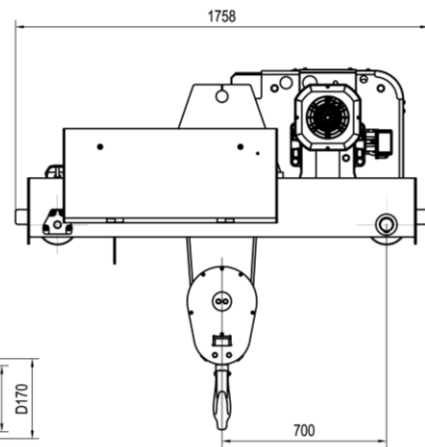
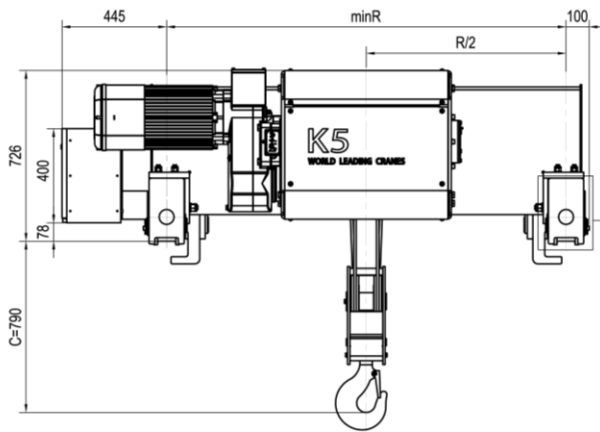


Load (kg)	Class FEM/ISO	Hoisting (m/min)														Travelling (m/min)	
		Gear ratio 289				Gear ratio 243				Gear ratio 191				Gear ratio 144		Gear ratio 90	Gear ratio 63
		Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed/Motor Code	
25000	3m/M6	2/0.3 2-speed	1xD06	0-2 Stepless	1xF16	2.5/0.4 2-speed	1xD06	0-2.5 Stepless	1xF16	3.2/0.5 2-speed	1xD07	0-3.2 Stepless	1xF17	0-4 Stepless	1xF19	0-20 / 2xF03	0-32 / 2xF03
32000	2m/M5																
40000	1Am/M4						1xD07		1xF17		1xD08		1xF18				

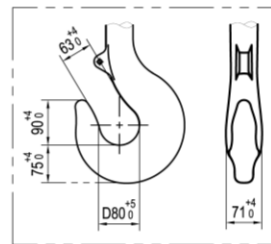
1.25. Double Girder Hoist K5202 (Reeving 2:2)

Hol (m)	L1	W	R	Weight (kg)
15.5	815	Default:75	1700	1360+W0
22	1015		2000	1450+W0
28.5	1215		2000	1481+W0
38	1515		2400	1633+W0
50.5	1915		2700	1775+W0
61.5	2265		3100	1961+W0
77.5	2765		3800	2240+W0
87	3065		4200	2436+W0

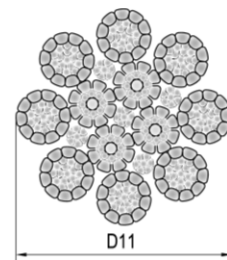
motor	D06	F16	D07	F17	D08	F18	F19
L6	0	97	87	97	87	137	137
W0	0	-11	22	6	22	10	16



Hook dimensions
DIN15401-5V



Wire rope cross section
8x26, Wire Strength 2160 N/mm²



Load (kg)	Class FEM/ISO	Hoisting (m/min)																Travelling (m/min)	
		Gear ratio 289				Gear ratio 243				Gear ratio 191				Gear ratio 144		Gear ratio 114		Speed/Motor Code	
		Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor		
6300	3m/M6	8/1.3 2-speed	1xD06	0-8 Stepless	1xF16	10/1.7 2-speed	1xD06	0-10 Stepless	1xF17 1xF16	12.5/2 2-speed	1xD07	0-12.5 Stepless	1xF17	0-16 Stepless	1xF18	0-20 Stepless	1xF19	0-25 / 2xF02	0-32 / 2xF02
8000	2m/M5																		
10000	1Am/M4						1xD07		1xF17 1xF16		1xD08		1xF18		1xF19		N/A		

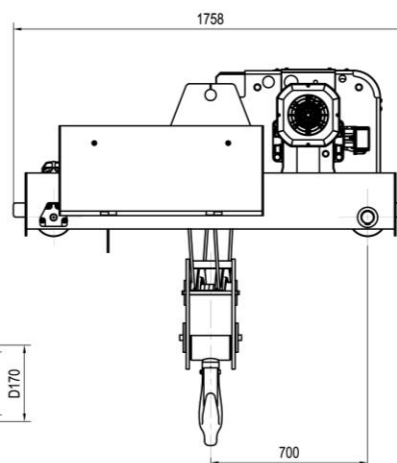
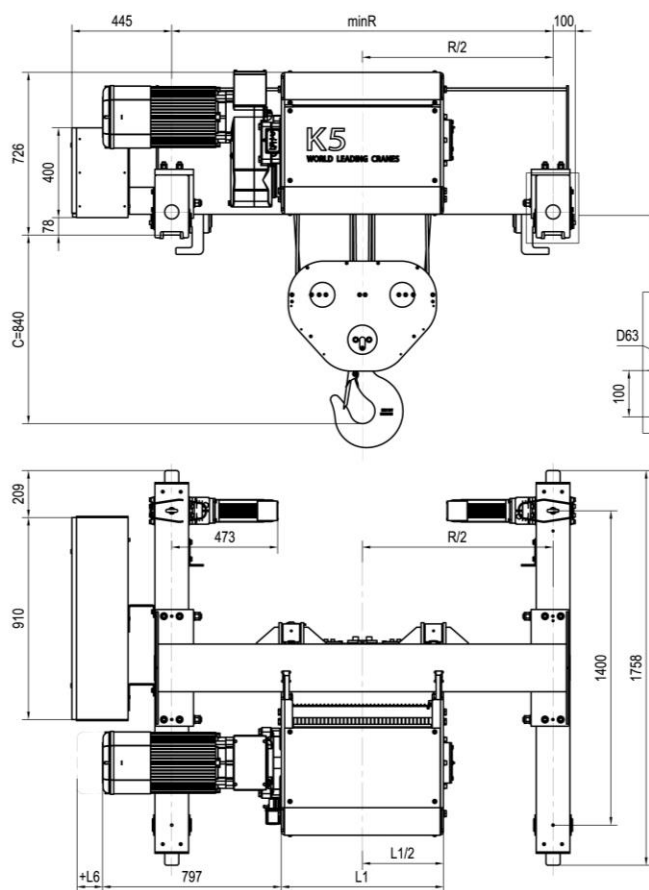
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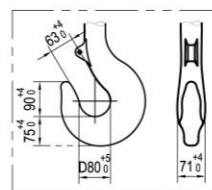
1.26. Double Girder Hoist K5204 (Reeving 2:4)

Hol (m)	L1	W	R	Weight (kg)
7.5	815	Default:75	1700	1411+W0
11	1015		2000	1496+W0
14	1215		2000	1527+W0
19	1515		2400	1673+W0
25	1915		2700	1808+W0
30.5	2265		3100	1988+W0
38.5	2765		3800	2254+W0
43.5	3065		4200	2444+W0

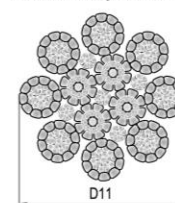
motor	D06	F16	D07	F17	D08	F18	F19
L6	0	97	87	97	87	137	137
W0	0	-11	22	6	22	10	16



Hook dimensions
DIN15401-5V



Wire rope cross section
8x26, Wire Strength 2160 N/mm²



Load (kg)	Class FEM/ISO	Hoisting (m/min)																Travelling (m/min)	
		Gear ratio 289				Gear ratio 243				Gear ratio 191				Gear ratio 144		Gear ratio 114		Gear ratio 42	Gear ratio 63
		Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed/Motor Code	
12500	3m/M6	4/0.7 2-speed	1xD06	0-4 Stepless	1xF16	5/0.8 2-speed	1xD06	0-5 Stepless	1xF16	6.3/1.1 2-speed	1xD07	0-6.3 Stepless	1xF17	0-8 Stepless	1xF18	0-10 Stepless	1xF19	0-25/ 2xF02	0-32/ 2xF03
16000	2m/M5																		
20000	1Am/M4						1xD07		1xF17		N/A		1xF18		1xF19		N/A		

*Travelling speed 0~32 should be equipped with the wheel of 200mm;

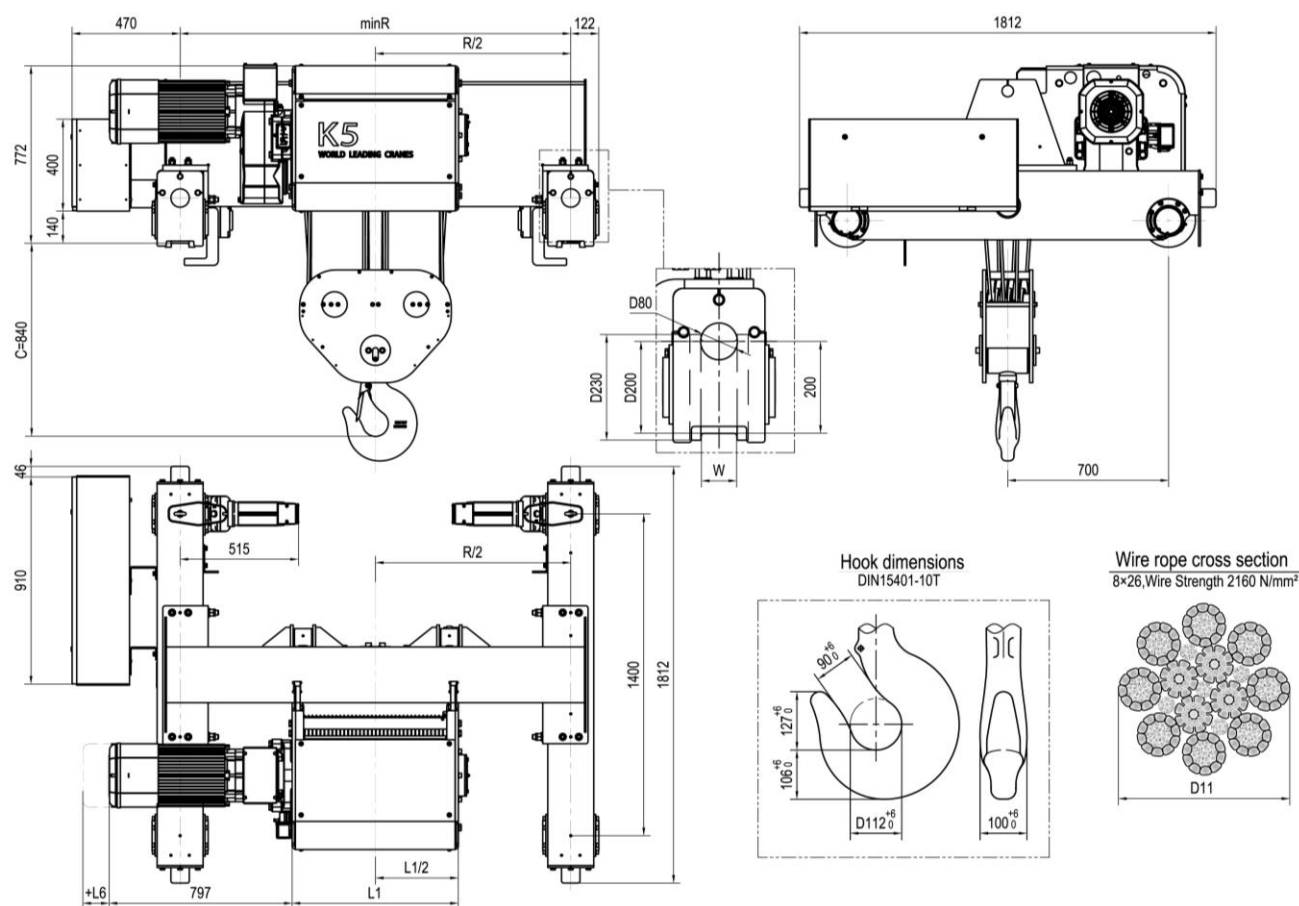
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1.27. Double Girder Hoist K5206 (Reeving 2:6)

Hol (m)	L1	W	R	Weight (kg)
5	815	Default:75	1700	1664+W0
7	1015		2000	1756+W0
9.5	1215		2000	1786+W0
12.5	1515		2400	1940+W0
16.5	1915		2700	2081+W0
20.5	2265		3100	2269+W0
25.5	2765		3800	2549+W0
29	3065		4200	2747+W0

motor	D06	F16	D07	F17	D08	F18	F19
L6	0	97	87	97	87	137	137
W0	0	-11	22	6	22	10	16



Load (kg)	Class FEM/ISO	Hoisting (m/min)																Travelling (m/min)	
		Gear ratio 289				Gear ratio 243				Gear ratio 191				Gear ratio 144		Gear ratio 114		Gear ratio 90	Gear ratio 63
		Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed/Motor Code	
20000	3m/M6	2.5/0.4 2-speed	1xD06	0-2.5 Stepless	1xF16	3.2/0.5 2-speed	1xD06	0-3.2 Stepless	1xF16	4/0.7 2-speed	1xD07	0-4 Stepless	1xF17	0-5 Stepless	1xF18	0-6.3 Stepless	1xF19	0-20 / 2xF02	0-32 / 2xF03
25000	2m/M5																		
30000	1Am/M4																		

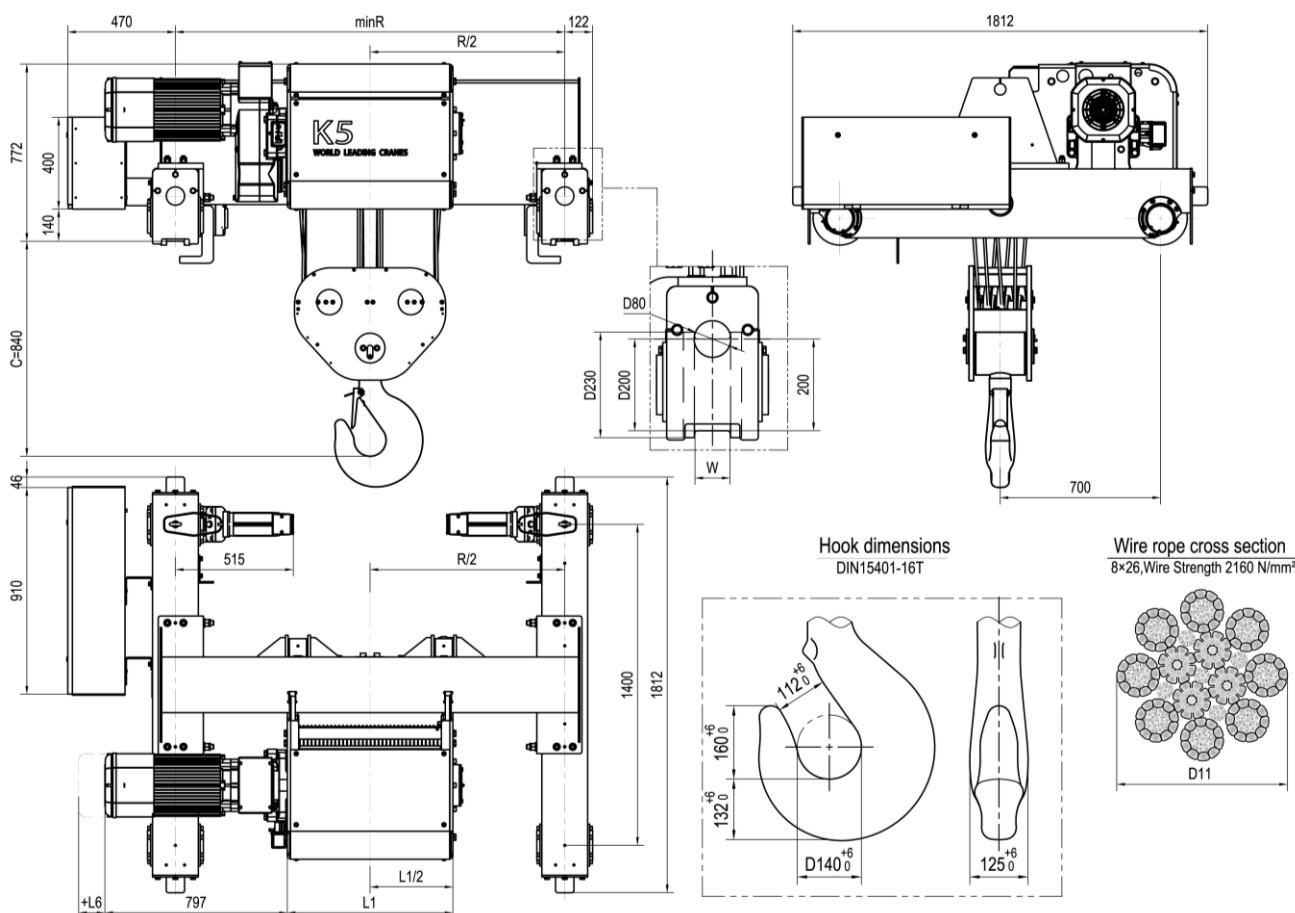
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1.28. Double Girder Hoist K5208 (Reeving 2:8)

Hol (m)	L1	W	R	Weight (kg)
7	1215	Default: 75	2000	1965+W0
9.5	1515		2400	2114+W0
12.5	1915		2700	2252+W0
15	2265		3100	2435+W0
19	2765		3800	2706+W0
21.5	3065		4200	2898+W0

motor	D06	F16	D07	F17	D08	F18	F19
L6	0	97	87	97	87	137	137
W0	0	-11	22	6	22	10	16



Load (kg)	Class FEM/ISO	Hoisting (m/min)														Travelling (m/min)	
		Gear ratio 289				Gear ratio 243				Gear ratio 191				Gear ratio 144		Gear ratio 90	Gear ratio 63
		Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed/Motor Code	
32000	2m/M5	2/0.3 2-speed	1xD06	0-2 Stepless	1xF16	2.5/0.4 2-speed	1xD07	0-2.5 Stepless	1xF17	3.2/0.5 2-speed	1xD08	0-3.2 Stepless	1xF18	0-4 Stepless	1xF19	0-20 / 2xF03	0-32 / 2xF03
40000	1Am/M4																

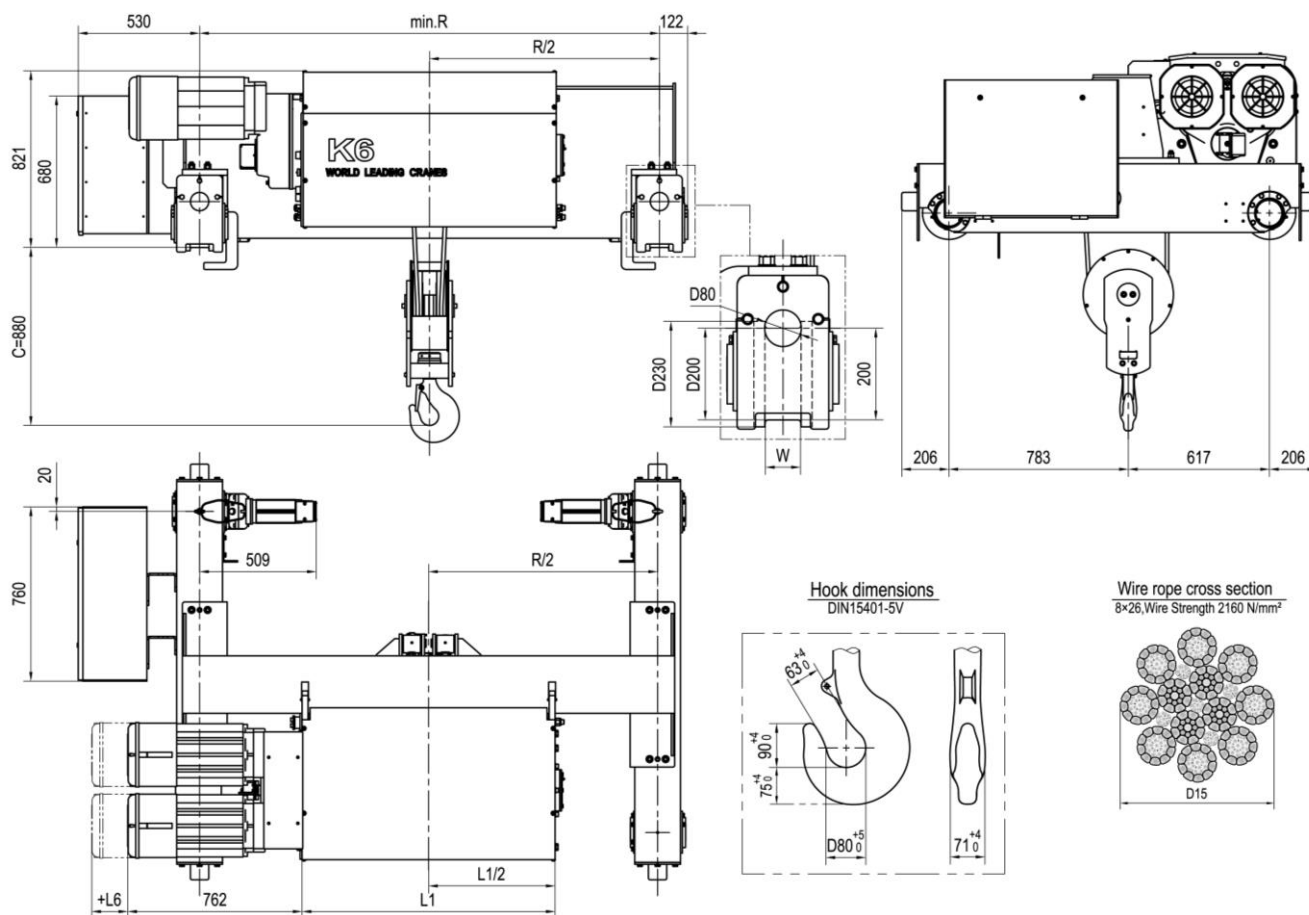
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1.29. Double Girder Hoist K6202 (Reeving 2:2)

