

Product Code Descriptions

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





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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
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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> 022 042 062 082
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
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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	14 140 mm
5	-		Description	- Standard	C Asymmetrical joint with single girder
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																																																																																																
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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)
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(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 RH	R&M end truck series; Platform series (UU); I-beam truck frame R&M end truck series; Platform series (UR); U-shape truck frame
3,4	08		Wheel diameter	08 10 13 20	80 mm 100 mm 125 mm 200 mm
5	-		Description	- B C	Standard Bogie Asymmetrical joint for single girder
6,7	23		Wheelbase	Wheel base dimension 12 14 18 23 28 32 35 40	Applicable end truck RU08, RU10, RU13 RU08, RU10, RU13, RH10, RH13 RU08, RU10, RU13, RU20, RH10, RH13 RU08, RU10, RU13, RU20, RH10, RH13 RU10, RU13, RU20, RH13 RU10, RU13, RU20, RH13 RU20
8-10	080		Runway flange width	Code 073-313 083-322 100-343 127-418	Flange width range, applicable end truck 73-313 mm, RU08 (63...158 mm special flange range with patented track wheels) 83-322 mm, RU10, RH10 (61...157 mm flange range with patented track wheels) 100-343 mm, RU13, RH13 (61...223 mm flange range with patented track wheels) 127-418 mm, RU20 (No patented track wheels available for RU20)
11	-		Number of bridge drives	- D S D	One drive / end truck Two drives / end truck One drive / bogie truck Two drives / bogie truck
12-14	SA3		Joint type	Code SA3 SB4 SC4 SC5 SD3 SD4 SD5 HB4 HC3 HC4 HC5	Bolted joint connection with joint plate 4-bolt connection, M16 bolt (flange width < 300mm) 4-bolt connection, M20 bolt (flange width < 410mm) 8-bolt connection, M20 bolt (flange width < 410mm) 8-bolt connection, M20 bolt (flange width < 510 mm) 12-bolt connection, M20 bolt (flange width < 310 mm) 12-bolt connection, M20 bolt (flange width < 410mm) 12-bolt connection, M20 bolt (flange width < 510mm) 4-bolt connection, M20 bolt (flange width < 410mm) 8-bolt connection, M20 bolt (flange width < 310 mm) 8-bolt connection, M20 bolt (flange width < 310 mm) 8-bolt connection, M20 bolt (flange width < 510 mm) Applicable end truck RU08 RU10 RU13 RU13 RU20 RU20 RU20 RH10 RH13 RH13 RH13
				Code BA1 BA2 BA3 BB2 BB3 BB4 BB5 BC3 BC4 BC5 BD3 BD4 BD5 KBx KCx	Bolted joint connection without joint plate 4-bolt connection, M16 bolt (flange width < 203mm) 4-bolt connection, M16 bolt (flange width < 253mm) 4-bolt connection, M16 bolt (flange width < 320mm) 4-bolt connection, M20 bolt (flange width < 265mm) 4-bolt connection, M20 bolt (flange width < 315mm) 4-bolt connection, M20 bolt (flange width < 415mm) 4-bolt connection, M20 bolt (flange width < 450mm) 8-bolt connection, M20 bolt (flange width < 315mm) 8-bolt connection, M20 bolt (flange width < 415mm) 8-bolt connection, M20 bolt (flange width < 450mm) 12-bolt connection, M20 bolt (flange width < 400mm) 12-bolt connection, M20 bolt (flange width < 500mm) 12-bolt connection, M20 bolt (flange width < 600mm) 4-bolt connection, M20 bolt 8-bolt connection, M20 bolt Applicable end truck RU08, x=1 RU08, x=2 RU08, x=3 RU10, x=2 RU10, x=3 RU10, x=4 RU10, x=5 RU13, x=3 RU13, x=4 RU13, x=5 RU20, x=3 RU20, x=4 RU20, x=5 RH10, x=2, 3, 4, 5 RH13, x=3, 4, 5 x: defines bolt layout & max flange width Refer to RU & RH end truck technical guide
				Code WA_ WB_ WC_	Welded without joint plate RU08 RU10 RU13



