



Product Code Descriptions

For QX and QL Crane Components and for Spacemaster® SX and LoadMate® Hoists





Table of Contents

1	WIRE ROPE HOIST PRODUCT CODE	3
1.1	Spacemaster® SX	3
1.2	Spacemaster® SXL	4
2	END TRUCK PRODUCT CODE	5
2.1	RS Top-running End Truck	5
2.2	RSN Top-running End Truck.....	6
2.3	RT Top-running End Truck	7
2.4	RTN and RTL Top-running End Truck.....	8
2.5	UT Under-running End Truck.....	10
2.6	UC Under-running End Truck	11
2.7	RU and RH Under-running End Truck.....	12
3	TRAVELING MACHINERIES PRODUCT CODE.....	13
3.1	GE Drive.....	13
3.2	QM Bridge Drive.....	14
3.3	DS/TM Bridge Drive	15
4	POWER SUPPLY PACKAGE PRODUCT CODE.....	16
4.1	Electrification Package.....	16
5	CONTROL PANEL PRODUCT CODE.....	17
5.1	Bridge Panel for QX Crane Package (Wire Rope Hoist)	17
5.2	Bridge Panel for QL Crane Package (Chain Hoist)	18
6	CONTROL SYSTEM PRODUCT CODE.....	19
6.1	PBR Push Button Pendant.....	19
6.2	PD Push Button Pendant	20
6.3	RaCon Radio Control.....	21
6.4	RaCon Series II Radio Control.....	22
7	TRAVELING INVERTER PRODUCT CODE	23
7.1	CMXC.....	23
7.2	ControlMaster Select.....	24
8	HOISTING INVERTER PRODUCT CODE	25
8.1	ControlMaster Plus.....	25
8.2	ControlMaster Elite.....	26
9	ELECTRIC CHAIN HOIST PRODUCT CODE	27
9.1	LoadMate® Electric Chain Hoist / Stagemaker® Concert Hoist.....	27
10	WHEEL BLOCK PRODUCT CODE	29
10.1	Wheel Block	29
10.2	Wheel Block Electrics.....	30



1 WIRE ROPE HOIST PRODUCT CODE

1.1 Spacemaster® SX

SX 1,2	2 3	041 4, 5, 6	0020 7, 8, 9, 10	P 11	1 12	5 13	F 14	A 15	L0 16,17	N 18
------------------	---------------	-----------------------	----------------------------	----------------	----------------	----------------	----------------	----------------	--------------------	----------------

Pos.	Code	Feature	Available properties	
1,2	SX	Brand	SX	SX Wire Rope Hoist
3	2	Frame size	1 2,3 4 5	243 mm rope drum diameter 303 mm rope drum diameter 355 mm rope drum diameter 406 mm rope drum diameter
4, 5, 6	041	Reeving type	<u>Single Reeved</u> 021 041 061 081	<u>Double Reeved</u> 2 part single 4 part single 6 part single 8 part single
7, 8, 9, 10	0050	Capacity	Capacity x 100 (unit: Kg) 0050 x 100 = 5000 Kg Capacity x 0.1 (unit: Ton) 0050 x 0.1 = 5 Ton	
11	P	Hoist motor type	P T	Two-speed motor Inverter-duty motor
12	1	Hoist Motor Power	<u>Code</u> X 1 2 3 4 5	<u>60 Hz kW / HP</u> 1.8 kW / 2.4 HP 2.2 kW / 3 HP 4.3 kW / 5.8 HP 5.4 kW / 7.2 HP 9 kW / 12 HP 10.8 kW / 14.7 HP
			See Spacemaster® SX price pages and technical guide for additional hoist motor code & power rating information.	
13	5	Hoist duty group	<u>Code</u> 3 4 5 6	<u>ASME Duty class</u> H2 H3 H4 H4+ <u>FEM / ISO Duty class</u> 1Bm / M3 1Am / M4 2m / M5 3m / M6
14	F	Hoist gear code	<u>Code</u> E F G H J	<u>60 Hz Hoist speed fpm (reeving type)</u> 32 fpm (2 PS), 16 fpm (4PS) 40 fpm (2 PS), 20 fpm (4PS) 50 fpm (2 PS), 25 fpm (4PS) 60 fpm (2 PS), 30 fpm (4PS) 80 fpm (2 PS), 40 fpm (4PS) <u>60 Hz Hoist speed m/min (reeving type)</u> 9.5 m/min (2 PS), 4.75 m/min (4 PS) 12 m/min (2 PS), 6 m/min (4 PS) 15 m/min (2 PS), 7.5 m/min (4 PS) 19 m/min (2 PS), 9.5 m/min (4 PS) 24 m/min (2 PS), 12 m/min (4 PS)
			Hoist gear options listed are not available for all hoist frame sizes.	
15	A	Drum length code	<u>Code</u> A B C D E F G H	<u>Rope drum length</u> 310 mm 340 mm (if SX1 frame size, 394 mm) 440 mm (if SX1 frame size, 504 mm) 540 mm (if SX1 frame size, 614 mm) 660 mm 810 mm 1000 mm 1250 mm
			<u>Code</u> J K L M N Z X	<u>Rope drum length</u> 1600 mm 1900 mm 2250 mm 2500 mm 2800 mm 1400 mm Special drum length
16,17	L0	Trolley type	<u>Code</u> J0 L0 N0 D0 DH DL or DW F0	Special Low headroom hoist (SX1) Low headroom hoist Normal headroom hoist Double girder (standard) High profile double girder Low profile double girder Foot mounted
18	N	Special properties	<u>Code</u> N F	Standard hoist without any options Options selected from option list
			<u>Code</u> S	Special hoist



1.2 Spacemaster® SXL

SXL 1,2,3	8 4	042 5, 6, 7	YD 8, 9	NN 10, 11	Y1 12, 13	NG 14, 15	05 16, 17	08 18, 19	34 20, 21	1E 22, 23	N 24
---------------------	---------------	-----------------------	-------------------	---------------------	---------------------	---------------------	---------------------	---------------------	---------------------	---------------------	----------------

Pos.	Code	Feature	Available properties								
1,2,3	SXL	Brand	SXL SXL Wire Rope Hoist (= UMR)								
4	8	Frame size	7 444 mm rope drum diameter 8 590 mm rope drum diameter 9 730 mm rope drum diameter 0								
5, 6, 7	042	Reeving type	<u>Double Reeved</u> 022 2 part double 032 3 part double 042 4 part double 052 5 part double 062 6 part double 082 8 part double								
8, 9	YD	Hoist motor	<u>Motor Connection Type</u> Y = Inverter control				<u>Motor Size</u> C = MF16ZR200N (SXL7) D = MF18XR200N (SXL8) E = MF22LR200 (SXL9)				
10, 11	NN	Hoist gear	<u>Speed Ratio</u> N = Standard ratio SXL7 => 81.56:1 SXL8 => 104.49:1 SXL9 => 128.76:1 SXL0 =>				<u>Gearbox options</u> N = No options S = Second brake included				
12, 13	Y1	Trolley motor	<u>Motor Connection Type</u> Y = Inverter control, Y connection D = Inverter control, D connection				<u>Motor Size</u> 1 = MF07XA200 2 = MF10ZM200 3 = MF11XM200				
14, 15	NG	Trolley gear	<u>Speed</u> N = Normal speed gear (QM06 & GES) M = Medium speed gear (QM06 & GES) H = High speed gear (QM06 & GES) U = Medium speed gear (QM07) T = High speed gear (QM07)				<u>Gear Series</u> G = GES gear series Q = QM gear series				
16, 17	05	Duty class code	<u>Duty Class Code</u> FEM/ISO CMAA ASME		08 M8 F NA	07 M7 E NA	06 M6 D H4	05 M5 C H3	04 M4 B H2	03 M3 A H1	
18, 19	08	Trolley wheel	<u>Wheel material</u> 0 = Ductile iron 1 = Hardened steel				<u>Wheel Groove</u> 6 = 66 mm 8 = 86 mm C = 106 mm 0 = flangeless with guide rollers			<u>Rail size</u> 60 mm 80 mm 100 mm All other sizes	
20, 21	34	Trolley gage	24 = 2400 mm 27 = 2700 mm 34 = 3400 mm 42 = 4200 mm 53 = 5300 mm 65 = 6500 mm		SXL7, SXL8 SXL9 SXL7, SXL8, SXL9, SXL0 SXL7, SXL8, SXL9, SXL0 SXL9, SXL0 SXL0						
22, 23	1E	Electrics	<u>Voltage</u> 1 = 380 v 2 = 400 v 3 = 415 v 4 = 440 v 5 = 460 v 6 = 480 v				<u>Electric Standard</u> A = ANSI electric standard E = IEC electric standard				
24	N	Special properties	<u>Code</u> N Standard hoist without any options F Hoist with options								



2 END TRUCK PRODUCT CODE

2.1 RS Top-running End Truck

RS	11	-	18	65	-	220	150	C	0000	-	N
1,2	3,4	5	6,7	BT08 8,9	10	11-13	14-16	BT19 17	18-21	22	23

Pos.	Code	Feature code	Feature	Available properties	
1,2	RS		Short product name	RS	R&M
3,4	11		Wheel diameter	11	110 mm
5	-		Description	-	Standard
6,7	18		Wheelbase (100 mm)	RS11	14, 18, 22, 27
				RS14	14, 18, 22, 27, 31, 38
8,9	65	BT08	Groove width	RS11	50-75 mm
				RS14	50-75 mm
10	-		Number of driving wheels	-	One driving wheel/end carriage
				D	Two driving wheel/end carriage
11-13	220		Joint plate length (distance between bolts)	RS11	220
				RS14	220, 300, 410
					<u>Length</u> <u>Description</u>
					220 Profile girder, B = 300
					300 Box girder, B = 300
					410 Box girder, B = 410
14-16	150		Joint plate height	RS11	150, 300, 480
				RS14	240, 300, 480
17	C	BT19	Buffer type	RS11	A, B, C, D, E, F, G, H, M
				RS14	A, B, C, D, E, F, G, H, M
				A...D	Rubber buffer
				E...M	Polyurethane buffer
				0	No buffer
18-21	0000		Bolt joint distance (mm)	####	Joint plate distance from pin centers with double girder.
				0000	with single girder, dimension from driving wheel to pin with asymmetrical joint
22	-		Color code	-	Standard primary paint
				K	Standard finishing paint
23	N		Special properties	N	Standard
				E	Special



2.2 RSN Top-running End Truck

RSN	09	-	16	65	-	400	200	C	0000	-	N
1-3	4,5	6	7,8	BT08 9,10	11	12-14	15-17	BT19 18	19-22	23	24

Pos.	Code	Feature code	Feature	Available properties			
1-3	RSN		Product name	RSN	R&M end truck series – new generation		
4,5	09		Wheel diameter	09	90 mm		
				11	110 mm		
				14	140 mm		
				16	160 mm		
6	-		Description	-	Standard		C Asymmetrical joint with single girder
7,8	16		Wheelbase	<u>Wheelbase dimension</u>		<u>Applicable end truck</u>	
				13	1250 mm	RSN09	
				16	1600 mm	RSN09, RSN11, RSN14, RSN16	
				20	2000 mm	RSN09, RSN11, RSN14, RSN16	
				25	2500 mm	RSN09, RSN11, RSN14, RSN16	
				32	3150 mm	RSN11, RSN14, RSN16	
				40	4000 mm	RSN14, RSN16	
45	4500 mm	RSN16					
9,10	65	BT08	Groove width	<u>Range</u>	<u>End truck</u>	<u>Available groove widths</u>	<u>Min. wheel groove</u>
				50-70 mm	RSN09	50, 55, 60, 65, 70 mm	Rail width + 10 mm
				52-87 mm	RSN11	52, 57, 62, 67, 72, 77, 82, 87 mm	Rail width + 12 mm
				54-84 mm	RAN14	54, 59, 64, 69, 74, 79, 84 mm	Rail width + 14 mm
				54-84 mm	RSN16	54, 59, 64, 69, 74, 79, 84 mm	Rail width + 14 mm
11	-		Number of drive wheels	-	One drive wheel / truck		
				D	Two drive wheels / truck		
12,14	400		Joint type	EBN09	400	Profile or box girder, max flange width 400 mm	
				EBN11	400	Profile or box girder, max flange width 400 mm	
				EBN14	400	Profile or box girder, max flange width 400 mm	
				EBN16	350	Profile or box girder, max flange width 350 mm	
				EBN16	450	Box girder, max flange width 450 mm	
15-17	200		Joint plate height	EBN09	200, 215		200 mm, 215 mm, 255 mm, 305 mm
				EBN11	255		
				EBN14	255		
				EBN16	255, 305		
18	C	BT19	Buffer size/type	RSN09	A, B, C		A..C Rubber buffers
				RSN11	A, B, C, K, G, E		K, G, E Polyurethane buffers
				RSN14	B, C, D, K, G, E, M, F, H, P		M,F,H,P Polyurethane buffers
				RSN16	B, C, D, K, G, E, M, F, H, P		0 No buffer
19-22	0000		Bolt joint distance	XXXX	Joint plate distance from bolt centers – Double Girder		0000 Single girder
23	-		Color code	-	Standard primary paint		K Standard finishing paint
24	N		Special properties	N	Standard		E Special