Hol (m)	L1	W	R	Weight (kg)
15.6	1105	Default: 75	2000	2204+W0
20.6	1305		2400	2360+W0
28	1615		2400	2489+W0
38	2025		3100	2788+W0
46.2	2375		3400	3068+W0
56.1	2785		3800	3328+W0
62.7	3065		4200	3518+W0
71	3405		4200	3679+W0

motor	D06	F16	D07	F17	D08	F18	F19
L6	0	97	87	97	87	137	137
W0	0	-22	44	12	44	20	32



Load (kg)	Class FEM/ISO	Hoisting (m/min)																Travelling (m/min)	
		Gear ratio 289				Gear ratio 243				Gear ratio 191				Gear ratio 144		Gear ratio 114		Gear ratio 90	Gear ratio 63
		Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed/Motor Code	
12500	3m/M6	8/1.3 2-speed	2xD06	0-8 Stepless	2xF16	10/1.7 2-speed	2xD06	0-10 Stepless	2xF16	12.5/2 2-speed	2xD07	0-12.5 Stepless	2xF17	0-16 Stepless	2xF18	0-20 Stepless	2xF19	0-25 / 2xF02	0-32 / 2xF03
16000	2m/M5																		
20000	1Am/M4																		

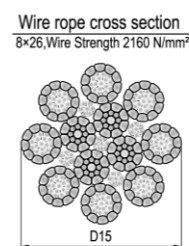
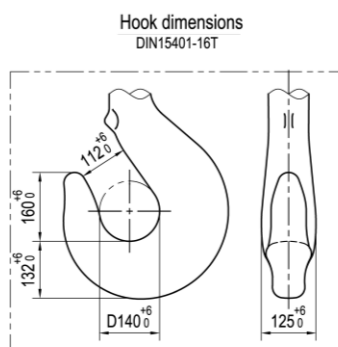
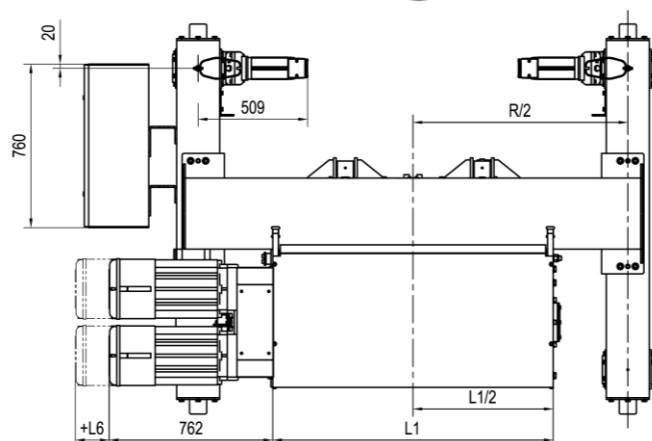
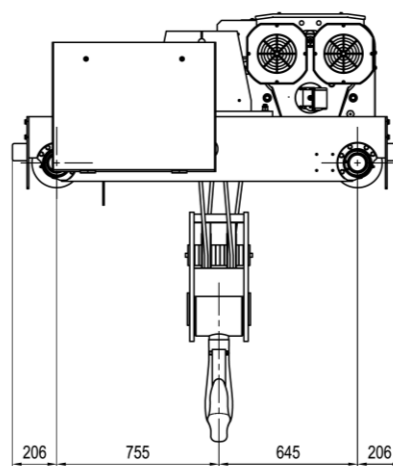
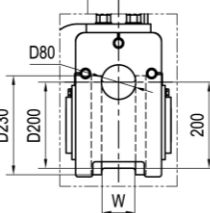
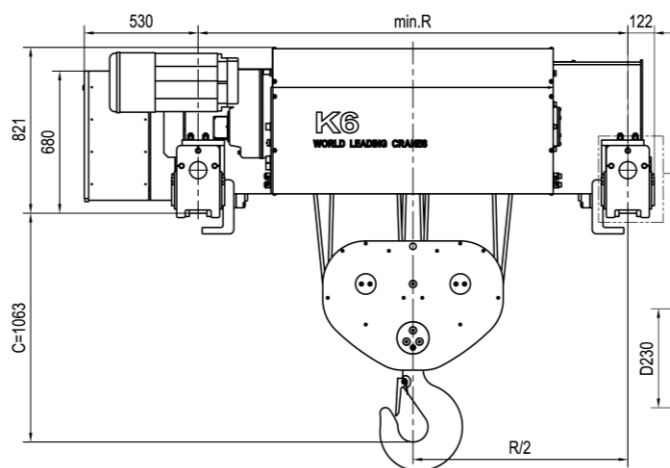
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1.30. Double Girder Hoist K6204 (Reeving 2:4)

Hol (m)	L1	W	R	Weight (kg)
7.5	1105	Default:75	2000	2542+W0
10	1305		2000	2624+W0
14	1615		2400	2823+W0
19	2025		2700	3051+W0
23	2375		3100	3355+W0
28	2785		3400	3600+W0
31	3065		3800	3793+W0
35.5	3405		4200	4034+W0

motor	D06	F16	D07	F17	D08	F18	F19
L6	0	97	87	97	87	137	137
W0	0	-22	44	12	44	20	32

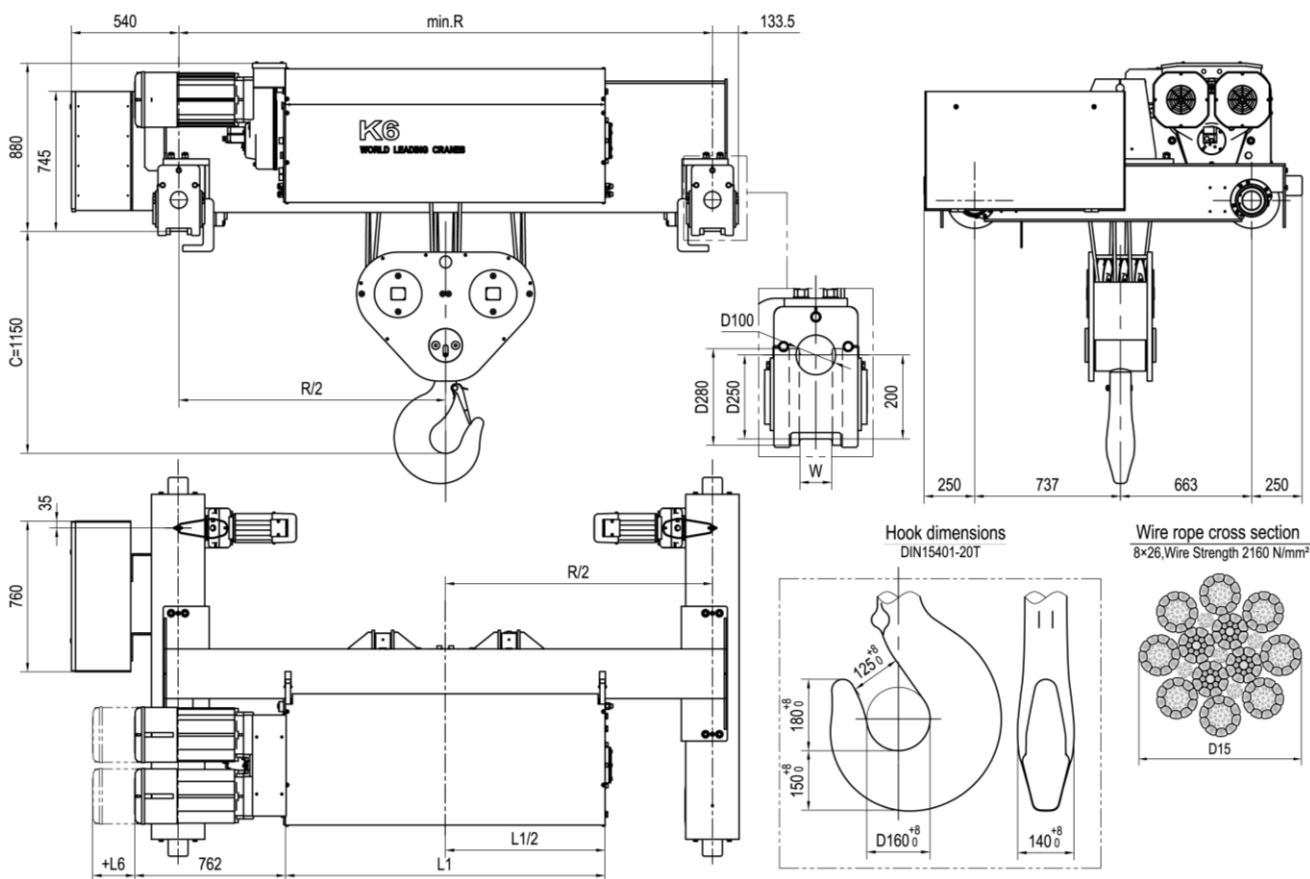


Load (kg)	Class FEM/ISO	Hoisting (m/min)																Travelling (m/min)	
		Gear ratio 289				Gear ratio 243				Gear ratio 191				Gear ratio 144		Gear ratio 114		Gear ratio 90	Gear ratio 63
		Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor		
25000	3m/M6	4/0.7 2-speed	2xD06	0-4 Stepless	2xF16	5/0.8 2-speed	2xD06	0-5 Stepless	2xF16	6.3/1.1 2-speed	2xD07	0-6.3 Stepless	2xF17	0-8 Stepless	2xF18	0-10 Stepless	2xF19	0-25/ 2xF03	0-32/ 2xF03
32000	2m/M5																		
40000	1Am/M4																		

1.31. Double Girder Hoist K6206 (Reeving 2:6)

Hol (m)	L1	W	R	Weight (kg)
5.2	1105	Default:75	2000	2810+W0
6.8	1305		2000	2890+W0
9.3	1615		2400	3098+W0
12.6	2025		2700	3327+W0
15.4	2375		3100	3633+W0
18.7	2785		3800	3957+W0
20.9	3065		3800	4073+W0
23.6	3405		4200	4310+W0

motor	D06	F16	D07	F17	D08	F18	F19
L6	0	97	87	97	87	137	137
W0	0	-22	44	12	44	20	32



Load (kg)	Class FEM/ISO	Hoisting (m/min)																Travelling (m/min)		
		Gear ratio 289				Gear ratio 243				Gear ratio 191				Gear ratio 144		Gear ratio 114		Gear ratio 115	Gear ratio 72	
		Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed/Motor Code		
40000	3m/M6	2.5/0.4 2-speed	2xD06	0-2.5 Stepless	2xF16	3.2/0.5 2-speed	2xD06	0-3.2 Stepless	2xF16	4/0.7 2-speed	2xD07	0-4 Stepless	2xF17	0-5 Stepless	2xF18	N/A	0-6.3 Stepless	2xF19	0-25 / 2xF04	0-32 / 2xF04
50000	2m/M5																			
60000	1Am/M4														2xD07			2xF17		

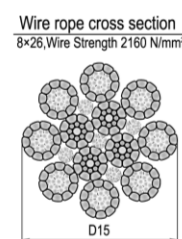
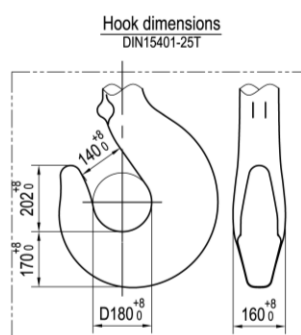
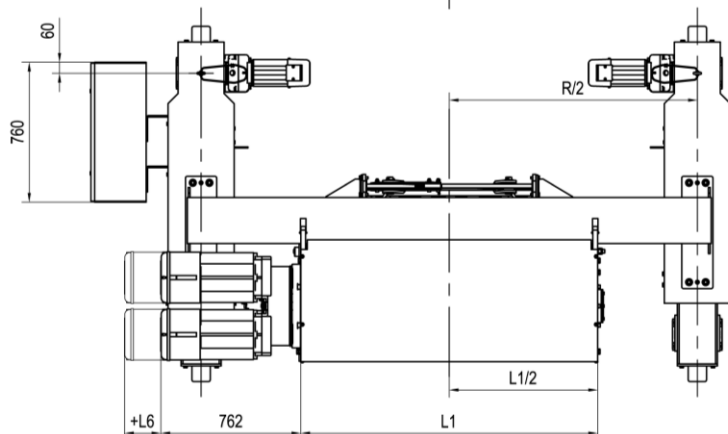
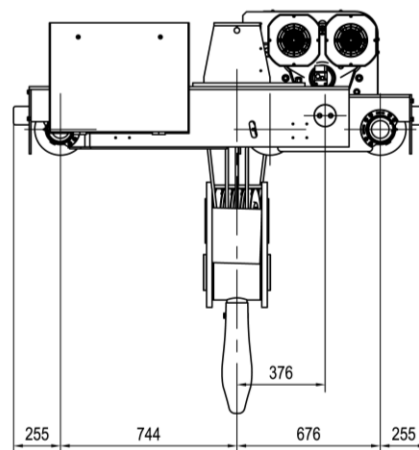
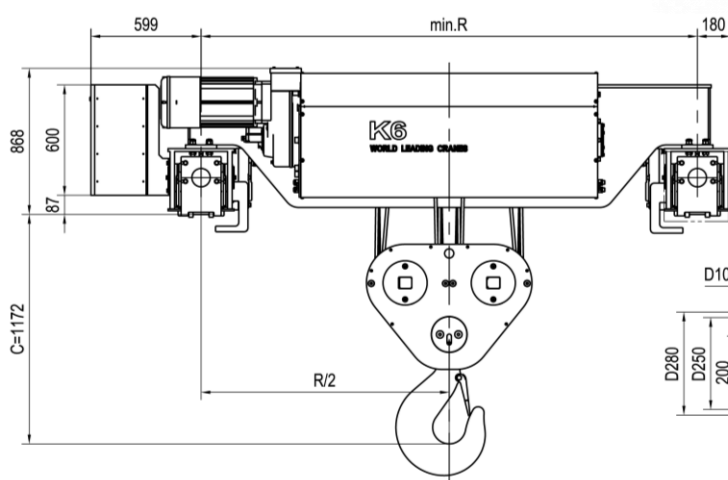
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1.32. Double Girder Hoist K6208 (Reeving 2:8)

Hol (m)	L1	W	R	Weight (kg)
7	1615	Default:75	2400	3549+W0
9.5	2025		3100	3948+W0
11.5	2375		3100	3985+W0
14	2785		3800	4309+W0
15.6	3065		4200	4524+W0
17.7	3405		4200	4684+W0

motor	D06	F16	D07	F17	D08	F18	F19
L6	0	97	87	97	87	137	137
W0	0	-22	44	12	44	20	32



Load (kg)	Class FEM/ISO	Hoisting (m/min)														Travelling (m/min)					
		Gear ratio 289				Gear ratio 243				Gear ratio 191				Gear ratio 144		Gear ratio 114		Gear ratio 115	Gear ratio 72		
		Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed	Motor	Speed/Motor Code			
50000	3m/M6	2/0.3 2-speed	2xD06	0-2 Stepless	1xF16	2.5/0.4 2-speed	2xD06	0-2.5 Stepless	2xF16	3.2/0.5 2-speed	2xD07	0-3.2 Stepless	2xF17	0-4 Stepless	2xF18	0-5 Stepless	2xF19	0-25 / 2xF04	0-32 / 2xF04		
63000	2m/M5																				
80000	1Am/M4																				

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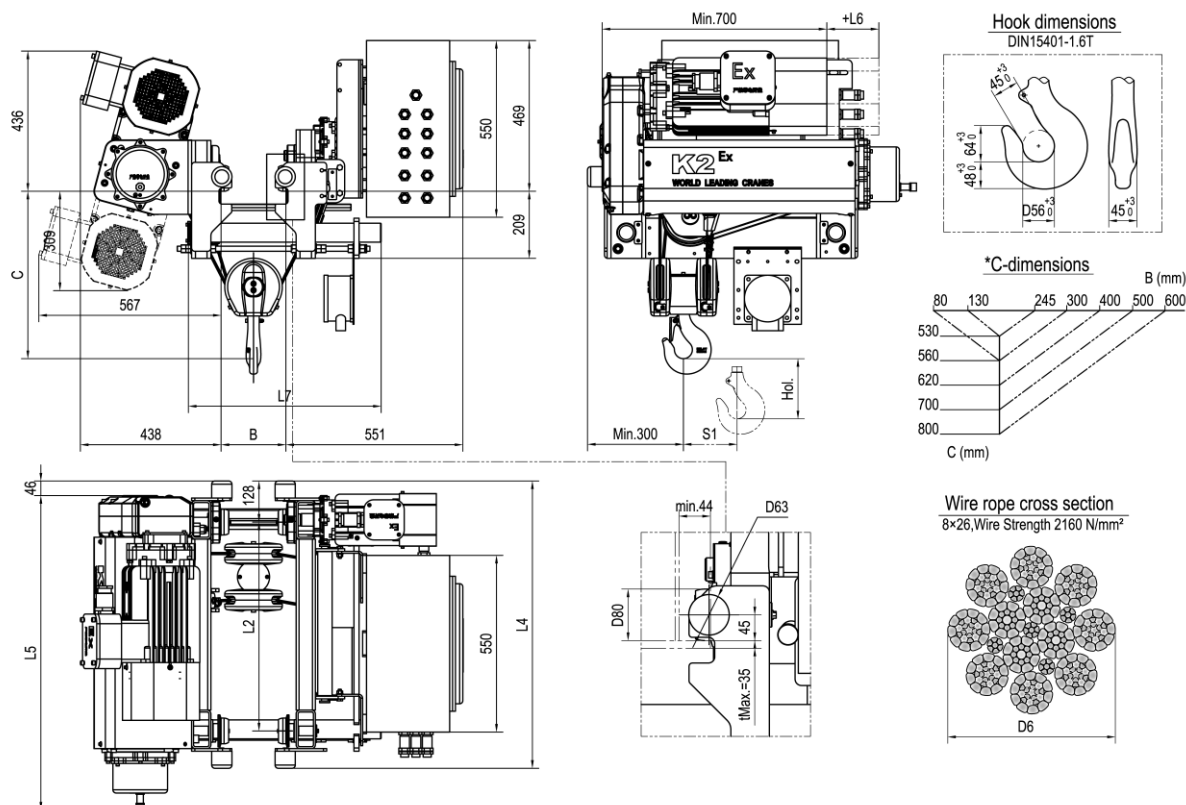
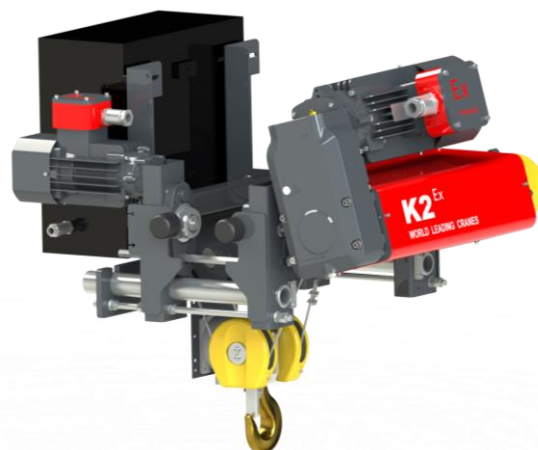
1.33. Low Headroom Ex Hoist K2104-Ex (Reeving 1:4)

HOL (m)	B	L2	L4	L5	S1	Weight (kg)
6	80~	457	699	688	52	415
9.5	610	652	894	883	83	439

motor	D03	F13
L6	0	0

L7(mm)	B(mm)
600	>100-210
700	>210-310
800	>310-410

L7(mm)	B(mm)
900	>410-510
1000	>510-610



Load (kg)	Class FEM/ISO	Hoisting				Travelling			
		Gear ratio 70		Gear ratio 56		Gear Ratio 6			
		Speed (m/min)	Motor	Speed (m/min)	Motor	Speed / Motor Code (m/min)			
						II C, III B		II B	
1600	3m/M6	5/0.8 2-speed	1xD03-Ex	6.3/1.1 2-speed	1xD03-Ex	16/4 2-speed / 1xPB04	0~16 Stepless/ 1xF03-Ex	20/5 2-speed / 1xPB04	0~20 Stepless/ 1xF03-Ex
2000	3m/M6								
2500	3m/M6								
3200	2m/M5								

*Weight calculated with B in 410.

*Spark-proof (Bronze hook, Bronze wheel or stainless steel wheel) is optional, shall be recommended for increased safety type e, IIC and IIIB.

