

FM-X Technical Data

Driver Seated Reach Truck



FM-X 10/Li-Ion

FM-X 12/Li-Ion

FM-X 14/Li-Ion

FM-X 17/Li-Ion

FM-X 20/Li-Ion

FM-X 25/Li-Ion

FM-X Driver Seated Reach Truck

Top-level precision

This specification sheet, which conforms to VDI guideline 2198, provides the technical values for the standard equipment only. Different tyres, other masts, the use of accessories, etc., may result in other values.



Distinguishing marks	1.1	Manufacturer			STILL	STILL	STILL	STILL	STILL	STILL	STILL	STILL	
	1.2	Manufacturer's type designation			FM-X 10/Li-Ion	FM-X 10 N	FM-X 12/Li-Ion	FM-X 12 N	FM-X 14/Li-Ion	FM-X 14 N	FM-X 14 W/Li-Ion	FM-X 14 EW/Li-Ion	
	1.3	Drive			Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	
	1.4	Operator type			Seated	Seated	Seated	Seated	Seated	Seated	Seated	Seated	
	1.5	Rated capacity/rated load	Q	kg	1000	1000	1200	1200	1400	1400	1400	1400	
	1.6	Load capacity at load centre distance	c	mm	600	600	600	600	600	600	600	600	
	1.8	Load centre distance ¹	x	mm	278	184	278	184	348	335	276	276	
Weights	1.9	Wheel base	y	mm	1275	1275	1275	1275	1381	1453	1381	1381	
	2.1	Service weight (incl. battery)		kg	3230	3200	3240	3210	3470	3430	3700	3750	
	2.3	Axle loading, unladen	drive end/load end	kg	2040/1190	1970/1230	2130/1100	1970/1230	2250/1220	2120/1310	2290/1410	2330/1420	
	2.4	Axle loading, fork advanced, laden	drive end/load end	kg	960/3270	920/3280	850/3580	920/3280	850/4010	860/3970	960/1410	1000/4150	
	2.5	Axle loading, fork retracted, laden	drive end/load end	kg	1730/2500	1590/2610	1820/2610	1590/2610	1950/2910	1770/3060	1920/3180	1960/3190	
Tyres chassis	3.1	Tyres			Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane	
	3.2	Tyre size	drive end	mm	ø 360 x 130	ø 360 x 130	ø 360 x 130	ø 360 x 130	ø 360 x 130	ø 360 x 130	ø 360 x 130	ø 360 x 130	
	3.3	Tyre size	load end	mm	ø 285 x 100	ø 285 x 100	ø 285 x 100	ø 285 x 100	ø 285 x 100	ø 285 x 100	ø 285 x 100	ø 285 x 100	
	3.5	Number of wheels (x = driven)	drive end/load end		1x/2	1x/2	1x/2	1x/2	1x/2	1x/2	1x/2	1x/2	
Dimensions	3.7	Tread	load end	b ₁₁	mm	1167	1037	1167	1037	1167	1037	1367	1567
	4.1	Tilt of mast/fork carriage	forward/backward ³	α/β	°	1/3	2/4	1/3	2/4	1/3	2/4	1/3	1/3
	4.2	Height	mast lowered	h ₁	mm	2450	2450	2450	2450	2450	2450	2450	2450
	4.3	Free lift		h ₂	mm	1890	1890	1890	1890	1890	1890	1890	1890
	4.4	Lift		h ₃	mm	5750	5750	5750	5750	5750	5750	5750	5750
	4.5	Height	mast extended	h ₄	mm	6310	6310	6310	6310	6310	6310	6310	6310
	4.7	Height of overhead guard (cabin) ⁴		h ₆	mm	2200	2200	2200	2200	2200	2200	2200	2200
	4.8	Seat height		h ₇	mm	1140	1140	1140	1140	1140	1140	1140	1140
	4.10	Height of wheel arms		h ₈	mm	308	308	308	308	308	308	308	308
	4.19	Overall length ^{2, 5, 6}		l ₁	mm	2366	2462	2366	2462	2402	2488	2474	2474
	4.20	Length to face of forks ^{2, 5, 6}		l ₂	mm	1216	1312	1216	1312	1252	1338	1324	1324
	4.21	Overall width		b ₁ /b ₂	mm	1270	1140	1270	1140	1270	1140	1470	1670
	4.22	Fork dimensions	DIN ISO 2331	s/e/l	mm	40/80/1150	40/80/1150	40/100/1150	40/100/1150	40/100/1150	40/100/1150	40/100/1150	40/100/1150
	4.23	Fork carriage ISO 2328, class/type A, B				2/A	2/A	2/A	2/A	2/A	2/A	2/A	2/A
	4.24	Fork carriage width		b ₃	mm	760	760	760	760	760	760	760	760
	4.25	Distance between fork arms	min./max.	b ₅	mm	296/600	296/600	296/600	296/600	316/620	316/620	316/620	316/620
	4.26	Distance between wheel arms/loading surfaces		b ₄	mm	920	790	920	790	920	790	1120	1320
	4.28	Reach distance		l ₆	mm	449	364	449	364	529	515	457	457
	4.31	Ground clearance, laden, below mast		m ₁	mm	70	70	70	70	70	70	70	70
	4.32	Ground clearance, centre of wheel base		m ₂	mm	70	70	70	70	70	70	70	70
	4.34.1	Aisle width for pallets 1000 x 1200 crossways ²		A _{st}	mm	2679	2733	2679	2733	2727	2787	2821	2861
	4.34.2	Aisle width for pallets 800 x 1200 lengthways ²		A _{st}	mm	2746	2812	2746	2812	2782	2845	2887	2927
	4.35	Turning radius		W _a	mm	1540	1520	1540	1520	1640	1691	1680	1720
	4.37	Length across wheel arms		l ₇	mm	1639	1641	1639	1641	1745	1817	1745	1745
	4.43	Step height			mm	345	345	345	345	345	345	345	345
Performance data	5.1	Travel speed	laden/unladen	km/h	14/14	14/14	14/14	14/14	14/14	14/14	14/14	14/14	
	5.1.1	Travel speed backwards	laden/unladen	km/h	14/14	14/14	14/14	14/14	14/14	14/14	14/14	14/14	
	5.2	Lift speed	laden/unladen	m/s	0.47/0.70	0.47/0.70	0.47/0.70	0.47/0.70	0.45/0.68	0.45/0.68	0.45/0.68	0.45/0.68	
	5.3	Lowering speed	laden/unladen	m/s	0.56/0.50	0.56/0.50	0.56/0.50	0.56/0.50	0.56/0.52	0.56/0.52	0.56/0.52	0.56/0.52	
	5.4	Reaching speed	laden/unladen	m/s	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	
	5.7	Gradeability	laden/unladen	%	10/15	10/15	10/15	10/15	10/15	10/15	10/15	10/15	
	5.8	Max. gradeability	laden/unladen	%	15/20	15/20	15/20	15/20	15/20	15/20	15/20	15/20	
	5.9	Acceleration time (over 10 m)	laden/unladen	s	4.5/4.0	4.5/4.0	4.5/4.0	4.5/4.0	4.5/4.0	4.5/4.0	4.5/4.0	4.5/4.0	
Electric engine	5.10	Service brake			Regenerative-electric/ hydraulic	Regenerative-electric/ hydraulic	Regenerative-electric/ hydraulic	Regenerative-electric/ hydraulic	Regenerative-electric/ hydraulic	Regenerative-electric/ hydraulic	Regenerative-electric/ hydraulic	Regenerative-electric/ hydraulic	
	6.1	Drive motor rating S2 = 60 min		kW	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	
	6.2	Lift motor rating S3 = 15 %		kW	14	13	14	14	14	14	14	14	
	6.3	Battery according to DIN 43531/35/36 A, B, C, no			43531 C/254-2	43531 B/254-2	43531 C/254-2	43531 B/254-2	43531 C/254-2	43531 B/254-2	43531 C/254-2	43531 C/254-2	
	6.4	Battery voltage/nominal capacity K _s		V/Ah	48/465 Li-Ion: 48/204	48/465	48/465 Li-Ion: 48/204	48/465	48/465 Li-Ion: 48/204	48/465	48/620 Li-Ion: 48/204	48/620 Li-Ion: 48/204	
	6.5	Battery weight (depending on manufacturer ±5 %)		kg	750	750	750	750	750	750	940	940	
Misc.	6.6	Energy consumption according to VDI cycle		kWh/h	2.88	2.88	3.23	3.23	3.40	3.40	3.40	3.40	
	10.1	Operating pressure for attachments		bar	200	200	200	200	200	200	200	200	
	10.2	Oil volume for attachments		l/min	20	20	20	20	20	20	20	20	
10.7	Sound pressure level at driver's seat		dB(A)	69	69	69	69	69	69	69	69		