2.3 RT Top-running End Truck

RT	50	-	27	80	-	K5	0500	C	0000	-	N
1,2	3,4	5	6,7	BT08 8,9	10	11,12	13-16	BT19 17	18-21	22	23

Pos.	Code	Feature code	Feature	Available properties
1,2	RT		Short product name	RT R&M
3,4	50		Wheel diameter	09 90 mm 11 110 mm 14 140 mm 20 200 mm 25 250 mm 32 320 mm 50 500 mm
5	-		Description	- Standard B Bogie (with RT20, -25, -32, -50) C Asymmetrical joint with single girder
6,7	27		Wheelbase	<u>Wheel base dimension</u> 14 1400 mm 18 1800 mm 22 2200 mm 27 2700 mm 31 3100 mm 38 3800 mm 45 4500 mm 50 5000 mm 55 5500 mm <u>End Truck</u> RT09, RT11, RT14 RT09, RT11, RT14, RT20 RT09, RT11, RT14, RT20, RT25, RT32, RT50 RT11, RT14, RT20, RT25, RT32, RT50 RT14, RT20, RT25, RT32, RT50 RT14, RT20, RT25, RT32, RT50 RT25, RT32, RT50 RT25, RT32, RT50 RT25, RT32, RT50
8,9	80	BT08	Groove width	<u>End Truck</u> 50-65 RT09 50-75 RT11, RT14 55-100 RT20, RT25, RT32, RT50 (100 is 99 in code)
10	-		Number of driving wheels	- One driving wheel/end carriage D Two driving wheels/end carriage S One driving wheel/travel bogie pair D Two driving wheels/travel bogie pair
11,12	K5		Joint type	<u>Top joints</u> P3 4-bolt connection (B<300mm) P4 4-bolt connection (B<350mm) P6 4-bolt connection (B<550mm) L3 8-bolt connection (B<300mm) L4 8-bolt connection (B<410mm) L5 8-bolt connection (B<520mm) K5 12-bolt connection (B<520mm) K7 12-bolt connection (B<740mm) <u>Side joints</u> R3 R4 R5
13-16	0500		Bolt joint distance	#### Joint plates distance between alignment pin center with double girder. 0000 With single girder, dimension from driving wheel to pin with asymmetrical joint.
17	C	BT19	Buffer type	RT09 A, B, C, D RT11 A, B, C, D RT14 A, B, C, D RT20 A, B, C, D, E, F, G, H, I, M, K, P, S RT25 B, C, D, E, F, G, H, I, M, K, P, S RT32 B, C, D, E, F, G, H, I, M, K, P, S RT50 B, C, D, E, F, G, H, I, M, K, P, S A...D Rubber buffers E...S Polyurethane buffers 0 No buffer
18-21	0000		Bogie inner wheel distance	0000 No bogie type end carriage
22	-		Color code	- Standard primary paint K Standard finishing paint
23	N		Special properties	N Standard E Special



2.4 RTN and RTL Top-running End Truck

RTN	09	-	16	60	-	A3	0000	C	0000	-	N
1-3	4,5	6	7,8	BT08 9,10	11	12,13	14-17	BT19 18	19-22	23	24

Pos.	Code	Feature code	Feature	Available properties																																																																																																																														
1-3	RTN		Product name	RTN R&M end truck series – new generation RTL R&M end truck series – new generation																																																																																																																														
4,5	09		Wheel diameter	<table border="1"> <thead> <tr> <th>Code</th> <th>Wheel diameter</th> <th>End truck</th> <th>Code</th> <th>Wheel diameter</th> <th>End truck</th> </tr> </thead> <tbody> <tr> <td>09</td> <td>90 mm</td> <td>RTN, RCL</td> <td>20</td> <td>200 mm</td> <td>RTN</td> </tr> <tr> <td>11</td> <td>110 mm</td> <td>RTN</td> <td>25</td> <td>250 mm</td> <td>RTN</td> </tr> <tr> <td>14</td> <td>140 mm</td> <td>RTN</td> <td>32</td> <td>315 mm</td> <td>RTN</td> </tr> <tr> <td>16</td> <td>160 mm</td> <td>RTN</td> <td>40</td> <td>400 mm</td> <td>RTN</td> </tr> </tbody> </table>	Code	Wheel diameter	End truck	Code	Wheel diameter	End truck	09	90 mm	RTN, RCL	20	200 mm	RTN	11	110 mm	RTN	25	250 mm	RTN	14	140 mm	RTN	32	315 mm	RTN	16	160 mm	RTN	40	400 mm	RTN																																																																																																
Code	Wheel diameter	End truck	Code	Wheel diameter	End truck																																																																																																																													
09	90 mm	RTN, RCL	20	200 mm	RTN																																																																																																																													
11	110 mm	RTN	25	250 mm	RTN																																																																																																																													
14	140 mm	RTN	32	315 mm	RTN																																																																																																																													
16	160 mm	RTN	40	400 mm	RTN																																																																																																																													
6	-		Description	<table border="1"> <thead> <tr> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>-</td> <td>Standard</td> <td>C</td> </tr> <tr> <td>B</td> <td>Bogie (RTN20B, RTN25B, RTN32B, RTN40B)</td> <td>Asymmetrical joint location with single girder</td> </tr> </tbody> </table>				-	Standard	C	B	Bogie (RTN20B, RTN25B, RTN32B, RTN40B)	Asymmetrical joint location with single girder																																																																																																																					
-	Standard	C																																																																																																																																
B	Bogie (RTN20B, RTN25B, RTN32B, RTN40B)	Asymmetrical joint location with single girder																																																																																																																																
7,8	16		Wheelbase	<table border="1"> <thead> <tr> <th>Wheelbase dimension</th> <th>Applicable end truck</th> </tr> </thead> <tbody> <tr> <td>12 1200 mm</td> <td>RTN20B, RTN25B</td> </tr> <tr> <td>13 1250 mm</td> <td>RTN09, RTL09</td> </tr> <tr> <td>14 1400 mm</td> <td>RTN20B, RTN25B, RTN32B, RTN40B</td> </tr> <tr> <td>16 1600 mm</td> <td>RTN09, RTL09, RTN11, RTN14, RTN16, RTN20, RTN20B, RTN25B, RTN32B, RTN40B</td> </tr> <tr> <td>18 1800 mm</td> <td>RTN20B, RTN40B</td> </tr> <tr> <td>20 2000 mm</td> <td>RTN09, RTL09, RTN11, RTN14, RTN16, RTN20, RTN20B, RTN25B, RTN32B, RTN40B</td> </tr> <tr> <td>22 2200 mm</td> <td>RTN25B</td> </tr> <tr> <td>25 2500 mm</td> <td>RTN09, RTN11, RTN14, RTN16, RTN20, RTN25, RTN32, RTN40</td> </tr> <tr> <td>32 3150 mm</td> <td>RTN11, RTN14, RTN16, RTN20, RTN25, RTN32, RTN40</td> </tr> <tr> <td>35 3500 mm</td> <td>RTN14</td> </tr> <tr> <td>40 4000 mm</td> <td>RTN14, RTN16, RTN20, RTN25, RTN32, RTN40</td> </tr> <tr> <td>45 4500 mm</td> <td>RTN20, RTN25, RTN32, RTN40</td> </tr> <tr> <td>50 5000 mm</td> <td>RTN32, RTN40</td> </tr> <tr> <td>55 5500 mm</td> <td>RTN32, RTN40</td> </tr> </tbody> </table>	Wheelbase dimension	Applicable end truck	12 1200 mm	RTN20B, RTN25B	13 1250 mm	RTN09, RTL09	14 1400 mm	RTN20B, RTN25B, RTN32B, RTN40B	16 1600 mm	RTN09, RTL09, RTN11, RTN14, RTN16, RTN20, RTN20B, RTN25B, RTN32B, RTN40B	18 1800 mm	RTN20B, RTN40B	20 2000 mm	RTN09, RTL09, RTN11, RTN14, RTN16, RTN20, RTN20B, RTN25B, RTN32B, RTN40B	22 2200 mm	RTN25B	25 2500 mm	RTN09, RTN11, RTN14, RTN16, RTN20, RTN25, RTN32, RTN40	32 3150 mm	RTN11, RTN14, RTN16, RTN20, RTN25, RTN32, RTN40	35 3500 mm	RTN14	40 4000 mm	RTN14, RTN16, RTN20, RTN25, RTN32, RTN40	45 4500 mm	RTN20, RTN25, RTN32, RTN40	50 5000 mm	RTN32, RTN40	55 5500 mm	RTN32, RTN40																																																																																																
Wheelbase dimension	Applicable end truck																																																																																																																																	
12 1200 mm	RTN20B, RTN25B																																																																																																																																	
13 1250 mm	RTN09, RTL09																																																																																																																																	
14 1400 mm	RTN20B, RTN25B, RTN32B, RTN40B																																																																																																																																	
16 1600 mm	RTN09, RTL09, RTN11, RTN14, RTN16, RTN20, RTN20B, RTN25B, RTN32B, RTN40B																																																																																																																																	
18 1800 mm	RTN20B, RTN40B																																																																																																																																	
20 2000 mm	RTN09, RTL09, RTN11, RTN14, RTN16, RTN20, RTN20B, RTN25B, RTN32B, RTN40B																																																																																																																																	
22 2200 mm	RTN25B																																																																																																																																	
25 2500 mm	RTN09, RTN11, RTN14, RTN16, RTN20, RTN25, RTN32, RTN40																																																																																																																																	
32 3150 mm	RTN11, RTN14, RTN16, RTN20, RTN25, RTN32, RTN40																																																																																																																																	
35 3500 mm	RTN14																																																																																																																																	
40 4000 mm	RTN14, RTN16, RTN20, RTN25, RTN32, RTN40																																																																																																																																	
45 4500 mm	RTN20, RTN25, RTN32, RTN40																																																																																																																																	
50 5000 mm	RTN32, RTN40																																																																																																																																	
55 5500 mm	RTN32, RTN40																																																																																																																																	
9,10	60	BT08	Groove width	<table border="1"> <thead> <tr> <th>Range</th> <th>End truck</th> <th>Min. wheel groove</th> <th>Range</th> <th>End truck</th> <th>Min. wheel groove</th> </tr> </thead> <tbody> <tr> <td>50-70</td> <td>RTN09, RTL09</td> <td>Rail width + 10 mm</td> <td>54-89</td> <td>RTN25</td> <td>Rail width + 14 mm</td> </tr> <tr> <td>52-87</td> <td>RTN11</td> <td>Rail width + 12 mm</td> <td>54-94</td> <td>RTN20, RTN32</td> <td>Rail width + 14 mm</td> </tr> <tr> <td>54-84</td> <td>RTN14</td> <td>Rail width + 14 mm</td> <td>55-105</td> <td>RTN40</td> <td>Rail width + 15 mm</td> </tr> <tr> <td>54-84</td> <td>RTN16</td> <td>Rail width + 14 mm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Wheel grooves available in 5 mm increments</p>	Range	End truck	Min. wheel groove	Range	End truck	Min. wheel groove	50-70	RTN09, RTL09	Rail width + 10 mm	54-89	RTN25	Rail width + 14 mm	52-87	RTN11	Rail width + 12 mm	54-94	RTN20, RTN32	Rail width + 14 mm	54-84	RTN14	Rail width + 14 mm	55-105	RTN40	Rail width + 15 mm	54-84	RTN16	Rail width + 14 mm																																																																																																			
Range	End truck	Min. wheel groove	Range	End truck	Min. wheel groove																																																																																																																													
50-70	RTN09, RTL09	Rail width + 10 mm	54-89	RTN25	Rail width + 14 mm																																																																																																																													
52-87	RTN11	Rail width + 12 mm	54-94	RTN20, RTN32	Rail width + 14 mm																																																																																																																													
54-84	RTN14	Rail width + 14 mm	55-105	RTN40	Rail width + 15 mm																																																																																																																													
54-84	RTN16	Rail width + 14 mm																																																																																																																																
11	-		Number of drive wheels	<table border="1"> <thead> <tr> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>-</td> <td>One drive wheel / truck</td> </tr> <tr> <td>D</td> <td>Two drive wheels / truck</td> </tr> </tbody> </table>			-	One drive wheel / truck	D	Two drive wheels / truck																																																																																																																								
-	One drive wheel / truck																																																																																																																																	
D	Two drive wheels / truck																																																																																																																																	
12,13	A3		Joint type	<table border="1"> <thead> <tr> <th colspan="2"><u>Top joint connection</u></th> <th><u>End truck</u></th> <th colspan="2"><u>Top joint connection</u></th> <th><u>End truck</u></th> </tr> </thead> <tbody> <tr> <td>A3</td> <td>4-bolts (flg width < 300mm)</td> <td>RTN/L09</td> <td>H4</td> <td>12-bolts (flg width < 410mm)</td> <td>RTN25</td> </tr> <tr> <td>A4</td> <td>4-bolts (flg width < 400mm)</td> <td>RTN11</td> <td>H5</td> <td>12-bolts (flg width < 520mm)</td> <td>RTN25</td> </tr> <tr> <td>A6</td> <td>4-bolts (flg width < 600mm)</td> <td>RTN11</td> <td>H7</td> <td>12-bolts (flg width < 740mm)</td> <td>RTN25</td> </tr> <tr> <td>B4</td> <td>8-bolts (flg width < 350mm)</td> <td>RTN16</td> <td>H9</td> <td>12-bolts (flg width < 990mm)</td> <td>RTN25</td> </tr> <tr> <td>B6</td> <td>8-bolts (flg width < 550mm)</td> <td>RTN16</td> <td>K4</td> <td>12-bolts (flg width < 410mm)</td> <td>RTN32, RTN40</td> </tr> <tr> <td>L3</td> <td>8-bolt s(fl g width < 300mm)</td> <td>RTN20</td> <td>K5</td> <td>12-bolts (flg width < 520mm)</td> <td>RTN32, RTN40</td> </tr> <tr> <td>L4</td> <td>8-bolts (flg width < 410mm)</td> <td>RTN20</td> <td>K7</td> <td>12-bolts (flg width < 740mm)</td> <td>RTN32, RTN40</td> </tr> <tr> <td>L5</td> <td>8-bolts (flg width < 520mm)</td> <td>RTN20</td> <td>K9</td> <td>12-bolts (flg width < 990mm)</td> <td>RTN32, RTN40</td> </tr> <tr> <td>L6</td> <td>8-bolts (flg width < 630mm)</td> <td>RTN20</td> <td>J1-J0</td> <td>Shear ring connection</td> <td>RTN40</td> </tr> <tr> <th colspan="2"><u>Side joint</u></th> <th><u>End Truck</u></th> <th colspan="2"><u>Side joint</u></th> <th><u>End Truck</u></th> </tr> <tr> <td>R3</td> <td>8- top & 2-side bolts</td> <td>RTN20</td> <td>Q4</td> <td>12- top & 4-side bolts</td> <td>RTN32</td> </tr> <tr> <td>R4</td> <td>8- top & 2-side bolts</td> <td>RTN20</td> <td>Q5</td> <td>12- top & 4-side bolts</td> <td>RTN32</td> </tr> <tr> <td>R5</td> <td>8- top & 2-side bolts</td> <td>RTN20</td> <td>Q6</td> <td>12- top & 6-side bolts</td> <td>RTN32</td> </tr> <tr> <td>R6</td> <td>8- top & 2-side bolts</td> <td>RTN20</td> <td>Q7</td> <td>12- top & 4-side bolts</td> <td>RTN32</td> </tr> <tr> <td>F4</td> <td>8- top & 4-side bolts</td> <td>RTN25</td> <td>Q8</td> <td>12- top & 6-side bolts</td> <td>RTN32</td> </tr> <tr> <td>F5</td> <td>12- top & 4-side bolts</td> <td>RTN25</td> <td>Q9</td> <td>12- top & 4-side bolts</td> <td>RTN32</td> </tr> <tr> <td>F7</td> <td>12- top & 4-side bolts</td> <td>RTN25</td> <td>Q0</td> <td>12- top & 6-side bolts</td> <td>RTN32</td> </tr> <tr> <td>F8</td> <td>12- top & 4-side bolts</td> <td>RTN25</td> <td>S6</td> <td>12- top & 6-side bolts</td> <td>RTN40</td> </tr> <tr> <td></td> <td></td> <td></td> <td>S7</td> <td>12- top & 6-side bolts</td> <td>RTN40</td> </tr> <tr> <td></td> <td></td> <td></td> <td>S8</td> <td>12- top & 6-side bolts</td> <td>RTN40</td> </tr> </tbody> </table>	<u>Top joint connection</u>		<u>End truck</u>	<u>Top joint connection</u>		<u>End truck</u>	A3	4-bolts (flg width < 300mm)	RTN/L09	H4	12-bolts (flg width < 410mm)	RTN25	A4	4-bolts (flg width < 400mm)	RTN11	H5	12-bolts (flg width < 520mm)	RTN25	A6	4-bolts (flg width < 600mm)	RTN11	H7	12-bolts (flg width < 740mm)	RTN25	B4	8-bolts (flg width < 350mm)	RTN16	H9	12-bolts (flg width < 990mm)	RTN25	B6	8-bolts (flg width < 550mm)	RTN16	K4	12-bolts (flg width < 410mm)	RTN32, RTN40	L3	8-bolt s(fl g width < 300mm)	RTN20	K5	12-bolts (flg width < 520mm)	RTN32, RTN40	L4	8-bolts (flg width < 410mm)	RTN20	K7	12-bolts (flg width < 740mm)	RTN32, RTN40	L5	8-bolts (flg width < 520mm)	RTN20	K9	12-bolts (flg width < 990mm)	RTN32, RTN40	L6	8-bolts (flg width < 630mm)	RTN20	J1-J0	Shear ring connection	RTN40	<u>Side joint</u>		<u>End Truck</u>	<u>Side joint</u>		<u>End Truck</u>	R3	8- top & 2-side bolts	RTN20	Q4	12- top & 4-side bolts	RTN32	R4	8- top & 2-side bolts	RTN20	Q5	12- top & 4-side bolts	RTN32	R5	8- top & 2-side bolts	RTN20	Q6	12- top & 6-side bolts	RTN32	R6	8- top & 2-side bolts	RTN20	Q7	12- top & 4-side bolts	RTN32	F4	8- top & 4-side bolts	RTN25	Q8	12- top & 6-side bolts	RTN32	F5	12- top & 4-side bolts	RTN25	Q9	12- top & 4-side bolts	RTN32	F7	12- top & 4-side bolts	RTN25	Q0	12- top & 6-side bolts	RTN32	F8	12- top & 4-side bolts	RTN25	S6	12- top & 6-side bolts	RTN40				S7	12- top & 6-side bolts	RTN40				S8	12- top & 6-side bolts	RTN40
<u>Top joint connection</u>		<u>End truck</u>	<u>Top joint connection</u>		<u>End truck</u>																																																																																																																													
A3	4-bolts (flg width < 300mm)	RTN/L09	H4	12-bolts (flg width < 410mm)	RTN25																																																																																																																													
A4	4-bolts (flg width < 400mm)	RTN11	H5	12-bolts (flg width < 520mm)	RTN25																																																																																																																													
A6	4-bolts (flg width < 600mm)	RTN11	H7	12-bolts (flg width < 740mm)	RTN25																																																																																																																													
B4	8-bolts (flg width < 350mm)	RTN16	H9	12-bolts (flg width < 990mm)	RTN25																																																																																																																													
B6	8-bolts (flg width < 550mm)	RTN16	K4	12-bolts (flg width < 410mm)	RTN32, RTN40																																																																																																																													
L3	8-bolt s(fl g width < 300mm)	RTN20	K5	12-bolts (flg width < 520mm)	RTN32, RTN40																																																																																																																													
L4	8-bolts (flg width < 410mm)	RTN20	K7	12-bolts (flg width < 740mm)	RTN32, RTN40																																																																																																																													
L5	8-bolts (flg width < 520mm)	RTN20	K9	12-bolts (flg width < 990mm)	RTN32, RTN40																																																																																																																													
L6	8-bolts (flg width < 630mm)	RTN20	J1-J0	Shear ring connection	RTN40																																																																																																																													
<u>Side joint</u>		<u>End Truck</u>	<u>Side joint</u>		<u>End Truck</u>																																																																																																																													
R3	8- top & 2-side bolts	RTN20	Q4	12- top & 4-side bolts	RTN32																																																																																																																													
R4	8- top & 2-side bolts	RTN20	Q5	12- top & 4-side bolts	RTN32																																																																																																																													
R5	8- top & 2-side bolts	RTN20	Q6	12- top & 6-side bolts	RTN32																																																																																																																													
R6	8- top & 2-side bolts	RTN20	Q7	12- top & 4-side bolts	RTN32																																																																																																																													
F4	8- top & 4-side bolts	RTN25	Q8	12- top & 6-side bolts	RTN32																																																																																																																													
F5	12- top & 4-side bolts	RTN25	Q9	12- top & 4-side bolts	RTN32																																																																																																																													
F7	12- top & 4-side bolts	RTN25	Q0	12- top & 6-side bolts	RTN32																																																																																																																													
F8	12- top & 4-side bolts	RTN25	S6	12- top & 6-side bolts	RTN40																																																																																																																													
			S7	12- top & 6-side bolts	RTN40																																																																																																																													
			S8	12- top & 6-side bolts	RTN40																																																																																																																													
14-17	0000		Bolt joint distance	<table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>####</td> <td>The distance between for two joint plates for a double girder crane. It is the distance from alignment pins.</td> </tr> <tr> <td>0000</td> <td>Dimension from drive wheel to joint plate pin when the joint plate is positioned asymmetrically for a single girder crane.</td> </tr> </tbody> </table>	Code	Description	####	The distance between for two joint plates for a double girder crane. It is the distance from alignment pins.	0000	Dimension from drive wheel to joint plate pin when the joint plate is positioned asymmetrically for a single girder crane.																																																																																																																								
Code	Description																																																																																																																																	
####	The distance between for two joint plates for a double girder crane. It is the distance from alignment pins.																																																																																																																																	
0000	Dimension from drive wheel to joint plate pin when the joint plate is positioned asymmetrically for a single girder crane.																																																																																																																																	