防闪保护 (如镀铜吊钩、镀铜车轮或不锈钢车轮) , 是可选项, 推荐用于增安型 e、IIC、IIIB。

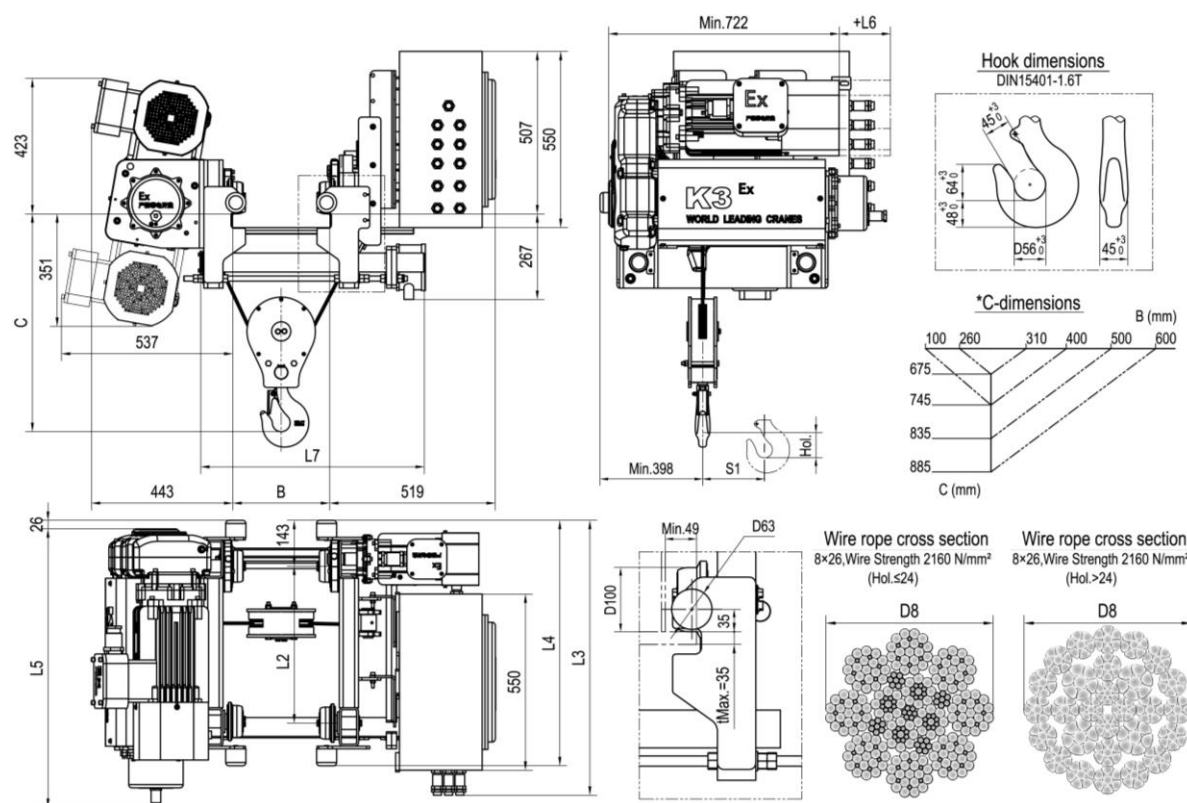
1.34. Low Headroom Ex Hoist K3102-Ex (Reeving 1:2)

HOL (m)	B	L2	L3	L4	L5	S1	Weight (kg)
12	100~610	490	860	766	870	52	473
18		640	860	916	1020	83	488
24		810	860	1086	1190	108	511
30		970	860	1246	1350	125	540

motor	D03	F13
L6	0	0

L7(mm)	B(mm)
600	>100-210
700	>210-310
800	>310-410

L7(mm)	B(mm)
900	>410-510
1000	>510-610



Load (kg)	Class FEM/ISO	Hoisting		Travelling			
		Gear ratio 109		Gear Ratio 6			
		Speed (m/min)	Motor	Speed / Motor Code (m/min)			
				II C、III B		II B	
1600	3m/M6	8/1.3 2-speed	1xD03-Ex	16/4 2-speed / 1xFB04	0-16 Stepless/ 1xF03-Ex	20/5 2-speed / 1xFB04	0-20 Stepless/ 1xF03-Ex
2000	3m/M6						
2500	2m/M5						
3200	1Am/M4						

*Weight calculated with B in 410.

*Spark-proof (Bronze hook, Bronze wheel or stainless steel wheel) is optional, shall be recommended for increased safety type e, IIC and IIIB.

防闪保护 (如镀铜吊钩、镀铜车轮或不锈钢车轮), 是可选项, 推荐用于增安型e、IIC、IIIB。

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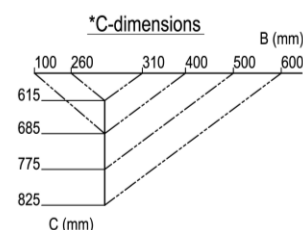
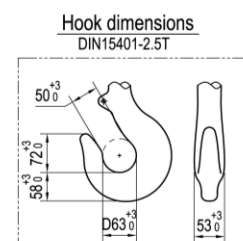
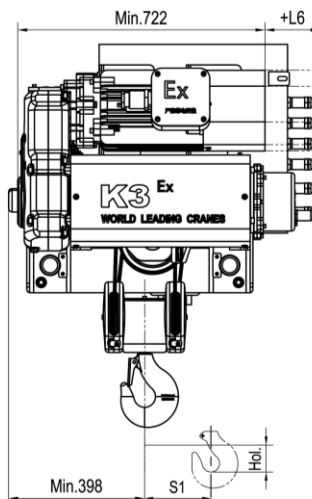
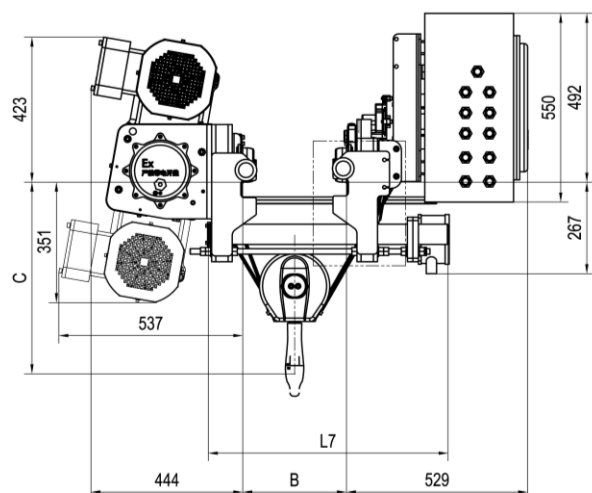
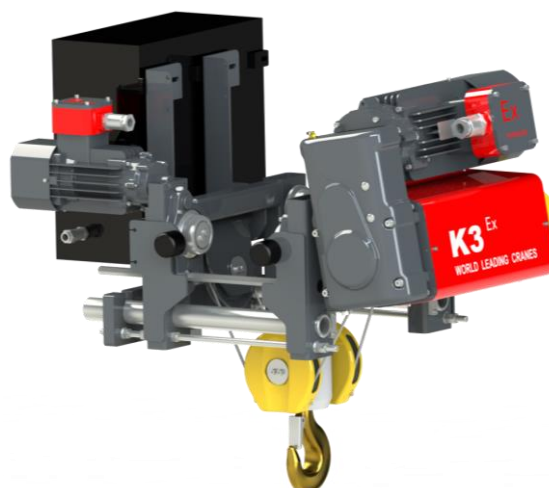
1.35. Low Headroom Ex Hoist K3104-Ex (Reeving 1:4)

HOL (m)	B	L2	L3	L4	L5	S1	Weight (kg)
6	100~610	490	892	766	870	52	488
9		640	892	916	1020	83	503
12		810	892	1086	1190	108	527
15		970	892	1246	1350	125	555

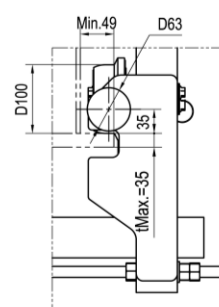
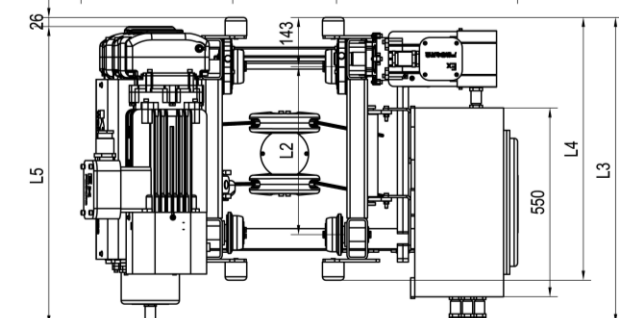
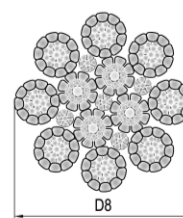
motor	D03	F13
L6	0	0

L7(mm)	B(mm)
600	>100-210
700	>210-310
800	>310-410

L7(mm)	B(mm)
900	>410-510
1000	>510-610



Wire rope cross section
8x26, Wire Strength 2160 N/mm²



Load (kg)	Class FEM/ISO	Hoisting				Travelling			
		Gear ratio 109		Gear ratio 90		Gear Ratio 6			
		Speed (m/min)	Motor	Speed (m/min)	Motor	Speed / Motor Code (m/min)			
						II C, III B		II B	
3200	3m/M6	4/0.7 2-speed	1xD03-Ex	5/0.8 2-speed	1xD03-Ex	16/4	0~16	20/5	0~20
4000	3m/M6					2-speed / 1xFB04	Stepless/ 1xF03-Ex	2-speed / 1xFB04	Stepless/ 1xF03-Ex
5000	2m/M5								

*Weight calculated with B in 410.

*Spark-proof (Bronze hook, Bronze wheel or stainless steel wheel) is optional, shall be recommended for increased safety type e, IIC and IIIB.

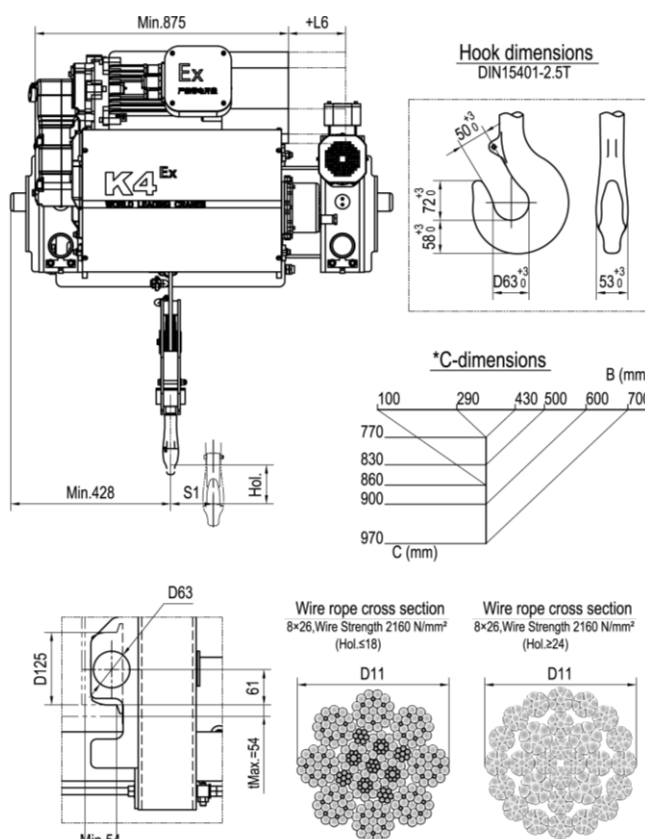
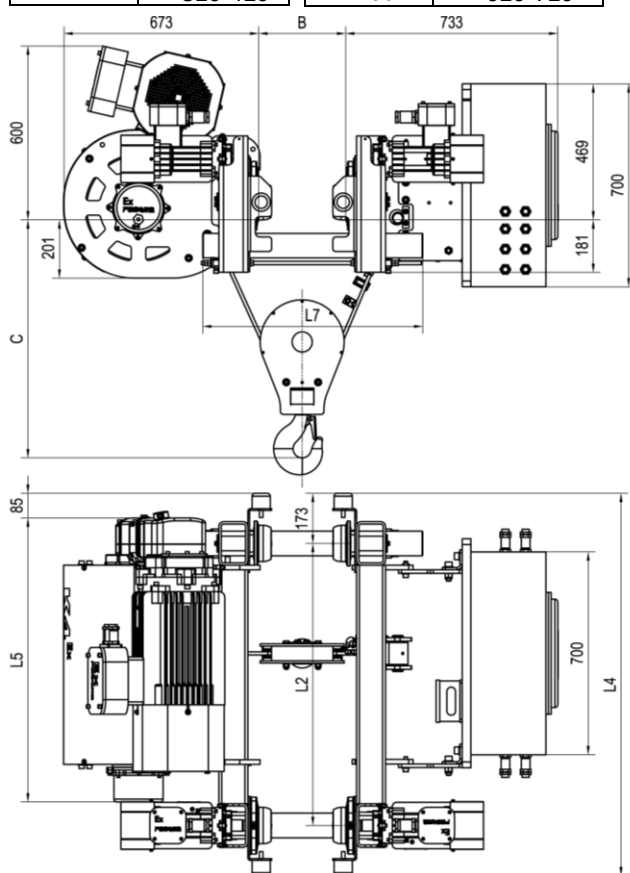
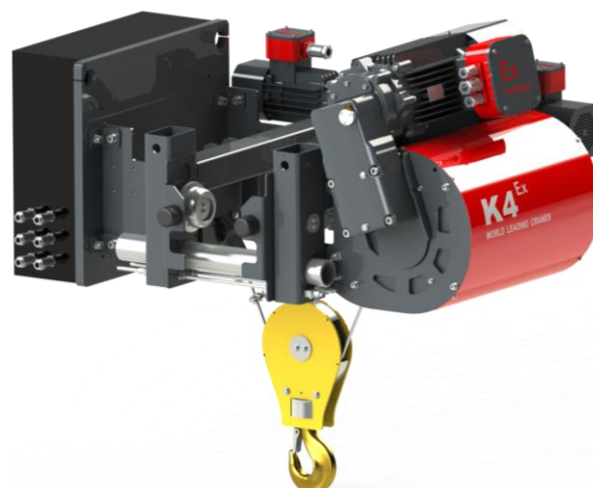
防闪保护 (如镀铜吊钩、镀铜车轮或不锈钢车轮), 是可选项, 推荐用于增安型e、IIC、IIIB。

1.36. Low Headroom Ex Hoist K4102-Ex (Reeving 1:2)

HOL (m)	B	L2	L4	L5	S1	Weight (kg)
18	100~710	843	1189	850	90	907
24		973	1319	980	120	993
32		1008	1489	1150	170	1075

motor	D06	F16
L6	0	0

L7(mm)	B(mm)	L7(mm)	B(mm)
660	>100-210	960	>410-510
760	>210-310	1060	>510-610
860	>310-410	1160	>610-710



Load (kg)	Class FEM/ISO	Hoisting		Travelling			
		Gear ratio 229		Gear Ratio 6			
		Speed (m/min)	Motor	Speed / Motor Code (m/min)			
				II C、III B		II B	
3200	3m/M6	8/1.3 2-speed	1xD06-Ex	16/4	0~16	20/5	0~20
4000	3m/M6			2-speed / 1xFOB4	Stepless/ 1xF03-Ex	2-speed / 1xFOB4	Stepless/ 1xF03-Ex
5000	2m/M5						

*Weight calculated with B in 410.

*Spark-proof (Bronze hook, Bronze wheel or stainless steel wheel) is optional, shall be recommended for increased safety type e, IIC and IIIB.

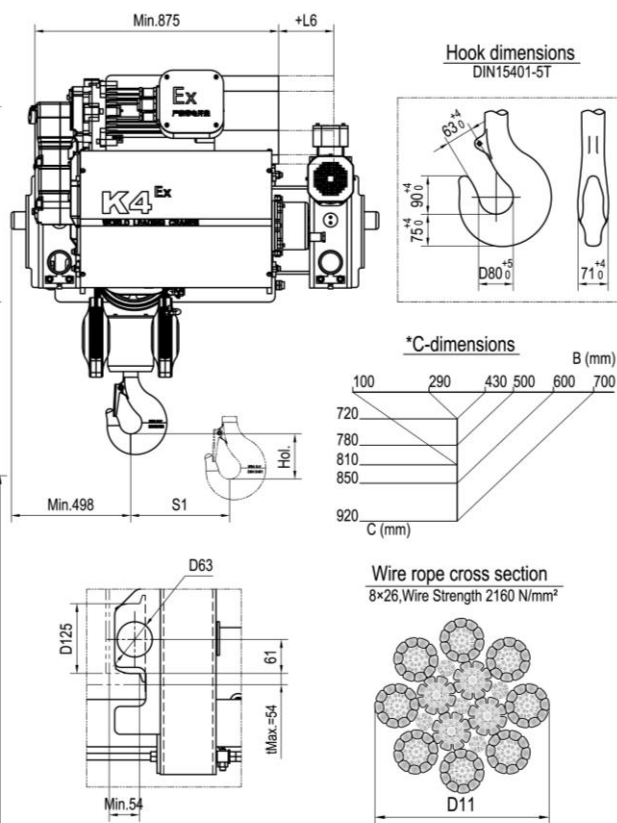
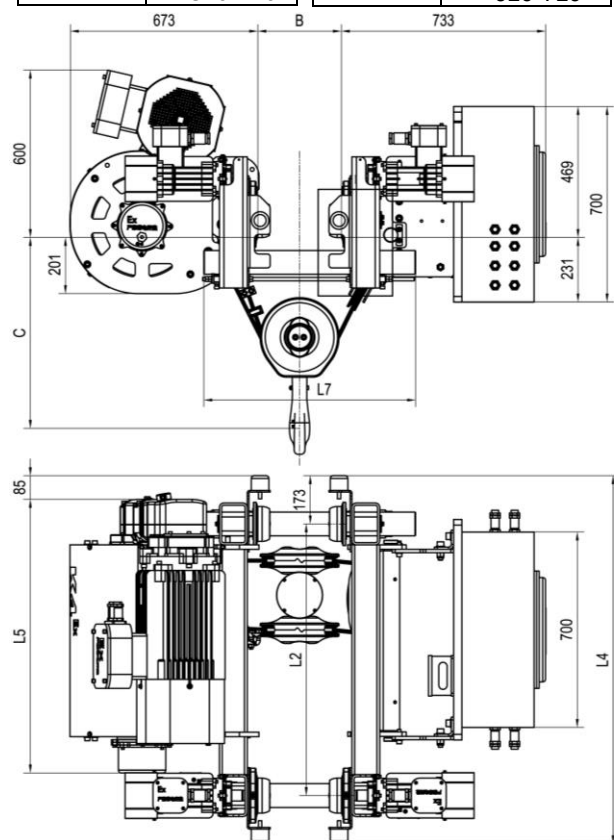
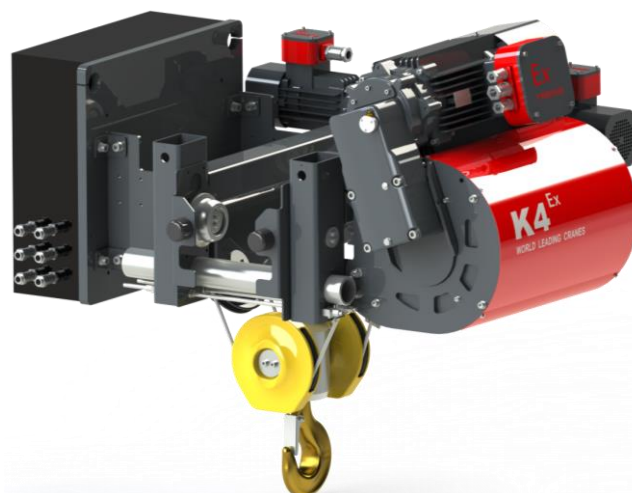
防闪保护 (如镀铜吊钩、镀铜车轮或不锈钢车轮), 是可选项, 推荐用于增安型e、IIC、IIIB。

1.37. Low Headroom Ex Hoist K4104-Ex (Reeving 1:4)

HOL (m)	B	L2	L4	L5	S1	Weight (kg)
9	100~710	843	1189	850	90	961
12		973	1319	980	120	1049
16		1008	1489	1150	170	1129

motor	D06	F16
L6	0	0

L7(mm)	B(mm)	L7(mm)	B(mm)
660	>100-210	960	>410-510
760	>210-310	1060	>510-610
860	>310-410	1160	>610-710



Load (kg)	Class FEM/ISO	Hoisting				Travelling			
		Gear ratio 229		Gear ratio 185		Gear Ratio 6			
		Speed (m/min)	Motor	Speed (m/min)	Motor	Speed / Motor Code (m/min)			
						II C、III B		II B	
5000	3m/M6	4/0.7 2-speed	1xD06-EX	5/0.8 2-speed	1xD06-EX	16/4 2-speed / 1xFO4	0~16 Stepless/ 1xFO3-Ex	20/5 2-speed / 1xFO4	0~20 Stepless/ 1xFO3-Ex
6300	3m/M6								
8000	3m/M6								
10000	2m/M5								

*Weight calculated with B in 410.

*Spark-proof (Bronze hook, Bronze wheel or stainless steel wheel) is optional, shall be recommended for increased safety type e, IIC and IIIB.