All measurements including sideshift mast or sideshift forks (carriage)

¹ Values decrease by 72 mm per battery size for larger batteries. Applies to the FM-X, FM-X W and FM-X EW;
Values decrease by 90 mm per battery size for larger batteries. Applies to the FM-X N

² Aisle width for pallet 1000 x 1200 crosswise:
- Values increase by 56 mm per battery size for larger batteries. Applies to the FM-X, FM-X W and FM-X EW;
- Values increase by 74 mm per battery size for larger batteries. Applies to the FM-X N
Aisle width for pallet 800 x 1200 lengthwise:
- Values increase by 66 mm per battery size for larger batteries. Applies to the FM-X, FM-X W and FM-X EW;
- Values increase by 85 mm per battery size using larger batteries. Applies to the FM-X N

³ May vary according to the mast, with sideshift/fork tilt 2°/4°

⁴ With the option cabin/wind protection, height h₆ is 2180 mm

⁵ With optional cabin, length will be extended by 150 mm

⁶ Increases in steps of 72 mm for each larger battery size for FM-X, FM-X W, FM-X EW models
Increases in steps of 90 mm for each larger battery size for FM-X N model

FM-X Driver Seated Reach Truck

Top-level precision

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Distinguishing marks	1.1	Manufacturer				STILL	STILL	STILL	STILL	STILL	STILL
	1.2	Manufacturer's type designation				FM-X 17/Li-Ion	FM-X 17 N	FM-X 17 W/Li-Ion	FM-X 17 EW/Li-Ion	FM-X 20/Li-Ion	FM-X 20 N
	1.3	Drive				Electric	Electric	Electric	Electric	Electric	Electric
	1.4	Operator type				Seated	Seated	Seated	Seated	Seated	Seated
	1.5	Rated capacity/rated load		Q	kg	1700	1700	1700	1700	2000	2000
	1.6	Load capacity at load centre distance		c	mm	600	600	600	600	600	600
	1.8	Load centre distance ¹		x	mm	410	325	338	338	410	307
Weights	1.9	Wheel base		y	mm	1453	1453	1453	1453	1525	1525
	2.1	Service weight (incl. battery)			kg	3470	3500	3740	3790	3820	3830
	2.3	Axle loading, unladen		drive end/load end	kg	2290/1180	2220/1280	2390/1350	2440/1350	2470/1350	2450/1380
	2.4	Axle loading, fork advanced, laden		drive end/load end	kg	730/4440	670/4520	900/4550	950/4550	820/5000	830/5010
	2.5	Axle loading, fork retracted, laden		drive end/load end	kg	2030/3140	1850/3340	2050/3390	2100/3390	2180/3640	2010/3820
Tyres/chassis	3.1	Tyres				Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane
	3.2	Tyre size		drive end	mm	ø 360 x 130	ø 360 x 130	ø 360 x 130	ø 360 x 130	ø 360 x 130	ø 360 x 130
	3.3	Tyre size		load end	mm	ø 285 x 100	ø 285 x 100	ø 285 x 100	ø 285 x 100	ø 350 x 100	ø 350 x 100
	3.5	Number of wheels (x = driven)		drive end/load end		1x/2	1x/2	1x/2	1x/2	1x/2	1x/2
	3.7	Tread		load end	b ₁₁ mm	1167	1037	1367	1567	1167	1037
Dimensions	4.1	Tilt of mast/fork carriage		forward/backward ³	α/β °	1/3	2/4	1/3	1/3	1/3	2/4
	4.2	Height		mast lowered	h ₁ mm	2450	2450	2450	2450	2450	2450
	4.3	Free lift			h ₂ mm	1880	1880	1880	1880	1880	1880
	4.4	Lift			h ₃ mm	5750	5750	5750	5750	5580	5580
	4.5	Height		mast extended	h ₄ mm	6320	6320	6320	6320	6150	6150
	4.7	Height of overhead guard (cabin) ⁴			h ₆ mm	2200	2200	2200	2200	2200	2200
	4.8	Seat height			h ₇ mm	1140	1140	1140	1140	1140	1140
	4.10	Height of wheel arms			h ₈ mm	308	308	308	308	373	373
	4.19	Overall length ^{2, 5, 6}			l ₁ mm	2412	2499	2484	2484	2484	2589
	4.20	Length to face of forks ^{2, 5, 6}			l ₂ mm	1262	1349	1334	1334	1334	1439
	4.21	Overall width			b ₁ /b ₂ mm	1270	1140	1470	1670	1270	1140
	4.22	Fork dimensions		DIN ISO 2331	s/e/l mm	50/100/1150	50/100/1150	50/100/1150	50/100/1150	50/100/1150	50/100/1150
	4.23	Fork carriage ISO 2328, class/type A, B				2/A	2/A	2/A	2/A	2/A	2/A
	4.24	Fork carriage width			b ₃ mm	760	760	760	760	760	760
	4.25	Distance between fork arms		min./max.	b ₅ mm	316/620	316/620	316/620	316/620	316/620	316/620
	4.26	Distance between wheel arms/loading surfaces			b ₄ mm	920	790	1120	1320	920	790
	4.28	Reach distance			l ₄ mm	591	505	519	519	623	520
	4.31	Ground clearance, laden, below mast			m ₁ mm	70	70	70	70	70	70
	4.32	Ground clearance, centre of wheel base			m ₂ mm	70	70	70	70	70	70
	4.34.1	Aisle width for pallets 1000 x 1200 crossways ²			A _{st} mm	2752	2795	2844	2879	2820	2879
	4.34.2	Aisle width for pallets 800 x 1200 lengthways ²			A _{st} mm	2796	2854	2901	2936	2864	2941
	4.35	Turning radius			W _a mm	1710	1691	1750	1785	1778	1762
	4.37	Length across wheel arms			l ₇ mm	1817	1819	1817	1817	1922	1924
	4.43	Step height			mm	345	345	345	345	345	345
Performance data	5.1	Travel speed		laden/unladen	km/h	14/14	14/14	14/14	14/14	14/14	14/14
	5.1.1	Travel speed backwards		laden/unladen	km/h	14/14	14/14	14/14	14/14	14/14	14/14
	5.2	Lift speed		laden/unladen	m/s	0.45/0.68	0.45/0.68	0.45/0.68	0.45/0.68	0.37/0.58	0.37/0.58
	5.3	Lowering speed		laden/unladen	m/s	0.55/0.52	0.55/0.52	0.56/0.52	0.56/0.52	0.53/0.50	0.53/0.50
	5.4	Reaching speed		laden/unladen	m/s	0.18	0.18	0.18	0.18	0.18	0.18
	5.7	Gradeability		laden/unladen	%	10/15	10/15	10/15	10/15	10/15	10/15
	5.8	Max. gradeability		laden/unladen	%	15/20	15/20	15/20	15/20	15/20	15/20
	5.9	Acceleration time (over 10 m)		laden/unladen	s	4.5/4.0	4.5/4.0	4.5/4.0	4.5/4.0	4.5/4.0	4.5/4.0
	5.10	Service brake				Regenerative-electric/hydraulic	Regenerative-electric/hydraulic	Regenerative-electric/hydraulic	Regenerative-electric/hydraulic	Regenerative-electric/hydraulic	Regenerative-electric/hydraulic
Electric engine	6.1	Drive motor rating S2 = 60 min			kW	6.5	6.5	6.5	6.5	6.5	6.5
	6.2	Lift motor rating S3 = 15 %			kW	14	14	14	14	14	14
	6.3	Battery according to DIN 43531/35/36 A, B, C, no				43531 C/254-2	43531 B/254-2	43531 C/254-2	43531 C/254-2	43531 C/254-2	43531 B/254-2
	6.4	Battery voltage/nominal capacity K _s			V/Ah	48/465 Li-Ion: 48/204	48/465	48/420 Li-Ion: 48/817	48/620 Li-Ion: 48/817	48/620 Li-Ion: 48/817	48/620
	6.5	Battery weight (depending on manufacturer ±5 %)			kg	750	750	940	940	940	940
	6.6	Energy consumption according to VDI cycle			kWh/h	3.56	3.56	3.56	3.56	3.59	3.59
Misc.	10.1	Operating pressure for attachments			bar	200	200	200	200	200	200
	10.2	Oil volume for attachments			l/min	20	20	20	20	20	20
	10.7	Sound pressure level at driver's seat			dB(A)	69	69	69	69	69	69

All measurements including sideshift mast or sideshift forks (carriage)

¹ Values decrease by 72 mm per battery size for larger batteries. Applies to the FM-X, FM-X W and FM-X EW;
Values decrease by 90 mm per battery size for larger batteries. Applies to the FM-X N

² Aisle width for pallet 1000 x 1200 crosswise:
- Values increase by 56 mm per battery size for larger batteries. Applies to the FM-X, FM-X W and FM-X EW;
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Aisle width for pallet 800 x 1200 lengthwise:
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³ May vary according to the mast, with sideshift/fork tilt 2°/4°