18	C	BT19	Buffer type	RTN/RTL09 A, B, C, K, G, E RTN11 A, B, C, K, G, E RTN14 A, B, C, D, K, G, E, M, F, H, P RTN16 B, C, D, K, G, E, M, F, H, P RTN20 B, C, D, K, G, E, M, F, H, P, I, S RTN25 B, C, D, K, G, E, M, F, H, P, I, S	RTN32 B, C, D, K, G, E, M, F, H, P, I, S, T, Y RTN40 B, C, D, K, G, E, M, F, H, P, I, S, T, Y A, B, C, D Rubber buffers K, G, E, M, F Polyurethane buffers H, P, I, S, T, Y Polyurethane buffers 0 No buffer included
19-22	0000		Bogie inner wheel distance	0000 No bogie type end carriage	
23	-		Color code	- Standard primary paint	K Standard finishing paint
24	N		Special properties	N Standard	E Special



2.5 UT Under-running End Truck

UT	10	-	14	B180	C3	A	E
1,2	3,4	5	6,7	8-11	12,13	BT19 14	15

Pos.	Code	Feature code	Feature	Available properties																					
1,2	UT		Short product name	UT	R&M																				
3,4	10		Wheel diameter	10 100 mm 13 130 mm	16 160 mm																				
5	-																								
6,7	14		Wheelbase (100 mm)	UT10 12, 14, 18, 22, 25, 28 UT13 12, 14, 18, 22, 25, 28	UT16 12, 14, 18, 22, 28																				
8-11	B180		Runway beam flange width	UT10 82-300 mm UT13 82-300 mm UT16 90-410 mm	i.e. B180 = 180 mm etc.																				
12,13	C3		Joint type	UT10 00, C3, C5, C6, CS, D1 UT13 00, C3, C5, C6, CS, D1 UT16 00 (D1, D2, D4, US16)	<table border="0"> <tr> <td><u>Code</u></td> <td><u>Description</u></td> </tr> <tr> <td>00</td> <td>End carriage without joint (zero)</td> </tr> <tr> <td>C3</td> <td>Modular 1, Low</td> </tr> <tr> <td>C5</td> <td>Modular 1, Under</td> </tr> <tr> <td>C6</td> <td>Welded connection</td> </tr> <tr> <td>CS</td> <td>4-bolt connection</td> </tr> <tr> <td>(D1)</td> <td>(Welded connection)</td> </tr> <tr> <td>(D2)</td> <td>(Welded connection)</td> </tr> <tr> <td>(D4)</td> <td>(Welded connection)</td> </tr> <tr> <td>(US16)</td> <td>(Welded connection)</td> </tr> </table>	<u>Code</u>	<u>Description</u>	00	End carriage without joint (zero)	C3	Modular 1, Low	C5	Modular 1, Under	C6	Welded connection	CS	4-bolt connection	(D1)	(Welded connection)	(D2)	(Welded connection)	(D4)	(Welded connection)	(US16)	(Welded connection)
<u>Code</u>	<u>Description</u>																								
00	End carriage without joint (zero)																								
C3	Modular 1, Low																								
C5	Modular 1, Under																								
C6	Welded connection																								
CS	4-bolt connection																								
(D1)	(Welded connection)																								
(D2)	(Welded connection)																								
(D4)	(Welded connection)																								
(US16)	(Welded connection)																								
14	A	BT19	Buffer type	UT10 A, B UT13 A, B UT16 A, B, C	A...C Rubber buffer 0 No buffer																				
15	E		Special properties	- Standard (Primary Paint) K Modular (Finishing Paint)	E Special																				



2.6 UC Under-running End Truck

UC	10	-	14	B180	-	C10	A	K
1,2	3,4	5	6,7	8-11	12	13-15	BT19 16	17

Pos.	Code	Feature code	Feature	Available properties
1,2	UC		Short product name	UC R&M
3,4	10		Wheel diameter	10 100 mm 13 130 mm 16 160 mm
5	-			
6,7	14		Wheelbase (100 mm)	UC10 14, 17, 22, 25 UC13 14, 17, 22, 25 UC16 14, 17, 22, 25
8-11	B180		Runway beam flange width	UC10 82-330 mm UC13 82-330 mm UC16 98-330 mm i.e. B180 = 180 mm etc.
12	-		Driving wheels	- One driving wheel/end carriage D Two driving wheels/end carriage
13-15	C10		Joint type	UC10 C10 UC13 C10 UC16 C10
16	A	BT19	Buffer type	UC10 A UC13 A UC16 A A Rubber buffer 0 No buffer
17	K		Special properties	- Primary Paint K Standard, finishing paint E Special



2.7 RU and RH Under-running End Truck

RU	08	-	23	080	-	SA3	0000	C	0000	-	N
1,2	3,4	5	6,7	BT08 8,9,10	11	12,13,14	15-18	BT19 19	20-23	24	25

Position	Code	Feature code	Feature	Available properties
1,2	RU		Product name	RU R&M end truck series; Platform series (UU); I-beam truck frame RH R&M end truck series; Platform series (UR); U-shape truck frame
3,4	08		Wheel diameter	08 80 mm 10 100 mm 13 125 mm
5	-		Description	- Standard B Bogie C Asymmetrical joint for single girder
6,7	23		Wheelbase	<u>Wheel base dimension</u> 12 1200 mm 14 1400 mm 18 1800 mm 23 2300 mm 28 2800 mm 32 3200 mm 35 3500 mm <u>Applicable end truck</u> RU08, RU10, RU13 RU08, RU10, RU13, RH10, RH13 RU08, RU10, RU13, RH10, RH13 RU08, RU10, RU13, RH10, RH13 RU08, RU10, RU13, RH10, RH13 RU10, RU13, RH13 RU10, RU13, RH13
8-10	080		Runway flange width	<u>Flange width range, applicable end truck</u> 073-313 73-313 mm, RU08 (63...158 mm special flange range with patented track wheels) 083-322 83-322 mm, RU10, RH10 (61...157 mm flange range with patented track wheels) 100-343 100-343 mm, RU13, RH13 (61...223 mm flange range with patented track wheels)
11	-		Number of bridge drives	- One drive / end truck D Two drives / end truck S One drive / bogie truck D Two drives / bogie truck
12-14	SA3		Joint type	<u>Code</u> <u>Bolted joint connection with joint plate</u> <u>Applicable end truck</u> SA3 4-bolt connection, M16 bolt (flange width < 300mm) RU08 SB4 4-bolt connection, M20 bolt (flange width < 410mm) RU10 SC4 8-bolt connection, M20 bolt (flange width < 410mm) RU13 SC5 8-bolt connection, M20 bolt (flange width < 510 mm) RU13 HB4 4-bolt connection, M20 bolt (flange width < 410mm) RH10 HC3 8-bolt connection, M20 bolt (flange width < 310 mm) RH13 HC4 8-bolt connection, M20 bolt (flange width < 310 mm) RH13 HC5 8-bolt connection, M20 bolt (flange width < 510 mm) RH13 <u>Code</u> <u>Bolted joint connection without joint plate</u> <u>Applicable end truck</u> BAx 4-bolt connection, M16 bolt RU08, x=1, 2, 3 BBx 4-bolt connection, M20 bolt RU10, x=2, 3, 4, 5 BCx 8-bolt connection, M20 bolt RU13, x=3, 4, 5 KBx 4-bolt connection, M20 bolt RH10, x=2, 3, 4, 5 KCx 8-bolt connection, M20 bolt RH13, x=3, 4, 5 x: defines bolt layout & max flange width Refer to RU & RH end truck technical guide <u>Code</u> <u>Welded without joint plate</u> <u>Applicable end truck</u> WA_ RU08 WB_ RU10 WC_ RU13 <u>Code</u> <u>Special joint</u> <u>Applicable end truck</u> 000 Special joint –design by the crane builder RU, RH
15-18	0000		Bolt joint distance	#### The distance between for two joint plates for a double girder crane. It is the distance from alignment pins. 0000 Dimension from drive wheel to joint plate pin when the joint plate is positioned asymmetrically for a single girder crane.
19	C	BT19	Buffer type	RU08 A, B, C, K, G A...C Rubber buffers RU10, RH10 A, B, C, K, G K...G Polyurethane buffers RU13, RH13 A, B, C, K, G 0 No buffer
20-23	0000		Bogie inner wheel distance	0000 No standard bogie end truck
24	-		Color code	- Standard primary paint K Standard finishing paint
25	N		Special properties	N Standard E Special



