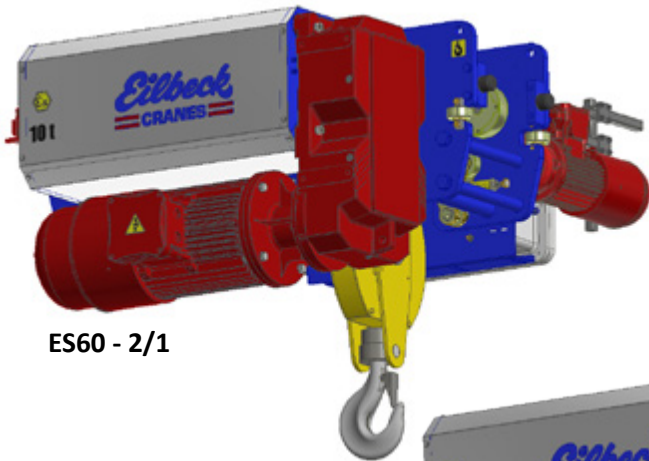
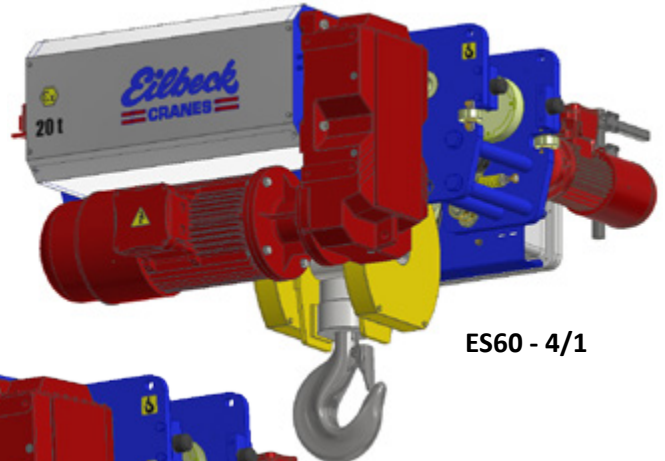


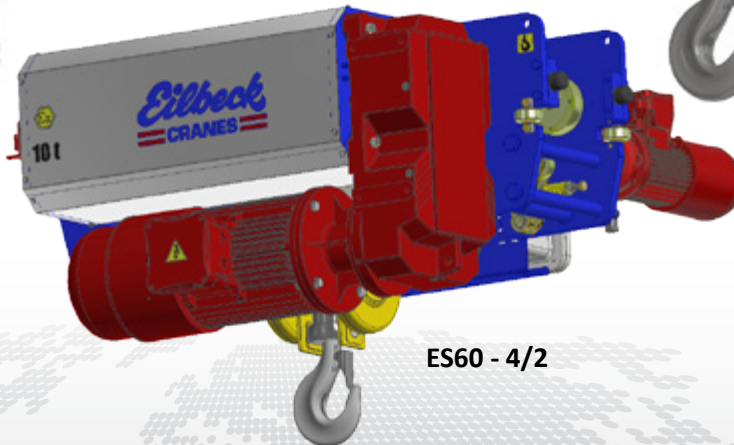
EXPLOSION PROTECTED CRANE SYSTEMS



ES60 - 2/1



ES60 - 4/1



ES60 - 4/2

Reeving	2/1	<input type="checkbox"/>	4/1	<input type="checkbox"/>	4/2	<input type="checkbox"/>
Model Number		Serial Number		
MRC or WLL		Year of Manufacture	2018		

EC  GLOBAL

TECHNICAL DATA - ES 60

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1.1. General Dimensions - Model ES60

