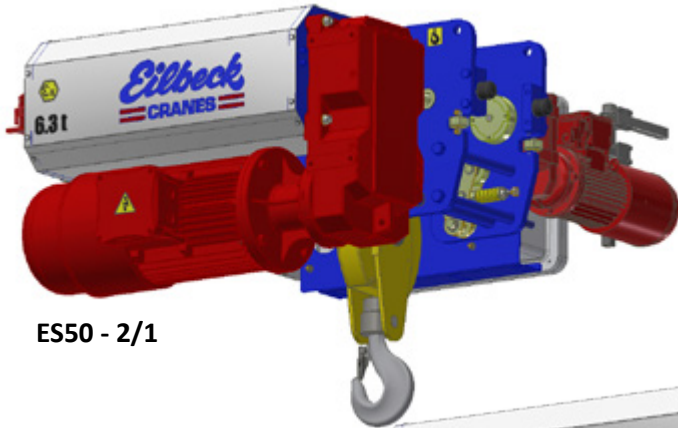


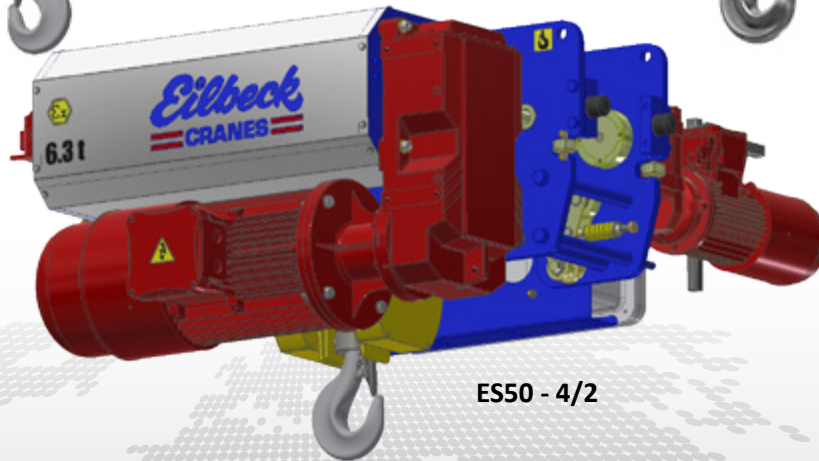
EXPLOSION PROTECTED CRANE SYSTEMS



ES50 - 2/1



ES50 - 4/1



ES50 - 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 50

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1.1. General Dimensions - Model ES50

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 | 1226 | 870 | 197 | 200-600 | 480 | 1026 | 29 |
| 20 | 1486 | 1130 | 328 | 200-600 | 740 | 1088 | 45 |
| 30 | 1816 | 1460 | 491 | 200-600 | 1070 | 1167 | 65 |
| 40 | 2146 | 1790 | 655 | 200-600 | 1400 | 1247 | 85 |
| 50 | 2471 | 2115 | 819 | 200-600 | 1725 | 1325 | 105 |
| 60 | 2796 | 2440 | 983 | 200-600 | 2050 | 1402 | 125 |

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 | 1253 | 865 | 98 | 200-600 | 480 | 1128 | 30 |
| 10 | 1513 | 1125 | 164 | 200-600 | 740 | 1212 | 46 |
| 15 | 1843 | 1455 | 246 | 200-600 | 1070 | 1320 | 66 |
| 20 | 2146 | 1790 | 328 | 200-600 | 1400 | 1407 | 86 |
| 25 | 2471 | 2115 | 410 | 200-600 | 1725 | 1493 | 106 |
| 30 | 2796 | 2440 | 491 | 200-600 | 2050 | 1578 | 126 |

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 | 1296 | 940 | 691 | 200-600 | 220x2 | 1062 | 33 |
| 10 | 1496 | 1140 | 791 | 200-600 | 320x2 | 1109 | 49 |
| 15 | 1736 | 1380 | 911 | 200-600 | 440x2 | 1166 | 69 |
| 20 | 1986 | 1630 | 1036 | 200-600 | 560x2 | 1225 | 89 |
| 25 | 2236 | 1880 | 1161 | 200-600 | 680x2 | 1282 | 109 |
| 30 | 2476 | 2120 | 1281 | 200-600 | 800x2 | 1341 | 129 |