3 TRAVELING MACHINERIES PRODUCT CODE

3.1 GE Drive

GE	K	1	06	P	T	1	B	O	F06MA	200-6400	N
1,2	3	4	5,6	7	TG05 8	TG06 9	10	11	12-16	17-24	25

Pos.	Code	Feature code	Feature	Available properties
1,2	GE		Gear	GE
3	K		Type	K Specific Trolley Drive (WRH) L Specific Trolley Drive (ECH) M Hollow shaft S Solid shaft T Reserved N Reserved
4	1		Machinery size (Torque Range)	1 0 Nm < T ₂ < 50 Nm 2 16 Nm < T ₂ < 125 Nm 3 40 Nm < T ₂ < 320 Nm 4 100 Nm < T ₂ < 800 Nm 5 250 Nm < T ₂ < 2000 Nm 6 630 Nm < T ₂ < 5000 Nm
5,6	06		Ratio code	01... 1 st mark: 0, 1, 2 ... 9, A (=10), B(=11),... ...99... 2 nd mark: 0, 1, 2 ... 9 ...H9 e.g. A0≅100, B0≅110, G5≅165, etc.
7	P		Options	P Standard, no options (plain) F Flywheel G Gantry type gear (RES4, RES5) V Stronger version (RES320V, RES316V, RES313V with MF06LB motor)
8	T	TG05	Secondary shaft type	T Driving Pinion K Keyway S Spline D Spline + Plain E Reserved (Special)
9	1	TG06	Version type	1...9 Versioning of machinery e.g. spline size, shaft size
10	B		Color	B B-Black (Dark grey)
11	O		Future reservation	O No feature
12-16	F06MA		Motor type and size	F Motor type code (B, F, T, etc.) 06 Frame size (e.g. 06, 07...) M Stator length (S, M, L, Z, E) A Power code (A, B, C...)
17-24	200-6400		Motor ID-code	ID of the motor, if special then Winding data and Power supply data: 200-6400 (fourth mark, pos 20 "dash") 200 Number of HS- and LS-polepairs - Filling mark "dash" 5 Power Supply frequency: 5-50Hz, 6-60Hz 400 Power supply Voltage, e.g. 380, 400, ...
25	N		Order type	E Special Order, details defined with P.O. N Normal Order (e.g. Standard Motor)



3.3 DS/TM Bridge Drive

DS2 (TG01) 1,2,3	25 (TG03) 4,5	R 6	F07LA104 7-14	P 15	C (TG05) 16	A TG07 17	5 (ELE03) 18	400 ELE01 19-21	- 16
-------------------------------	----------------------------	---------------	-------------------------	----------------	--------------------------	------------------------	---------------------------	------------------------------	----------------

Pos.	Code	Feature code	Feature	Available properties																																				
1,2,3	DS2	(TG01)	Machinery type	<table border="0"> <tr> <td>DS1</td> <td>for UT10, UT13, UC10 and UC13 end carriages and hoist trolleys</td> <td><u>TG01 value</u> GS</td> <td>DS4</td> <td>for CT14, UT10, UT13, UT16, UC10, UC13 and UC16 end carriages and hoist trolleys</td> <td><u>TG01 value</u> GS</td> </tr> <tr> <td>DS2</td> <td>for CT9 and CT11 end carriages and hoist trolleys</td> <td>GS</td> <td>TM4</td> <td>for CT20 and CT25 end carriages and hoist trolleys</td> <td>GM</td> </tr> <tr> <td>DS3</td> <td>for CT14, UT10, UT13, UT16, UC10, UC13 and UC16 end carriages and hoist trolleys</td> <td>GS</td> <td>TM5</td> <td>for CH25 and CH32 end carriages and hoist trolleys</td> <td>GM</td> </tr> </table>	DS1	for UT10, UT13, UC10 and UC13 end carriages and hoist trolleys	<u>TG01 value</u> GS	DS4	for CT14, UT10, UT13, UT16, UC10, UC13 and UC16 end carriages and hoist trolleys	<u>TG01 value</u> GS	DS2	for CT9 and CT11 end carriages and hoist trolleys	GS	TM4	for CT20 and CT25 end carriages and hoist trolleys	GM	DS3	for CT14, UT10, UT13, UT16, UC10, UC13 and UC16 end carriages and hoist trolleys	GS	TM5	for CH25 and CH32 end carriages and hoist trolleys	GM																		
DS1	for UT10, UT13, UC10 and UC13 end carriages and hoist trolleys	<u>TG01 value</u> GS	DS4	for CT14, UT10, UT13, UT16, UC10, UC13 and UC16 end carriages and hoist trolleys	<u>TG01 value</u> GS																																			
DS2	for CT9 and CT11 end carriages and hoist trolleys	GS	TM4	for CT20 and CT25 end carriages and hoist trolleys	GM																																			
DS3	for CT14, UT10, UT13, UT16, UC10, UC13 and UC16 end carriages and hoist trolleys	GS	TM5	for CH25 and CH32 end carriages and hoist trolleys	GM																																			
4,5	25	(TG03)	Gear ratio	<table border="0"> <tr> <td>DS1</td> <td>09, 13, 15, 20</td> <td rowspan="5">e.g. TG03 value = 09</td> </tr> <tr> <td>DS2</td> <td>20, 25, 32, 40, 50</td> </tr> <tr> <td>DS3</td> <td>(07), (09), (13), (15), 20, 25, 32, 40, 50, 63, 80</td> </tr> <tr> <td>DS4</td> <td>(07), (09), (13), (15), 20, 25, 32, 40, 50</td> </tr> <tr> <td>TM4</td> <td>28, 36, 45, 56, 70, 90, 112 (NOTICE: here 112 is marked 12)</td> </tr> <tr> <td>TM5</td> <td>14, 18, 22, 28, 36, 45, 56, 70, 90</td> <td></td> </tr> </table>	DS1	09, 13, 15, 20	e.g. TG03 value = 09	DS2	20, 25, 32, 40, 50	DS3	(07), (09), (13), (15), 20, 25, 32, 40, 50, 63, 80	DS4	(07), (09), (13), (15), 20, 25, 32, 40, 50	TM4	28, 36, 45, 56, 70, 90, 112 (NOTICE: here 112 is marked 12)	TM5	14, 18, 22, 28, 36, 45, 56, 70, 90																							
DS1	09, 13, 15, 20	e.g. TG03 value = 09																																						
DS2	20, 25, 32, 40, 50																																							
DS3	(07), (09), (13), (15), 20, 25, 32, 40, 50, 63, 80																																							
DS4	(07), (09), (13), (15), 20, 25, 32, 40, 50																																							
TM4	28, 36, 45, 56, 70, 90, 112 (NOTICE: here 112 is marked 12)																																							
TM5	14, 18, 22, 28, 36, 45, 56, 70, 90																																							
6	R		Gear box issue	<table border="0"> <tr> <td>R</td> <td>DS1, DS2, DS3, DS4</td> </tr> <tr> <td>M</td> <td>TM4, TM5</td> </tr> <tr> <td>G</td> <td>TM4xxG, TM5xxG (for Modular Gantry Crane (MGC))</td> </tr> </table>	R	DS1, DS2, DS3, DS4	M	TM4, TM5	G	TM4xxG, TM5xxG (for Modular Gantry Crane (MGC))																														
R	DS1, DS2, DS3, DS4																																							
M	TM4, TM5																																							
G	TM4xxG, TM5xxG (for Modular Gantry Crane (MGC))																																							
7-14	F07LA104		Motor type	<table border="0"> <tr> <td>DS1</td> <td>F07S-104</td> </tr> <tr> <td>DS2</td> <td>F07LA104 F07LA100</td> </tr> <tr> <td>DS3</td> <td>F07LA104 F07LA100 F07LB100 F07LB104 F07LA200</td> </tr> <tr> <td>DS4</td> <td>F07ZC104 F07ZB206 F07ZC100 F07LB200</td> </tr> <tr> <td>TM4</td> <td>F07ZC104 F07ZB206 F07ZC100 F07LB200</td> </tr> <tr> <td>TM5</td> <td>F09LA104 F09LB104 F10L-104 F11LB104 F11LA208 F09LA206 F09LB206 F10L-206 F11LB206 F11LB208 F09LA200 F09LB200 F10L-100 F11LB200 F11LC208 F09LA100 F09LB100 F10L-200 F11LB300 F09LA300 F09LB300 F10L-300 F11LB400</td> </tr> </table>	DS1	F07S-104	DS2	F07LA104 F07LA100	DS3	F07LA104 F07LA100 F07LB100 F07LB104 F07LA200	DS4	F07ZC104 F07ZB206 F07ZC100 F07LB200	TM4	F07ZC104 F07ZB206 F07ZC100 F07LB200	TM5	F09LA104 F09LB104 F10L-104 F11LB104 F11LA208 F09LA206 F09LB206 F10L-206 F11LB206 F11LB208 F09LA200 F09LB200 F10L-100 F11LB200 F11LC208 F09LA100 F09LB100 F10L-200 F11LB300 F09LA300 F09LB300 F10L-300 F11LB400																								
DS1	F07S-104																																							
DS2	F07LA104 F07LA100																																							
DS3	F07LA104 F07LA100 F07LB100 F07LB104 F07LA200																																							
DS4	F07ZC104 F07ZB206 F07ZC100 F07LB200																																							
TM4	F07ZC104 F07ZB206 F07ZC100 F07LB200																																							
TM5	F09LA104 F09LB104 F10L-104 F11LB104 F11LA208 F09LA206 F09LB206 F10L-206 F11LB206 F11LB208 F09LA200 F09LB200 F10L-100 F11LB200 F11LC208 F09LA100 F09LB100 F10L-200 F11LB300 F09LA300 F09LB300 F10L-300 F11LB400																																							
15	P		Flywheel (Travel gear primary shaft option)	<table border="0"> <tr> <td>F</td> <td>Flywheel included</td> </tr> <tr> <td>P</td> <td>Without flywheel</td> </tr> </table>	F	Flywheel included	P	Without flywheel																																
F	Flywheel included																																							
P	Without flywheel																																							
16	C	(TG05)	Secondary shaft type	<table border="0"> <tr> <td></td> <td></td> <td><u>TG05 value</u></td> <td></td> </tr> <tr> <td>B</td> <td>Spline shaft</td> <td>S</td> <td>DS2, DS3, DS4 (for CT e.c)</td> </tr> <tr> <td>B</td> <td>Hollow shaft w. Spline</td> <td>B</td> <td>TM4, TM5 (for CT, CH)</td> </tr> <tr> <td>U</td> <td>D30 + Keyway</td> <td>U</td> <td>DS3, DS4 (for UT16)</td> </tr> <tr> <td>C</td> <td>Plain</td> <td>C</td> <td>DS1, DS3, DS4 (for UT10/13 and C10/13/16)</td> </tr> <tr> <td>D</td> <td>Spline + Plain</td> <td>D</td> <td>DS2, DS4</td> </tr> <tr> <td>K</td> <td>Hollow shaft w. Keyway</td> <td>K</td> <td>TM5</td> </tr> <tr> <td>K</td> <td>D25 + Keyway</td> <td>K</td> <td>DS3, DS4</td> </tr> <tr> <td>L</td> <td>D25 + Keyway + Thread</td> <td>L</td> <td>DS3, DS4</td> </tr> </table>			<u>TG05 value</u>		B	Spline shaft	S	DS2, DS3, DS4 (for CT e.c)	B	Hollow shaft w. Spline	B	TM4, TM5 (for CT, CH)	U	D30 + Keyway	U	DS3, DS4 (for UT16)	C	Plain	C	DS1, DS3, DS4 (for UT10/13 and C10/13/16)	D	Spline + Plain	D	DS2, DS4	K	Hollow shaft w. Keyway	K	TM5	K	D25 + Keyway	K	DS3, DS4	L	D25 + Keyway + Thread	L	DS3, DS4
		<u>TG05 value</u>																																						
B	Spline shaft	S	DS2, DS3, DS4 (for CT e.c)																																					
B	Hollow shaft w. Spline	B	TM4, TM5 (for CT, CH)																																					
U	D30 + Keyway	U	DS3, DS4 (for UT16)																																					
C	Plain	C	DS1, DS3, DS4 (for UT10/13 and C10/13/16)																																					
D	Spline + Plain	D	DS2, DS4																																					
K	Hollow shaft w. Keyway	K	TM5																																					
K	D25 + Keyway	K	DS3, DS4																																					
L	D25 + Keyway + Thread	L	DS3, DS4																																					
17	A	TG07	Gearwheel on secondary shaft	<table border="0"> <tr> <td>-</td> <td>No gearwheel, for UC10...16 end carriages</td> </tr> <tr> <td>A</td> <td>for UT10...13 end carriages (UT10-OP6 Gearwheel)</td> </tr> <tr> <td>B</td> <td>for UT16 end carriages (LS13M-OP2 Gearwheel)</td> </tr> </table>	-	No gearwheel, for UC10...16 end carriages	A	for UT10...13 end carriages (UT10-OP6 Gearwheel)	B	for UT16 end carriages (LS13M-OP2 Gearwheel)																														
-	No gearwheel, for UC10...16 end carriages																																							
A	for UT10...13 end carriages (UT10-OP6 Gearwheel)																																							
B	for UT16 end carriages (LS13M-OP2 Gearwheel)																																							
18	5	(ELE03)	Frequency	<table border="0"> <tr> <td></td> <td></td> <td><u>ELE03 value</u></td> </tr> <tr> <td>5</td> <td>50 Hz</td> <td>50</td> </tr> <tr> <td>6</td> <td>60 Hz</td> <td>60</td> </tr> </table>			<u>ELE03 value</u>	5	50 Hz	50	6	60 Hz	60																											
		<u>ELE03 value</u>																																						
5	50 Hz	50																																						
6	60 Hz	60																																						
19-21	400	ELE01	Voltage	400 400 V etc.																																				
22	-		Special features	<table border="0"> <tr> <td>-</td> <td>Standard</td> <td>Q</td> <td>With Q plug system</td> </tr> <tr> <td>K</td> <td>with Modular Crane package</td> <td>S</td> <td>Q plug system including special properties</td> </tr> <tr> <td>E</td> <td>including special properties</td> <td></td> <td></td> </tr> </table>	-	Standard	Q	With Q plug system	K	with Modular Crane package	S	Q plug system including special properties	E	including special properties																										
-	Standard	Q	With Q plug system																																					
K	with Modular Crane package	S	Q plug system including special properties																																					
E	including special properties																																							