				Code 000	Special joint Special joint –design by the crane builder	Applicable end truck 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 RU10, RH10 RU13, RH13 RU20	A, B, C, K, G, E A, B, C, K, G, E A, B, C, D, K, G, E, M, F A, B, C, D, K, G, E, M, F, H, P	A, B, C, D K, G, E, M, F, H, P 0 Rubber buffers Polyurethane buffers No buffer
20-23	0000		Bogie inner wheel distance	0000	Standard, (Not a bogie end truck configuration)	
24	-		Color code	- K	Standard primary paint Standard finishing paint	
25	N		Special properties	N E	Standard 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	<table border="0"> <tr> <td>K</td> <td>Specific Trolley Drive (WRH)</td> <td>S</td> <td>Solid shaft</td> </tr> <tr> <td>L</td> <td>Specific Trolley Drive (ECH)</td> <td>T</td> <td>Reserved</td> </tr> <tr> <td>M</td> <td>Hollow shaft</td> <td>N</td> <td>Reserved</td> </tr> </table>	K	Specific Trolley Drive (WRH)	S	Solid shaft	L	Specific Trolley Drive (ECH)	T	Reserved	M	Hollow shaft	N	Reserved
K	Specific Trolley Drive (WRH)	S	Solid shaft													
L	Specific Trolley Drive (ECH)	T	Reserved													
M	Hollow shaft	N	Reserved													
4	1		Machinery size (Torque Range)	<table border="0"> <tr> <td>1</td> <td>0 Nm < T₂ < 50 Nm</td> <td>4</td> <td>100 Nm < T₂ < 800 Nm</td> </tr> <tr> <td>2</td> <td>16 Nm < T₂ < 125 Nm</td> <td>5</td> <td>250 Nm < T₂ < 2000 Nm</td> </tr> <tr> <td>3</td> <td>40 Nm < T₂ < 320 Nm</td> <td>6</td> <td>630 Nm < T₂ < 5000 Nm</td> </tr> </table>	1	0 Nm < T ₂ < 50 Nm	4	100 Nm < T ₂ < 800 Nm	2	16 Nm < T ₂ < 125 Nm	5	250 Nm < T ₂ < 2000 Nm	3	40 Nm < T ₂ < 320 Nm	6	630 Nm < T ₂ < 5000 Nm
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5,6	06		Ratio code	<table border="0"> <tr> <td>01... ...99... ...H9</td> <td>1st mark: 0, 1, 2 ... 9, A (=10), B(=11),... 2nd mark: 0, 1, 2 ... 9 e.g. A0≅100, B0≅110, G5≅165, etc.</td> </tr> </table>	01... ...99... ...H9	1 st mark: 0, 1, 2 ... 9, A (=10), B(=11),... 2 nd mark: 0, 1, 2 ... 9 e.g. A0≅100, B0≅110, G5≅165, etc.										
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8	T	TG05	Secondary shaft type	<table border="0"> <tr> <td>T</td> <td>Driving Pinion</td> <td>D</td> <td>Spline + Plain</td> </tr> <tr> <td>K</td> <td>Keyway</td> <td>E</td> <td>Reserved (Special)</td> </tr> <tr> <td>S</td> <td>Spline</td> <td></td> <td></td> </tr> </table>	T	Driving Pinion	D	Spline + Plain	K	Keyway	E	Reserved (Special)	S	Spline		
T	Driving Pinion	D	Spline + Plain													
K	Keyway	E	Reserved (Special)													
S	Spline															
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	<table border="0"> <tr> <td>F</td> <td>Motor type code (B, F, T, etc.)</td> </tr> <tr> <td>06</td> <td>Frame size (e.g. 06, 07...)</td> </tr> <tr> <td>M</td> <td>Stator length (S, M, L, Z, E)</td> </tr> <tr> <td>A</td> <td>Power code (A, B, C...)</td> </tr> </table>	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...)				
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17-24	200-6400		Motor ID-code	<table border="0"> <tr> <td>200</td> <td>ID of the motor, if special then Winding data and Power supply data: 200-6400 (fourth mark, pos 20 "dash")</td> </tr> <tr> <td>-</td> <td>Number of HS- and LS-polepairs</td> </tr> <tr> <td>5</td> <td>Filling mark "dash"</td> </tr> <tr> <td>400</td> <td>Power Supply frequency: 5-50Hz, 6-60Hz</td> </tr> <tr> <td></td> <td>Power supply Voltage, e.g. 380, 400, ...</td> </tr> </table>	200	ID of the motor, if special then Winding data and Power supply data: 200-6400 (fourth mark, pos 20 "dash")	-	Number of HS- and LS-polepairs	5	Filling mark "dash"	400	Power Supply frequency: 5-50Hz, 6-60Hz		Power supply Voltage, e.g. 380, 400, ...		
200	ID of the motor, if special then Winding data and Power supply data: 200-6400 (fourth mark, pos 20 "dash")															
-	Number of HS- and LS-polepairs															
5	Filling mark "dash"															
400	Power Supply frequency: 5-50Hz, 6-60Hz															
	Power supply Voltage, e.g. 380, 400, ...															
25	N		Order type	<table border="0"> <tr> <td>E</td> <td>Special Order, details defined with P.O.</td> </tr> <tr> <td>N</td> <td>Normal Order (e.g. Standard Motor)</td> </tr> </table>	E	Special Order, details defined with P.O.	N	Normal Order (e.g. Standard Motor)								
E	Special Order, details defined with P.O.															
N	Normal Order (e.g. Standard Motor)															