防閃保護 (如鍍銅吊鉤、鍍銅車輪或不銹鋼車輪) , 是可選項, 推荐用于增安型e、IIC、IIIB

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1.38. Low Headroom Dust-Proof Hoist K2104 (Reeving 1:4)

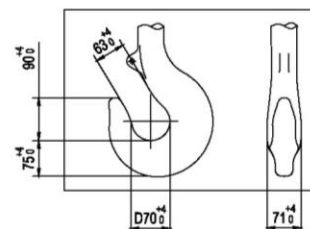
HOL (m)	B	L1	L2	L3	L4	L5	S1	Weight (kg)
6	80~610	512	457	500	699	715	52	288+W0
9.5		452	652	500	894	900	83	312+W0

motor	D01	F11	D02	F12	D03	F13
L6	0	47	89	136	89	136
W0	0	0	11	11	12	9

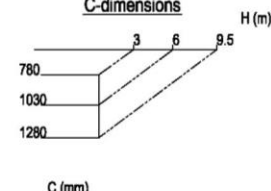
L7(mm)	B(mm)	L7(mm)	B(mm)	L8(mm)	H(m)
700	>100-210	900	>410-510	185	6
700	>210-310	1000	>510-610	380	9.5
800	>310-410				



Hook dimensions
DIN15401-5

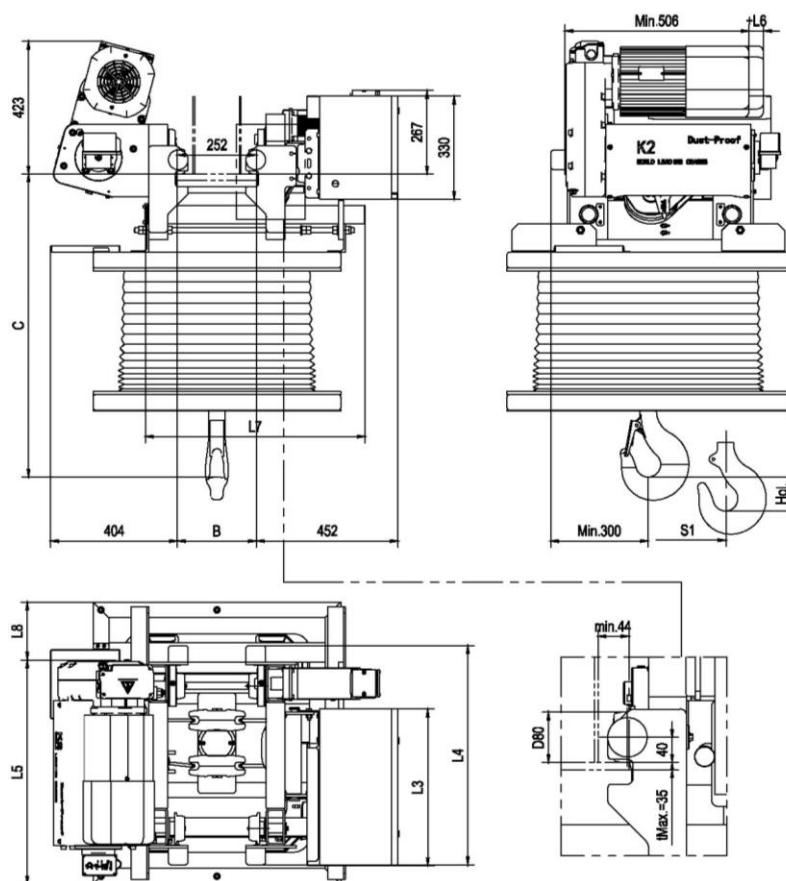
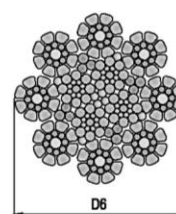


C-dimensions



C (mm)

Wire rope cross section
8×17, Wire Strength 2160 N/mm²



Load (kg)	Class FEM/ISO	Hoisting												Travelling												
		Gear Ratio 70				Gear Ratio 56				Gear Ratio 47				Gear Ratio 6												
		Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed / Motor Code (m/min)												
1600	3m/M6	5/0.8 2-speed	1x D01	0-5 Stepless	1x F11	6.3/1.1 2-speed	1xD02	0-6.3 Stepless	1xF12	8/1.3 2-speed	1xD03	0-8 Stepless	1xF13	0-20 / 1×F02	0-32 / 1×F02											
2000	3m/M6																									
2500	3m/M6		1x D02		1x F12																					
3200	2m/M5																									

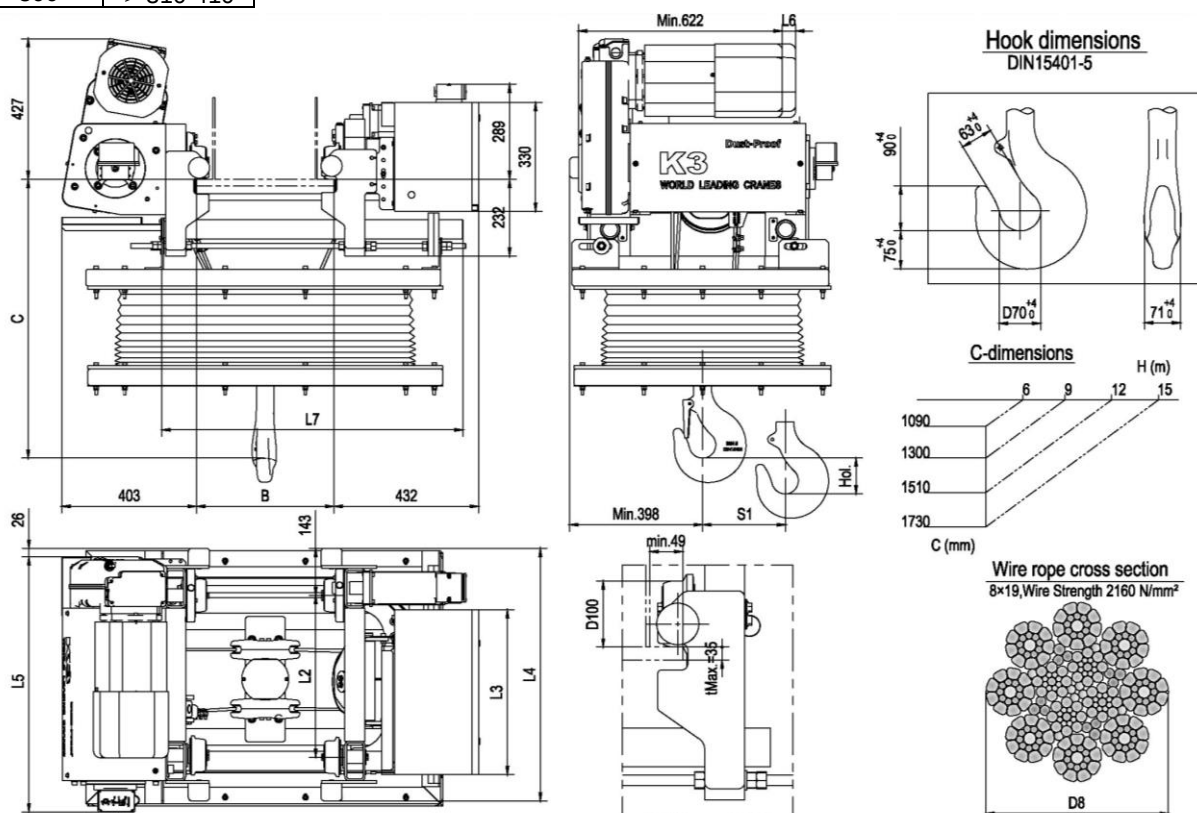
*Weight calculated with B in 410.

1.39. Low Headroom Dust-Proof Hoist K3104 (Reeving 1:4)

HOL (m)	B	L1	L2	L3	L4	L5	S1	Weight (kg)
6	100~610	492	490	500	766	774	52	399+W0
9		432	640	500	916	924	83	414+W0
12		432	810	500	1086	1094	108	437+W0
15		482	970	500	1246	1254	125	466+W0

motor	D03	F13	D04	F14
L6	0	47	71	118
W0	0	-3	17	12

L7(mm)	B(mm)	L7(mm)	B(mm)
700	>100-210	900	>410-510
700	>210-310	1000	>510-610
800	>310-410		



Load (kg)	Class FEM/ISO	Hoisting												Travelling	
		Gear Ratio 109				Gear Ratio 90				Gear Ratio 59				Gear Ratio 6	
		Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed (m/min)	Motor	Speed / Motor Code (m/min)	
3200	3m/M6	4/0.7 2-speed	1xD03	0~4 Stepless	1xF13	5/0.8 2-speed	1xD03	0~5 Stepless	1xF13	8/1.3 2-speed	1xD04	0~8 Stepless	1xF14	0~20 / 1xF02	0~32 / 1xF02
4000	3m/M6														
5000	2m/M5														

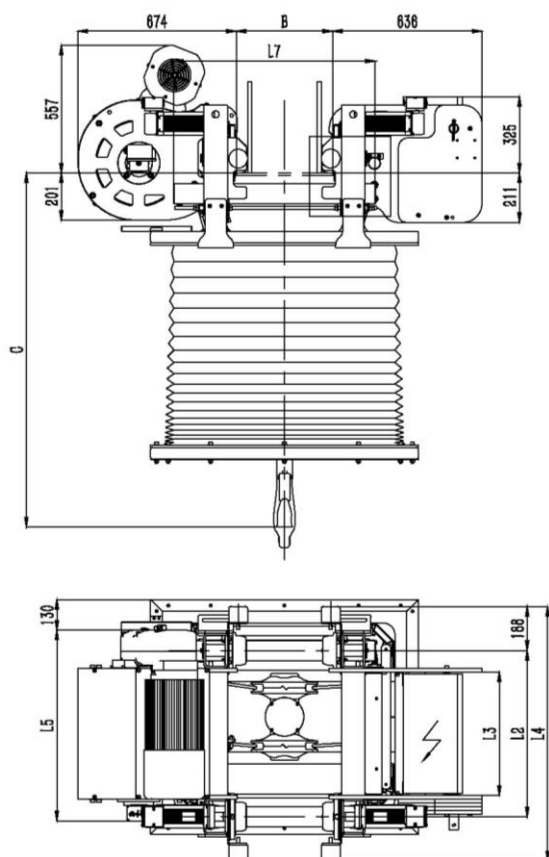
*Weight calculated with B in 410.

1.40. Low Headroom Dust-Proof Hoist K4104 (Reeving 1:4)

HOL (m)	B	L2	L3	L4	L5	S1	Weight (kg)
9	100~710	708	510	1074	817	90	716+W0
12		838	650	1204	947	120	824+W0
16		1008	820	1374	1117	170	904+W0

motor	D05	F15	D06	F16
L6	0	12	-12	85
W0	0	-4	33	22

L7(mm)	B(mm)	L7(mm)	B(mm)
660	>100-210	960	>410-510
760	>210-310	1060	>510-610
860	>310-410	1160	>610-710



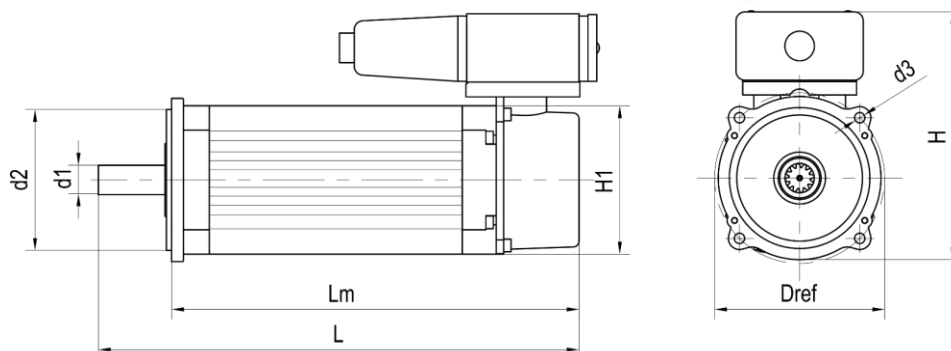
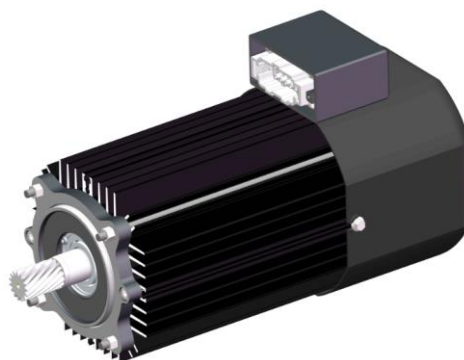
2. Motor

2.1. Motor code

A		D	168	L	2	23	N
Pos.	Code	Description	Properties				
1	A	Motor Classes	A	Asynchronous motor			
			S	Synchronous motor			
2	D	Motor Type	D	Double speed			
			F	Frequency			
3	168	Frame Size	115	Mounting base Ø115			
			130	Mounting base Ø130			
			168	Mounting base Ø168			
			195	Mounting base Ø195			
			245	Mounting base Ø245			
4	L	Frame Length	S	Short frame			
			M	Medium frame			
			L	Long frame			
			X	Expanding frame			
			XA	Expanding A frame			
			XB	Expanding B frame			
			XC	Expanding C frame			
5	2	Pole Number	2	2 poles			
			4	4 poles			
6	23	Output Shaft Teeth	11	11 teeth			
			12	12 teeth			
			15	15 teeth			
			18	18 teeth			
			22	22 teeth			
			23	23 teeth			
			26	26 teeth			
7	N	Special Properties	E	Encode included			
			H	Heating included			
			P	Pulse included			
			N	Normal (no additional)			

2.2. Travelling Motor

Motor Type	L	Lm	H1	Dref	d1	d2	d3	H
F01~F03	325	275	100	115	20	95	7	162
F04~F06	375	320	145	130	25	95	7.2	190

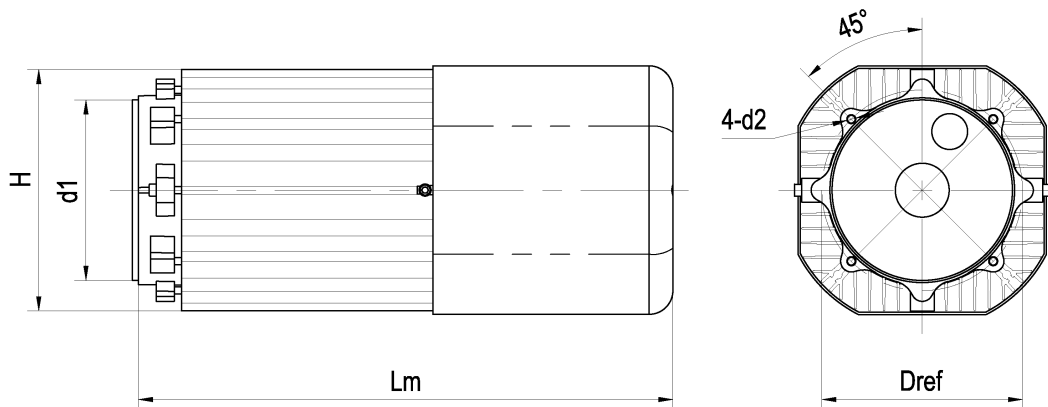
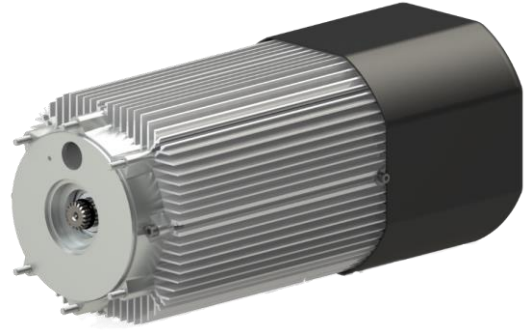


Motor code		AF115M411N		AF115L411N AF115L412N		AF115L211N AF115L212N		AF115X411N AF115X412N		AF130M412N AF130M415N		AF130L212N AF130L215N		AF130L412N AF130L415N	
		F01		F02		F02B		F03		F04		F05		F06	
Duty Type		S3-40%ED 240starts/h		S3-40%ED 240starts/h		S3-40%ED 240starts/h		S3-40%ED 240starts/h		S3-40%ED 240starts/h		S3-40%ED 240starts/h		S3-40%ED 240starts/h	
Inverter supply voltage	V	380~480		380~480		380~415		380~480		380~480		380~415		380~480	
Motor voltage	V	400	480	400	480	400		400	480	400	480	400		400	
Frequency	Hz	100	120	100	120	80		100	120	100	120	80		100	
Brake type		DC		DC		DC		DC		DC		DC		DC	
Brake torque	N.m	4		4		4		4		16		16		16	
Synchronous speed	r/min	3000	3600	3000	3600	4800		3000	3600	3000	3600	4800		3000	
Starting torque	N.m	3.0	2.9	7.2	7.1	5.8		10.5	10.4	23.5	21.6	16.5		\	
Starting current	A	4.2	4.3	8.2	8.5	10		12.9	12.6	35	34	32		\	
Maximum torque	N.m	3.0	2.9	7.2	7.1	5.8		11	10.8	25	23	17		24	
No-load current	A	1.0	1.0	1.6	1.6	0.8		2.2	2.0	5.4	4.9	6.0		6.0	
Inertia	kgm ²	0.0004		0.0007		0.0007		0.0006		0.0012		0.0012		0.0012	
Weight	kg	5		6.8		7		7.8		13		13		13	
Speed	r/min	2855	3430	2800	3360	4490		2770	3370	2860	3460	4460		2800	
Power	kW	0.3	0.37	0.65	0.75	0.65		1.1	1.1	2.2	2.5	3.0		3.0	
Torque	N.m	1.0	1.0	2.6	2.6	1.4		3.8	3.1	7.3	7.3	6.4		10.3	
Current	A	1.2	1.2	2.1	2.1	1.5		3	2.9	6.9	6.5	7.9		8.1	
Power factor	cosφ	0.57	0.59	0.61	0.61	0.73		0.73	0.74	0.66	0.68	0.78		0.77	
Efficiency	η	0.65	0.65	0.73	0.74	0.77		0.74	0.76	0.73	0.75	0.74		0.73	

Speed control: Inverter

2.3. Pole Changed Hoisting Motor (Double speed)

Motor code	Lm	H	Dref	d1	d2
D01	358	202	168	151	7.5
D02	448	202	168	151	7.5
D03	448	202	168	151	7.5
D04	518.5	228	195	176	9
D05	548.5	228	195	176	9
D06	532.5	271	245	214	11
D07	627.5	271	245	214	11
D08	627.5	271	245	214	11



380~415V 50Hz 3000/500r/min

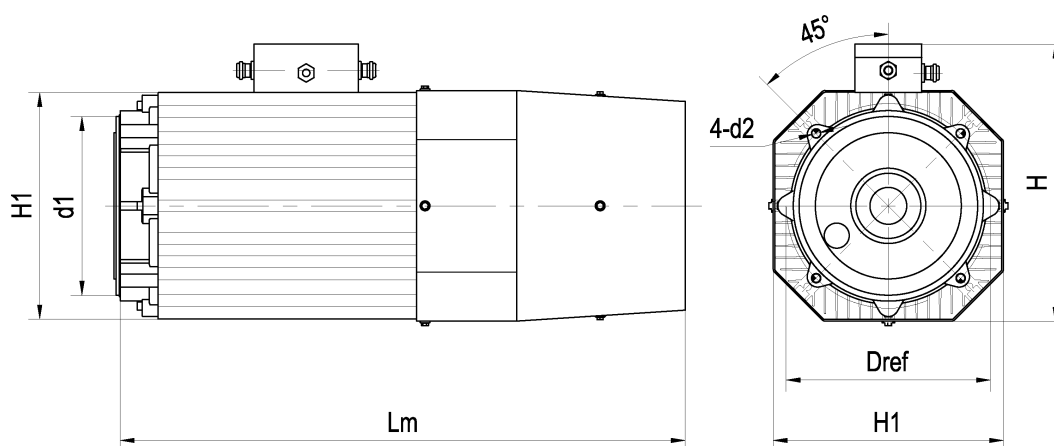
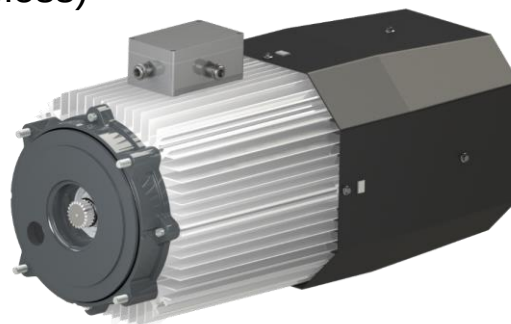
Motor code			AD168M223N D01		AD168L223N D02		AD168X223N D03		AD195L222N D04		AD195X222N D05		AD245M226N D06		AD245L226N D07		AD245X218N D08		
Duty type			S3-60%ED 300starts/h		S3-60%ED 300starts/h		S3-60%ED 300starts/h		S3-60%ED 300starts/h		S3-60%ED 300starts/h		S3-60%ED 300starts/h		S3-60%ED 300starts/h		S3-50%ED 300starts/h		
Synchronous speed	r/min	3000	500	3000	500	3000	500	3000	500	3000	500	3000	500	3000	500	3000	500	3000	500
Starting torque	N.m	13.1	10.7	31	22	33.8	27.6	43	43.7	51.4	49.5	103	82	117	111	121	111		
Starting current	A	19	3.6	42	6.7	46.9	7.78	79	13.3	94	15.6	134	21	161	32	212	37		
Maximum torque	N.m	17.6	12.2	34	24.6	42.6	30.6	63	48	83.7	60	145.8	82	137	111	182	130		
Brake torque	N.m	21		21		42		60		60		100		130		200			
No-load current	A	2.5	2.8	3	4.3	3.6	5.5	4.6	9.2	5.2	10	10.9	13	9.2	10	20	19		
Inertia	kgm ²	0.0027		0.0049		0.0059		0.0101		0.0116		0.036		0.043		0.043			
Weight	kg	21.6		34		36		52.6		56		90		115		115			
2m/M5 S3-40%ED 240starts/h	Speed	r/min	2665	420	2644	400	2620	415	2653	355	2773	335	2653	420	2818	425	2798	414	
	Power	kW	2	0.25	3.7	0.5	5	0.7	7.5	1.2	9	1.4	15	2.5	18.5	3	23	3.5	
	Current	A	4.5	2.8	8.3	4.1	10.2	5.5	16.3	9.5	18.6	11	32.5	14	34.9	18	48	20	
	Torque	N.m	6.45	6.1	13	12.3	16.4	15.3	27	24	31	30	54	48	61	61	78.5	81	
	Power factor	cosφ	0.88	0.67	0.92	0.63	0.93	0.61	0.94	0.56	0.93	0.61	0.91	0.59	0.92	0.56	0.88	0.63	
	Efficiency	η	0.68	0.24	0.72	0.3	0.72	0.3	0.75	0.28	0.79	0.28	0.77	0.45	0.86	0.47	0.83	0.42	
3m/M6 S3-50%ED 300starts/h	Speed	r/min	2830	435	2850	420	2830	430	2730	390	2760	370	2810	440	2820	440	2870	440	
	Power	kW	1.5	0.2	2.9	0.4	3.6	0.5	6	1	7.5	1.2	12	2	15	2.5	18	3	
	Current	A	4.3	2.5	7	3.8	8.4	5	13.7	8.6	16	9	25	12	28	15	42	20	
	Torque	N.m	4.9	4.9	9.8	9.8	12.3	12.3	19.2	19.2	24	24	38	38	48	48	62	62	
	Power factor	cosφ	0.78	0.64	0.84	0.58	0.89	0.56	0.87	0.52	0.87	0.56	0.82	0.52	0.89	0.47	0.79	0.51	
	Efficiency	η	0.64	0.22	0.76	0.29	0.74	0.29	0.74	0.27	0.79	0.28	0.8	0.43	0.82	0.43	0.84	0.42	