⁴ With the option cabin/wind protection, height h₆ is 2180 mm

⁵ With optional cabin, length will be extended by 150 mm

⁶ Increases in steps of 72 mm for each larger battery size for FM-X, FM-X W, FM-X EW models
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Distinguishing marks	1.1	Manufacturer				STILL	STILL	STILL	STILL	STILL	STILL
	1.2	Manufacturer's type designation				FM-X 20 W/Li-Ion	FM-X 20 EW/Li-Ion	FM-X 20 HD/Li-Ion	FM-X 25/Li-Ion	FM-X 25 W/Li-Ion	FM-X 25 EW/Li-Ion
	1.3	Drive				Electric	Electric	Electric	Electric	Electric	Electric
	1.4	Operator type				Seated	Seated	Seated	Seated	Seated	Seated
	1.5	Rated capacity/rated load		Q	kg	2000	2000	2000	2500	2500	2500
	1.6	Load capacity at load centre distance		c	mm	600	600	600	600	600	600
	1.8	Load centre distance ¹		x	mm	410	410	482	482	482	482
Weights	1.9	Wheel base		y	mm	1525	1525	1669	1669	1669	1669
	2.1	Service weight (incl. battery)			kg	3870	3920	5110	4110	4140	4170
	2.3	Axle loading, unladen		drive end/load end	kg	2490/1380	2510/1410	3030/2080	2640/1470	2620/1520	2600/1570
	2.4	Axle loading, fork advanced, laden		drive end/load end	kg	840/5030	860/5060	900/6410	810/5790	790/5840	770/5890
	2.5	Axle loading, fork retracted, laden		drive end/load end	kg	2200/3670	2220/3700	2810/4500	2420/4190	2400/4240	2380/4290
Tyres/chassis	3.1	Tyres				Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane
	3.2	Tyre size		drive end	mm	ø 360 x 130	ø 360 x 130	ø 360 x 140	ø 360 x 140	ø 360 x 140	ø 360 x 140
	3.3	Tyre size		load end	mm	ø 350 x 100	ø 350 x 100	ø 350 x 100	ø 350 x 100	ø 350 x 100	ø 350 x 100
	3.5	Number of wheels (x = driven)		drive end/load end		1x/2	1x/2	1x/2	1x/2	1x/2	1x/2
	3.7	Tread		load end	b ₁₁	mm	1367	1567	1167	1367	1567
Dimensions	4.1	Tilt of mast/fork carriage		forward/backward ³	α/β	°	1/3	1/3	2/4	1/3	1/3
	4.2	Height		mast lowered	h ₁	mm	2450	2450	5200	2450	2450
	4.3	Free lift			h ₂	mm	1880	1880	4578	1828	1828
	4.4	Lift			h ₃	mm	5580	5580	12500	5580	5580
	4.5	Height		mast extended	h ₄	mm	6150	6150	13122	6202	6202
	4.7	Height of overhead guard (cabin) ⁴			h ₆	mm	2200	2200	2200	2200	2200
	4.8	Seat height			h ₇	mm	1140	1140	1140	1140	1140
	4.10	Height of wheel arms			h ₈	mm	373	373	373	373	373
	4.19	Overall length ^{2, 5, 6}			l ₁	mm	2484	2484	2556	2556	2556
	4.20	Length to face of forks ^{2, 5, 6}			l ₂	mm	1334	1334	1406	1406	1406
	4.21	Overall width			b ₁ /b ₂	mm	1470	1670	1270	1470	1670
	4.22	Fork dimensions		DIN ISO 2331	s/e/l	mm	50/100/1150	50/100/1150	50/120/1150	50/120/1150	50/120/1150
	4.23	Fork carriage ISO 2328, class/type A, B					2/A	2/A	2/A	2/A	2/A
	4.24	Fork carriage width			b ₃	mm	760	760	760	760	760
	4.25	Distance between fork arms		min./max.	b ₅	mm	316/620	316/620	336/640	336/640	336/640
	4.26	Distance between wheel arms/loading surfaces			b ₄	mm	1120	1320	920	1120	1320
	4.28	Reach distance			l ₄	mm	623	623	695	695	695
	4.31	Ground clearance, laden, below mast			m ₁	mm	70	70	70	70	70
	4.32	Ground clearance, centre of wheel base			m ₂	mm	70	70	50	50	50
	4.34.1	Aisle width for pallets 1000 x 1200 crossways ²			A _{st}	mm	2857	2892	2908	2943	2978
	4.34.2	Aisle width for pallets 800 x 1200 lengthways ²			A _{st}	mm	2901	2936	2937	2972	3007
	4.35	Turning radius			W _a	mm	1815	1850	1915	1950	1985
	4.37	Length across wheel arms			l ₇	mm	1922	1922	2066	2066	2066
	4.43	Step height				mm	345	345	345	345	345
Performance data	5.1	Travel speed		laden/unladen		km/h	14/14	14/14	14/14	14/14	14/14
	5.1.1	Travel speed backwards		laden/unladen		km/h	14/14	14/14	14/14	14/14	14/14
	5.2	Lift speed		laden/unladen		m/s	0.37/0.58	0.37/0.58	0.34/0.50	0.34/0.50	0.34/0.50
	5.3	Lowering speed		laden/unladen		m/s	0.53/0.50	0.53/0.50	0.52/0.50	0.52/0.50	0.52/0.50
	5.4	Reaching speed		laden/unladen		m/s	0.18	0.18	0.18	0.18	0.18
	5.7	Gradeability		laden/unladen		%	10/15	10/15	10/15	10/15	10/15
	5.8	Max. gradeability		laden/unladen		%	15/20	15/20	15/20	15/20	15/20
	5.9	Acceleration time (over 10 m)		laden/unladen		s	4.5/4.0	4.5/4.0	4.5/4.0	4.5/4.0	4.5/4.0
	5.10	Service brake					Regenerative-electric/hydraulic	Regenerative-electric/hydraulic	Regenerative-electric/hydraulic	Regenerative-electric/hydraulic	Regenerative-electric/hydraulic
Electric engine	6.1	Drive motor rating S2 = 60 min				kW	6.5	6.5	6.5	6.5	6.5
	6.2	Lift motor rating S3 = 15 %				kW	14	14	14	14	14
	6.3	Battery according to DIN 43531/35/36 A, B, C, no					43531 C/254-2	43531 C/254-2	43531 C/254-2	43531 C/254-2	43531 C/254-2
	6.4	Battery voltage/nominal capacity K _s				V/Ah	48/620 Li-Ion: 48/817	48/620 Li-Ion: 48/817	48/775 Li-Ion: 48/817	48/775 Li-Ion: 48/817	48/775 Li-Ion: 48/817
	6.5	Battery weight (depending on manufacturer ±5 %)				kg	940	940	1120	1120	1120
	6.6	Energy consumption according to VDI cycle				kWh/h	3.59	3.59	3.59	4.49	4.49
Misc.	10.1	Operating pressure for attachments				bar	200	200	200	200	200
	10.2	Oil volume for attachments				l/min	20	20	20	20	20
	10.7	Sound pressure level at driver's seat				dB(A)	69	69	69	69	69

All measurements including sideshift mast or sideshift forks (carriage)

¹ Values decrease by 72 mm per battery size for larger batteries. Applies to the FM-X, FM-X W and FM-X EW;
Values decrease by 90 mm per battery size for larger batteries. Applies to the FM-X N

² Aisle width for pallet 1000 x 1200 crosswise:
- Values increase by 56 mm per battery size for larger batteries. Applies to the FM-X, FM-X W and FM-X EW;
- Values increase by 74 mm per battery size for larger batteries. Applies to the FM-X N
Aisle width for pallet 800 x 1200 lengthwise:
- Values increase by 66 mm per battery size for larger batteries. Applies to the FM-X, FM-X W and FM-X EW;
- Values increase by 85 mm per battery size using larger batteries. Applies to the FM-X N