3.2 QM Bridge Drive

QM TG01 1,2	06 TG02 3,4	H 5	045 TG03 6-8	NA 9,10	F 11	10 12,13	Z 14	M 15	2 16	A 17	- 18	6 (ELE03) 19	400 ELE01 20-22	Y BM03 23	C (BM07) 24
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Pos.	Code	Feature code	Feature	Available properties
1,2	QM		Machinery type	QM
3,4	06	TG02	Size of the gear	06, 07, 09, 10
5	H		Gearbox type	H Helical gear K Bevel gear
6-8	045	TG03	Gear ratio code	QM06 022, 045, 090 QM07 028, 056, 112 QM09K 012, 014, 018, 022, 028, 036, 045, 056, 071, 080 QM10 014, 018, 022, 028, 036, 045, 056, 071, 090, 112, 140, 180, 230, 280 QM10K 018, 022, 028, 036, 045, 056, 071, 090, 112
9,10	NA		Gear options	N_ Standard L_ Foot-mounted _A Shaft arrangement A _B Shaft arrangement B
11	F		Type of motor	F Enclosed squirrel-cage motor equipped with brake
12,13	10		Size of motor	10 11 Motor size (number states shaft height of a foot mounted motor in centimeters) 13
14	Z		Length of motor frame	M Z Defines motor stator and frame length (from shorter to longer M...Z...X) X
15	M		Winding power variant	M Lower power variant N Higher power variant
16	2		Nbr of pole pairs	2 Defines nominal speed of the motor
17	A		Code of winding	A 320-360V 50/87 Hz 380-415V 60/100 Hz P 380-415V 50/87 Hz 440-480V 60/100 Hz Z 500-525V 50/87 Hz 575-600V 60/100 Hz
18	-		Motor options	- Standard motor without options S Motor with options selected from options list X Motor with extra options
19	6	(ELE03)	Frequency of supply network	<u>ELE03 value</u> 5 50 Hz 6 60Hz
20-22	400	ELE01	Voltage of supply network	400 400 V
23	Y	BM03	Winding connection	D Inverter control Delta-connected (87 Hz and 100 Hz). Y Inverter control Star-connected (50 Hz and 60 Hz)
24	C	(BM07)	Frequency of motor	<u>BM07 value</u> A 50 Hz C 60 Hz E 87 Hz G 100 Hz