1.2. Hoisting Data - Model ES50

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] |
|-------------------|----------------------|----------------------|-------------------|-------------|--------|---------------|
| 1.6 | 2.7 / 16 | 3.2 / 19.2 | 1.1 / 6.5 | 6.70/13.2 | 40 | 430 / 2960 |
| 2 | 1.7 / 10 | 2 / 12 | 0.65 / 4 | 5.10 / 4.7 | 40 | 480 / 2970 |
| 2 | 2.1 / 12.5 | 2.5 / 15 | 1.1 / 6.5 | 6.70 / 13.2 | 40 | 430 / 2960 |
| 2 | 2.7 / 16 | 3.2 / 19.2 | 1.1 / 6.5 | 6.70 / 13.2 | 40 | 430 / 2960 |
| 2.5 | 1.3 / 8 | 1.6 / 9.6 | 0.65 / 4 | 5.10 / 4.7 | 40 | 480 / 2970 |
| 2.5 | 1.7 / 10 | 2 / 12 | 1.1 / 6.5 | 6.70 / 13.2 | 40 | 430 / 2960 |
| 2.5 | 2.1 / 12.5 | 2.5 / 15 | 1.1 / 6.5 | 6.70 / 13.2 | 40 | 430 / 2960 |
| 2.5 | 2.7 / 16 | 3.2 / 19.2 | 1.7 / 10 | 11.1 / 20.2 | 40 | 485 / 2960 |
| 3.2 | 1.3 / 8 | 1.6 / 9.6 | 1.1 / 6.5 | 6.70 / 13.2 | 40 | 430 / 2960 |
| 3.2 | 1.7 / 10 | 2 / 12 | 1.1 / 6.5 | 6.70 / 13.2 | 40 | 430 / 2960 |
| 3.2 | 2.1 / 12.5 | 2.5 / 15 | 1.7 / 10 | 11.1 / 20.2 | 40 | 485 / 2960 |
| 3.2 | 2.7 / 16 | 3.2 / 19.2 | 1.7 / 10 | 11.1 / 20.2 | 40 | 485 / 2960 |
| 4 | 1.3 / 8 | 1.6 / 9.6 | 1.1 / 6.5 | 6.70 / 13.2 | 40 | 430 / 2960 |
| 4 | 1.7 / 10 | 2 / 12 | 1.7 / 10 | 11.1 / 20.2 | 40 | 485 / 2960 |
| 4 | 2.1 / 12.5 | 2.5 / 15 | 1.7 / 10 | 11.1 / 20.2 | 40 | 485 / 2960 |
| 4 | 2.7 / 16 | 3.2 / 19.2 | 2.6 / 16 | 16.9 / 32.1 | 40 | 476 / 2950 |
| 5 | 1.3 / 8 | 1.6 / 9.6 | 1.7 / 10 | 11.1 / 20.2 | 40 | 485 / 2960 |
| 5 | 1.7 / 10 | 2 / 12 | 1.7 / 10 | 11.1 / 20.2 | 40 | 485 / 2960 |
| 5 | 2.1 / 12.5 | 2.5 / 15 | 2.6 / 16 | 16.9 / 32.1 | 40 | 476 / 2950 |
| 6.3 | 1.3 / 8 | 1.6 / 9.6 | 1.7 / 10 | 11.1 / 20.2 | 40 | 485 / 2960 |
| 6.3 | 1.7 / 10 | 2 / 12 | 2.6 / 16 | 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] |
|-------------------|----------------------|----------------------|-------------------|-------------|--------|---------------|
| 3.2 | 1.3 / 8 | 1.6 / 9.6 | 1.1 / 6.5 | 6.70 / 13.2 | 40 | 430 / 2960 |
| 4 | 0.8 / 5 | 1 / 6 | 0.65 / 4 | 5.10 / 4.7 | 40 | 480 / 2970 |
| 4 | 1.1 / 6.3 | 1.3 / 7.6 | 1.1 / 6.5 | 6.70 / 13.2 | 40 | 430 / 2960 |
| 4 | 1.3 / 8 | 1.6 / 9.6 | 1.1 / 6.5 | 6.70 / 13.2 | 40 | 430 / 2960 |
| 5 | 0.7 / 4 | 0.8 / 4.8 | 0.65 / 4 | 5.10 / 4.7 | 40 | 480 / 2970 |
| 5 | 0.8 / 5 | 1 / 6 | 1.1 / 6.5 | 6.70 / 13.2 | 40 | 430 / 2960 |
| 5 | 1.1 / 6.3 | 1.3 / 7.6 | 1.1 / 6.5 | 6.70 / 13.2 | 40 | 430 / 2960 |
| 5 | 1.3 / 8 | 1.6 / 9.6 | 1.7 / 10 | 11.1 / 20.2 | 40 | 485 / 2960 |
| 6.3 | 0.7 / 4 | 0.8 / 4.8 | 1.1 / 6.5 | 6.70 / 13.2 | 40 | 430 / 2960 |