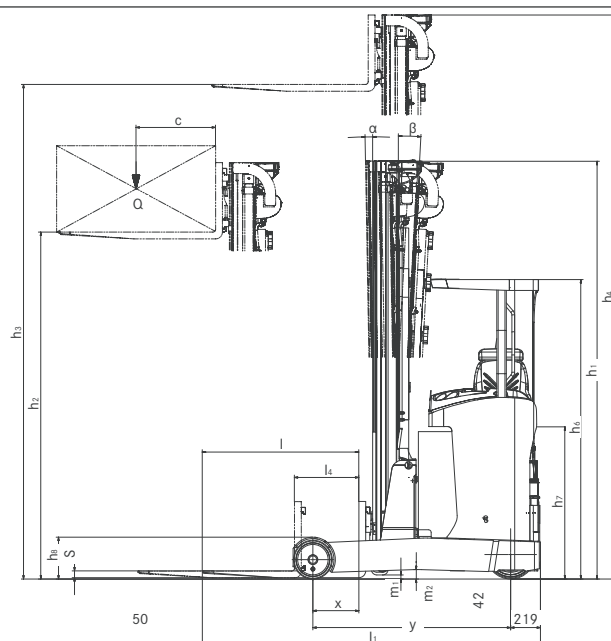
³ May vary according to the mast, with sideshift/fork tilt 2°/4°

⁴ With the option cabin/wind protection, height h₆ is 2180 mm

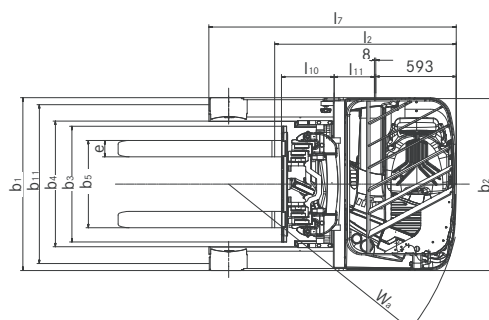
⁵ With optional cabin, length will be extended by 150 mm

⁶ Increases in steps of 72 mm for each larger battery size for FM-X, FM-X W, FM-X EW models
Increases in steps of 90 mm for each larger battery size for FM-X N model