4 POWER SUPPLY PACKAGE PRODUCT CODE

4.1 Electrification Package

QQ	S	H	S	1	2	L	4	A	P4	20	105	-
1,2	3	4	BT03	6	(GE09)	DES01	(GE16)	(DIM03)	(HM01) (HM02)	(ELE01)	DIM18	18
1,2	3	4	5	6	7	8	9	10	11,12	13,14	15-17	18

Pos.	Code	Feature code	Feature	Available properties	
1,2	QQ		Crane layout	QQ Wire rope hoist, crane with moveable pendant QM Wire rope hoist, monorail system	XQ Chain hoist crane XM Chain hoist, monorail system
3	S		Type of power supply	S Festoon - Flat cables C Conductor rails	E NRGmaster (Energy chain electrification system; requires radio controls, WRH)
4	H		Power supply for	C Crane M Hoist and pendant P.B. control station	H Hoist P Pendant P.B. control station
5	S	BT03	Crane type	S Single girder, top running U Single girder, under running D Double girder	C Compact crane M Monorail hoist
6	1		Number of hoists	1 1 hoist/bridge 2 2 hoist/bridge 3 3 hoist/bridge	
7	2	(GE09)	Hoist frame size	0 SX1: ø243 mm rope drum 1 SX2/SX3: ø303 mm rope drum 2 SX4: ø355 mm rope drum 3 SX5: ø406 mm rope drum	<u>GE09 value</u> Z 4 SX6: ø608 mm rope drum A 5 SX7: ø608 mm drum + 2 motors B 7 Chain hoist frame size C D E 01, 05, 10, 16, 20, 25
8	L	DES01	Trolley type	L Low headroom trolley H Double girder trolley (high connection) M Double girder trolley (medium connection) W Double girder trolley (low connection) N Normal headroom trolley	F Fixed hoist J Special low headroom trolley V Machinery hoist X Special trolley
9	4	(GE16)	Main girder height	1...9 Height 100...900mm, e.g. 400 mm = 4 Note: Monorail = 9 -> Height > 900mm X Height > 900mm	e.g. GE16 value = 100...900
10	A	(DIM03)	Flange width (B-measure)	0 Double girder trolleys C 380...529 mm A 80...229 mm D 530...690 mm B 230...379 mm	e.g. DIM03 value = 80 (mm)
11,12	P4	(HM01) (HM02)	Hoisting motor type/size	<u>Hoisting motor type</u> P Pole change motor 6:1 (Q-hoist) T Inverter-duty motor (Q-hoist) A ASR inverter-duty motor (Q-hoist) S ESR Inverter-duty motor (Q-hoist) R Pole change motor 3:1 (Q-hoist) C Cast iron pole change motor (Q-hoist) E Ex-proof pole change motor (Q-hoist) O Single speed motor (Q-hoist) 1 Two-speed motor (chain hoist) 2 Single speed motor (chain hoist) 3 Inverter-duty motor (chain hoist) 4 Two-speed motor (chain hoist) - Undefined	<u>Hoisting motor size</u> X Nom. power 1.5 kW / 50 Hz 1 Nom. power 1.8 kW / 50 Hz Z Nom. power 2.5 kW / 50 Hz 2 Nom. power 3.6 kW / 50 Hz 3 Nom. power 4.5 kW / 50 Hz 4 Nom. power 7.5 kW / 50 Hz 5 Nom. power 9 kW / 50 Hz 6 Nom. power 15 kW / 50 Hz 7 Nom. power 18 kW / 50 Hz 8 Nom. power 23 kW / 50 Hz 9 Nom. power 28 kW / 50 Hz A Nom. power 35 kW / 50 Hz B Chain hoist: Nom. Power 0.5 kW / 50Hz A Chain hoist: Nom. Power 1.0 kW / 50Hz F 2 x 15 kW = 30 kW (MF13) H 2 x 18 kW = 36 kW (MF13) J 2 x 23 kW = 44 kW (MF13) K 2 x 28 kW = 56 kW (MF13) - Undefined
13,14	20	(ELE01)	Main voltage range	20 50 Hz: (U/10) - 20, Example (400 V / 10) - 20 = 20 76 60 Hz: (U/10) + 30, Example (460 V / 10) + 30 = 76	e.g. ELE01 value = 400 (V)
15-17	105	DIM18	Span/length of runway	<u>DIM18 value</u> 095 9.5 m 105 10.5 m	
18	-		Special properties	- Standard E Special	



5 CONTROL PANEL PRODUCT CODE

5.1 Bridge Panel for QX Crane Package (Wire Rope Hoist)

BP	P	2	-	2	2	2	4	V3	-	20	H	0
1-6	(HM01) 7	(HM02) 8	9	10	(TR01) 11	(BT01) 12	13	PE13 14-15	16	(ELE01) 17-18	(ELE02) 19	20

Pos.	Code	Feature code	Feature	Available properties																																																
1-6	BP		Product name	BP R&M																																																
7	P	(HM01)	Hoist motor type	<table border="0"> <tr> <td>P</td> <td>Pole change motor</td> <td>P</td> <td></td> </tr> <tr> <td>A</td> <td>ASR inverter-duty motor</td> <td>A</td> <td></td> </tr> <tr> <td>S</td> <td>ESR inverter-duty motor</td> <td>S</td> <td></td> </tr> <tr> <td>T</td> <td>Frequency converter motor</td> <td>T</td> <td></td> </tr> <tr> <td>R</td> <td>Pole change motor 3:1</td> <td>R</td> <td></td> </tr> <tr> <td>C</td> <td>Cast iron pole change motor</td> <td>C</td> <td></td> </tr> </table>	P	Pole change motor	P		A	ASR inverter-duty motor	A		S	ESR inverter-duty motor	S		T	Frequency converter motor	T		R	Pole change motor 3:1	R		C	Cast iron pole change motor	C																									
P	Pole change motor	P																																																		
A	ASR inverter-duty motor	A																																																		
S	ESR inverter-duty motor	S																																																		
T	Frequency converter motor	T																																																		
R	Pole change motor 3:1	R																																																		
C	Cast iron pole change motor	C																																																		
8	2	(HM02)	Motor power	<table border="0"> <tr> <td>X</td> <td>1.5 kW / 50 Hz</td> <td>X</td> <td>7</td> <td>18 kW / 50 Hz (MF13)</td> <td>7</td> </tr> <tr> <td>1</td> <td>1.8 kW / 50 Hz (MF10)</td> <td>1</td> <td>8</td> <td>23 kW / 50 Hz (MF13)</td> <td>8</td> </tr> <tr> <td>Z</td> <td>2.5 kW / 50 Hz</td> <td>Z</td> <td>9</td> <td>28 kW / 50 Hz (MF13)</td> <td>9</td> </tr> <tr> <td>2</td> <td>3.6 kW / 50 Hz (MF10)</td> <td>2</td> <td>A</td> <td>35 kW / 50 Hz (MF13)</td> <td>A</td> </tr> <tr> <td>3</td> <td>4.5 kW / 50 Hz (MF10)</td> <td>3</td> <td>F</td> <td>2 x 15 kW = 30 kW (MF13)</td> <td></td> </tr> <tr> <td>4</td> <td>7.5 kW / 50 Hz (MF11)</td> <td>4</td> <td>H</td> <td>2 x 18 kW = 36 kW (MF13)</td> <td></td> </tr> <tr> <td>5</td> <td>9 kW / 50 Hz (MF11)</td> <td>5</td> <td>J</td> <td>2 x 23 kW = 44 kW (MF13)</td> <td></td> </tr> <tr> <td>6</td> <td>15 kW / 50 Hz (MF13)</td> <td>6</td> <td>K</td> <td>2 x 28 kW = 56 kW (MF13)</td> <td></td> </tr> </table>	X	1.5 kW / 50 Hz	X	7	18 kW / 50 Hz (MF13)	7	1	1.8 kW / 50 Hz (MF10)	1	8	23 kW / 50 Hz (MF13)	8	Z	2.5 kW / 50 Hz	Z	9	28 kW / 50 Hz (MF13)	9	2	3.6 kW / 50 Hz (MF10)	2	A	35 kW / 50 Hz (MF13)	A	3	4.5 kW / 50 Hz (MF10)	3	F	2 x 15 kW = 30 kW (MF13)		4	7.5 kW / 50 Hz (MF11)	4	H	2 x 18 kW = 36 kW (MF13)		5	9 kW / 50 Hz (MF11)	5	J	2 x 23 kW = 44 kW (MF13)		6	15 kW / 50 Hz (MF13)	6	K	2 x 28 kW = 56 kW (MF13)	
X	1.5 kW / 50 Hz	X	7	18 kW / 50 Hz (MF13)	7																																															
1	1.8 kW / 50 Hz (MF10)	1	8	23 kW / 50 Hz (MF13)	8																																															
Z	2.5 kW / 50 Hz	Z	9	28 kW / 50 Hz (MF13)	9																																															
2	3.6 kW / 50 Hz (MF10)	2	A	35 kW / 50 Hz (MF13)	A																																															
3	4.5 kW / 50 Hz (MF10)	3	F	2 x 15 kW = 30 kW (MF13)																																																
4	7.5 kW / 50 Hz (MF11)	4	H	2 x 18 kW = 36 kW (MF13)																																																
5	9 kW / 50 Hz (MF11)	5	J	2 x 23 kW = 44 kW (MF13)																																																
6	15 kW / 50 Hz (MF13)	6	K	2 x 28 kW = 56 kW (MF13)																																																
9	-																																																			
10	2			Nbr of hoists on the bridge																																																
11	2	(TR01)	Trolley travel control	<table border="0"> <tr> <td>1</td> <td>1-speed</td> <td>1SP</td> <td>M</td> <td>Freq. control D2M mounted in bridge panel</td> <td>D2M</td> </tr> <tr> <td>2</td> <td>2-speed</td> <td>2SP</td> <td></td> <td></td> <td></td> </tr> <tr> <td>C</td> <td>Freq. control D2C mounted in bridge panel</td> <td>D2C</td> <td>N</td> <td>Freq. control D2M mounted on trolley</td> <td>D2M</td> </tr> <tr> <td>D</td> <td>Freq. control D2C mounted on trolley</td> <td>D2C</td> <td>Q</td> <td>Freq. control DMCS mounted on trolley</td> <td>DYD</td> </tr> </table>	1	1-speed	1SP	M	Freq. control D2M mounted in bridge panel	D2M	2	2-speed	2SP				C	Freq. control D2C mounted in bridge panel	D2C	N	Freq. control D2M mounted on trolley	D2M	D	Freq. control D2C mounted on trolley	D2C	Q	Freq. control DMCS mounted on trolley	DYD																								
1	1-speed	1SP	M	Freq. control D2M mounted in bridge panel	D2M																																															
2	2-speed	2SP																																																		
C	Freq. control D2C mounted in bridge panel	D2C	N	Freq. control D2M mounted on trolley	D2M																																															
D	Freq. control D2C mounted on trolley	D2C	Q	Freq. control DMCS mounted on trolley	DYD																																															
12	2	(BT01)	Bridge travel control	<table border="0"> <tr> <td>1</td> <td>1-speed</td> <td>1SP</td> <td>M</td> <td>Frequency control D2M</td> <td>D2M</td> </tr> <tr> <td>2</td> <td>2-speed</td> <td>2SP</td> <td>Q</td> <td>Frequency control DMCS</td> <td>DYD</td> </tr> <tr> <td>C</td> <td>Frequency control D2C</td> <td>D2C</td> <td></td> <td></td> <td></td> </tr> </table>	1	1-speed	1SP	M	Frequency control D2M	D2M	2	2-speed	2SP	Q	Frequency control DMCS	DYD	C	Frequency control D2C	D2C																																	
1	1-speed	1SP	M	Frequency control D2M	D2M																																															
2	2-speed	2SP	Q	Frequency control DMCS	DYD																																															
C	Frequency control D2C	D2C																																																		
13	4		Panel size	<table border="0"> <tr> <td>4</td> <td>Height 400 mm, depth 250 mm (EEC) *</td> <td>A</td> <td>Height 1000 mm, depth 350 mm (KA220) *</td> </tr> <tr> <td>6</td> <td>Height 600 mm, depth 250 mm (EEF) *</td> <td></td> <td></td> </tr> </table>	4	Height 400 mm, depth 250 mm (EEC) *	A	Height 1000 mm, depth 350 mm (KA220) *	6	Height 600 mm, depth 250 mm (EEF) *																																										
4	Height 400 mm, depth 250 mm (EEC) *	A	Height 1000 mm, depth 350 mm (KA220) *																																																	
6	Height 600 mm, depth 250 mm (EEF) *																																																			
14-15	V3	PE13	Selection of the hoists	<table border="0"> <tr> <td>V2</td> <td>Selection I or II, Two hoists controlled separately, one at time</td> <td>00</td> <td>Without selection</td> </tr> <tr> <td>V3</td> <td>Selection I, I+II, II, Two hoists controlled one at time or common controls (I+II)</td> <td>VE</td> <td>Special selection</td> </tr> </table>	V2	Selection I or II, Two hoists controlled separately, one at time	00	Without selection	V3	Selection I, I+II, II, Two hoists controlled one at time or common controls (I+II)	VE	Special selection																																								
V2	Selection I or II, Two hoists controlled separately, one at time	00	Without selection																																																	
V3	Selection I, I+II, II, Two hoists controlled one at time or common controls (I+II)	VE	Special selection																																																	
16	-																																																			
17-18	20	(ELE01)	Main voltage	<table border="0"> <tr> <td>20</td> <td>50 Hz: (Main voltage / 10) – 20 e.g. (400 V / 10) – 20 = 20</td> <td rowspan="2">e.g. ELE01 value = 400 (V)</td> </tr> <tr> <td>76</td> <td>60 Hz: (Main voltage / 10) + 30 e.g. (460 V / 10) + 30 = 76</td> </tr> <tr> <td></td> <td>etc.</td> <td></td> </tr> </table>	20	50 Hz: (Main voltage / 10) – 20 e.g. (400 V / 10) – 20 = 20	e.g. ELE01 value = 400 (V)	76	60 Hz: (Main voltage / 10) + 30 e.g. (460 V / 10) + 30 = 76		etc.																																									
20	50 Hz: (Main voltage / 10) – 20 e.g. (400 V / 10) – 20 = 20	e.g. ELE01 value = 400 (V)																																																		
76	60 Hz: (Main voltage / 10) + 30 e.g. (460 V / 10) + 30 = 76																																																			
	etc.																																																			
19	H	(ELE02)	Control voltage	<table border="0"> <tr> <td>H</td> <td>48 V</td> <td>48</td> <td>N</td> <td>230 V</td> <td>230</td> </tr> <tr> <td>J</td> <td>115 V</td> <td>115</td> <td></td> <td></td> <td></td> </tr> </table>	H	48 V	48	N	230 V	230	J	115 V	115																																							
H	48 V	48	N	230 V	230																																															
J	115 V	115																																																		
20	0		System features	<table border="0"> <tr> <td>0</td> <td>Standard BP</td> <td>E</td> <td>Special application</td> </tr> </table>	0	Standard BP	E	Special application																																												
0	Standard BP	E	Special application																																																	