| 6.3 | 0.8 / 5 | 1 / 6 | 1.1 / 6.5 | 6.70 / 13.2 | 40 | 430 / 2960 |
| 6.3 | 1.1 / 6.3 | 1.3 / 7.6 | 1.7 / 10 | 11.1 / 20.2 | 40 | 485 / 2960 |
| 6.3 | 1.3 / 8 | 1.6 / 9.6 | 1.7 / 10 | 11.1 / 20.2 | 40 | 485 / 2960 |
| 8 | 0.7 / 4 | 0.8 / 4.8 | 1.1 / 6.5 | 6.70 / 13.2 | 40 | 430 / 2960 |
| 8 | 0.8 / 5 | 1 / 6 | 1.7 / 10 | 11.1 / 20.2 | 40 | 485 / 2960 |
| 8 | 1.1 / 6.3 | 1.3 / 7.6 | 1.7 / 10 | 11.1 / 20.2 | 40 | 485 / 2960 |
| 8 | 1.3 / 8 | 1.6 / 9.6 | 2.6 / 16 | 16.9 / 32.1 | 40 | 476 / 2950 |
| 10 | 0.7 / 4 | 0.8 / 4.8 | 1.7 / 10 | 11.1 / 20.2 | 40 | 485 / 2960 |
| 10 | 0.8 / 5 | 1 / 6 | 1.7 / 10 | 11.1 / 20.2 | 40 | 485 / 2960 |
| 10 | 1.1 / 6.3 | 1.3 / 7.6 | 2.6 / 16 | 16.9 / 32.1 | 40 | 476 / 2950 |
| 12.5 | 0.7 / 4 | 0.8 / 4.8 | 1.7 / 10 | 11.1 / 20.2 | 40 | 485 / 2960 |
| 12.5 | 0.8 / 5 | 1 / 6 | 2.6 / 16 | 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] |
|-------------------|----------------------|----------------------|-------------------|-------------|--------|---------------|
| 1.6 | 2.7 / 16 | 3.2 / 19.2 | 1.1 / 6.5 | 6.70 / 13.2 | 40 | 430 / 2960 |
| 2 | 1.7 / 10 | 2 / 12 | 0.65 / 4 | 5.10 / 4.7 | 40 | 480 / 2970 |
| 2 | 2.1 / 12.5 | 2.5 / 15 | 1.1 / 6.5 | 6.70 / 13.2 | 40 | 430 / 2960 |
| 2 | 2.7 / 16 | 3.2 / 19.2 | 1.1 / 6.5 | 6.70 / 13.2 | 40 | 430 / 2960 |
| 2.5 | 1.3 / 8 | 1.6 / 9.6 | 0.65 / 4 | 5.10 / 4.7 | 40 | 480 / 2970 |
| 2.5 | 1.7 / 10 | 2 / 12 | 1.1 / 6.5 | 6.70 / 13.2 | 40 | 430 / 2960 |
| 2.5 | 2.1 / 12.5 | 2.5 / 15 | 1.1 / 6.5 | 6.70 / 13.2 | 40 | 430 / 2960 |
| 2.5 | 2.7 / 16 | 3.2 / 19.2 | 1.7 / 10 | 11.1 / 20.2 | 40 | 485 / 2960 |
| 3.2 | 1.3 / 8 | 1.6 / 9.6 | 1.1 / 6.5 | 6.70 / 13.2 | 40 | 430 / 2960 |
| 3.2 | 1.7 / 10 | 2 / 12 | 1.1 / 6.5 | 6.70 / 13.2 | 40 | 430 / 2960 |
| 3.2 | 2.1 / 12.5 | 2.5 / 15 | 1.7 / 10 | 11.1 / 20.2 | 40 | 485 / 2960 |
| 3.2 | 2.7 / 16 | 3.2 / 19.2 | 1.7 / 10 | 11.1 / 20.2 | 40 | 485 / 2960 |
| 4 | 1.3 / 8 | 1.6 / 9.6 | 1.1 / 6.5 | 6.70 / 13.2 | 40 | 430 / 2960 |
| 4 | 1.7 / 10 | 2 / 12 | 1.7 / 10 | 11.1 / 20.2 | 40 | 485 / 2960 |
| 4 | 2.1 / 12.5 | 2.5 / 15 | 1.7 / 10 | 11.1 / 20.2 | 40 | 485 / 2960 |
| 4 | 2.7 / 16 | 3.2 / 19.2 | 2.6 / 16 | 16.9 / 32.1 | 40 | 476 / 2950 |
| 5 | 1.3 / 8 | 1.6 / 9.6 | 1.7 / 10 | 11.1 / 20.2 | 40 | 485 / 2960 |
| 5 | 1.7 / 10 | 2 / 12 | 1.7 / 10 | 11.1 / 20.2 | 40 | 485 / 2960 |
| 5 | 2.1 / 12.5 | 2.5 / 15 | 2.6 / 16 | 16.9 / 32.1 | 40 | 476 / 2950 |
| 6.3 | 1.3 / 8 | 1.6 / 9.6 | 1.7 / 10 | 11.1 / 20.2 | 40 | 485 / 2960 |
| 6.3 | 1.7 / 10 | 2 / 12 | 2.6 / 16 | 16.9 / 32.1 | 40 | 476 / 2950 |