440~480V 60Hz 3600/600r/min

Motor code		AD168M223N D01		AD168L223N D02		AD168X223N D03		AD195L222N D04		AD195X222N D05		AD245M226N D06		AD245L226N D07		AD245X218N D08		
Duty type		S3-60%ED 300starts/h		S3-60%ED 300starts/h		S3-60%ED 300starts/h		S3-60%ED 300starts/h		S3-60%ED 300starts/h		S3-60%ED 300starts/h		S3-60%ED 300starts/h		S3-50%ED 300starts/h		
Synchronous speed	r/min	3600	600	3600	600	3600	600	3600	600	3600	600	3600	600	3600	600	3600	600	
Starting torque	N.m	12.4	10.7	24.6	21.7	34	28	54	44	63	51	102	82	114	101	160	140	
Starting current	A	23	4.7	43	7.3	49	8.4	70	14	80	15	149	25	207	35	220	35	
Maximum torque	N.m	17.6	12.2	34	24.6	42.6	30.6	63	48	83.7	60	145.8	82	137	111	182	130	
Brake torque	N.m	21		21		42		60		60		100		130		200		
No-load current	A	2.5	2.8	3.8	4.1	4	5.4	6	8.8	6.7	9.5	13	12	10	16	19	20	
Inertia	kgm ²	0.0027		0.0049		0.0059		0.0101		0.0116		0.036		0.043		0.043		
Weight	kg	21.6		34		36		52.6		56		90		115		115		
2m/M5 S3-40%ED240starts/h	Speed	r/min	3410	525	3400	500	3350	495	3230	450	3250	440	3320	515	3360	520	3430	530
	Power	kW	2.2	0.3	4.3	0.7	5.4	0.9	9	1.4	11	1.6	18	3	21	3.5	25	3.8
	Current	A	4.7	2.8	8.3	4	10	5.4	17	9.1	20	10	32	13	38	16	47	22
	Torque	N.m	6.1	6.1	12.3	12.3	15.3	15.3	24	24	30	30	48	48	62	62	69	69
	Power factor	cosφ	0.83	0.65	0.89	0.61	0.93	0.6	0.91	0.54	0.91	0.57	0.88	0.59	0.92	0.55	0.87	0.54
	Efficiency	η	0.71	0.28	0.75	0.38	0.74	0.36	0.74	0.34	0.75	0.35	0.8	0.5	0.81	0.52	0.86	0.49
3m/M6 S3-50%ED300starts/h	Speed	r/min	3450	540	3450	520	3410	530	3315	490	3320	470	3390	540	3410	540		
	Power	kW	1.8	0.25	3.5	0.5	4.3	0.7	7.2	1.2	9	1.4	14	2.3	18	3		
	Current	A	4.2	2.5	7.3	3.9	8.5	4.9	13	8.3	16	8.7	26	13	28	14		
	Torque	N.m	4.9	4.9	9.8	9.8	12.3	12.3	19.2	19.2	24	24	38	38	48	48		
	Power factor	cosφ	0.8	0.58	0.87	0.54	0.91	0.53	0.88	0.49	0.9	0.53	0.85	0.52	0.9	0.47		
	Efficiency	η	0.71	0.25	0.75	0.36	0.75	0.34	0.76	0.33	0.77	0.35	0.82	0.48	0.83	0.49		

2.4. Frequency control hoisting motor (Stepless)

Motor code	Lm	H1	H	Dref	d1	d2
F11	358	202	260	168	151	7.5
F12	448	202	260	168	151	7.5
F13	448	202	260	168	151	7.5
F14	518.5	228	286	195	176	9
F15	518.5	228	286	195	176	9
F16	637.5	271	329	245	214	11
F17	637.5	271	329	245	214	11
F18	677.5	271	329	245	214	11
F19	677.5	271	329	245	214	11



380~480V 3000r/min(100Hz) & 3600r/min(120Hz)

Motor code		AF168M423E		AF168L423E		AF168X423E		AF195L422E		AF195X422E		AF245M426E		AF245L426E		AF245X418E		AF245XA418E		
		F11		F12		F13		F14		F15		F16		F17		F18		F19		
Duty group		S3-60%ED 300starts/h		S3-60%ED 300starts/h		S3-60%ED 300starts/h		S3-60%ED 300starts/h		S3-60%ED 300starts/h		S3-60%ED 300starts/h		S3-60%ED 300starts/h		S3-60%ED 300starts/h		S3-60%ED 300starts/h		
Motor voltage	V	380 ~415	440 ~480	380 ~415	440 ~480	380 ~415	440 ~480	380 ~415	440 ~480	380 ~415	440 ~480	380 ~415	440 ~480	380 ~415	440 ~480	380 ~415	440 ~480	380 ~415	440 ~480	
Frequency	Hz	100	120	100	120	100	120	100	120	100	120	100	120	100	120	100	120	100	120	
Synchronous speed	r/min	3000	3600	3000	3600	3000	3600	3000	3600	3000	3600	3000	3600	3000	3600	3000	3600	3000	3600	
Maximum torque	N.m	14	14	28	28	40	40	57	57	69	69	113	113	143	143	172	172	248	248	
Brake torque	N.m	21		21		42		60		60		100		130		200		200		
No-load current	A	1	3	1.5	5.7	1.2	5.9	1.5	11	1.9	11	8.3	14	15	14	17	16	2.4	2.9	
Inertia	kgm ²	0.0027		0.0027		0.0027		0.0075		0.0075		0.024		0.024		0.03		0.036		
Weight	kg	23		33		41		50.5		54.9		80		102		106		106		
2m/M5 S3-40%ED 240starts/h	Speed	r/min	2830	3420	2790	3370	2860	3340	2860	3440	2830	3410	2910	3500	2890	3480	2890	3470	2855	3470
	Power	kW	2	2.2	3.7	4.3	5	5.4	7.5	9	9	11	15	18	18.5	21	23	27	28	34
	Current	A	5.17	4.9	9.4	9.3	10.2	10.8	17.3	19	21	22	31	31	36	37	42	44	54	56
	Torque	N.m	6.75	6.14	12.7	12.2	16.7	15.5	25	25	30	30	48	48	62	62	76	76	92	92
	Power factor	cosφ	0.7	0.75	0.71	0.77	0.75	0.8	0.78	0.75	0.78	0.78	0.85	0.85	0.87	0.87	0.88	0.88	0.89	0.89
	Efficiency	η	0.73	0.71	0.75	0.76	0.77	0.77	0.81	0.78	0.81	0.81	0.86	0.86	0.87	0.87	0.89	0.89	0.87	0.87
3m/M6 S3-50%ED 300starts/h	Speed	r/min	2860	3450	2830	3415	2830	3390	2900	3485	2860	3440	2925	3520	2910	3500	2910	3500	2920	3500
	Power	kW	1.5	1.8	2.9	3.5	3.6	4.3	6	7.2	7.5	9	12	14	15	18	18	21	23	27
	Current	A	4.4	4.6	8.3	8.2	9.3	9.3	15.5	17	18	19	25	26	31	31	34	36	45	46
	Torque	N.m	5	4.98	9.79	9.79	12.1	12.1	19.8	19.7	24	24	38	38	48	48	62	62	76	76
	Power factor	cosφ	0.69	0.72	0.69	0.7	0.72	0.76	0.67	0.69	0.74	0.75	0.79	0.81	0.85	0.85	0.86	0.86	0.84	0.86
	Efficiency	η	0.71	0.69	0.74	0.75	0.77	0.77	0.8	0.78	0.81	0.78	0.86	0.85	0.86	0.86	0.89	0.89	0.89	0.89

3. Travelling gearbox

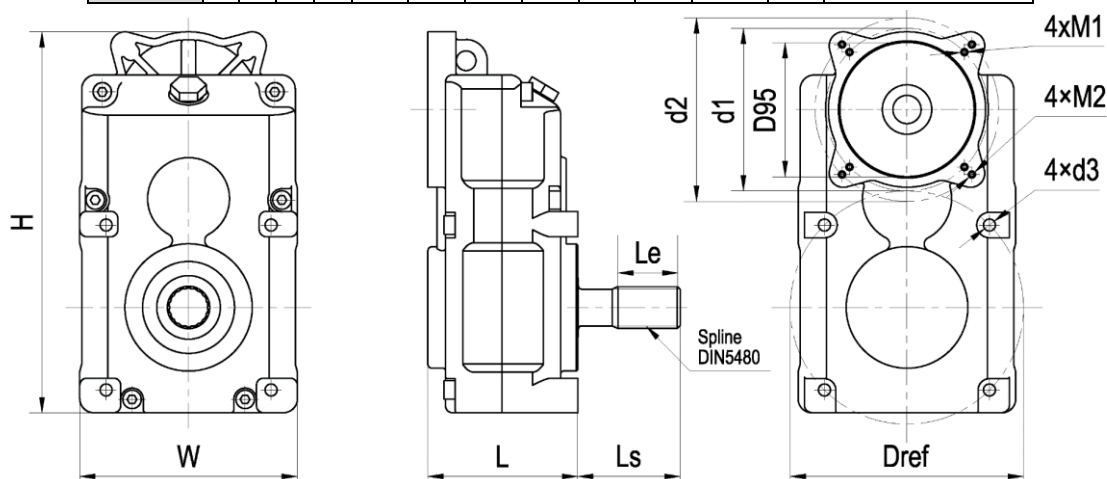
3.1. Travelling gearbox code

T		3	042	S	3
Pos.	Code	Description	Properties		
1	T	Transmission			
2	3	Gear Type	0	Future Reservation	
			1、2	Trolley	
			3、4、5	Trolley, Bridge	
			6、7、8、9	Bridge, Gantry	
3	042	Ratio Code		006、015、025、032、042、056、063、072、090、100、115	
4	S	Secondary Shaft Type	G	Gear Shaft	
			H	Hollow Shaft + Keyway	
			K	Keyway	
			P	Shaft + Pinion	
			S	Spline Shaft	
5	3	Secondary Shaft Size	1	D55	
			2	D45	
			3	D30	
			4	D22	
			5	D25	

3.2. Dimension of travelling gearbox



Size Gearbox	Le	Ls	L	S	H	W	Dref	d1	d2	d3	M1	M2	Spline type (DIN 5480)
T3...S4	32	82	93	15	216	120	140	115	N/A	8.5	M6	N/A	W22x1.25x16x8f
T3...S3	46	86	93	15	216	120	140	115	N/A	8.5	M6	N/A	W30x1.5x18x8f
T4...S3	48	72	106	11	265	154	165	115	130	8.5	M6	M6	W30x1.5x18x8f
T4...S2	48	72	106	11	265	154	165	115	130	8.5	M6	M6	W45x2x21x8f
T5...S2	96	111	143	16	362	200	210	115	130	13	M6	M6	W45x2x21x8f
T5...S1	86	91	143	16	362	200	210	115	130	13	M6	M6	W55x2x26x8f
T6...S3	48	72	113.5	11	452	152	165	115	N/A	8.5	M6	N/A	W30x1.5x18x8f
T6...S2	48	72	108	11	527	152	165	115	130	8.5	M6	M6	W45x2x21x8f



Gearbox code	Ratio code	Ratio	Output Shaft Teeth of motor	Secondary Shaft Type		Secondary Shaft Size			Output Torque Nm
T2	6	6.18	11	G		3			24
T3	15	15.05	11	S	P	(S)3	(S)4	(P)5	60
	25	24.89	11	S	P	(S)3	(S)4	(P)5	100
	32	30.47	11	S	P	(S)3	(S)4	(P)5	120
	42	41.92	11	S	P	(S)3	(S)4	(P)5	165
T4	63	60.13	12	S		2	3		550
	72	72.8	12	S		2	3		570
	90	89.03	11	S		2	3		650
	100	107.8	11	S		2	3		680
T5	56	54.04	15	S		1	2		1350
	72	70.66	12	S		1	2		1450
	90	87.44	15	S		1	2		1900
	115	114.3	12	S		1	2		2030
T6	63	60.13	12	S		2	2		550
	72	72.8	12	S		2	2		570
	90	89.03	11	S		2	2		650
	100	107.8	11	S		2	2		680

4. Gearmotor

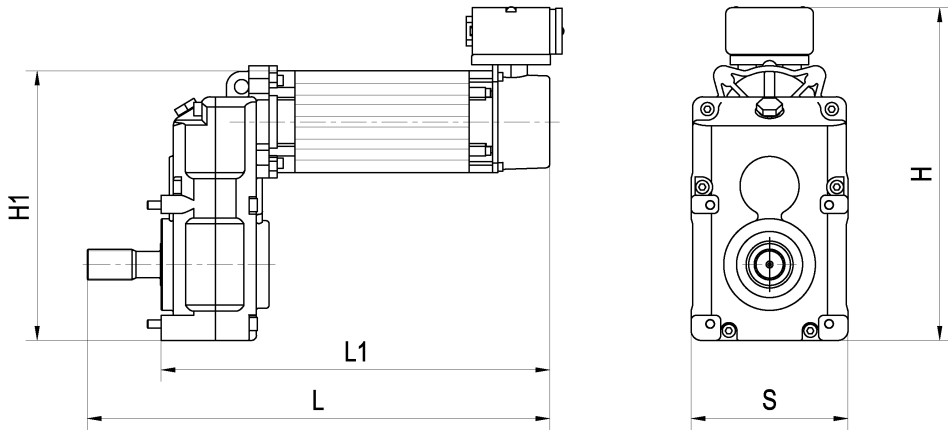
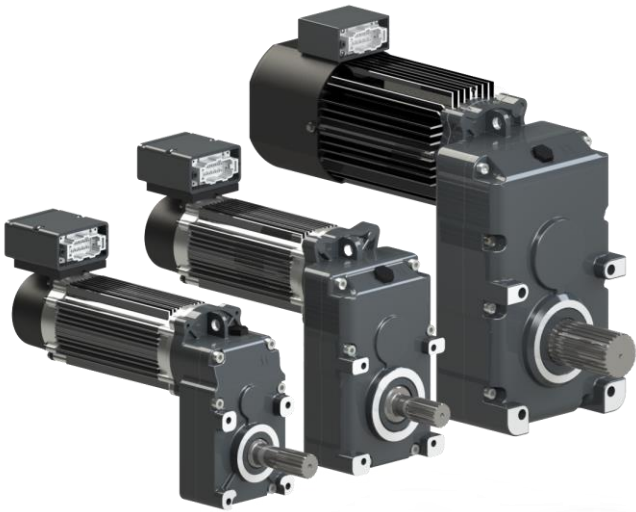
4.1. Gearmotor code

T	3	042	S	3	F	115	L	4	11	N
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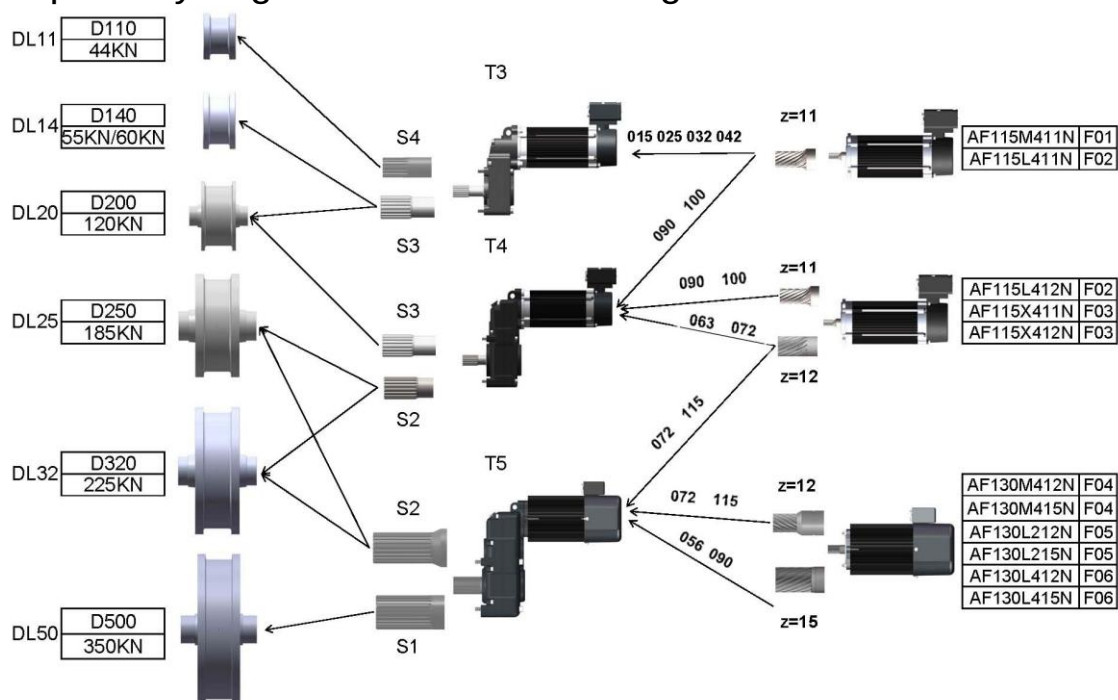
Pos.	Code	Description	Properties	
1	T	Transmission		
2	3	Gear Type	0	Future Reservation
			1、2	Trolley
			3、4、5	Trolley, Bridge
			6、7、8、9	Bridge, Gantry
3	042	Ratio Code		006、015、025、032、042、056、063、072、090、100、115
4	S	Secondary Shaft Type	G	Gear Shaft
			H	Hollow Shaft + Keyway
			K	Keyway
			P	Shaft + Pinion
			S	Spline Shaft
5	3	Secondary Shaft Size	1	D55
			2	D45
			3	D30
			4	D22
			5	D25
6	F	Motor Type	D	Double speed
			F	Frequency
7	115	Frame Size	115	Mounting base Ø115
8	L	Frame Length	S	Short frame
			M	Medium frame
			L	Long frame
			X	Expanding frame
			XA	Expanding A frame
			XB	Expanding B frame
			XC	Expanding C frame
9	4	Pole Number	2	2 poles
			4	4 poles
10	11	Output Shaft Teeth of motor	11	11 teeth
11	N	Special Properties	E	Encode included
			H	Heating included
			P	Pulse included
			N	Normal (no additional)

4.2. Dimension of gearmotor

Gearmotor code	L	L1	S	H	H1
T3...F115...	455	368	120	280	158
T4...F115...	454	381.5	154	326.5	190
T5...F115...	509.5	419	200	422	260
T5...F130...	553.5	463	200	427	282.5
T6...F115...	455.5	383.5	152	583	521



4.3. Compatibility of gearmotor & end carriage



End carriage	DN11				DN14				DN20			
Wheel diameter (mm)	110				140				200			
Motor code	F01		F02		F01		F02		F01		F02	
Motor speed (rpm)	2855		2800		2855		2800		2855		2800	
Ratio	15	25	32	42	15	25	32	42	15	25	32	42
Bridge speed (m/min)	66	39	31	23	65	39	30	23	84	50	39	30
End carriage	DN20				DN25				DN32			
Wheel diameter (mm)	200				250				320			
Motor code	F03		F02		F03		F04		F05		F06	
Motor speed (rpm)	2770		2800		2770		2860		4460		2800	
Ratio	63	72	90	100	63	72	90	100	63	72	90	100
Bridge speed (m/min)	28	24	19	17	35	31	24	22	35	30	24	22
End carriage	DN32				DN50				DN50			
Wheel diameter (mm)	320				500				500			
Motor code	F03		F04		F05		F06		F04		F05	
Motor speed (rpm)	2770		2860		4460		2800		2860		4460	
Ratio	63	72	90	100	56	72	90	115	56	72	90	115
Bridge speed (m/min)	44	39	31	28	51	40	32	25	80	62	50	39

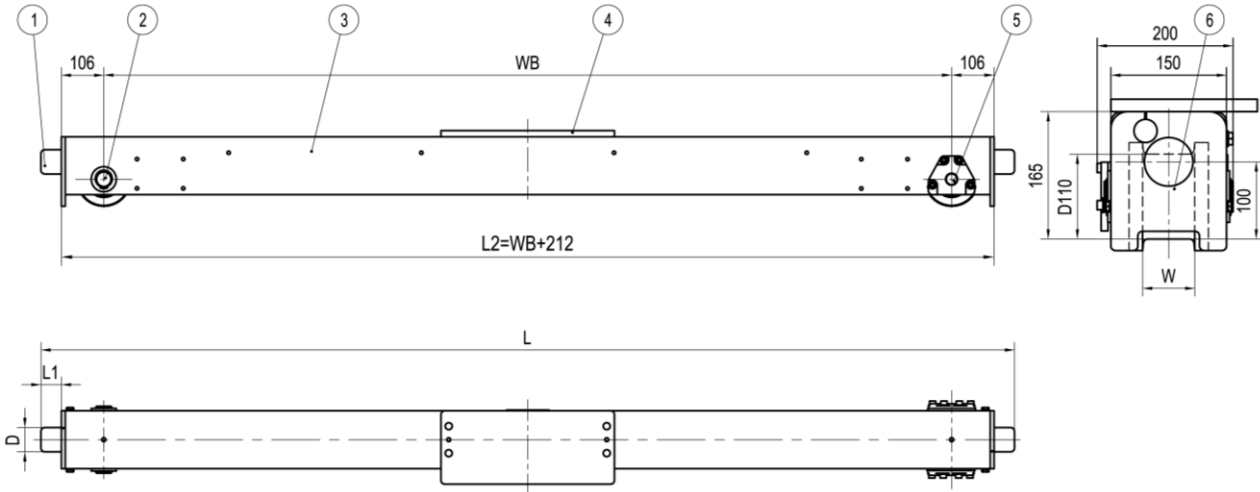
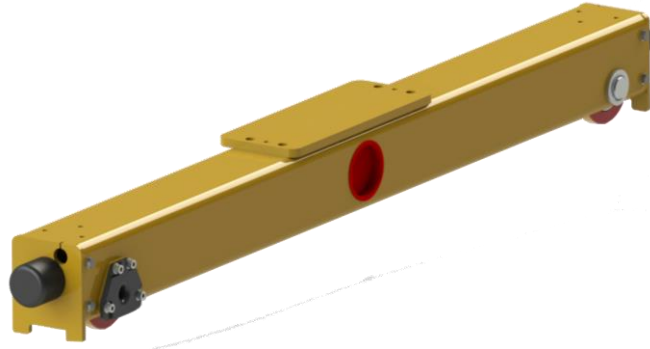
5. End carriage