5.2 Bridge Panel for QL Crane Package (Chain Hoist)

BP 1-6	1 (HM01) 7	1 (HM02) 8	- 9	1 10	Q (TR01) 11	Q (BT01) 12	4 13	00 PE13 14,15	- 16	76 (ELE01) 17,18	J (ELE02) 19	0 20
------------------	-------------------------	-------------------------	---------------	----------------	--------------------------	--------------------------	----------------	----------------------------	----------------	-------------------------------	---------------------------	----------------

Pos.	Code	Feature code	Feature	Available properties	
1-6	BP		Product name	BP R&M	
7	1	(HM01)	Hoist motor type	1 Two-speed motor 2 Single-speed motor (not used) 3 Inverter-duty motor	<u>HM01 value</u> 1 2 3
8	2	(HM02)	Motor power	C 1.0 kW / 1.3 hp / 60 Hz, C1/V1 motor 1 2.1 kW / 2.8 hp / 60 Hz, C2/V2 motor 3 4.2 kW / 5.6 hp / 60 Hz, C3/V2 motor	<u>HM02 value</u> C 1 3 Hoist Model – Motor type (two-speed/inverter) LM05 – C1/V1 motor LM10 – C2/V2 motor LM16 – C3/V3 motor LM20 – C3/V3 motor LM25 – C3/V3 motor
9	-				
10	1			Number of hoists on the bridge 1 – one hoist on bridge 2 – two hoist on bridge	
11	Q	(TR01)	Trolley travel control	N Freq. control D2M mounted on trolley Q Freq. control DMCS mounted on trolley	<u>TR01 value</u> D2M DYD
12	Q	(BT01)	Bridge travel control	1 1-speed 2 2-speed	<u>BT01 value</u> 1SP 2SP M Frequency control CM Select Q Frequency control CMXC D2M DYD
13	4		Panel size	4 Height 400 mm, depth 250 mm (EEC) * 6 Height 600 mm, depth 250 mm (EEF) *	A Height 1000 mm, depth 350 mm (KA220) *
14,15	00	PE13	Selection of the hoists	V2 Selection I or II, Two hoists controlled separately, one at a time V3 Selection I, I+II, II, Two hoists controlled, one at a time or common controls (I+II)	00 Without selection VE Special selection
16	-				
17,18	76	(ELE01)	Main voltage	20 50 Hz: (Main voltage / 10) – 20 e.g. (400 V/ 10) – 20 = 20 76 60 Hz: (Main voltage / 10) + 30 e.g. (460 V/ 10) + 30 = 76 53 60 Hz: (Main voltage / 10) + 30 e.g. (230 V/ 10) + 30 = 53 etc.	e.g. ELE01 value = 400 (V)
19	J	(ELE02)	Control voltage	H 48 V J 115 V	<u>ELE02 value</u> 48 115 N 230 V <u>ELE02 value</u> 230
20	0		System features	0 Standard BP	E Special application



6 CONTROL SYSTEM PRODUCT CODE

6.1 PBR Push Button Pendant

PB 1,2	R GE01 3	08 (PE11) 4,5	2 6	2 7	2 8	1 PE12 9	D (ELE44) 10	V3 PE13 11,12	-N 13,14	092 15-17	PE3 ELE16 18-20	0 21
------------------	-----------------------	----------------------------	---------------	---------------	---------------	-----------------------	---------------------------	----------------------------	--------------------	---------------------	------------------------------	----------------

Pos.	Code	Feature code	Feature	Available properties																												
1,2	PB		Product name	PB																												
3	R	GE01	Brand	R R&M																												
4,5	08	(PE11)	Pendant housing type	04 Housing with 4 (+1) holes for buttons on front, without plug connector for rising cable 08 Housing with 8 (+1) holes for buttons on front, with plug connector for rising cable 12 Housing with 12 (+1) holes for buttons on front, with plug connector for rising cable • (+1) = all models have possibility to mount one aux. device • all models have Emergency stop button as standard <u>PE11 value</u> PBQ04 PBQ08 PBQ12																												
6	2		Hoisting control type	2 2-step push button 1 1-step push button 0 Without hoisting buttons																												
7	2		Trolley travel control type	2 2-step push button 1 1-step push button 0 Without trolley travel buttons																												
8	2		Bridge travel control type	2 2-step push button 1 1-step push button 0 Without bridge travel buttons																												
9	1	PE12	Main contactor button function	0 No main contactor button, pendant without main contactor push-button 1 Main contactor, push button energizing main contactor. 2 Main contactor + horn, push-button energizing the main contactor and horn at the same time																												
10	D	(ELE44)	Direction symbols	<table border="0"> <tr> <td></td> <td style="text-align: center;"><u>ELE44 value</u></td> <td></td> <td style="text-align: center;"><u>ELE44 value</u></td> </tr> <tr> <td>D</td> <td>DIN and FEM standard</td> <td>DIN</td> <td>C ANSI standard (compass)</td> </tr> <tr> <td>F</td> <td>SFS standard (finnish)</td> <td>FIN</td> <td>L English letters</td> </tr> <tr> <td>S</td> <td>SIS standard (swedish)</td> <td>SEN</td> <td>E Special symbols</td> </tr> <tr> <td></td> <td></td> <td></td> <td>ANSI</td> </tr> <tr> <td></td> <td></td> <td></td> <td>ENG</td> </tr> <tr> <td></td> <td></td> <td></td> <td>SPEC</td> </tr> </table>		<u>ELE44 value</u>		<u>ELE44 value</u>	D	DIN and FEM standard	DIN	C ANSI standard (compass)	F	SFS standard (finnish)	FIN	L English letters	S	SIS standard (swedish)	SEN	E Special symbols				ANSI				ENG				SPEC
	<u>ELE44 value</u>		<u>ELE44 value</u>																													
D	DIN and FEM standard	DIN	C ANSI standard (compass)																													
F	SFS standard (finnish)	FIN	L English letters																													
S	SIS standard (swedish)	SEN	E Special symbols																													
			ANSI																													
			ENG																													
			SPEC																													
11,12	V3	PE13	Hoist selection switch function	V2 Selection I or II, Two hoists controlled separately, one at time V3 Selection I, I+II, II, Two hoists controlled one at time or common controls (I+II) 00 Without selection VE Special selection																												
13,14	-N		Aux device mounting	-N No auxiliary device -A Mounting plate for one extra button or switch -C HoistMonitor PLus DISPLAY																												
15-17	092		Rising cable length	Length is given from the bottom of the P.B. housing to the festoon C-rail 092 9.2 m 135 13.5 m 000 Without cable etc.																												
18-20	PE3	ELE16	Pendant cable top connector	PE1 Connector connected to the bridge panel (for back-up use) PE2 Connector connected to the hoist panel (monorail hoists) PE3 Connector connected to the festoon (moveable pendant) 000 Without connector																												
21	0		System features	0 Standard PBR K Key switch for ON/OFF E Special application																												



6.2 PD Push Button Pendant

PD	12	-	2	2	2	2	N	D	V3	-	092	P	0
1,2	3,4	5	6	7	8	PE12 9	PE15 10	(ELE44) 11	PE13 12,13	14	(PEN02) 15-17	(ELE16) 18	19

Pos.	Code	Feature code	Feature	Available properties	
1,2	PD		Product name	PD	
3,4	12		Type of housing	04 Housing with 4 holes for buttons on front 06 Housing with 6 holes for buttons on front	08 Housing with 8 holes for buttons on front 12 Housing with 12 holes for buttons on front
5	-				
6	2		Hoisting control type	1 1-step push-button 2 2-step push-button	0 Without hoisting buttons
7	2		Trolley travel control type	1 1-step push-button 2 2-step push-button	0 Without trolley travel buttons
8	2		Bridge travel control type	1 1-step push-button 2 2-step push-button	0 Without bridge travel buttons
9	2	PE12	Main contactor on button	1 Push-button for main contactor energizing 2 Push-button both main contactor energizing and horn	0 Without push-button for main contactor energizing and horn
10	N	PE15	Emergency stop	N Normal mushroom button	K Mushroom button with key for releasing
11	D	(ELE44)	Symbols	<u>ELE44 value</u> D DIN standard F Finnish standard S Swedish standard	<u>ELE44 value</u> C ANSI standard L English letters E Special symbols ANSI ENG SPEC
12,13	V3	PE13	Selection of the hoists	V2 Selection I or II V3 Selection I, I+II, II	00 Without selection VE Special selection
14	-				
15-17	092	(PEN02)	Rising cable length	092 9.2 meters 135 13.5 meters etc. 000 Without cable	Length is given from the bottom of the P.B. housing EITHER to the festoon C-rail (in case of moveable pendant) OR to the bottom of the hoist panel (in case of monorail hoist) PEN02 value = 9.2 m / 13.5 m etc.
18	P	(ELE16)	Connector on the top of the rising cable	<u>ELE16 value</u> P Plug connector for the festoon (Moveable pendant) 0 Without connector	<u>ELE16 value</u> H Connected to the hoist panel (monorail hoist) B Connected to bridge panel (for back-up use) PE2 PE1
19	0		System features	0 Standard PD	E Special application



6.3 RaCon Radio Control

RaCon	516	MI	0	S	0	TD	RP	CE	00	ST
1-5	REM10 6-8	REM11 9,10	11	12	13	(ELE44) 14,15	(ELE02) 16,17	REM12 18,19	REM13 20,21	22,23

Pos.	Code	Feature code	Feature	Available properties
1-5	RaCon		Product name	RaCon R&M brand name for REMOX
6-8	516	REM10	Receiver	510 8 relay outputs – for monorail hoists only 512 12 relay outputs – for cranes 516 16 relay outputs – for cranes 524 24 relay outputs - for cranes 736 36 relay outputs – for cranes 770 >36 relay outputs – for cranes
9,10	MI	REM11	Transmitter	QU max. 8 pcs. 2-step pushbuttons for 3 motions, light, horn MI max. 10 pcs. 2-step pushbuttons for 3 motions, light, horn M2 max. 8 pcs. 2-step pushbuttons for 3 motions, horn, display for condition monitoring EC 2 pcs. 2-step joysticks for 3 motions, light, horn (standard joystick) SP 2pcs. 2-step joysticks for 3 motions, light, horn (advanced joystick) S2 2 pcs. 2-step joysticks for 3 motions, light, horn, display for condition monitoring (adv. joystick) SA 2 pcs. analogue joysticks for 3 motions, light, horn (only with 736 receiver)
11	0		Infra-key system	I Included 0 Not included
12	S		Hoist selector switch	S Incl. with 3 positions (I, I+II, II) REM19 Value V3 T Incl. with 2 positions (I, II) V2 B Incl. With 3 positions (I, II, III) S3 A 3 positions (I, I+II, II) + Main VM K 7 positions (I, II, III, I+II, II+III, I+II+III) V7 0 Not included -
13	0		Auxiliary device	A Included (1 x ON, 2 x OFF) 0 Not included
14,15	TD	(ELE44)	Direction symbols	TD DIN and FEM standard DIN TF SFS standard FIN TS SIS standard SEN TC ANSI standard (compass) ANSI TL English letters ENG SS Special symbols SPEC
16,17	RP	(ELE02)	Receiver power supply	RP 48 V, 50/60 Hz 48 RT 115 V, 50/60 Hz 115 RV 230 V, 50/60 Hz 230 RX 48-230 V, 50/60 Hz
18,19	CE	REM12	Charger type	CE 230 V, 50/60 Hz euro plug CB 230 V, 50/60 Hz wires for local plug CU 115 V, 50/60 Hz USA plug
20,21	00	REM13	Tandem operation	00 No tandem operation T1 Single transmitter **) T2 Dual transmitter **) TM Master transmitter **) TS Slave transmitter CR Catch / Release
22,23	ST		System features	ST Standard RaCon system S2 Standard RaCon system with spare transmitter included SW Standard RaCon system with Sway Control W2 Standard RaCon system with Sway Control and spare transmitter SP Special application P2 Special application with spare transmitter Included SS Special application with Sway Control C2 Special application with Sway Control and spare transmitter

**) Crane selector switch is included.



6.4 RaCon Series II Radio Control

RaConII 1-7	R GE01 8	S11 9-11	0 12	TC (ELE44) 13,14	RT (ELE02) 15,16	CU REM12 17,18
-----------------------	-----------------------	--------------------	----------------	-------------------------------	-------------------------------	-----------------------------

Pos.	Code	Feature code	Feature	Available properties	
1-7	RaConII		Product name	RAD RaCon II is R&M's brand name for RAD	
8	R	GE01	Brand	R R&M	
9-11	S11		Type of housing	<u>Receiver for cranes</u> S11 For standard 1 hoist per crane F13 Like S11 + place for selector switch, display to read the HoistMonitor if supplied 900 BAND frequency	<u>Receiver for monorail hoists</u> H06 For electric wire rope hoist C06 For electric chain hoist 433 BAND or 900 BAND frequency Note: receiver is smaller in size than receiver for crane
12	0		Selector switch for hoist trolley	0 Without selector S Selector I, I+II, II	
13,14	TC	(ELE44)	Direction symbols	<u>ELE44 value</u> TD DIN and FEM standard DIN TF SFS standard FIN TS SIS standard SEN	<u>ELE44 value</u> TC ANSI standard (compass) ANSI TL English letters ENG SS Special symbols SPEC
15,16	RT	(ELE02)	Receiver power supply	<u>ELE02 value</u> RP 48 V 50/60 Hz 48 RT 115 V 50/60 Hz 115	<u>ELE02 value</u> RV 230 V 50/60 Hz 230
17,18	CU	REM12	Charger type	CE 230 V, 50/60 Hz European plug CB 230 V, 50/60 Hz local plug	CU 115 V, 50/60 Hz USA plug