1.3. Cross Travel Data - Model ES50

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] |
|----------------------|----------------------------|----------------------------|-------------------------|----------------|-----------|------------------|
| 1.6 / 2 / 2.5 / 3.2 | 6 | 7.2 | 0.25 | 0.8 | 40 | 1380 |
| 4 / 5 / 6.3 | 6 | 7.2 | 0.25 | 0.8 | 40 | 1380 |
| 1.6 / 2 / 2.5 / 3.2 | 12 | 14.4 | 0.37 | 1.1 | 40 | 1380 |
| 4 / 5 / 6.3 | 12 | 14.4 | 0.55 | 1.1 | 40 | 1380 |
| 1.6 / 2 / 2.5 / 3.2 | 2.5 / 10 | 3 / 12 | 0.75 / 0.18 | 0.57 / 1.5 | 40 | 690 / 2860 |
| 4 / 5 / 6.3 | 2.5 / 10 | 3 / 12 | 0.75 / 0.18 | 0.57 / 1.5 | 40 | 690 / 2860 |
| 1.6 / 2 / 2.5 / 3.2 | 5 / 20 | 6 / 24 | 0.75 / 0.18 | 0.85 / 1.5 | 40 | 690 / 2860 |
| 4 / 5 / 6.3 | 5 / 20 | 6 / 24 | 0.75 / 0.18 | 1.1 / 1.80 | 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] |
|----------------------|----------------------------|----------------------------|-------------------------|----------------|-----------|------------------|
| 3.2 / 4 / 5 / 6.3 | 6 | 7.2 | 0.25 | 0.8 | 40 | 1380 |
| 8 / 10 / 12.5 | 6 | 7.2 | 0.25 | 0.8 | 40 | 1380 |
| 3.2 / 4 / 5 / 6.3 | 12 | 14.4 | 0.37 | 1.1 | 40 | 1380 |
| 8 / 10 / 12.5 | 12 | 14.4 | 0.55 | 1.1 | 40 | 1380 |
| 3.2 / 4 / 5 / 6.3 | 2.5 / 10 | 3 / 12 | 0.12 / 0.55 | 1.1 / 1.8 | 40 | 670 / 2895 |
| 8 / 10 / 12.5 | 2.5 / 10 | 3 / 12 | 0.12 / 0.55 | 1.1 / 1.8 | 40 | 670 / 2895 |
| 3.2 / 4 / 5 / 6.3 | 5 / 20 | 6 / 24 | 0.75 / 0.18 | 1.5 / 2.5 | 40 | 690 / 2860 |
| 8 / 10 / 12.5 | 5 / 20 | 6 / 24 | 1.1 / 0.30 | 1.45 / 2.5 | 40 | 680 / 2880 |