5.1. End carriage code

DN20	B	WB	W	S	K4	Y1	C	Y2	M	N
Pos.	Code	Description	Parameter							
1	DN20	End carriage type and wheel diameter	Wheel diameter 20=200mm							
2	B	Description	-	Standard						
			B	Bogie(with DN20,DN25,DN32,DN50)						
			C	Asymmetrical joint with single girder						
3	WB	Wheel base(100mm)	DN11 14,18,22,27 DN14 14,18,22,27,31,38 DN20 12,14,16,18,20,22,27,31,38 DN25 14,16,18,20,22,27,31,38,45,50,55 DN32 14,16,18,20,22,27,31,38,45,50,55 DN40 16,18,20,22,27,31,38,45,50,55 DN50 16,18,20,22,27,31,38,45,50,55							
4	W	Groove width	DN11 75 DN14 75 DN20 75,95 DN25 55~100(100 is 99 in code),101~125(special design) DN32 55~100(100 is 99 in code) DN40 55~100(100 is 99 in code) DN50 55~100(100 is 99 in code),101~125(special design)							
5	S	Number of driving wheels	S	One driving wheel						
			D	Two driving wheels						
6	K4	Joint type	Top joint	DN11,DN14 DN20 DN25,DN32,DN40,DN50				A4,A6 B3,B4,B5 C4,C5,C7,F4,F5,F7		
			Side joint	DN20 DN25,DN32,DN40,DN50						
7	Y1	Bolt joint distance	4 digits							
8	C	Buffer type	Type	L1	D	Material	Type	L1	D	Material
			A	53	63	Rubber	E	150	100	Polyurethane
			B	68	80	Rubber	F	190	125	Polyurethane
			C	85	100	Rubber	G	100	100	Polyurethane
			D	105	125	Rubber	H	160	160	Polyurethane
							I	200	200	Polyurethane
9	Y2	Inner wheel distance	4 digits							
10	M	Bogie connection hole distance	4 digits							
11	N	Option	N	N= Normal (standard delivery)						
			E	E= Extensional (tailor made)						

5.2. DN11 End carriage

DN11- End carriage	WB (100mm)	Weight (kg)
	14	86
	18	103
	22	120
	27	141



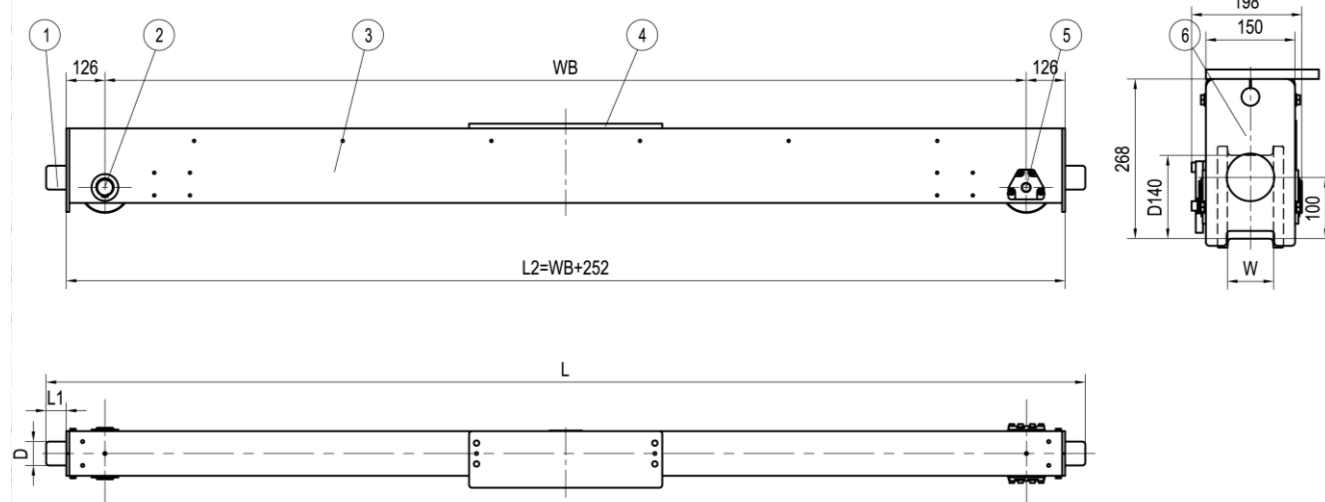
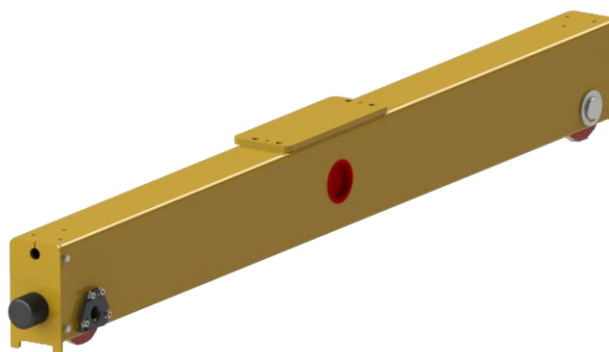
①Buffer; ②Wheel (idle); ③End carriage; ④Joint plate; ⑤Wheel (drive); ⑥Integrated derailment support

*W=75;

*Dimension L1, D see 5.1

5.3. DN14 End carriage

DN14- End carriage	WB (100mm)	Weight (kg)
	14	125
	18	157
	22	179
	27	208
	31	231
	38	272



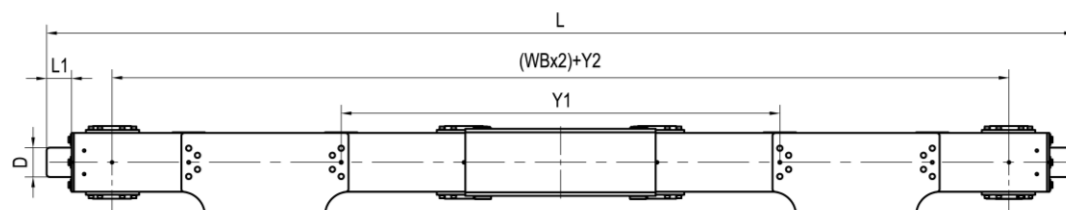
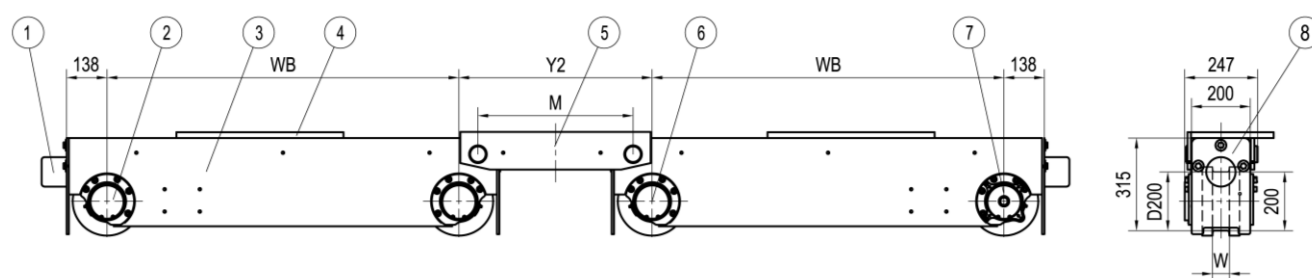
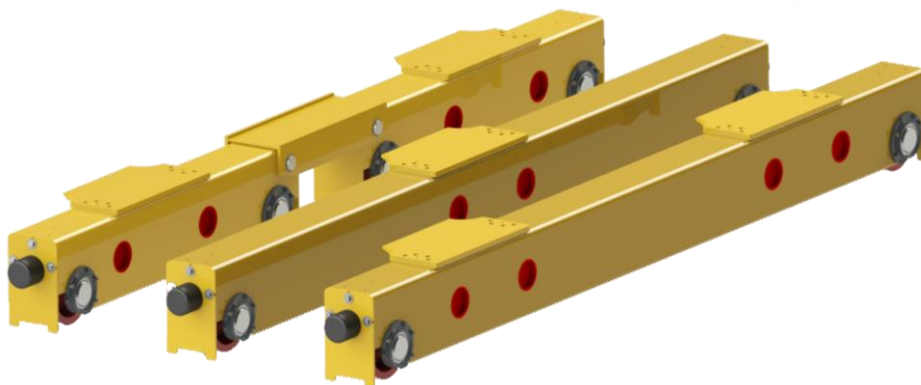
①Buffer; ②Wheel (idle); ③End carriage; ④Joint plate; ⑤Wheel (drive); ⑥Integrated derailment support

*W=75;

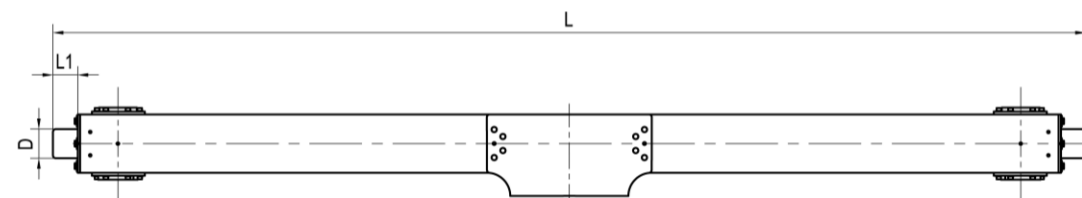
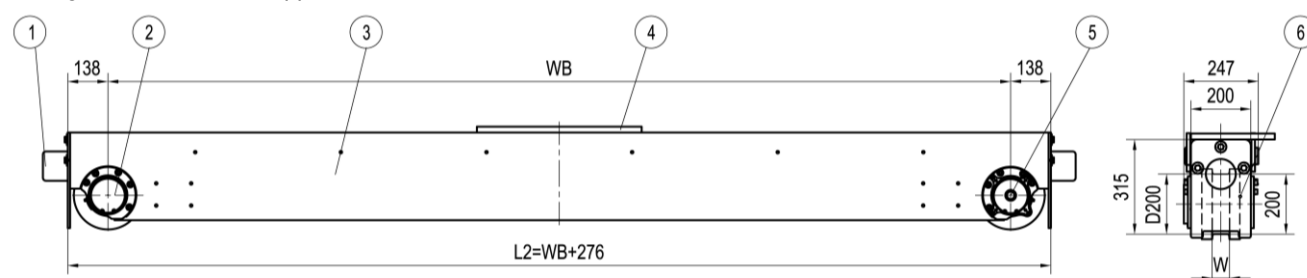
*Dimension L1, D see 5.1

5.4. DN20 End carriage

DN20B End carriage	WB (100mm)	Weight (kg)
	12	169
	14	185
	16	198
	18	213
DN20- End carriage	18	213
	22	242
	27	285
	31	315
	38	351



- ①Buffer; ②Wheel (idle or drive); ③End carriage; ④Joint plate; ⑤Bogie; ⑥Wheel (idle); ⑦Wheel (drive);
⑧Integrated derailment support



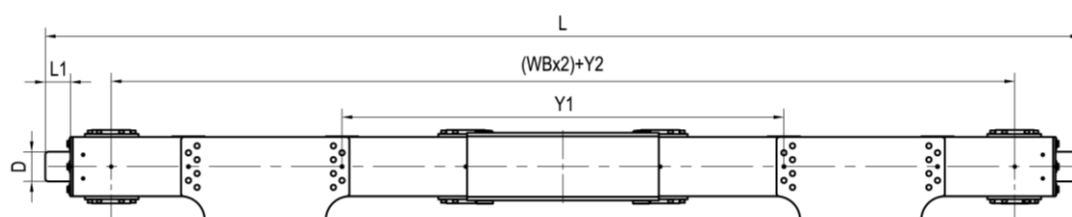
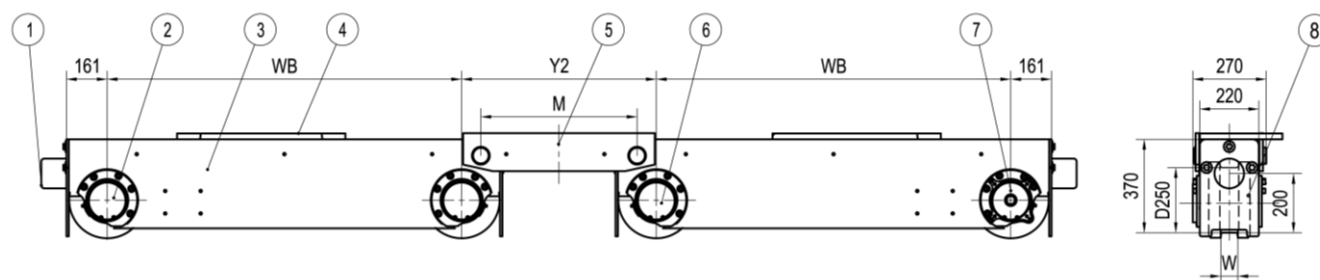
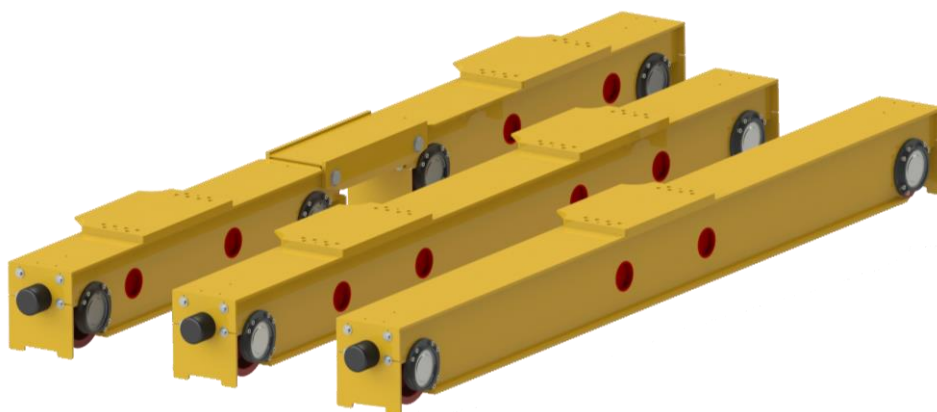
- ①Buffer; ②Wheel (idle); ③End carriage; ④Joint plate; ⑤Wheel (drive); ⑥Integrated derailment support

*W=75; 95;

*Dimension L1, D see 5.1

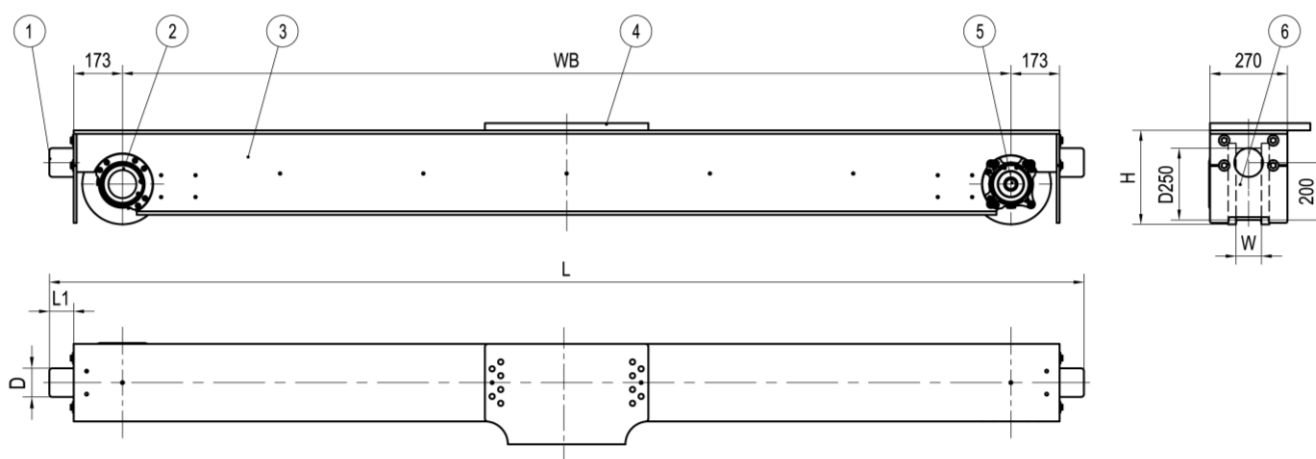
5.5. DN25 End carriage

DN25B End carriage	WB (100mm)	Wight (kg)	H (mm)
	14	311	370
	16	331	370
	18	357	370
	20	382	370
DN25- End carriage	22	408	310
	27	470	310
	31	520	312
	38	608	316
	45	675	416
	50	733	416
	55	796	416



- ①Buffer; ②Wheel (idle or drive); ③End carriage; ④Joint plate; ⑤Bogie; ⑥Wheel (idle); ⑦Wheel (drive);
⑧Integrated derailment support

*Rectangular type.



- ①Buffer; ②Wheel (idle); ③End carriage; ④Joint plate; ⑤Wheel (drive); ⑥Integrated derailment support

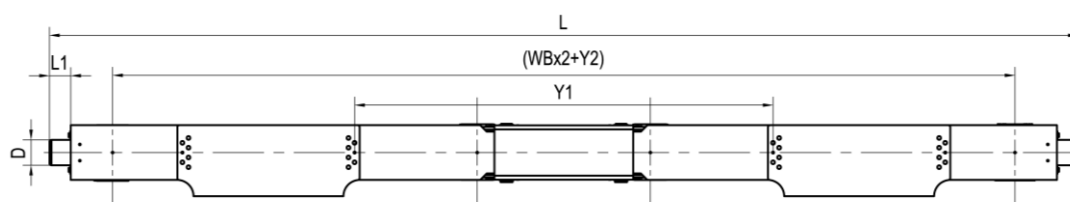
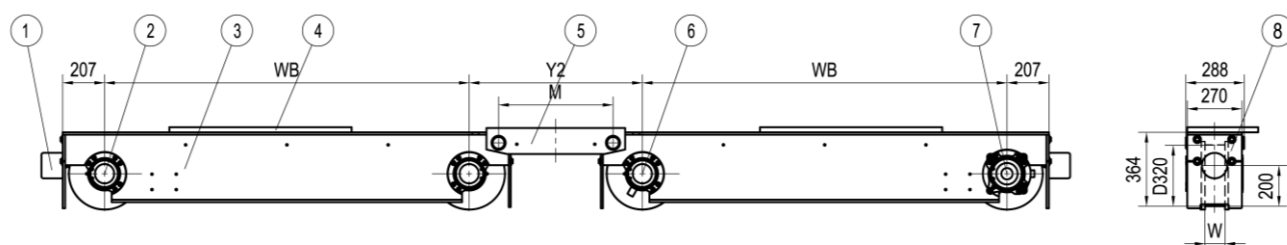
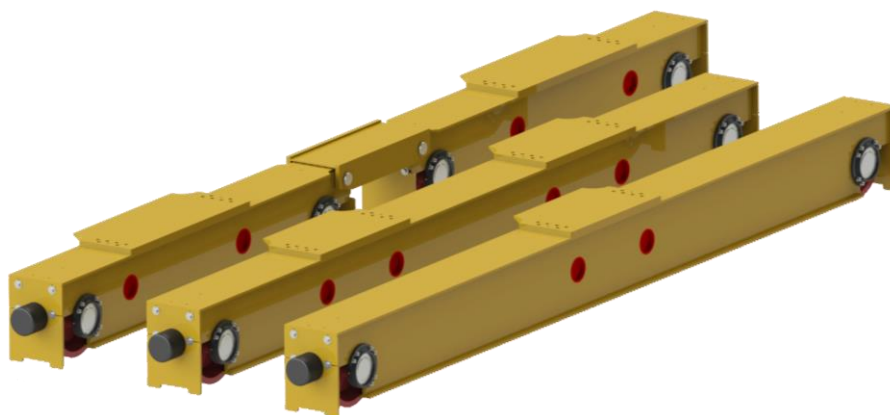
*Welding type;

*W=55~100 (100 is 99 in code);

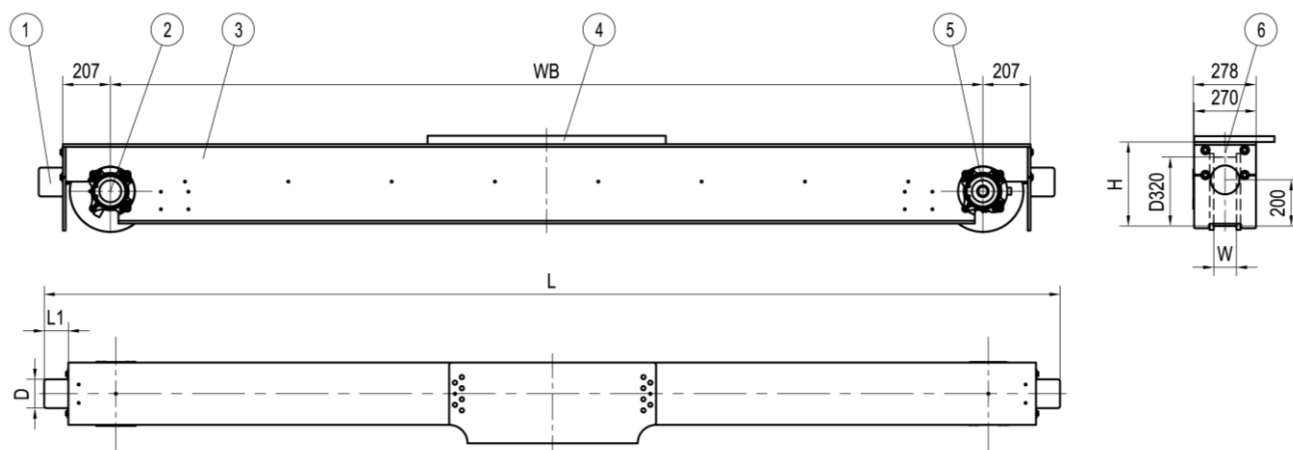
*Dimension L1, D see 5.1

5.6. DN32 End carriage

DN32B End carriage	WB (100mm)	Weight (kg)	H (mm)
	14	388	364
	16	415	364
	18	443	364
DN32- End carriage	20	470	364
	22	498	364
	27	567	364
	31	622	364
	38	719	366
	45	763	534
	50	906	538
	55	970	538