1.1.1. Reeving 2.1

HOL [m]	LO [mm]	LW [mm]	HS [mm]	FW [mm]	Grooved Length [mm]	Max Mass [kg]	Rope Length [m]
12	1354	923	176	200-600	510	1372	31
20	1619	1188	313	200-600	775	1465	47
30	1954	1523	433	200-600	1110	1583	67
40	2284	1853	666	200-600	1440	1700	87
50	2619	2188	832	200-600	1775	1818	107
60	2954	2523	999	200-600	2110	1936	127

1.1.2. Reeving 4.1

HOL [m]	LO [mm]	LW [mm]	HS [mm]	FW [mm]	Grooved Length [mm]	Max Mass [kg]	Rope Length [m]
6	1354	923	100	200-600	510	1623	33
10	1619	1188	166	200-600	780	1726	49
15	1954	1523	250	200-600	1110	1855	69
20	2284	1853	333	200-600	1440	1982	89
25	2188	2188	416	200-600	1775	2112	109
30	2954	2523	499	200-600	2110	2241	129

1.1.3. Reeving 4.2

HOL [m]	LO [mm]	LW [mm]	HS [mm]	FW [mm]	Grooved Length [mm]	Max Mass [kg]	Rope Length [m]
6	1051	1482	792	200-600	250x2	1388	36
10	1271	1702	902	200-600	360x2	1464	52
15	1541	1972	1037	200-600	500x2	1559	72

1.2. Hoisting Data - Model ES60

1.2.1. Reeving 2.1

Load Capacity [t]	Speed (50Hz) [m/min]	Speed (60Hz) [m/min]	Rated Output [Kw]	Current [A]	ED [%]	RPM [rev/min]
2.5	2.7/16	3.2/19.2	1.70/10.00	11.1/20.2	40	485/2960
3.2	2.1/12.6	2.5/15.1	1.70/10.00	11.1/20.2	40	485/2960
3.2	2.7/16	3.2/19.2	1.70/10.00	11.1/20.2	40	485/2960
4	1.3/8	1.6/9.6	1.70/10.00	11.1/20.2	40	485/2960
4	1.7/10	2/12	1.70/10.00	11.1/20.2	40	485/2960
4	2.1/12.6	2.5/15.1	1.70/10.00	11.1/20.2	40	485/2960
4	2.7/16	3.2/19.2	2.60/16.00	16.9/32.1	40	476/2950
5	1.3/8	1.6/9.6	1.70/10.00	11.1/20.2	40	485/2960
5	1.7/10	2/12	1.70/10.00	11.1/20.2	40	485/2960
5	2.1/12.6	2.5/15.1	2.60/16.00	16.9/32.1	40	476/2950
5	2.7/16	3.2/19.2	2.60/16.00	16.9/32.1	40	476/2950
6.3	1.3/8	1.6/9.6	1.70/10.00	11.1/20.2	40	485/2960
6.3	1.7/10	2/12	2.60/16.00	16.9/32.1	40	476/2950
6.3	2.1/12.6	2.5/15.1	2.60/16.00	16.9/32.1	40	476/2950
8	1.3/8	1.6/9.6	2.60/16.00	16.9/32.1	40	476/2950
8	1.7/10	2/12	2.60/16.00	16.9/32.1	40	476/2950
10	1.5/9	1.8/10.8	2.60/16.00	16.9/32.1	40	476/2950