FM-X Driver Seated Reach Truck Technical Drawings



Side view

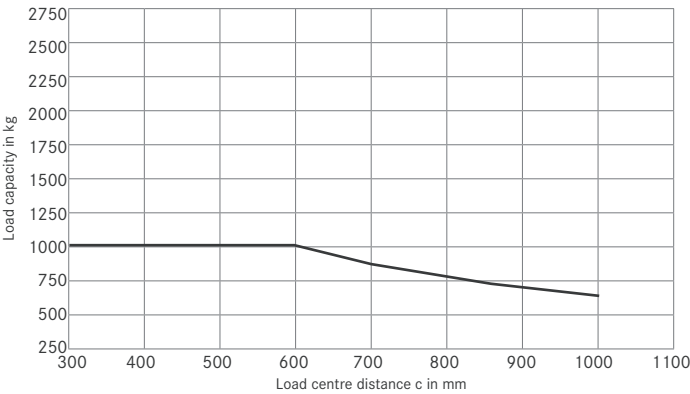


Top view

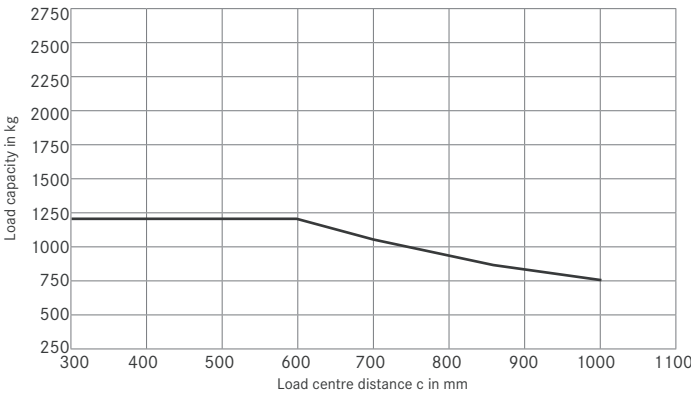


FM-X Driver Seated Reach Truck
Basic Load Capacities

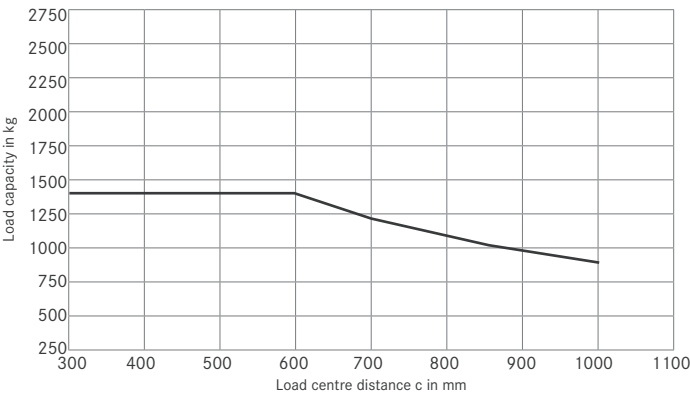
Load capacity FM-X 10/10 N



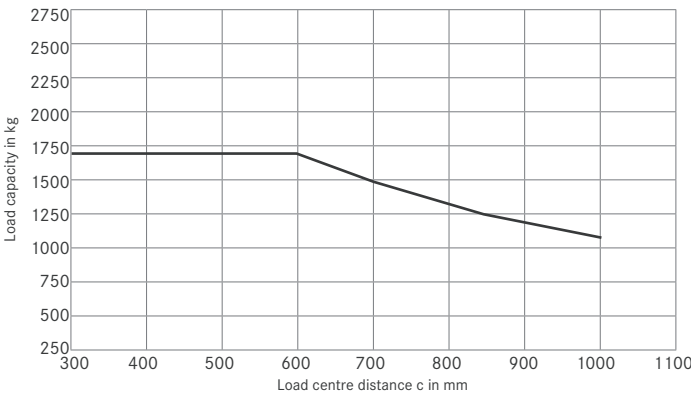
Load capacity FM-X 12/12 N



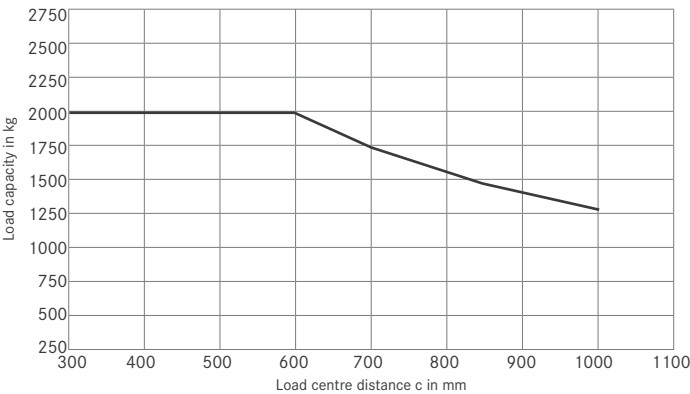
Load capacity FM-X 14/14 N/14 W/14 EW



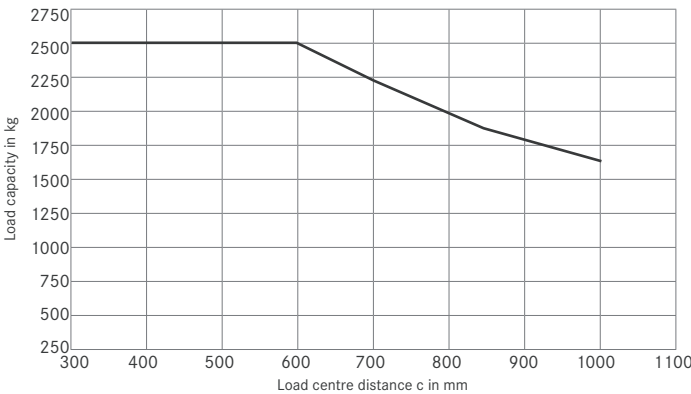
Load capacity FM-X 17/17 N/17 W/17 EW



Load capacity FM-X 20/20 N/20 W/20 EW/20 HD



Load capacity FM-X 25/25 W/25 EW



FM-X Driver Seated Reach Truck
Mast Tables



	Triplex			
	Height, mast lowered h ₁ in mm	Free lift h ₂ in mm	Lift h ₃ in mm	Height, mast extended h ₄ in mm
FM-X 10/10 N - FM-X 12/12 N FM-X 14/14 N/14 W/14 EW	1950	1390	4250	4810
	2015	1455	4440	5000
	2050	1490	4550	5110
	2200	1640	5000	5560
	2250	1690	5150	5710
	2300	1740	5300	5860
	2400	1840	5600	6160
	2450	1890	5750	6310
	2500	1940	5900	6460
	2600	2040	6200	6760
	2700	2140	6500	7060
	2800	2240	6700	7260
FM-X 10 N FM-X 10 FM-X 12 N FM-X 12	2900	2340	7000	7560
	2800	2240	6700	7360
	2900	2340	7000	7660
	2800	2240	6800	7360
FM-X 14/14 N/14 W/14 EW	2900	2340	7100	7660
	3000	2440	7400	7960
	3100	2540	7700	8260
	3200	2640	8000	8560
	3300	2740	8300	8860
	3400	2840	8600	9160
	3500	2940	8900	9460
	3600	3040	9200	9760
	3700	3140	9500	10060
	3800	3240	9800	10360
	1950	1380	4250	4820
	2015	1445	4440	5010
FM-X 14 N - FM-X 17 N	2050	1480	4550	5120
	2200	1630	5000	5570
	2250	1680	5150	5720
	2300	1730	5300	5870
	2400	1830	5600	6170
	2450	1880	5750	6320
	2500	1930	5900	6470
	2600	2030	6200	6770
	2700	2130	6500	7070
	2800	2230	6800	7370
	2900	2330	7100	7670
	3000	2430	7400	7970
	3100	2530	7700	8270
	3200	2630	8000	8570
	3300	2730	8300	8870
	3400	2830	8600	9170
	3500	2930	8900	9470
	3600	3030	9200	9770
FM-X 17/17 N/ FM-X 17 W/17 EW	3700	3130	9500	10070