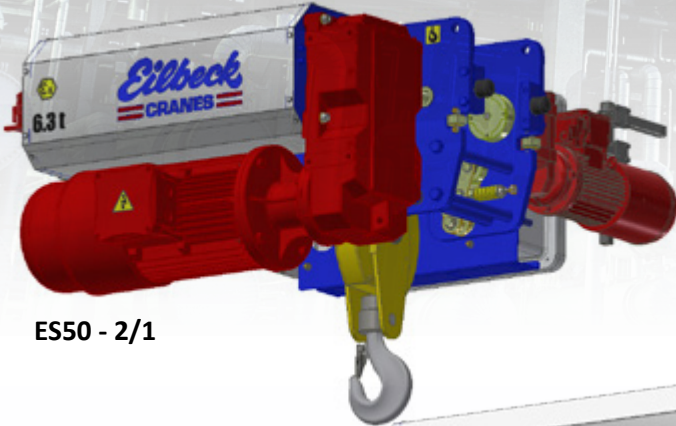
1.3.3. Reeving 4.2

| Load Capacity [t] | Speed (50Hz) [m/min] | Speed (60Hz) [m/min] | Rated Output [Kw] | Current [A] | ED [%] | RPM [rev/min] |
|----------------------|----------------------------|----------------------------|-------------------------|----------------|-----------|------------------|
| 1.6 / 2 / 2.5 / 3.2 | 6 | 7.2 | 0.25 | 0.8 | 40 | 1380 |
| 4 / 5 / 6.3 | 6 | 7.2 | 0.25 | 0.8 | 40 | 1380 |
| 1.6 / 2 / 2.5 / 3.2 | 12 | 14.4 | 0.37 | 1.1 | 40 | 1380 |
| 4 / 5 / 6.3 | 12 | 14.4 | 0.55 | 1.1 | 40 | 1380 |
| 1.6 / 2 / 2.5 / 3.2 | 2.5 / 10 | 3 / 12 | 0.75 / 0.18 | 0.57 / 1.5 | 40 | 690 / 2860 |
| 4 / 5 / 6.3 | 2.5 / 10 | 3 / 12 | 0.75 / 0.18 | 0.57 / 1.5 | 40 | 690 / 2860 |
| 1.6 / 2 / 2.5 / 3.2 | 5 / 20 | 6 / 24 | 0.75 / 0.18 | 0.85 / 1.5 | 40 | 690 / 2860 |
| 4 / 5 / 6.3 | 5 / 20 | 6 / 24 | 0.75 / 0.18 | 1.1 / 1.80 | 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 |

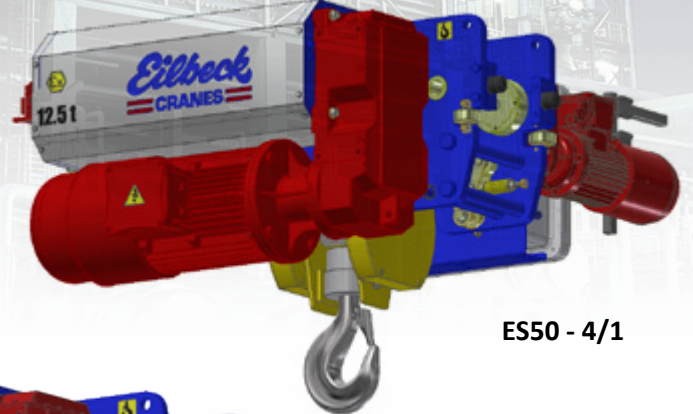
1.4. Torque Settings

| 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 |

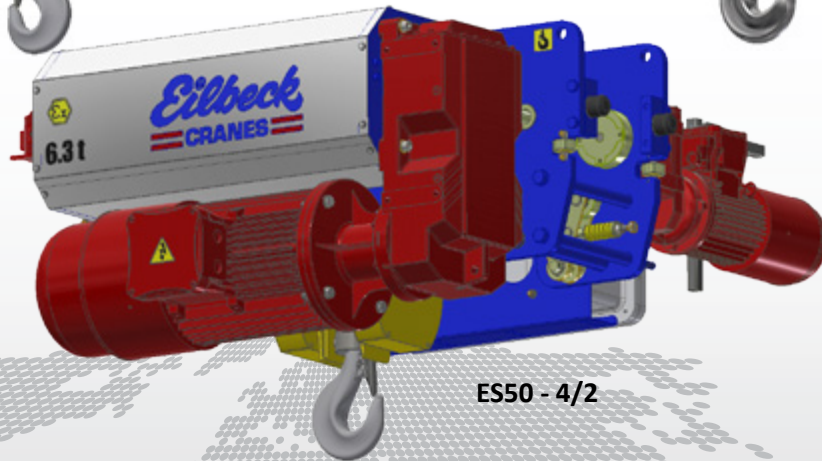
EC GLOBAL



ES50 - 2/1



ES50 - 4/1



ES50 - 4/2

ATEX 



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