1.2.2. Reeving 4.1

Load Capacity [t]	Speed (50Hz) [m/min]	Speed (60Hz) [m/min]	Rated Output [Kw]	Current [A]	ED [%]	RPM [rev/min]
5	1.3 / 8	1.6 / 9.6	1.70 / 10.00	11.1 / 20.2	40	485 / 2960
6.3	1.1 / 6.3	1.3 / 7.6	1.70 / 10.00	11.1 / 20.2	40	485 / 2960
6.3	1.3 / 8	1.6 / 9.6	1.70 / 10.00	11.1 / 20.2	40	485 / 2960
8	0.7 / 4	0.8 / 4.8	1.70 / 10.00	11.1 / 20.2	40	485 / 2960
8	0.8 / 5	1 / 6	1.70 / 10.00	11.1 / 20.2	40	485 / 2960
8	1.1 / 6.3	1.3 / 7.6	1.70 / 10.00	11.1 / 20.2	40	485 / 2960
8	1.3 / 8	1.6 / 9.6	2.60 / 16.00	16.9 / 32.1	40	476 / 2950
10	0.7 / 4	0.8 / 4.8	1.70 / 10.00	11.1 / 20.2	40	485 / 2960
10	0.8 / 5	1 / 6	1.70 / 10.00	11.1 / 20.2	40	485 / 2960
10	1.1 / 6.3	1.3 / 7.6	2.60 / 16.00	16.9 / 32.1	40	476 / 2950
10	1.3 / 8	1.6 / 9.6	2.60 / 16.00	16.9 / 32.1	40	476 / 2950
12.5	0.7 / 4	0.8 / 4.8	1.70 / 10.00	11.1 / 20.2	40	485 / 2960
12.5	0.8 / 5	1 / 6	2.60 / 16.00	16.9 / 32.1	40	476 / 2950
12.5	1.1 / 6.3	1.3 / 7.6	2.60 / 16.00	16.9 / 32.1	40	476 / 2950
16	0.7 / 4	0.8 / 4.8	2.60 / 16.00	16.9 / 32.1	40	476 / 2950
16	0.8 / 5	1 / 6	2.60 / 16.00	16.9 / 32.1	40	476 / 2950
20	0.8 / 4.5	0.9 / 5.4	2.60 / 16.00	16.9 / 32.1	40	476 / 2950

1.2.3. Reeving 4.2

Load Capacity [t]	Speed (50Hz) [m/min]	Speed (60Hz) [m/min]	Rated Output [Kw]	Current [A]	ED [%]	RPM [rev/min]
2.5	2.7 / 16	3.2 / 19.2	1.70 / 10.00	11.1 / 20.2	40	485 / 2960
3.2	2.1 / 12.6	2.5 / 15.1	1.70 / 10.00	11.1 / 20.2	40	485 / 2960
3.2	2.7 / 16	3.2 / 19.2	1.70 / 10.00	11.1 / 20.2	40	485 / 2960
4	1.3 / 8	1.6 / 9.6	1.70 / 10.00	11.1 / 20.2	40	485 / 2960
4	1.7 / 10	2 / 12	1.70 / 10.00	11.1 / 20.2	40	485 / 2960
4	2.1 / 12.6	2.5 / 15.1	1.70 / 10.00	11.1 / 20.2	40	485 / 2960
4	2.7 / 16	3.2 / 19.2	2.60 / 16.00	16.9 / 32.1	40	476 / 2950
5	1.3 / 8	1.6 / 9.6	1.70 / 10.00	11.1 / 20.2	40	485 / 2960
5	1.7 / 10	2 / 12	1.70 / 10.00	11.1 / 20.2	40	485 / 2960
5	2.1 / 12.6	2.5 / 15.1	2.60 / 16.00	16.9 / 32.1	40	476 / 2950
5	2.7 / 16	3.2 / 19.2	2.60 / 16.00	16.9 / 32.1	40	476 / 2950
6.3	1.3 / 8	1.6 / 9.6	1.70 / 10.00	11.1 / 20.2	40	485 / 2960
6.3	1.7 / 10	2 / 12	2.60 / 16.00	16.9 / 32.1	40	476 / 2950
6.3	2.1 / 12.6	2.5 / 15.1	2.60 / 16.00	16.9 / 32.1	40	476 / 2950
8	1.3 / 8	1.6 / 9.6	2.60 / 16.00	16.9 / 32.1	40	476 / 2950
8	1.7 / 10	2 / 12	2.60 / 16.00	16.9 / 32.1	40	476 / 2950
10	1.5 / 9	1.8 / 10.8	2.60 / 16.00	16.9 / 32.1	40	476 / 2950