	3800	3230	9800	10370
	3900	3330	10100	10670
	4200	3630	10500	11070
	4300	3730	10800	11370
	4400	3830	11100	11670
	4500	3930	11400	11970
	4700	4130	11800	12370

	Triplex			
	Height, mast lowered h ₁ in mm	Free lift h ₂ in mm	Lift h ₃ in mm	Height, mast extended h ₄ in mm
FM-X 20/20 N/20 W/20 EW	1950	1380	4080	4650
	2015	1445	4270	4840
	2050	1480	4380	4950
	2200	1630	4830	5400
	2250	1680	4980	5550
	2300	1730	5130	5700
	2400	1830	5430	6000
	2450	1880	5580	6150
	2500	1930	5730	6300
	2600	2030	6030	6600
	2700	2130	6330	6900
	2800	2230	6630	7200
	2900	2330	6930	7500
	3000	2430	7200	7770
	3100	2530	7500	8070
	3200	2630	7800	8370
	3300	2730	8000	8570
	3400	2830	8300	8870
	3450	2880	8450	9020
	3500	2930	8600	9170
	3600	3030	8900	9470
	3700	3130	9200	9770
	3800	3230	9500	10070
	3900	3330	9800	10370
	4000	3430	10100	10670
	4100	3530	10400	10970
	4200	3630	10700	11270
	4300	3730	11000	11570
FM-X 20/20 W/20 EW	4400	3830	11300	11870
	4500	3930	11600	12170
	4650	4080	12050	12620
	5200	4630	12500	13070
	5350	4780	13000	13570
FM-X 20 HD	5200	4578	12500	13122
	5350	4728	13000	13622

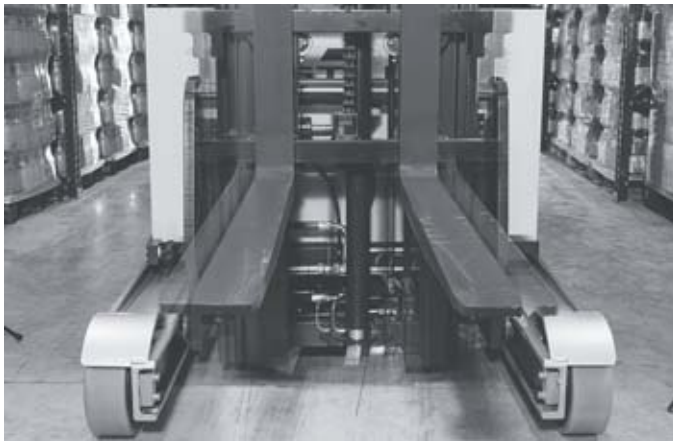
	Triplex			
	Height, mast lowered h ₁ in mm	Free lift h ₂ in mm	Lift h ₃ in mm	Height, mast extended h ₄ in mm
FM-X 25/25 W/25 EW	1950	1328	4080	4702
	2015	1393	4270	4892
	2050	1428	4380	5002
	2200	1578	4830	5452
	2250	1628	4980	5602
	2300	1678	5130	5752
	2400	1778	5430	6052
	2450	1828	5580	6202
	2500	1878	5730	6352
	2600	1978	6030	6652
	2700	2078	6330	6952
	2800	2178	6630	7252
	2900	2278	6930	7552
	3000	2378	7200	7822
	3100	2478	7500	8122
	3200	2578	7800	8422
	3300	2678	8000	8622
	3400	2778	8300	8922
	3450	2828	8450	9072
	3500	2878	8600	9222
	3600	2978	8900	9522
	3700	3078	9200	9822
	3800	3178	9500	10122
	3900	3278	9800	10422
	4000	3378	10100	10722
	4100	3478	10400	11022
	4200	3578	10700	11322
	4300	3678	11000	11622
	4400	3778	11300	11922
	4500	3878	11600	12222
	4650	4028	12050	12672