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
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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																		
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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																							
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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))																														
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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																								
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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																																
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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
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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)																														
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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																											
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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																										
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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 1-6	P (HM01) 7	2 (HM02) 8	- 9	2 10	2 (TR01) 11	2 (BT01) 12	4 13	V3 PE13 14-15	- 16	20 (ELE01) 17-18	H (ELE02) 19	0 20
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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></td> <td></td> <td><u>HM01 value</u></td> <td></td> <td><u>HM01 value</u></td> </tr> <tr> <td>P</td> <td>Pole change motor</td> <td>P</td> <td></td> <td></td> </tr> <tr> <td>A</td> <td>ASR inverter-duty motor</td> <td>A</td> <td></td> <td></td> </tr> <tr> <td>S</td> <td>ESR inverter-duty motor</td> <td>S</td> <td></td> <td></td> </tr> <tr> <td>T</td> <td>Frequency converter motor</td> <td>T</td> <td></td> <td></td> </tr> <tr> <td>R</td> <td>Pole change motor 3:1</td> <td>R</td> <td>E Ex-proof pole change motor</td> <td>E</td> </tr> <tr> <td>C</td> <td>Cast iron pole change motor</td> <td>C</td> <td>O Single speed motor</td> <td>O</td> </tr> </table>			<u>HM01 value</u>		<u>HM01 value</u>	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	E Ex-proof pole change motor	E	C	Cast iron pole change motor	C	O Single speed motor	O										
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R	Pole change motor 3:1	R	E Ex-proof pole change motor	E																																													
C	Cast iron pole change motor	C	O Single speed motor	O																																													
8	2	(HM02)	Motor power	<table border="0"> <tr> <td></td> <td></td> <td><u>HM02 value</u></td> <td></td> <td><u>HM02 value</u></td> </tr> <tr> <td>X</td> <td>1.5 kW / 50 Hz</td> <td>X</td> <td>7 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 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 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 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 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 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 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 2 x 28 kW = 56 kW (MF13)</td> <td></td> </tr> </table>			<u>HM02 value</u>		<u>HM02 value</u>	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)	
		<u>HM02 value</u>		<u>HM02 value</u>																																													
X	1.5 kW / 50 Hz	X	7 18 kW / 50 Hz (MF13)	7																																													
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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)																																														
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9	-																																																
10	2			Nbr of hoists on the bridge																																													
11	2	(TR01)	Trolley travel control	<table border="0"> <tr> <td></td> <td></td> <td><u>TR01 value</u></td> <td></td> <td><u>TR01 value</u></td> </tr> <tr> <td>1</td> <td>1-speed</td> <td>1SP</td> <td>M Freq. control D2M mounted in bridge panel</td> <td>D2M</td> </tr> <tr> <td>2</td> <td>2-speed</td> <td>2SP</td> <td>N Freq. control D2M mounted on trolley</td> <td>D2M</td> </tr> <tr> <td>C</td> <td>Freq. control D2C mounted in bridge panel</td> <td>D2C</td> <td>Q Freq. control DMCS mounted on trolley</td> <td>DYD</td> </tr> <tr> <td>D</td> <td>Freq. control D2C mounted on trolley</td> <td>D2C</td> <td></td> <td></td> </tr> </table>			<u>TR01 value</u>		<u>TR01 value</u>	1	1-speed	1SP	M Freq. control D2M mounted in bridge panel	D2M	2	2-speed	2SP	N Freq. control D2M mounted on trolley	D2M	C	Freq. control D2C mounted in bridge panel	D2C	Q Freq. control DMCS mounted on trolley	DYD	D	Freq. control D2C mounted on trolley	D2C																						
		<u>TR01 value</u>		<u>TR01 value</u>																																													
1	1-speed	1SP	M Freq. control D2M mounted in bridge panel	D2M																																													
2	2-speed	2SP	N Freq. control D2M mounted on trolley	D2M																																													
C	Freq. control D2C mounted in bridge panel	D2C	Q Freq. control DMCS mounted on trolley	DYD																																													
D	Freq. control D2C mounted on trolley	D2C																																															
12	2	(BT01)	Bridge travel control	<table border="0"> <tr> <td></td> <td></td> <td><u>BT01 value</u></td> <td></td> <td><u>BT01 value</u></td> </tr> <tr> <td>1</td> <td>1-speed</td> <td>1SP</td> <td>M Frequency control D2M</td> <td>D2M</td> </tr> <tr> <td>2</td> <td>2-speed</td> <td>2SP</td> <td>Q Frequency control DMCS</td> <td>DYD</td> </tr> <tr> <td>C</td> <td>Frequency control D2C</td> <td>D2C</td> <td></td> <td></td> </tr> </table>			<u>BT01 value</u>		<u>BT01 value</u>	1	1-speed	1SP	M Frequency control D2M	D2M	2	2-speed	2SP	Q Frequency control DMCS	DYD	C	Frequency control D2C	D2C																											
		<u>BT01 value</u>		<u>BT01 value</u>																																													
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	4 Height 400 mm, depth 250 mm (EEC) * 6 Height 600 mm, depth 250 mm (EEF) *																																													
14-15	V3	PE13	Selection of the hoists	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																																													
16	-																																																
17-18	20	(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 etc. e.g. ELE01 value = 400 (V)																																													
19	H	(ELE02)	Control voltage	<table border="0"> <tr> <td></td> <td></td> <td><u>ELE02 value</u></td> <td></td> <td><u>ELE02 value</u></td> </tr> <tr> <td>H</td> <td>48 V</td> <td>48</td> <td>N 230 V</td> <td>230</td> </tr> <tr> <td>J</td> <td>115 V</td> <td>115</td> <td></td> <td></td> </tr> </table>			<u>ELE02 value</u>		<u>ELE02 value</u>	H	48 V	48	N 230 V	230	J	115 V	115																																
		<u>ELE02 value</u>		<u>ELE02 value</u>																																													
H	48 V	48	N 230 V	230																																													
J	115 V	115																																															
20	0		System features	0 Standard BP E Special application																																													