7 TRAVELING INVERTER PRODUCT CODE

7.1 CMXC

CMXC (TR01) (BT01) 1-4	007 (ELE84) (ELE85) 5-7	F (ELE84) (ELE85) 8	10 9,10	P (ELE02) 11	0 ELE87 ELE88 12	0 ELE97 13
--	---	-------------------------------------	-------------------	---------------------------	----------------------------------	-------------------------

Pos.	Code	Feature code	Feature	Available properties		
1-4	CMXC	(TR01) (BT01)	Device name	<u>TR01/BT01 value</u> CMXC DYD		TR01 Type of trolley travel control BT01 Type of bridge travel control
5-7	007	(ELE84) (ELE85)	Power rating class	007 022 040 (obsolete)		ELE84 Trolley travel inverter power rating ELE85 Bridge travel inverter power rating
8	F	(ELE84) (ELE85)	Supply voltage	F 380 – 500 VAC, 50/60 Hz		Values are composed of two features, Power rating class and Supply voltage. e.g. 007F = ELE84/ELE85 value
9,10	10		Revision code	The latest revision may differ.		
11	P	(ELE02)	Control voltage	<u>ELE02 value</u> Y 42VAC, 50/60 Hz, only 040F P 48VAC, 50/60 Hz 48 T 115VAC, 50/60 Hz 115 V 230VAC, 50/60 Hz, only 040F 230		
12	0	ELE87 ELE88	Braking resistor type	N Standard, only 022 and 040F A Heavy duty, only 022F 0 No resistor, only 007F		ELE87 Trolley travel inverter braking resistor type ELE88 Bridge travel inverter braking resistor type
13	0	ELE97	EMC level	S Standard, without EMC filters (grounded network), only 040F N EMC, Second environment (grounded network), only 040F 0 IT network (non-grounded network)		



7.2 ControlMaster™ Select

CMST (TR01) (BT01) 1-4	007 (ELE84) (ELE85) 5-7	F (ELE84) (ELE85) 8	V (ELE02) 9	10 10,11	B 12	0 13	N ELE97 14
--	---	-------------------------------------	--------------------------	--------------------	----------------	----------------	-------------------------

Pos.	Code	Feature code	Feature	Available properties															
1-4	CMST	(TR01) (BT01)	Device name	<table border="0"> <tr> <td></td> <td style="text-align: right;"><u>TR01/BT01 value</u></td> <td></td> </tr> <tr> <td>CMST</td> <td>Control Master™ Select</td> <td>D2M</td> </tr> </table>		<u>TR01/BT01 value</u>		CMST	Control Master™ Select	D2M									
	<u>TR01/BT01 value</u>																		
CMST	Control Master™ Select	D2M																	
5-7	007	(ELE84) (ELE85)	Power rating class	<table border="0"> <tr> <td>002 – 022</td> <td></td> <td></td> </tr> </table>	002 – 022														
002 – 022																			
8	F	(ELE84) (ELE85)	Supply voltage	<table border="0"> <tr> <td>F</td> <td>380 – 500 VAC, 50/60 Hz</td> <td></td> </tr> </table>	F	380 – 500 VAC, 50/60 Hz													
F	380 – 500 VAC, 50/60 Hz																		
9	V	(ELE02)	Control voltage	<table border="0"> <tr> <td></td> <td colspan="2" style="text-align: center;"><u>ELE02 value</u></td> </tr> <tr> <td>Y</td> <td>42VAC, 50/60 Hz</td> <td></td> </tr> <tr> <td>P</td> <td>48VAC, 50/60 Hz</td> <td>48</td> </tr> <tr> <td>T</td> <td>115VAC, 50/60 Hz</td> <td>115</td> </tr> <tr> <td>V</td> <td>230VAC, 50/60 Hz</td> <td>230</td> </tr> </table>		<u>ELE02 value</u>		Y	42VAC, 50/60 Hz		P	48VAC, 50/60 Hz	48	T	115VAC, 50/60 Hz	115	V	230VAC, 50/60 Hz	230
	<u>ELE02 value</u>																		
Y	42VAC, 50/60 Hz																		
P	48VAC, 50/60 Hz	48																	
T	115VAC, 50/60 Hz	115																	
V	230VAC, 50/60 Hz	230																	
10,11	10		Revision code	The latest revision may differ.															
12	B		Braking resistor type	<table border="0"> <tr> <td>A</td> <td>External resistor, CMST 018 – 022 (002-004 as option)</td> </tr> <tr> <td>B</td> <td>Internal resistor, CMST 002 – 015</td> </tr> </table>	A	External resistor, CMST 018 – 022 (002-004 as option)	B	Internal resistor, CMST 002 – 015											
A	External resistor, CMST 018 – 022 (002-004 as option)																		
B	Internal resistor, CMST 002 – 015																		
13	0		Mounting	<table border="0"> <tr> <td>0</td> <td>Standard panel</td> </tr> <tr> <td>W</td> <td>Wall mounting, CMST 002 (003-004 as option)</td> </tr> </table>	0	Standard panel	W	Wall mounting, CMST 002 (003-004 as option)											
0	Standard panel																		
W	Wall mounting, CMST 002 (003-004 as option)																		
14	N	ELE97	EMC level	<table border="0"> <tr> <td>S</td> <td>Standard, without EMC filters (grounded network)</td> </tr> <tr> <td>N</td> <td>EMC, Second environment (grounded network)</td> </tr> <tr> <td>0</td> <td>IT network (non-grounded network)</td> </tr> </table>	S	Standard, without EMC filters (grounded network)	N	EMC, Second environment (grounded network)	0	IT network (non-grounded network)									
S	Standard, without EMC filters (grounded network)																		
N	EMC, Second environment (grounded network)																		
0	IT network (non-grounded network)																		



8 HOISTING INVERTER PRODUCT CODE

8.1 ControlMaster™ Plus

CMPH (HS01) 1-4	007 (ELE83) 5-7	F (ELE83) 8	V (ELE02) 9	51 10,11	A 12	0 13	N ELE97 14
------------------------------	------------------------------	--------------------------	--------------------------	--------------------	----------------	----------------	-------------------------

Pos.	Code	Feature code	Feature	Available properties
1-4	CMPH	(HS01)	Device name	<u>HS01 value</u> CMPH Control Master™ Plus – Hoisting D2L
5-7	007	(ELE83)	Power rating class	002 - 055 ELE83 values are composed of two features, Power rating class and Supply voltage. e.g. 007F = ELE83 value
8	F	(ELE83)	Supply voltage	F 380 – 500 VAC, 50/60 Hz
9	V	(ELE02)	Control voltage	<u>ELE02 value</u> Y 42VAC, 50/60 Hz P 48VAC, 50/60 Hz 48 T 115VAC, 50/60 Hz 115 V 230VAC, 50/60 Hz 230
10,11	51		Revision code	The latest revision may differ.
12	A		Braking resistor type	A External resistor
13	0		Mounting	0 Standard panel
14	N	ELE97	EMC level	S Standard, without EMC filters (grounded network) N EMC, Second environment (grounded network) 0 IT network (non-grounded network)



8.2 ControlMaster™ Elite

CMEH (HS01) (TR01/BT01) 1-4	007 (ELE83) (ELE84/ELE85) 5-7	F (ELE83) (ELE84/ELE85) 8	V (ELE02) 9	55 10,11	A 12	0 13	0 ELE97 14	1 15	0 16
---	---	---	--------------------------	--------------------	----------------	----------------	-------------------------	----------------	----------------

Pos.	Code	Feature code	Feature	Available properties																												
1-4	CMEH	(HS01) (TR01/BT01)	Device name	<table border="0"> <tr> <td></td> <td></td> <td><u>HS01</u></td> <td></td> </tr> <tr> <td></td> <td></td> <td><u>TR01/BT01 value</u></td> <td></td> </tr> <tr> <td>CMEH</td> <td>Hoisting inverter</td> <td>D2H</td> <td>HS01 Type of hoist control (D2H)</td> </tr> <tr> <td>CMET</td> <td>Travelling inverter</td> <td>D2C</td> <td>TR01 Type of trolley travel control / BT01 Type of bridge travel control (D2C)</td> </tr> </table>			<u>HS01</u>				<u>TR01/BT01 value</u>		CMEH	Hoisting inverter	D2H	HS01 Type of hoist control (D2H)	CMET	Travelling inverter	D2C	TR01 Type of trolley travel control / BT01 Type of bridge travel control (D2C)												
		<u>HS01</u>																														
		<u>TR01/BT01 value</u>																														
CMEH	Hoisting inverter	D2H	HS01 Type of hoist control (D2H)																													
CMET	Travelling inverter	D2C	TR01 Type of trolley travel control / BT01 Type of bridge travel control (D2C)																													
5-7	007	(ELE83) (ELE84/ELE85)	Power rating class	<table border="0"> <tr> <td>002 - 132</td> <td></td> <td></td> <td>ELE83 Hoisting inverter power rating</td> </tr> <tr> <td></td> <td></td> <td></td> <td>ELE84 Trolley travel inverter power rating</td> </tr> <tr> <td></td> <td></td> <td></td> <td>ELE85 Bridge travel inverter power rating</td> </tr> </table>	002 - 132			ELE83 Hoisting inverter power rating				ELE84 Trolley travel inverter power rating				ELE85 Bridge travel inverter power rating																
002 - 132			ELE83 Hoisting inverter power rating																													
			ELE84 Trolley travel inverter power rating																													
			ELE85 Bridge travel inverter power rating																													
8	F	(ELE83) (ELE84/ELE85)	Supply voltage	<table border="0"> <tr> <td>F</td> <td>380 – 500 VAC, 50/60 Hz</td> <td></td> <td>ELE83, ELE84/ELE85 values are composed of two features, Power rating class and Supply voltage.</td> </tr> <tr> <td></td> <td></td> <td></td> <td>e.g. 007F = ELE83/84/85 value</td> </tr> </table>	F	380 – 500 VAC, 50/60 Hz		ELE83, ELE84/ELE85 values are composed of two features, Power rating class and Supply voltage.				e.g. 007F = ELE83/84/85 value																				
F	380 – 500 VAC, 50/60 Hz		ELE83, ELE84/ELE85 values are composed of two features, Power rating class and Supply voltage.																													
			e.g. 007F = ELE83/84/85 value																													
9	V	(ELE02)	Control voltage	<table border="0"> <tr> <td></td> <td></td> <td><u>ELE02 value</u></td> <td></td> </tr> <tr> <td>Y</td> <td>42VAC, 50/60 Hz</td> <td></td> <td></td> </tr> <tr> <td>P</td> <td>48VAC, 50/60 Hz</td> <td>48</td> <td></td> </tr> <tr> <td>T</td> <td>115VAC, 50/60 Hz</td> <td>115</td> <td></td> </tr> <tr> <td>V</td> <td>230VAC, 50/60 Hz</td> <td>230</td> <td></td> </tr> </table>			<u>ELE02 value</u>		Y	42VAC, 50/60 Hz			P	48VAC, 50/60 Hz	48		T	115VAC, 50/60 Hz	115		V	230VAC, 50/60 Hz	230									
		<u>ELE02 value</u>																														
Y	42VAC, 50/60 Hz																															
P	48VAC, 50/60 Hz	48																														
T	115VAC, 50/60 Hz	115																														
V	230VAC, 50/60 Hz	230																														
10,11	55		Revision code	The latest revision may differ.																												
12	A		Braking resistor type	<table border="0"> <tr> <td>A</td> <td>External resistor</td> <td></td> <td></td> </tr> <tr> <td>B</td> <td>Internal resistor (included only CMET up to 015F)</td> <td></td> <td></td> </tr> </table>	A	External resistor			B	Internal resistor (included only CMET up to 015F)																						
A	External resistor																															
B	Internal resistor (included only CMET up to 015F)																															
13	0		Mounting	0 Standard panel																												
14	0	ELE97	EMC level	<table border="0"> <tr> <td>0</td> <td>Unlimited (non EU-area or non-grounded network)</td> <td></td> <td></td> </tr> <tr> <td>N</td> <td>Limited (EU-area, grounded network)</td> <td></td> <td></td> </tr> </table>	0	Unlimited (non EU-area or non-grounded network)			N	Limited (EU-area, grounded network)																						
0	Unlimited (non EU-area or non-grounded network)																															
N	Limited (EU-area, grounded network)																															
15	1		Boards	<table border="0"> <tr> <td></td> <td></td> <td><u>Reserved board slots</u></td> <td></td> </tr> <tr> <td>0</td> <td>Standard</td> <td>A, B, D</td> <td></td> </tr> <tr> <td>1</td> <td>Standard with speed supervision</td> <td>A, B, C, D</td> <td></td> </tr> <tr> <td>2</td> <td>Profibus</td> <td>A, B, D, E</td> <td></td> </tr> <tr> <td>3</td> <td>Profibus with speed supervision</td> <td>A, B, C, D, E</td> <td></td> </tr> <tr> <td>8</td> <td>Relay</td> <td>A, B, D, E</td> <td></td> </tr> <tr> <td>9</td> <td>Relay with speed supervision</td> <td>A, B, C, D, E</td> <td></td> </tr> </table>			<u>Reserved board slots</u>		0	Standard	A, B, D		1	Standard with speed supervision	A, B, C, D		2	Profibus	A, B, D, E		3	Profibus with speed supervision	A, B, C, D, E		8	Relay	A, B, D, E		9	Relay with speed supervision	A, B, C, D, E	
		<u>Reserved board slots</u>																														
0	Standard	A, B, D																														
1	Standard with speed supervision	A, B, C, D																														
2	Profibus	A, B, D, E																														
3	Profibus with speed supervision	A, B, C, D, E																														
8	Relay	A, B, D, E																														
9	Relay with speed supervision	A, B, C, D, E																														
16	0		Special	<table border="0"> <tr> <td>0</td> <td>None</td> <td></td> <td></td> </tr> <tr> <td>L</td> <td>Varnished boards</td> <td></td> <td></td> </tr> </table>	0	None			L	Varnished boards																						
0	None																															
L	Varnished boards																															



9 ELECTRIC CHAIN HOIST PRODUCT CODE

9.1 LoadMate® Electric Chain Hoist / Stagemaker® Concert Hoist

LM	05	050	010	M	16	T	2	C	I	4	D	075	S	G	T
1,2	GE09 3,4	5-7	8-10	11	12,13	14	15	(ELE01) (ELE03) 16	17	18	19	20-22	23	RR11 24	25