- ①Buffer; ②Wheel (idle or drive); ③End carriage; ④Joint plate; ⑤Bogie; ⑥Wheel (idle); ⑦Wheel (drive);
⑧Integrated derailment support



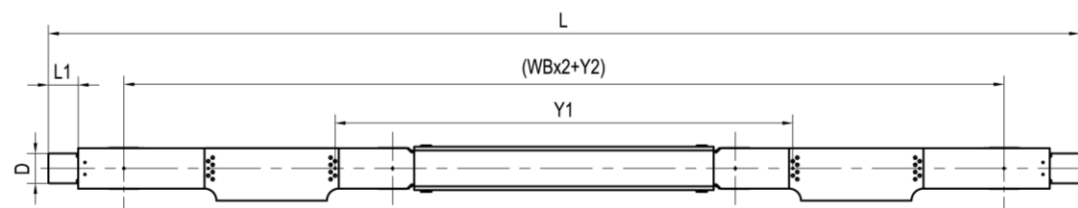
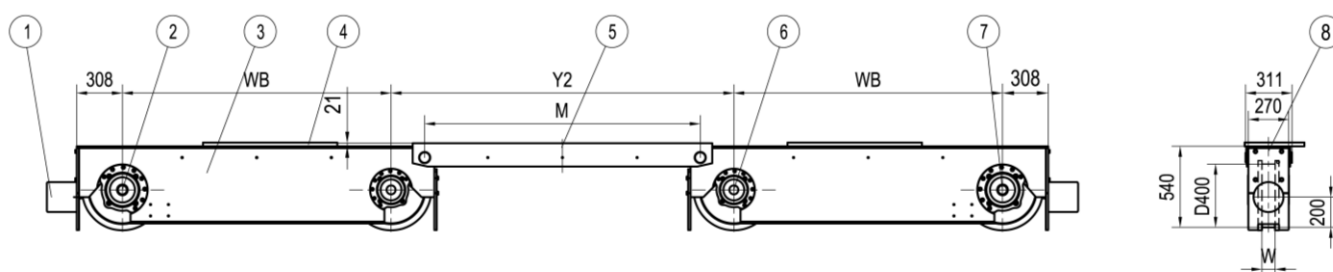
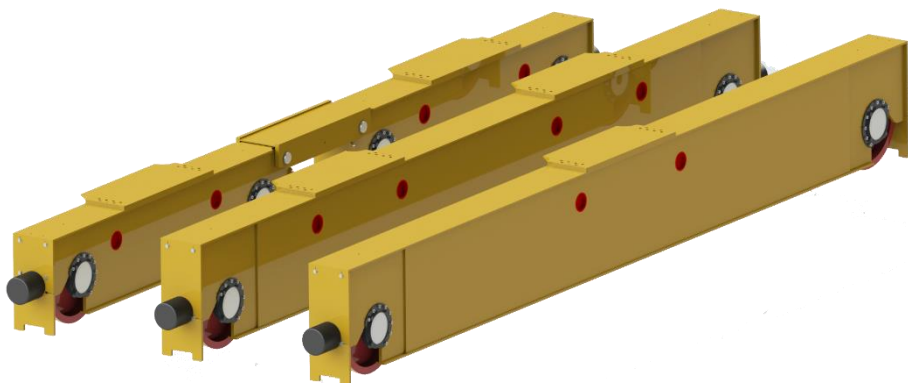
- ①Buffer; ②Wheel (idle); ③End carriage; ④Joint plate; ⑤Wheel (drive); ⑥Integrated derailment support

*W=75; 95;

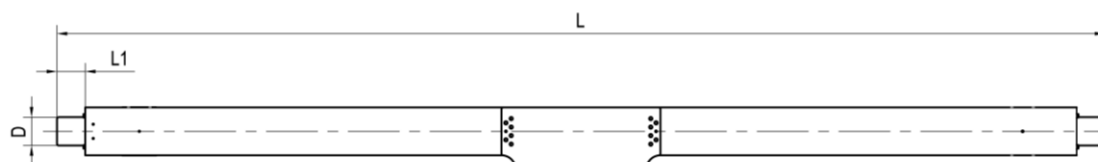
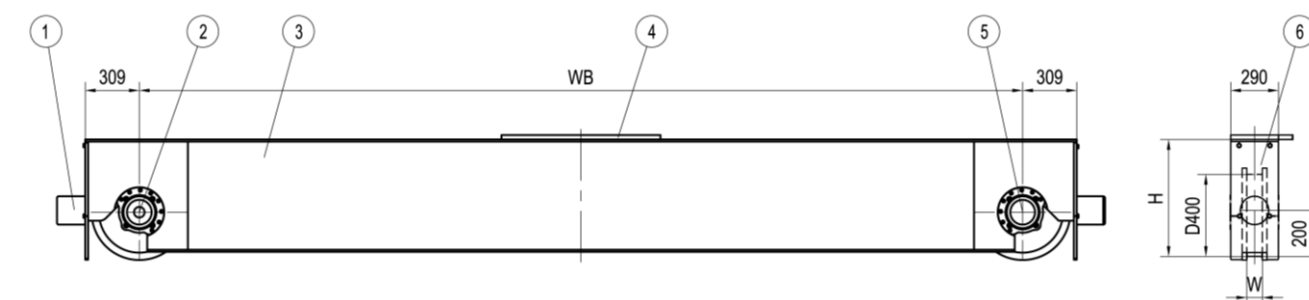
*Dimension L1, D see 5.1

5.7. DN40 End carriage

DN40B End carriage	WB (100mm)	Weight (kg)	H (mm)
	16	645	540
	18	686	540
DN40- End carriage	20	727	540
	22	685	540
	27	804	544
	31	863	544
	38	1043	548
	45	1200	664
	50	1379	668
	55	1471	668



- ①Buffer; ②Wheel (idle or drive); ③End carriage; ④Joint plate; ⑤Bogie; ⑥Wheel (idle); ⑦Wheel (drive);
⑧Integrated derailment support



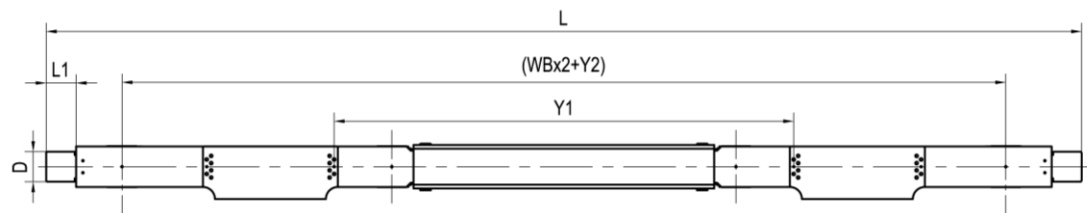
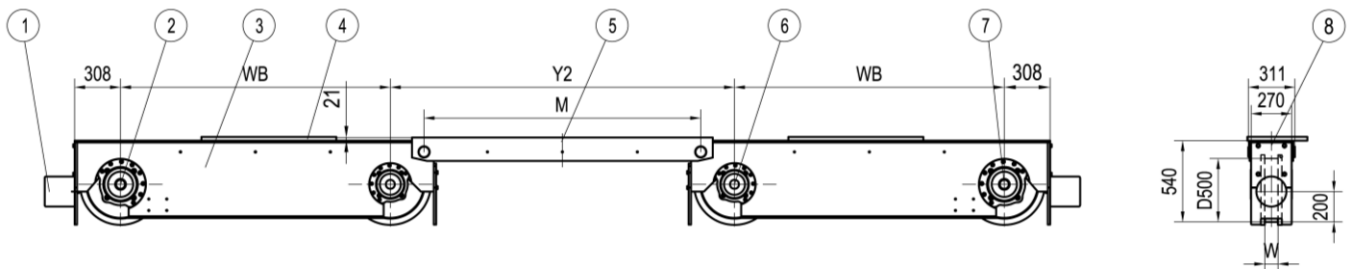
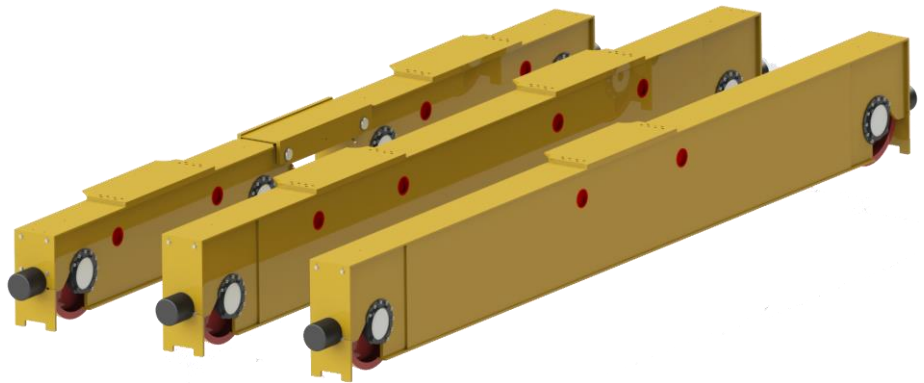
- ①Buffer; ②Wheel (drive); ③End carriage; ④Joint plate; ⑤Wheel (idle); ⑥Integrated derailment support

*W=75; 95;

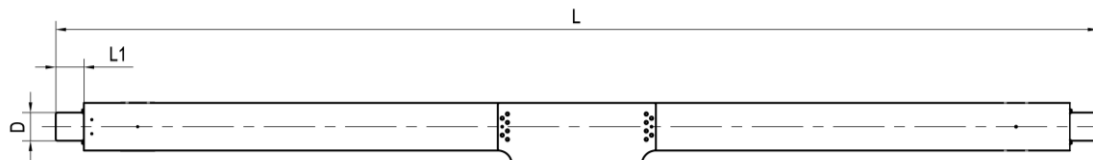
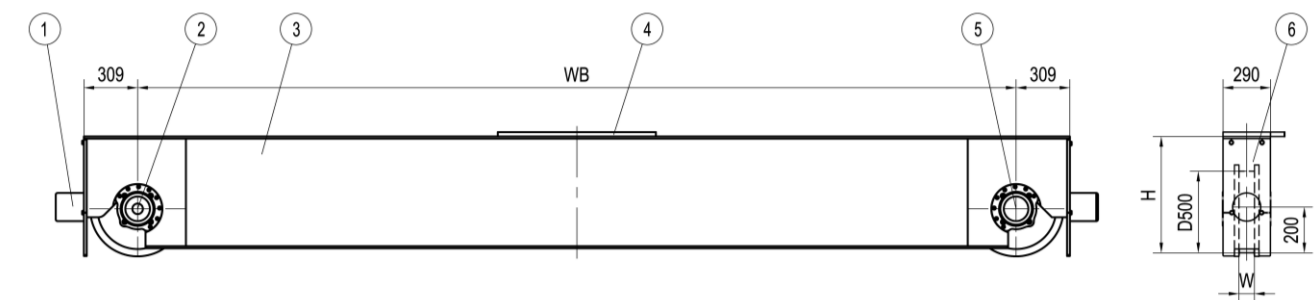
*Dimension L1, D see 5.1

5.8. DN50 End carriage

DN50B End carriage	WB (100mm)	Weight (kg)	H (mm)
	16	725	540
	18	766	540
DN50- End carriage	20	807	540
	22	765	540
	27	884	544
	31	943	544
	38	1123	548
	45	1280	664
	50	1459	668
	55	1551	668



- ①Buffer; ②Wheel (idle or drive); ③End carriage; ④Joint plate; ⑤Bogie; ⑥Wheel (idle); ⑦Wheel (drive);
⑧Integrated derailment support



- ①Buffer; ②Wheel (drive); ③End carriage; ④Joint plate; ⑤Wheel (idle); ⑥Integrated derailment support

*W=95;

*Dimension L1, D see 5.1

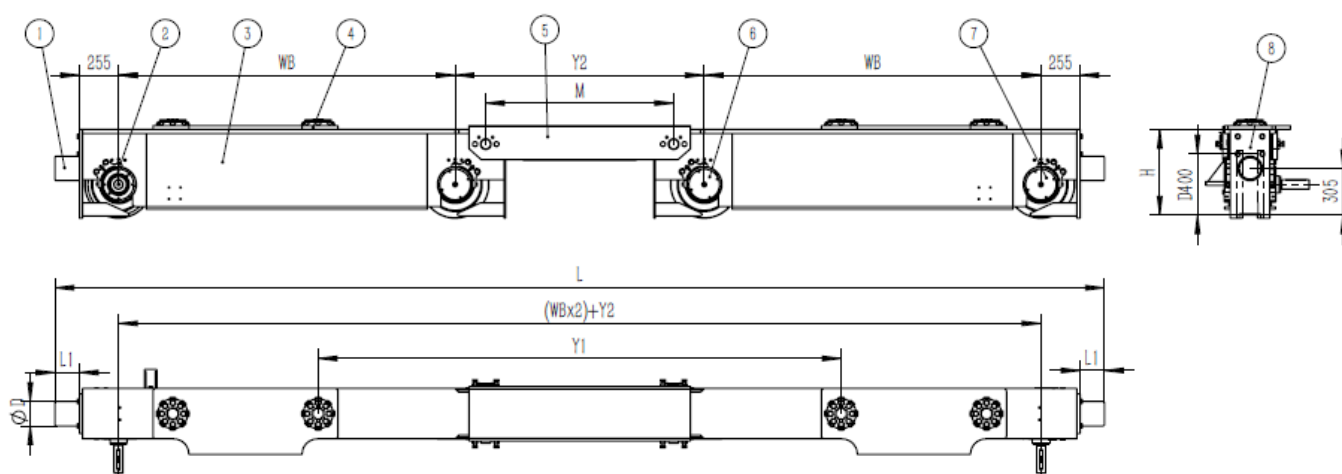
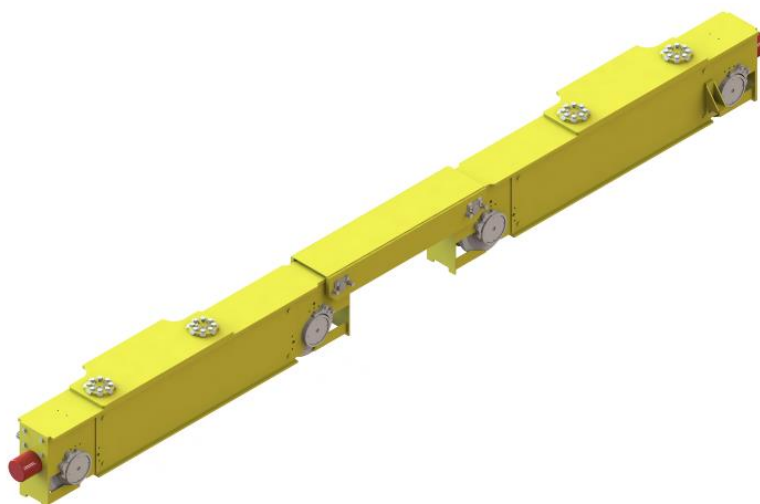
6. DH end carriage

6.1. DH end carriage code

DH40		B	WB	W	S	D7	Y1	C	Y2	M	N
Pos.	Code	Description	Parameter								
1	DH40	End carriage type and wheel diameter	Wheel diameter 40=400mm								
2	B	Description	-	Standard							
			B	Bogie(with DH40,DH50)							
			BB	Balancing beams							
3	WB	Wheel base(100mm)	DH40 13,16,18,20,22 DH50 13,16,18,20,22								
4	W	Groove width	DH40 75~140 DH50 75~140								
5	S	Number of driving wheels	S	One driving wheel							
			D	Two driving wheels							
6	D7	Joint type	Top joint	DH40B D7,D8,D9 DH50B E7,E8,E9							
			Top joint	DH40BB M3,M4,M5 DH50BB N3,N4,N5							
7	Y1	Bolt joint distance	4 digits								
8	C	Buffer type	Type	L1	D	Material	Type	L1	D	Material	
			A	53	63	Rubber	E	150	100	Polyurethane	
			B	68	80	Rubber	F	190	125	Polyurethane	
			C	85	100	Rubber	G	100	100	Polyurethane	
			D	105	125	Rubber	H	160	160	Polyurethane	
							I	200	200	Polyurethane	
9	Y2	Inner wheel distance	4 digits								
10	M	Bogie connection hole distance	4 digits								
11	N	Option	N	N= Normal (standard delivery)							
			E	E= Extensional (tailor made)							

6.2 DH40 end carriage

DH40B End carriage	WB (100mm)	Y2 min (mm)	H (mm)
	13	1100	525
	16	1100	525
	18	1100	559
	20	1100	559
	22	1100	559



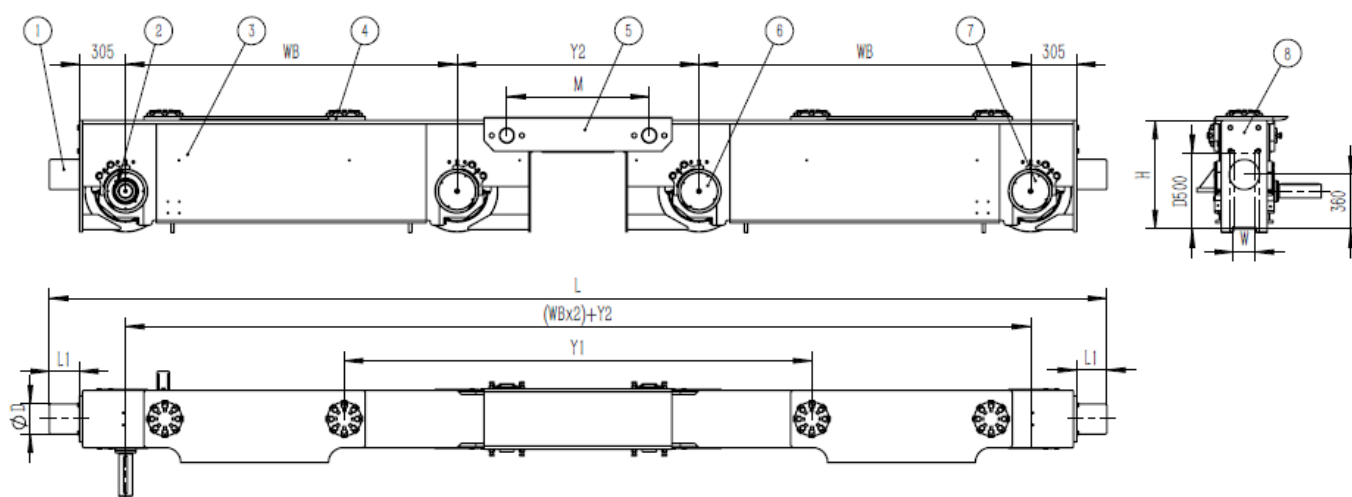
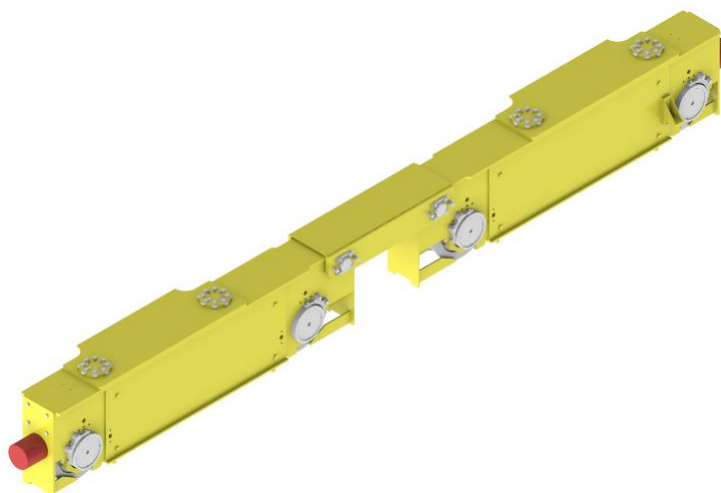
- ① Buffer; ② Wheel (idle or drive); ③ End carriage; ④ Joint plate; ⑤ bogie; ⑥ Wheel(idle); ⑦ Wheel (drive);
⑧ Integrated derailment support

*W=75~140

*Dimension L1, D see 5.1

6.3 DH50 end carriage

DH50B End carriage	WB (100mm)	Y2 min (mm)	H (mm)
	13	1505	639
	16	1505	639
	18	1505	719
	20	1505	719
	22	1505	719