5.2 Bridge Panel for QL Crane Package (Chain Hoist)

BP	1	1	-	1	Q	Q	4	00	-	76	J	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	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
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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><u>ELE44 value</u></td> <td></td> <td><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
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)
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
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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
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Pos.	Code	Feature code	Feature	Available properties															
1-4	CMXC	(TR01) (BT01)	Device name	<table border="0"> <tr> <td></td> <td><u>TR01/BT01 value</u></td> <td></td> </tr> <tr> <td>CMXC</td> <td>DYD</td> <td>TR01 Type of trolley travel control BT01 Type of bridge travel control</td> </tr> </table>		<u>TR01/BT01 value</u>		CMXC	DYD	TR01 Type of trolley travel control BT01 Type of bridge travel control									
	<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	<table border="0"> <tr> <td>007</td> <td>ELE84 Trolley travel inverter power rating</td> </tr> <tr> <td>022</td> <td>ELE85 Bridge travel inverter power rating</td> </tr> <tr> <td>040 (obsolete)</td> <td></td> </tr> </table>	007	ELE84 Trolley travel inverter power rating	022	ELE85 Bridge travel inverter power rating	040 (obsolete)										
007	ELE84 Trolley travel inverter power rating																		
022	ELE85 Bridge travel inverter power rating																		
040 (obsolete)																			
8	F	(ELE84) (ELE85)	Supply voltage	<table border="0"> <tr> <td>F</td> <td>380 – 500 VAC, 50/60 Hz</td> <td rowspan="2">Values are composed of two features, Power rating class and Supply voltage. e.g. 007F = ELE84/ELE85 value</td> </tr> <tr> <td></td> <td></td> </tr> </table>	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												
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	<table border="0"> <tr> <td></td> <td><u>ELE02 value</u></td> <td></td> </tr> <tr> <td>Y</td> <td>42VAC, 50/60 Hz, only 040F</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, only 040F</td> <td>230</td> </tr> </table>		<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
	<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	<table border="0"> <tr> <td>N</td> <td>Standard, only 022 and 040F</td> <td rowspan="3">ELE87 Trolley travel inverter braking resistor type ELE88 Bridge travel inverter braking resistor type</td> </tr> <tr> <td>A</td> <td>Heavy duty, only 022F</td> </tr> <tr> <td>0</td> <td>No resistor, only 007F</td> </tr> </table>	N	Standard, only 022 and 040F	ELE87 Trolley travel inverter braking resistor type ELE88 Bridge travel inverter braking resistor type	A	Heavy duty, only 022F	0	No resistor, only 007F								
N	Standard, only 022 and 040F	ELE87 Trolley travel inverter braking resistor type ELE88 Bridge travel inverter braking resistor type																	
A	Heavy duty, only 022F																		
0	No resistor, only 007F																		
13	0	ELE97	EMC level	<table border="0"> <tr> <td>S</td> <td>Standard, without EMC filters (grounded network), only 040F</td> </tr> <tr> <td>N</td> <td>EMC, Second environment (grounded network), only 040F</td> </tr> <tr> <td>0</td> <td>IT network (non-grounded network)</td> </tr> </table>	S	Standard, without EMC filters (grounded network), only 040F	N	EMC, Second environment (grounded network), only 040F	0	IT network (non-grounded network)									
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
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Pos.	Code	Feature code	Feature	Available properties															
1-4	CMST	(TR01) (BT01)	Device name	<table border="0"> <tr> <td></td> <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> <td>TR01 Type of trolley travel control BT01 Type of bridge travel control</td> </tr> </table>			<u>TR01/BT01 value</u>		CMST	Control Master™ Select	D2M	TR01 Type of trolley travel control BT01 Type of bridge travel control							
		<u>TR01/BT01 value</u>																	
CMST	Control Master™ Select	D2M	TR01 Type of trolley travel control BT01 Type of bridge travel control																
5-7	007	(ELE84) (ELE85)	Power rating class	<table border="0"> <tr> <td>002 – 022</td> <td>ELE84 Trolley travel inverter power rating ELE85 Bridge travel inverter power rating</td> </tr> </table>	002 – 022	ELE84 Trolley travel inverter power rating ELE85 Bridge travel inverter power rating													
002 – 022	ELE84 Trolley travel inverter power rating ELE85 Bridge travel inverter power rating																		
8	F	(ELE84) (ELE85)	Supply voltage	<table border="0"> <tr> <td>F</td> <td>380 – 500 VAC, 50/60 Hz</td> <td rowspan="2">Values are composed of two features, Power rating class and Supply voltage. e.g. 007F = ELE84/ELE85 value</td> </tr> </table>	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												
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	V		(ELE02)	Control voltage	<table border="0"> <tr> <td colspan="3" 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
<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
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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.
8	F	(ELE83)	Supply voltage	F 380 – 500 VAC, 50/60 Hz e.g. 007F = ELE83 value
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
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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																															
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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 - 12.09 <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																		
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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																														
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400	400																																							
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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																														
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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																														
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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																														
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