0	0	0	0	0	0	000	0	0	0	0	0	#...#	0	0
26	27	28	29	30	31	32-34	35	36	37	38	39	40-48	49	50

Pos.	Code	Feature code	Feature	Available properties	
1,2	LM		Brand	LM R&M LoadMate®	SM Stagemaker®
3,4	05	GE09	Frame	01 05	10 16 20 25
5-7	050		Capacity	<u>Code</u> 012 125 kg, 1/8 ton 025 250 kg, 1/4 ton 050 500 kg, 1/2 ton 075 750 kg, 3/4 ton	<u>Code</u> 100 1000 kg, 1 ton 150 1500 kg, 1 1/2 ton 200 2000 kg, 2 ton 250 2500 kg, 2 1/2 ton
8-10	010		Lift	010 Foot increments	01 1 fall – 010 to 096 05/10/16/20/25 1 fall – 010 to 150 2 fall – 010 to 046 2 fall – 010 to 075
11	M		Suspension	T Top Hook L Lug Mount	P Push Trolley H Hand Geared Trolley M Motorized Trolley
12,13	16	(SPD03)	Lift speed	08 12	16 24 32 64
High speed to low speed = 4:1					
14	T	(HS01)	Hoist speed control	S Single speed T Two speed	I Stepless Inverter (VFD) C Programmable Control D Direct Control (SM Config. A only) M Single speed (SM Config. B only)
15	2		Number of falls	1 1 fall	2 2 falls
16	C	(ELE01) (ELE03)	Voltage	A 208/3/60 B 230/3/60	C 460/3/60 D 575/3/60 E 115/1/60 F 380/3/50
For example: ELE01 value = 208 / 230 / 460 (V), ELE03 value = 50 / 60 (Hz)					
17	I		Trolley control code	T Two speed I Inverter controlled trolley	80/20 FPM (Two speed) 65/16 FPM Multi-step 0 No motorized trolley
18	4		Beam Flange code	<u>Code</u> 1 2.28 - 3.94 2 4.17 - 5.90 3 6.10 - 7.87 4 8.11 - 9.76 5 10.23 - 12.09 <u>Code</u> RPT Trolley 6 1.97 - 7.87" 7 7.88 - 12.20" 0 No trolley	<u>C-1 Trolley</u> 2.28 - 3.94 4.17 - 5.90 6.10 - 7.87 8.11 - 9.76 10.23 - 12.20 <u>C-2 Trolley</u> 2.52 - 4.96 5.16 - 7.48 7.79 - 9.76 N/A <u>C-3 Trolley</u> 3.23 - 5.39 5.39 - 7.48 7.79 - 9.76 N/A <u>C-5 Trolley</u> 3.23 - 4.33 4.45 - 5.90 6.10 - 7.87 8.11 - 9.76 10.23 - 12.20
19	D		Pendant code	A 1 speed hoist only B 2 speed hoist only C 1 speed hoist + 2 speed trolley D 2 speed hoist + 2 speed trolley E 1 speed hoist + 2 speed trolley + 1 speed bridge F 2 speed hoist + 2 speed trolley + 1 speed bridge G 1 speed hoist + 2 speed trolley + 2 speed bridge H 2 speed hoist + 2 speed trolley + 2 speed bridge I 1 speed hoist + 1 speed bridge J 2 speed hoist + 1 speed bridge	K 1 speed hoist + 1 speed trolley L 2 speed hoist + 1 speed trolley M 1 speed hoist + 2 speed bridge N 2 speed hoist + 2 speed bridge O P/B Drop (6'0") less P/B P Pickle – no connector Q Pickle – with Hubble connector Z Digichain 0 Omit Push Button totally
20-22	075	(PEN02)	Pendant height of lift (feet)	001 - foot increments - equals HOL - actual pendant length = 2.5' < HOL	
23	S		Suspension	A Articulating I Inverted	L Low headroom S Standard X Cross mount
24	G	RR11	Chain type	B Black G Electro-zinc plated	S Stainless steel



25	T		Units	T	Short tons	K	Kilograms
26	0		Pigtails	A	QL Crane Kit	J	Power / Control and Control Pigtails (7 pin and Twist lock plugs)
				B	Power Pigtail (no plug)	K	Power Pigtail (Edison plug)
				C	Power / Control Pigtail (no plug)	L	Power and Control Pigtails (Edison plug and Twist lock plug)
				D	Power and Control Pigtails (no plugs)	M	Power / Control Pigtail (14 pin plug)
				E	Power / Control and Control Pigtails (no plugs)	N	Power / Control and Control Pigtails (14 pin and Twist lock plugs)
				F	Power Pigtail (CE plug)	0	No pigtails
				G	Power Pigtail (Twist lock plug)		
				H	Power / Control Pigtail (7 pin plug)		
				I	Power and Control Pigtails (Twist lock plugs)		
27	0		Safety hooks	B	Bullard hook	0	Standard hook
				P	Positive action hook		
28	0		Second brake	B	Second brake	0	Standard hoist brake
29	0		Electrical options	C	Hour counter	N	Hour counter + Horn
				F	Flat cable connector	O	Flat cable connector + Horn
				H	Horn	P	Hour counter + Flat cable connector + Horn
				M	Hour counter + Flat cable connector	0	No electrical options
30	0		Hoist limits	G	Geared limit switch	0	No geared limit switch
31	0		Radio control	R	Radio control	0	No radio control
32-34	000		Hand geared trolley height of lift (feet)	001 - foot increments - equals HOL - actual hand chain length = 4' < HOL			
35	0		Trolley options	0	No trolley options	U	Trolley travel limits + Patented track wheels
				L	Trolley travel limits	V	Trolley travel limits + Thermal protection
				P	Patented track wheels	W	Patented track wheels + Thermal protection
				T	Thermal protection	X	Trolley travel limits + Patented track wheels + Thermal protection
36	0		Rain covers	0	No rain covers	D	Polymer hoist rain cover + Metallic trolley cover
				A	Polymer hoist rain cover	E	Metallic hoist and trolley cover
				B	Metallic hoist rain cover	F	Polymer hoist cover and metallic hoist and trolley cover
				C	Metallic trolley cover		
37	0		Outdoor additional	0	No outdoor options	A	Seal electrical enclosure + power pigtail + mating connector
38	0		Food grade additional	0	No Food grade additional	A	Food grade lubricant in gearcase
				B	Food grade lubricant on chain	C	Food grade lubricant in gearcase + Food grade lubricant on chain
39	0		Stainless steel adders	A	Stainless steel bottom hook	C	Stainless steel bottom hook + Stainless steel bottom block
				B	Stainless steel bottom block		
40-48	#...#		Future options				
49	#	(DOC01)	Language	<u>DOC01 value</u>		<u>DOC01 value</u>	
				E	English	EN	P Portuguese
				F	French	FR	S Spanish
							PO
							SP
50	#		Normal/Special	N	Normal order	E	Special order



10 WHEEL BLOCK PRODUCT CODE

10.1 Wheel Block

WB	-	R	160	G3	S3	R	N	065	M	H	S	
1-2	3	4	5-7	8-9	10-11	12	13	14-16	17	18	19	20-25

Pos.	Code	Feature code	Feature	Available properties	
1-2	WB	(GE19)	Product name	WB	
3	-				
4	R	(GE01)	Brand	R	R&M
5-7	160	(WHE01)	Wheel diameter	Dia. 125 mm 160 mm 200 mm	Dia. 250 mm 315 mm 400 mm
8-9	G3		Gear type	<u>Code</u> G3 G4 G5 0	<u>Gear</u> GES3 GES4 GES5 No gear
10-11	S3		Shaft size	<u>Code</u> S1 S2 S3 00	<u>Description</u> GES5 gear + 400 mm diameter wheel GES4 / GES5 gear + 250 mm / 315 mm diameter wheel GES3 + 125 mm diameter wheel; GES3 / GES4 + 160 mm / 200 mm diameter wheel No shaft on gear
12	R	(BT42)	Design for drive	<u>Code</u> R L N	<u>Description</u> Right handed Left handed No gear
13	N		WB equipment	<u>Code</u> N G A B	<u>Description</u> Normal with flanges Flangeless with guide rollers Flangeless with anti-derail device Normal with anti-derail device
14-16	065	(BT08) or (BT30)	Wheel groove or rail width	<u>Groove</u> 050-060 052-072 054-074 054-084 064-094 075-115	<u>Wheel diameter, rail width, base gap</u> D125, rail width 40-50, gap 10 mm D160, rail width 40-60, gap 12 mm D200, rail width 40-60, gap 14 mm D250, rail width 40-70, gap 14 mm D315, rail width 50-80, gap 14 mm D400, rail width 60-100, gap 15 mm
17	M	(DES09)	Buffer code	<u>Buffer</u> G M H I	<u>Specification</u> PUR buffer D100x100 mm PUR buffer D125x125 mm PUR buffer D160x160 mm PUR buffer D200x200 mm
18	H	(BT41)	Mounting connection	<u>Code</u> H W I S A	<u>Description</u> Head connection Welded connection Inserted connection Bolted connection Affixed connection
19	S			N S	Normal Special, like guide rollers or anti derail device
20-25		DES11	Rail type	Needed for guide rollers or anti derail device	

If digit 13 = N, then give wheel groove width for digits 14-16. Digits 20-25 not needed.

If digit 13 = G (with guide rollers) or digit 13 = A (with anti-derail device), use flangeless wheels and give rail width for digits 14-16 and rail type for digits 20-25.

If digit 13 = B (with anti-derail device) and wheel groove is possible, give wheel groove width for digits 14-16 and rail type for digits 20-25.



10.2 Wheel Block Electrics

WBE	2	1	460	115	6	2
1-3	4	5	6-8	9-11	12	13

Pos.	Code	Feature code	Feature	Available properties																																				
1-3	WBE	(GE19)	Product name	Wheel block electrics																																				
4	2	(BT01) (ELE85)	Control type	<table border="1"> <thead> <tr> <th></th> <th></th> <th><u>BT01 value</u></th> <th><u>ELE85 value</u></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2-speed</td> <td>2SP</td> <td>-</td> </tr> <tr> <td>2</td> <td>CMXC022</td> <td>DYD</td> <td>022F</td> </tr> <tr> <td>3</td> <td>CM Select 003</td> <td>D2M</td> <td>003F</td> </tr> <tr> <td>4</td> <td>CM Select 004</td> <td>D2M</td> <td>004F</td> </tr> <tr> <td>5</td> <td>CM Select 005</td> <td>D2M</td> <td>005F</td> </tr> <tr> <td>6</td> <td>CM Select 007</td> <td>D2M</td> <td>007F</td> </tr> <tr> <td>7</td> <td>CM Select 011</td> <td>D2M</td> <td>011F</td> </tr> <tr> <td>8</td> <td>CM Select 015</td> <td>D2M</td> <td>015F</td> </tr> </tbody> </table>			<u>BT01 value</u>	<u>ELE85 value</u>	1	2-speed	2SP	-	2	CMXC022	DYD	022F	3	CM Select 003	D2M	003F	4	CM Select 004	D2M	004F	5	CM Select 005	D2M	005F	6	CM Select 007	D2M	007F	7	CM Select 011	D2M	011F	8	CM Select 015	D2M	015F
		<u>BT01 value</u>	<u>ELE85 value</u>																																					
1	2-speed	2SP	-																																					
2	CMXC022	DYD	022F																																					
3	CM Select 003	D2M	003F																																					
4	CM Select 004	D2M	004F																																					
5	CM Select 005	D2M	005F																																					
6	CM Select 007	D2M	007F																																					
7	CM Select 011	D2M	011F																																					
8	CM Select 015	D2M	015F																																					
5	1	(PAN05)	Panel	<table border="1"> <thead> <tr> <th></th> <th><u>Panel size (H x W x D)</u></th> <th><u>PAN05 value</u></th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Without panel</td> <td>-</td> </tr> <tr> <td>1</td> <td>400 mm x 400 mm x 250 mm</td> <td>40*40*25</td> </tr> <tr> <td>2</td> <td>400 mm x 600 mm x 250 mm</td> <td>40*60*25</td> </tr> <tr> <td>3</td> <td>600 mm x 1000 mm x 300 mm</td> <td>100*60*30</td> </tr> <tr> <td>4</td> <td>1000 mm x 1000 mm x 320 mm</td> <td>100*100*32</td> </tr> </tbody> </table>		<u>Panel size (H x W x D)</u>	<u>PAN05 value</u>	0	Without panel	-	1	400 mm x 400 mm x 250 mm	40*40*25	2	400 mm x 600 mm x 250 mm	40*60*25	3	600 mm x 1000 mm x 300 mm	100*60*30	4	1000 mm x 1000 mm x 320 mm	100*100*32																		
	<u>Panel size (H x W x D)</u>	<u>PAN05 value</u>																																						
0	Without panel	-																																						
1	400 mm x 400 mm x 250 mm	40*40*25																																						
2	400 mm x 600 mm x 250 mm	40*60*25																																						
3	600 mm x 1000 mm x 300 mm	100*60*30																																						
4	1000 mm x 1000 mm x 320 mm	100*100*32																																						
6-8	460	(ELE01)	Main voltage	<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Value</u></th> </tr> </thead> <tbody> <tr> <td>400</td> <td>400</td> </tr> <tr> <td>460</td> <td>460</td> </tr> </tbody> </table>	<u>Code</u>	<u>Value</u>	400	400	460	460																														
<u>Code</u>	<u>Value</u>																																							
400	400																																							
460	460																																							
9-11	115	(ELE02)	Control voltage	<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Value</u></th> </tr> </thead> <tbody> <tr> <td>048</td> <td>48</td> </tr> <tr> <td>115</td> <td>115</td> </tr> </tbody> </table>	<u>Code</u>	<u>Value</u>	048	48	115	115																														
<u>Code</u>	<u>Value</u>																																							
048	48																																							
115	115																																							
12	6	(ELE03)	Frequency	<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Value</u></th> </tr> </thead> <tbody> <tr> <td>5</td> <td>50</td> </tr> <tr> <td>6</td> <td>60</td> </tr> </tbody> </table>	<u>Code</u>	<u>Value</u>	5	50	6	60																														
<u>Code</u>	<u>Value</u>																																							
5	50																																							
6	60																																							
13	2	(DES26)	Number of drives	<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Value</u></th> </tr> </thead> <tbody> <tr> <td>2</td> <td>2</td> </tr> <tr> <td>4</td> <td>4</td> </tr> </tbody> </table>	<u>Code</u>	<u>Value</u>	2	2	4	4																														
<u>Code</u>	<u>Value</u>																																							
2	2																																							
4	4																																							