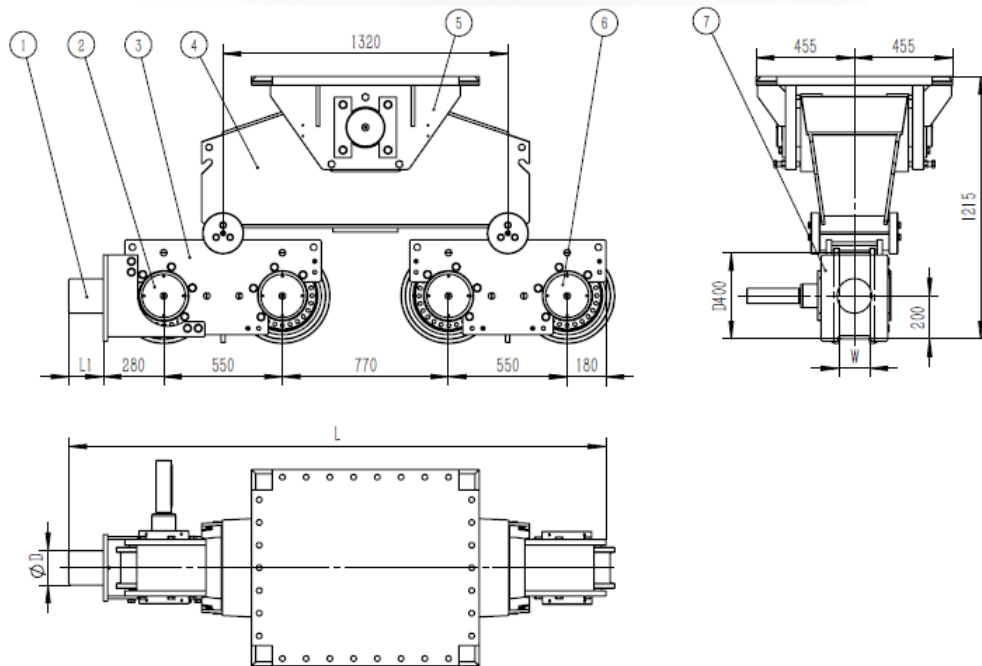
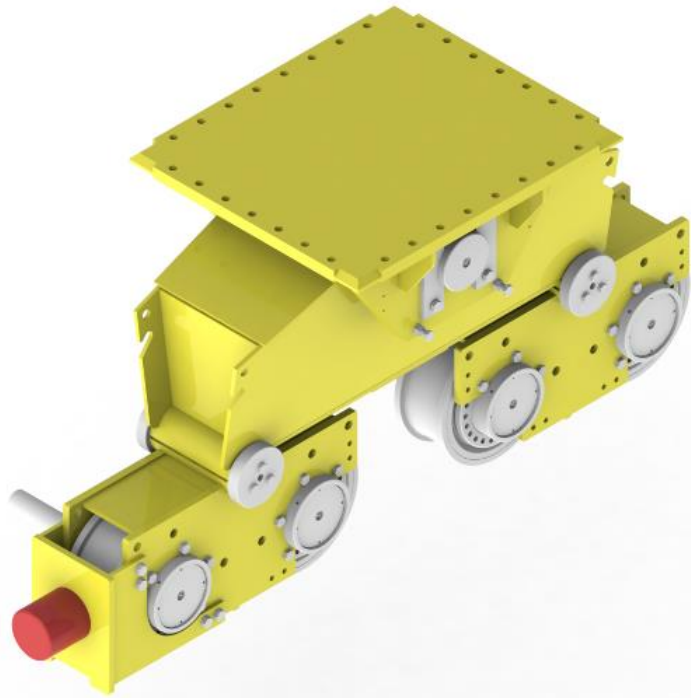


- ① Buffer; ② Wheel (idle or drive); ③ End carriage; ④ Joint plate; ⑤ bogie; ⑥ Wheel(idle); ⑦ Wheel (drive);
⑧ Integrated derailment support

*W=75~140

*Dimension L1, D see 5.1

6.4 DH40BB end carriage

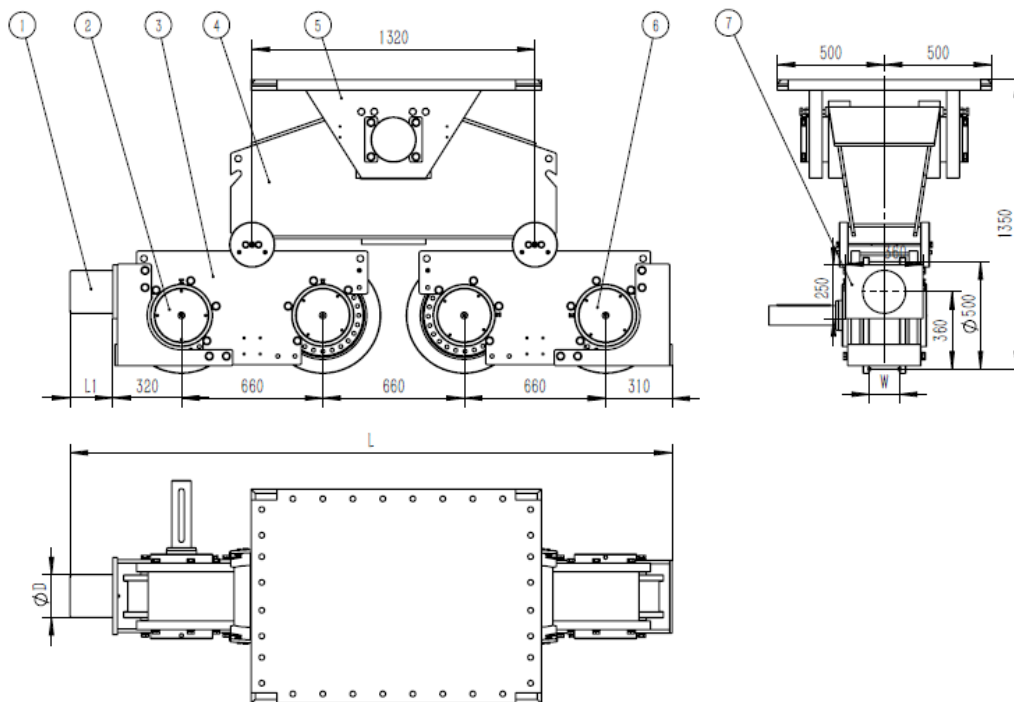
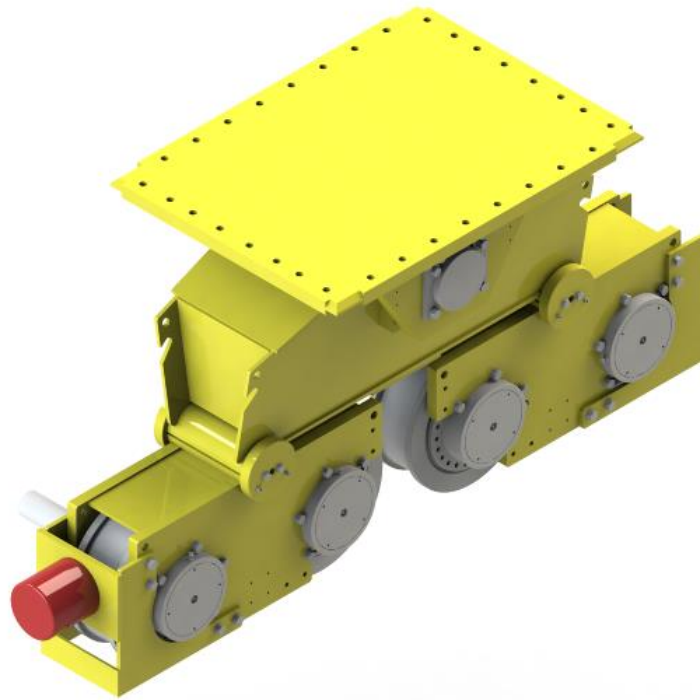


- ① Buffer; ② Wheel (idle or drive); ③ End carriage; ④ Walking beam ; ⑤ Connecting seat; ⑥ Wheel(idle);
⑦ Integrated derailment support

*W=75~140

*Dimension L1, D see 5.1

6.5 DH50BB end carriage



- ② Buffer; ② Wheel (idle or drive); ③ End carriage; ④ Walking beam ; ⑤ Connecting seat; ⑥ Wheel(idle);
⑦ Integrated derailment support

*W=75~140

*Dimension L1, D see 5.1

7. Underrunning end carriage

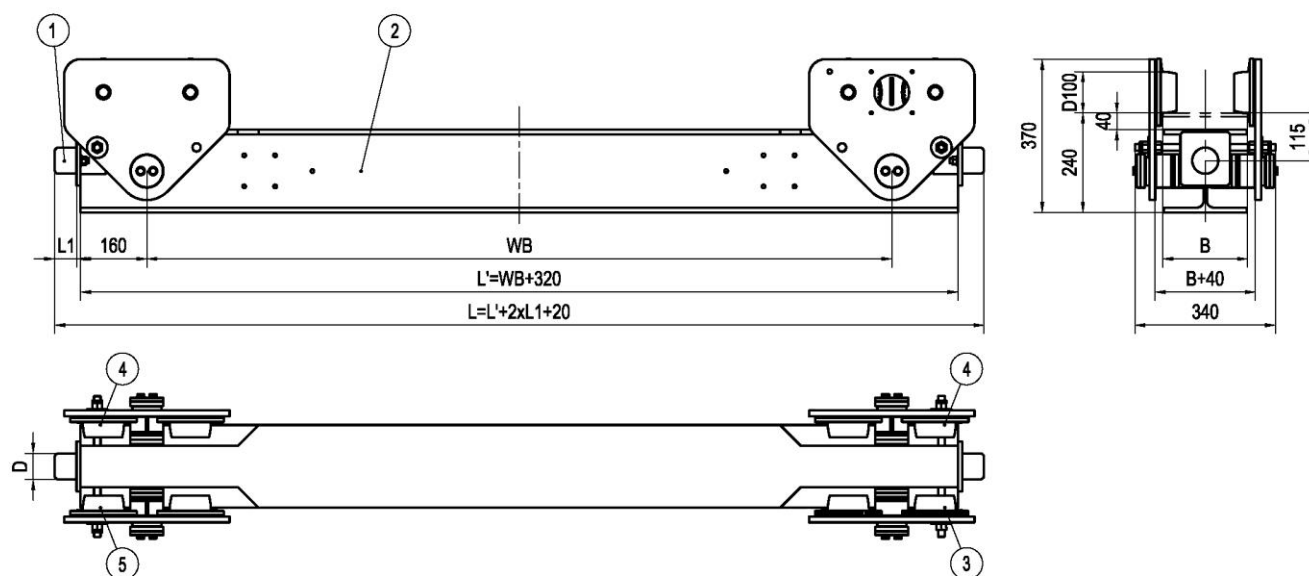
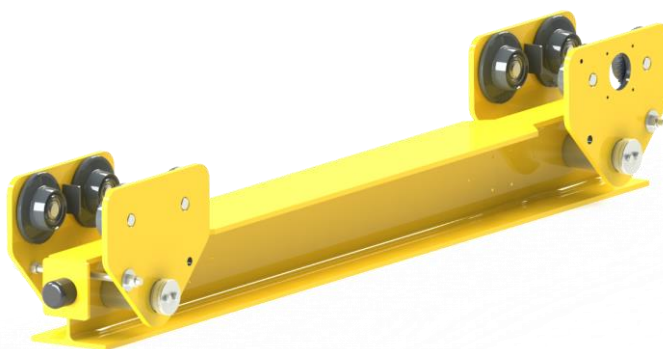
7.1. Underrunning end carriage code

DU10	-	WB	B	S	U4	C	L'	L	N	N
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Pos.	Code	Description		Parameter								
1	DU10	Underrunning end carriage type and wheel diameter	Wheel diameter 10=100mm									
2	-	Description	-	Standard								
3	WB	Wheel base(100mm)	DU10 12,14,18,22,25,28 DU13 12,14,18,22,25,28 DU16 18,22,25,28									
4	B	Track width(mm)	DU10 82~200 DU13 86~200 DU16 90~300									
5	S	Number of driving wheels	S	One driving wheel								
			D	Two driving wheels								
6	U4	Joint type	DU10,DU13 U4,U5,U6 DU16 XX									
7	C	Buffer type	Type	L1	D	Material	Type	L1	D	Material		
			A	53	63	Rubber	C	85	100	Rubber		
			B	68	80	Rubber	D	105	125	Rubber		
8	L'	Section steel length	4 digits									
9	L	Underrunning end carriage length	4 digits									
10	N	Option	N	N= Normal (same colour with main girder)								
			E	E= Extensional (tailor made)								
11	N	Option	N	N= Normal (standard delivery)								
			E	E= Extensional (tailor made)								

7.2 DU10 Underrunning end carriage

DU10- Underrunning end carriage	WB (100mm)	Weight (kg)
	12	167
	14	177
	18	197
	22	217
	25	232
	28	248

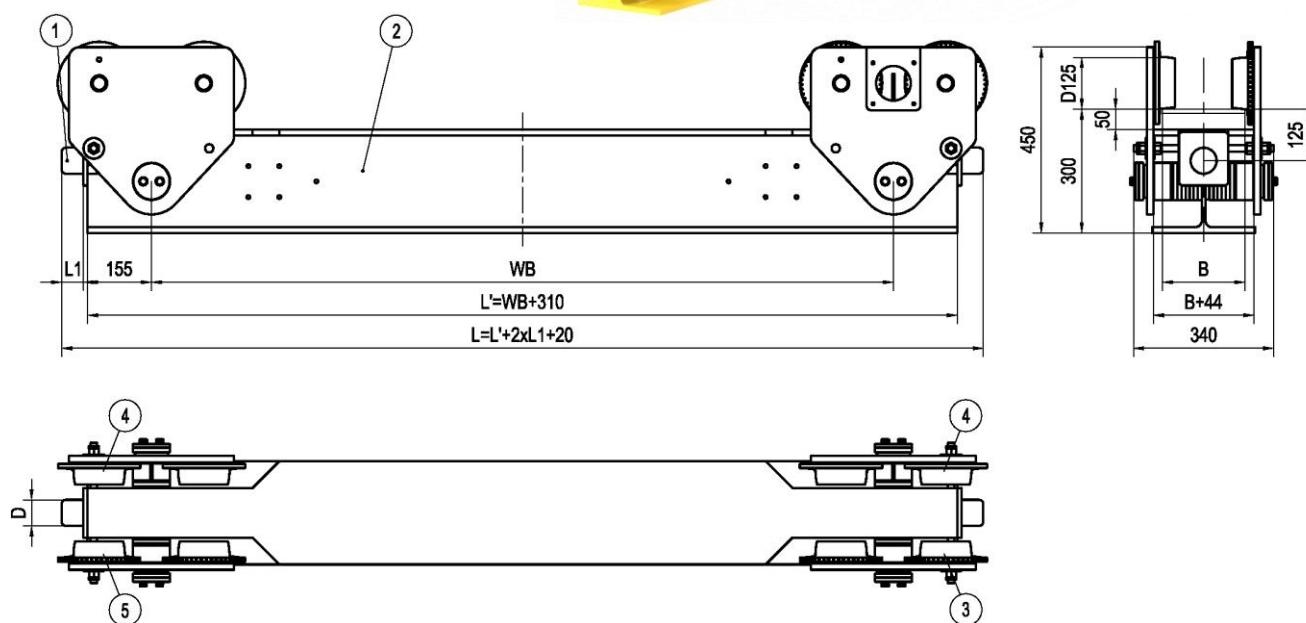
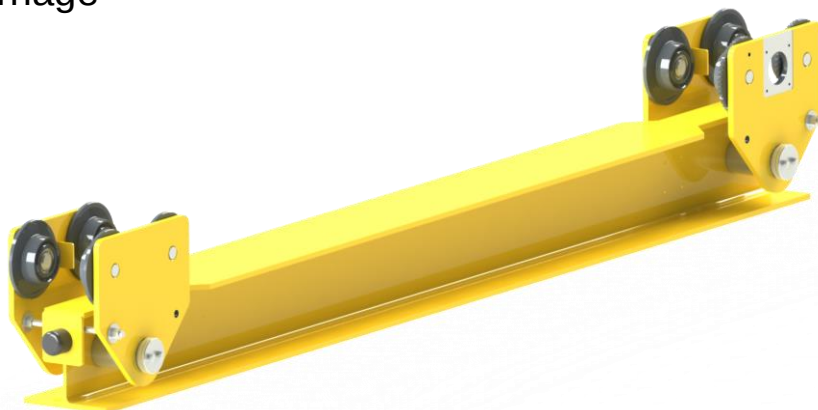


① Buffer; ② End carriage; ③ Wheel(drive); ④ Wheel (idle); ⑤ Wheel(idle or drive)

*Dimension $L1$, D , B see 6.1

7.3 DU13 Underrunning end carriage

DU13- Underrunning end carriage	WB (100mm)	Weight (kg)
	12	233
	14	247
	18	276
	22	305
	25	327
	28	348

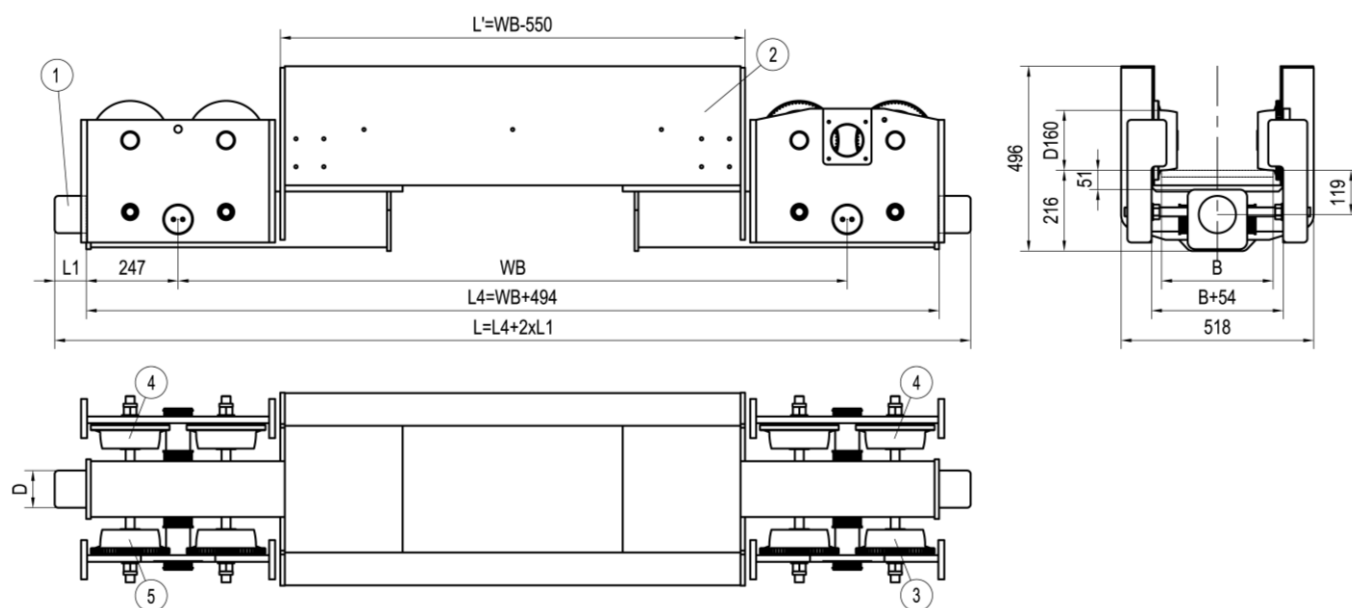


① Buffer; ② End carriage; ③ Wheel(drive); ④ Wheel (idle); ⑤ Wheel(idle or drive)

*Dimension L1, D, B see 6.1

7.4 DU16 Underrunning end carriage

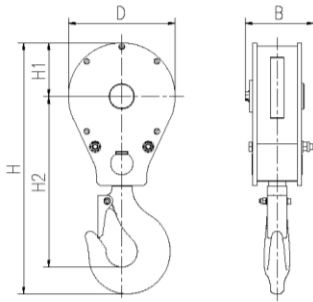
DU16- Underrunning end carriage	WB (100mm)	Weight (kg)
	18	441
	22	477
	25	506
	28	535



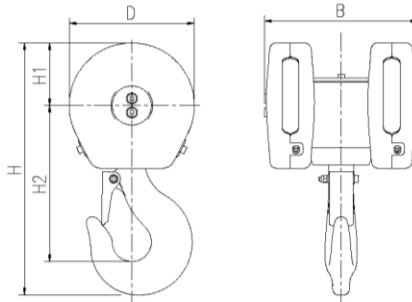
① Buffer; ② End carriage; ③ Wheel(drive); ④ Wheel (idle); ⑤ Wheel(idle or drive)

*Dimension $L1$, D , B see 6.1

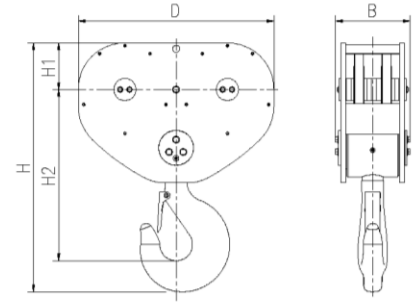
8. Hook block



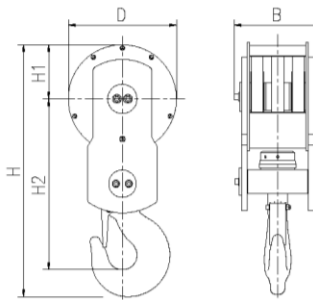
Type 1



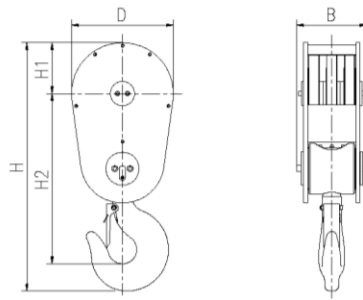
Type 2



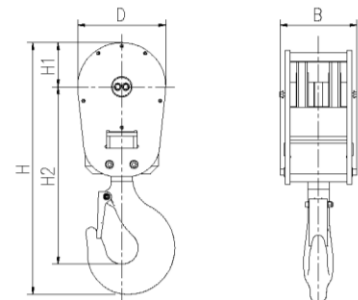
Type 3



Type 4



Type 5



Type 6

Hoist type	Rope	Hook forging	Hook type	Hook block dimensions (mm)					Weight(kg)
				H	H1	H2	D	B	
K21	02	RSN1.6T	1	449	96	306	191	123	12
	04	RSN1.6T	2	360	90	223	179	220	15
K31	02	RSN1.6T	1	468	107	303	214	123	16
	04	RSN2.5T	2	418	103	257	205	247	27
K41	02	RSN2.5T	1	604	145	400	290	107	23
	04	RSN5T	2	580	143	364	285	331	65
	06	RSN5V	4	689	148	467	296	238	72
	08	RSN5V	4	689	148	467	296	238	76
K42	02	RSN5V	6	616	108	434	216	188	45
	04	RSN5V	6	616	108	434	216	188	52
	06	RSN5V	3	583	110	399	510	232	85
K51	02	RSN5V	4	792	197	521	394	244	86
	04	RSN5V	4	792	197	521	394	244	102
	06	RSN10T	5	976	200	689	400	276	190
	08	RFN16T	5	1100	200	768	400	324	284
K52	02	RSN5V	2	580	143	364	285	331	65
	04	RSN5V	3	831	150	574	660	276	186
	06	RSN10T	3	831	150	574	660	276	198
K62	02	RSN5V	4	792	197	521	394	244	102
	04	RFN16T	3	1067	200	734	840	320	374
	06	RFN20T	3	1167	210	805	900	379	524
	08	RFN25T	3	1257	210	875	900	395	675