1.3. Cross Travel Data - Model ES60

1.3.1. Reeving 2.1

Load Capacity [t]	Speed (50Hz) [m/min]	Speed (60Hz) [m/min]	Rated Output [Kw]	Current [A]	ED [%]	RPM [rev/min]
2.5/3.2/4/5	6	7.2	0.37	1.1	40	1380
6.3/8/10	6	7.2	0.37	1.1	40	1380
2.5/3.2/4/5	12	14.4	0.37	1.1	40	1380
6.3/8/10	12	14.4	0.55	1.6	40	1380
2.5/3.2/4/5	2.5/10	3/12	0.18/0.75	1.5/2.0	40	670/2895
6.3/8/10	2.5/10	3/12	0.18/0.75	1.5/2.5	40	670/2895
2.5/3.2/4/5	5/20	6/24	0.18/0.75	1.5/2.5	40	690/2860
6.3/8/10	5/20	6/24	0.33/1.30	2.58/3.60	40	690/2860

1.3.2. Reeving 4.1

Load Capacity [t]	Speed (50Hz) [m/min]	Speed (60Hz) [m/min]	Rated Output [Kw]	Current [A]	ED [%]	RPM [rev/min]
5 / 6.3 / 8 / 10	6	7.2	0.37	1.1	40	1380
12.5 / 16 / 20	6	7.2	0.37	1.1	40	1380
5 / 6.3 / 8 / 10	12	14.4	0.37	1.1	40	1380
12.5 / 16 / 20	12	14.4	0.55	1.6	40	1380
5 / 6.3 / 8 / 10	2.5 / 10	3 / 12	0.18 / 0.75	1.5 / 2.5	40	690 / 2860
12.5 / 16 / 20	2.5 / 10	3 / 12	0.18 / 0.75	1.5 / 2.5	40	690 / 2860
5 / 6.3 / 8 / 10	5 / 20	6 / 24	0.18 / 0.75	1.5 / 2.5	40	690 / 2860
12.5 / 16 / 20	5 / 20	6 / 24	0.33 / 1.30	2.58 / 3.60	40	735 / 2960

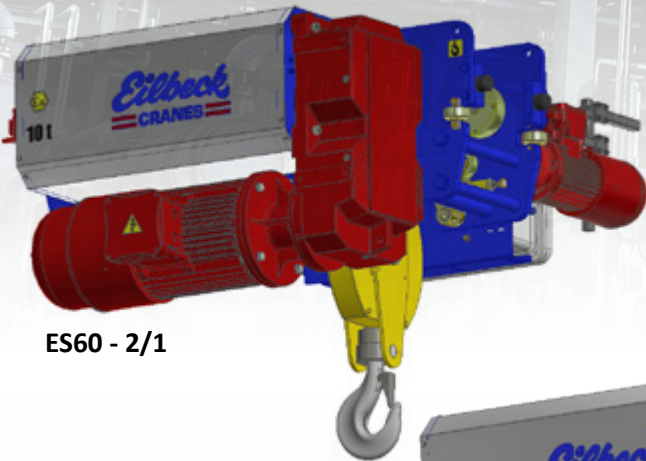
1.3.3. Reeving 4.2

Load Capacity [t]	Speed (50Hz) [m/min]	Speed (60Hz) [m/min]	Rated Output [Kw]	Current [A]	ED [%]	RPM [rev/min]
2.5/3.2/4/5	6	7.2	0.37	1.1	40	1380
6.3/8/10	6	7.2	0.37	1.1	40	1380
2.5/3.2/4/5	12	14.4	0.37	1.1	40	1380
6.3/8/10	12	14.4	0.55	1.6	40	1380
2.5/3.2/4/5	2.5/10	3/12	0.18/0.75	1.5/2.0	40	670/2895
6.3/8/10	2.5/10	3/12	0.18/0.75	1.5/2.5	40	670/2895
2.5/3.2/4/5	5/20	6/24	0.18/0.75	1.5/2.5	40	690/2860
6.3/8/10	5/20	6/24	0.33/1.30	2.58/3.60	40	690/2860