Masts with heights of up to 2450 mm and hydraulic mast side shift have a tilt angle of 1° forward and 3° backward.
Masts with hydraulic side shift have a fork tilt angle of 2° forward and 4° backward or optionally 3° forward and 3° backward.

Masts with heights of up to 2450 mm and hydraulic mast side shift have a tilt angle of 1° forward and 3° backward.
Masts with hydraulic side shift have a fork tilt angle of 2° forward and 4° backward or optionally 3° forward and 3° backward.

FM-X Driver Seated Reach Truck

Detailed Photos



Great view of goods thanks to unique sideshift mast



Individually adjustable driver workspace



Ergonomic and sensitive control thanks to Joystick 4Plus



Easy to operate all functions without grasping thanks to fingertip operation



Ergonomically optimal position thanks to proportional seat and footplate adjustment



Relaxed view upwards and beyond goods, thanks to unique comfortable reclining seat

FM-X Driver Seated Reach Truck

Top-level precision

13 metre lift height with high residual load capacity

Active Load Stabilisation (ALS)

Holistic ergonomics concept



The FM-X is always more than just a fork ahead of the rest. Thanks to Active Load Stabilisation (ALS) you can deal with the next goods transport while others would still be waiting for the mast to stop vibrating. An automatic equalising pulse provides a fast and effective way of stopping the vibrations from occurring at great heights, reducing the waiting time at the shelf by up to 80 per cent. The result is a significant increase in turnaround speed. Furthermore, the available storage space can be used more efficiently with the FM-X than ever before; the high residual load capacity means that the reach truck can lift loads of up to 1,000 kg to an incredible height of 13 metres.

Relaxed, comfortable and safe work throughout the whole shift guaranteed by the holistic ergonomics concept. Footplate, steering wheel, seat – all these components can be individually adjusted to match the work requirement at hand as well as the stature and preferences of the driver. The FM-X is a compact and efficient energy bundle convincing with top availability thanks to Li-Ion technology. This does not only allow opportunity charging at any time – it is also fast: 50% of the battery is chargeable in only 30 minutes. Many other details, such as the optional tilting seat and the exclusive STILL mast side shift, for example, make the FM-X an ideal organiser in any warehouse – from operating high racks to long distance haul or replenishment.

Extensive Equipment

Power

- Stable forklift mast with high residual load capacity for lift heights of up to 13 metres (1,000 kg)
- Powerful acceleration combined with high travel speeds of 14 km/h and lifting speeds of up to 0.50 m/s
- Sufficient energy for any use, thanks to battery capacities of 360 Ah to 930 Ah
- Lasting energy for multi-shift operation: high battery capacity and optional battery change over the side
- Top availability: The lithium-ion battery bundles a lot of energy and can be quickly and easily opportunity charged

Precision

- High reloading performance: reduced mast vibrations, thanks to Active Load Stabilisation (ALS) for greater lifting heights
- OPTISPEED reduces mast vibrations to a minimum for medium lifting heights and enables quick goods handling
- Great view of goods without being disrupted by hydraulic lines on the fork carriage, thanks to its unique sideshift mast
- Top precision right from the first millimetre thanks to the optical lift height sensor

Ergonomics

- Cushioned driver's seat to reduce impact when driving over uneven surfaces
- Seat can be adjusted to the best ergonomic position, thanks to proportional adjustment of the seat and foot plate
- Relaxed view upwards and beyond goods, thanks to unique comfortable reclining seat

- Easy to operate all functions without grasping, thanks to joystick or fingertip operation
- Easy storage and retrieval with the Easy Target lift height pre-selection system

Compactness

- Suitable for even the most narrow working widths, thanks to the reach truck concept
- Thanks to its particularly narrow chassis, the FM-X N is suitable for use in block storage and one-way shelving
- The FM-X W version allows picking up industrial pallets lengthwise between the straddle arms
- The FM-X EW version allows picking up industrial and Euro pallets crosswise between the straddle arms

Safety

- The large step and handle make it safe and easy to get in
- Versatile, flexible access control with FleetManager 4.x
- Extremely safe to drive round bends with curve speed control depending on steering angle

Environmental Responsibility

- Long-lasting and energy-saving LED headlights
- Blue-Q efficiency module saves up to 10% energy at the press of a button with no loss of performance
- Energy recovery when braking means you can use the machinery for longer with optimum use of resources
- Low operation costs: low energy consumption and long maintenance intervals