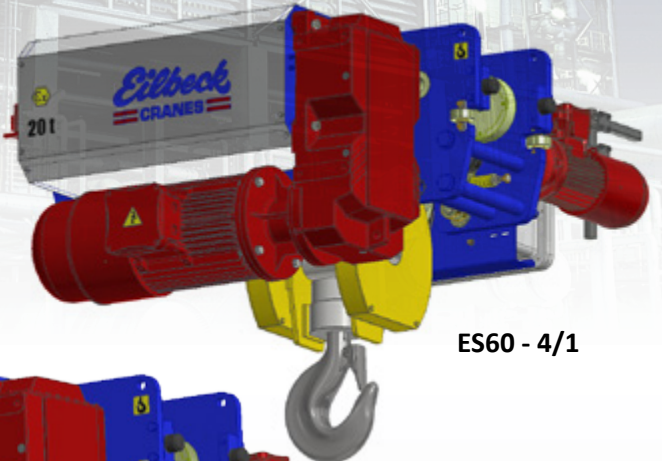
1.4. Torque Settings

ES Series Hoists Torque Table						
Minimum Tensile Strength MPa	M6 – M16: 800 M20-M30: 830		1040		12.9 Socket Head Cap Screw	
Nominal Size and Thread Pitch	Bolt Torque Specs in Newton Meters - Nm					
	Dry	Lubed	Dry	Lubed	Dry	Lubed
M5 x 0.80	6.1	4.6	8.8	6.7	10.3	7.7
M6 x 1.00	10.4	7.8	15	11.2	17.6	13.1
M7 X 1.00	17.6	131	25.1	18.9	29.4	22
M8 X 1.25	25.4	19.1	37.6	27.3	42.6	32.1
M10 X 1.50	50	38	72	54	84	64
M12 X 1.75	88	66	126	94	146	110
M14 X 2.00	141	106	201	150	235	176
M16 X 2.00	218	164	312	233	365	274
M18 X 2.50	301	226	431	323	504	378
M20 X 2.50	426	319	603	457	712	534
M22 X 2.50	580	435	831	624	971	728
M24 X 3.00	736	552	1052	789	1231	923
M27 X 3.00	1079	809	1544	1158	1805	1353
M30 X 3.50	1463	1097	2092	1570	2446	1834
M33 X 3.50	1990	1493	2849	2137	3328	2497
M36 X 4.00	2557	1918	3659	2744	4276	3208

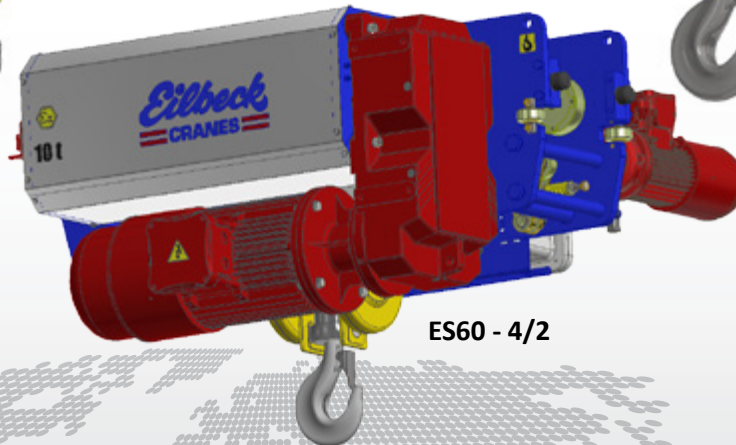
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ES60 - 2/1



ES60 - 4/1



ES60 - 4/2

ATEX 



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