FM-X Driver Seated Reach Truck
Equipment Variants



		FM-X 10	FM-X 10 N	FM-X 12	FM-X 12 N	FM-X 14/W/EW	FM-X 14 N	FM-X 17/W/EW	FM-X 17 N	FM-X 20/W/EW	FM-X 20 N	FM-X 20 HD	FM-X 25/W/EW
Driver's seat	Amoured glass overhead guard with headrest	○	○	○	○	○	○	○	○	○	○	○	○
	Steering wheel and seat adjustment	●	●	●	●	●	●	●	●	●	●	●	●
	Comfortable seat with hydraulic damping and weight adjustment	●	●	●	●	●	●	●	●	●	●	●	●
	Comfortable reclining seat	○	—	○	—	○	—	○	—	○	—	○	○
	Cushioned driver's seat for optimum comfort on uneven surfaces and when going over bumps	○	—	○	—	○	—	○	—	○	—	○	○
	Heated driver's seat	○	○	○	○	○	○	○	○	○	○	○	○
	Leatherette driver's seat	○	○	○	○	○	○	○	○	○	○	○	○
	Proportional adjustment of seat and foot plate	○	—	○	—	○	—	○	—	○	—	○	○
	Joystick operation (hydraulic control system without grasping)	●	●	●	●	●	●	●	●	●	●	●	●
	Fingertip controls (hydraulic control system with four individual levers)	○	○	○	○	○	○	○	○	○	○	○	○
	Five driver profiles, selected according to operator	●	●	●	●	●	●	●	●	●	●	●	●
	Integrated storage facilities, drink holder	●	●	●	●	●	●	●	●	●	●	●	●
	Panoramic rear-view mirror	●	●	●	●	●	●	●	●	●	●	●	●
	Display: clear display of active operating states	●	●	●	●	●	●	●	●	●	●	●	●
Steering	Fully electric 360° steering	●	●	●	●	●	●	●	●	●	●	●	●
	Fully electric 180° steering	○	○	○	○	○	○	○	○	○	○	○	○
	Fully electric steering with reverse function	○	○	○	○	○	○	○	○	○	○	○	○
	Redundant steering safety system	●	●	●	●	●	●	●	●	●	●	●	●
Mast	Triple free view mast with free lift	○	○	○	○	○	○	○	○	○	○	●	○
	Hydraulic mast for lateral shifting with mast tilt	●	—	●	—	●	—	●	—	●	—	—	●
	Hydraulic sideshifter with fork tilt	○	●	○	—	○	●	○	—	○	●	○	○
	Mast reach damping system	●	●	●	●	●	●	●	●	●	●	●	●
Hydraulics	Free view fork carriage	●	●	●	●	●	●	●	●	●	●	●	●
	Ancillary hydraulics, onefold or twofold	○	○	○	○	○	○	○	○	○	○	○	○
	Proportional valve technology for sensitive movements	●	●	●	●	●	●	●	●	●	●	●	●
	Individual parametrisation options for hydraulic functions	●	●	●	●	●	●	●	●	●	●	●	●
Drives	Multiple hydraulic movements can be controlled simultaneously	●	●	●	●	●	●	●	●	●	●	●	●
	Smooth, continuous acceleration to maximum speed	●	●	●	●	●	●	●	●	●	●	●	●
	Maintenance-free drives for driving, steering and lifting	●	●	●	●	●	●	●	●	●	●	●	●
	Fully enclosed component which is impervious to dirt and dust	●	●	●	●	●	●	●	●	●	●	●	●
Brake	Integral current and temperature sensors for function monitoring	●	●	●	●	●	●	●	●	●	●	●	●
	Generator braking system	●	●	●	●	●	●	●	●	●	●	●	●
	Energy recovery when braking	●	●	●	●	●	●	●	●	●	●	●	●
	Hydraulic impeller brake as additional brake	●	●	●	●	●	●	●	●	●	●	●	●
Safety and performance	Electromagnetic disc brake as parking brake and emergency stop	●	●	●	●	●	●	●	●	●	●	●	●
	PIN code access, keyless, with button	○	○	○	○	○	○	○	○	○	○	○	○
	Indicator light	○	○	○	○	○	○	○	○	○	○	○	○
	Warning light	○	○	○	○	○	○	○	○	○	○	○	○
	Safety Light and Safety Light 4Plus	○	○	○	○	○	○	○	○	○	○	○	○
	LED headlights	○	○	○	○	○	○	○	○	○	○	○	○
	Overhead guard with Makrolon or mesh grid	○	○	○	○	○	○	○	○	○	○	○	○
	Steering angle-dependent speed control	○	○	○	○	○	○	○	○	○	○	○	○
	Stroke shut-off for intermediate stroke and/or end stroke limiting	○	○	○	○	○	○	○	○	○	○	○	○
	Lift height display	○	○	○	○	○	○	○	○	○	○	○	○
	Lift height pre-selection system Easy Target with Easy Target Plus	○	○	○	○	○	○	○	○	○	○	○	○
	FleetManager: access authorisation, shock detection, reports	○	○	○	○	○	○	○	○	○	○	○	○
	OPTISPEED: lift height and load-dependent speed regulation	○	○	○	○	○	○	○	○	○	○	○	○
	Active vibration damping of the mast	—	—	—	—	● ¹	○	● ¹	○	● ¹	○	●	● ¹
Battery system	Audible driving warning signal (Digisound)	○	○	○	○	○	○	○	○	○	○	○	○
	Battery changing with crane	●	●	●	●	●	●	●	●	●	●	●	●
	Battery changing from the side with roller track	○	○	○	○	○	○	○	○	○	○	○	○
	Battery compartment for 420 Ah battery	●	●	●	●	●	●	●	●	—	—	—	—
	Battery compartment for 560 Ah battery	○	○	○	○	○	○	○	○	●	●	—	—
	Battery compartment for 700 Ah battery	—	—	—	—	○	○	○	○	○	○	●	●
	Battery compartment for 900 Ah battery	—	—	—	—	—	—	—	—	○	○	○	○
	204 Ah STILL Li-Ion battery	○	○	○	○	○	—	○/—/—	—	—	—	—	—
	817 Ah STILL Li-Ion battery	○	○	○	○	○	—	○	—	○	—	○	○
	Battery transport and changing frame	○	○	○	○	○	○	○	○	○	○	○	○
Additional equipment	Various fork lengths	○	○	○	○	○	○	○	○	○	○	○	○
	Preparation for data terminal	○	○	○	○	○	○	○	○	○	○	○	○
	Automatic fork tilt and sideshift centring at the press of a button	○	○	○	○	○	○	○	○	○	○	○	○
	Cold store version	○	○	○	○	○	○	○	○	○	○	○	○
	Convenient cold store cab, ISO glazing, heated	○	—	○	—	○	—	○	—	○	—	○	○
	Convenient cold store cab, VSG glazing, heated	○	—	○	—	○	—	○	—	○	—	○	○
	Load backrest	○	○	○	○	○	○	○	○	○	○	○	○
	Overhead guard for drive-in racks	○	○	○	○	○	○	○	○	○	○	○	○
	Lateral guide wheels for drive-in operation	○	○	○	○	○	○	○	○	○	○	○	○
	Impeller cover	○	○	○	○	○	○	○	○	○	○	○	○
	Shift and lowering lock	○	○	○	○	○	○	○	○	○	○	○	○
	Prong camera system	○	○	○	○	○	○	○	○	○	○	○	○
	Dual-pedal control	○	○	○	○	○	○	○	○	○	○	○	○

¹ For fixed mast exceeding 3,700 mm in height

● Standard ○ Optional — Not available

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STILL is certified in the following areas: Quality management, occupational safety, environmental protection and energy management.

