



FM-X Technical Data Driver Seated Reach Truck



FM-X 10/Li-lon

FM-X 10 iGo systems

FM-X 12/Li-lon

FM-X 12 iGo systems

FM-X 14/Li-lon

FM-X 14 iGo systems

FM-X 17/Li-lon

FM-X 17 iGo systems

FM-X 20/Li-lon

FM-X 20 iGo systems

FM-X 25/Li-lon

FM-X 25 iGo systems



iGo systems



FM-X Driver Seated Reach Truck Precision at the Highest Level

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.



1.1	1	Manufacturer				STILL	STILL	STILL	STILL	STILL	STILL	STILL	STILL
1.2	2	Manufacturer's type designation				FM-X 10/Li-lon	FM-X 10 N	FM-X 12/Li-lon	FM-X 12 N	FM-X 14/Li-lon	FM-X 14 N	FM-X 14 W/Li-Ion	FM-X 14 EW/Li-Ion
1.3	3	Drive				Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric
S 1.4	4	Operator type				Seated	Seated	Seated	Seated	Seated	Seated	Seated	Seated
TE 1.5	5	Rated capacity/rated load		Q	kg	1000	1000	1200	1200	1400	1400	1400	1400
1.6		Load capacity at load centre distance		С	mm	600	600	600	600	600	600	600	600
1.8		Load centre distance ¹		X	mm		184	278	184	348	335	276	276
1.9		Wheel base		V	mm		1275	1275	1275	1381	1453	1381	1381
2.1		Service weight (incl. battery)		,	kg		3200	3240	3210	3470	3430	3700	3750
至 2.3	2100	Axle load, unladen	drive end/load end			2040/1190	1970/1230	2130/1100	1970/1230	2250/1220	2120/1310	2290/1410	2330/1420
Neig 2.4		Axle load, fork advanced, laden	drive end/load end			960/3270	920/3280	850/3580	920/3280	850/4010	860/3970	960/1410	1000/4150
2.5		Axle load, fork retracted, laden	drive end/load end			1730/2500	1590/2610	1820/2610	1590/2610	1950/2910	1770/3060	1920/3180	1960/3190
3.1		Tyres	arivo oria/road oria			Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane
3.2		Tyre size	drive end			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			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
/sa_/ 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
3.7		Tread	load end	hii	mm		1037	1167	1037	1167	1037	1367	1567
4.1		Tilt of mast/fork carriage	forward/backward ³		0		2/4	1/3	2/4	1/3	2/4	1/3	1/3
4.2		Height	mast lowered		mm		2450	2450	2450	2450	2450	2450	2450
4.2		Free lift	mascioweieu	h ₂	mm		1890	1890	1890	1890	1890	1890	1890
4.4		Lift		h ₃	mm		5750	5750	5750	5750	5750	5750	5750
4.4		Height	mast extended	-	mm		6310	6310	6310	6310	6310	6310	6310
4.5		Height of overhead guard (cabin) ⁴		h ₆			2200	2200 (iGo systems 2500)	2200	2200 (iGo systems 2500)	2200	2200	2200
4.7		Seat height		h ₇	mm		1140	1140	1140	1140	1140	1140	1140
4.0		Height of wheel arms		h ₈	mm		308	308	308	308	308	308	308
4.1		Overall length ^{2, 5, 6}		118	mm		2462	2366	2462	2402	2488	2474	2474
4.1		Length to face of forks ^{2, 5, 6}		12	mm		1312	1216	1312	1252	1338	1324	1324
s 4.2		Overall width		b ₁ /b ₂		1270 (iGo systems 1440)	1140	1270 (iGo systems 1440)	1140	1270 (iGo systems 1440)	1140	1470	1670
_		Fork dimensions	DIN ISO 2331			40/80/1150	40/80/1150	40/100/1150	40/100/1150	40/100/1150	40/100/1150	40/100/1150	40/100/1150
			DIN 130 2331	5/e/1		2/A	2/A	2/A	2/A	2/A	2/A	2/A	2/A
4.2		Fork carriage ISO 2328, class/type A, B		h	mm		760	760	760	760	760	760	760
		Fork carriage width		b ₃									
4.2		Distance between fork arms	min./max.		mm	296/600	296/600 790	296/600 920	296/600 790	316/620 920	316/620 790	316/620 1120	316/620 1320
4.2		Distance between wheel arms/loading surfaces		b ₄									
4.2		Reach distance		14	mm mm		364	449 70	364 70	529	515	457	457
4.3		Ground clearance, laden, below mast		m ₁			70			70	70	70	70
4.3		Ground clearance, centre of wheel base		m ₂	mm		70	70	70	70	70	70	70
		Aisle width for pallets 1000 x 1200 crossways ²		A _{st}		2679 (iGo systems 3000 ⁷)		2679 (iGo systems 3000 ⁷)	2733	2727 (iGo systems 3000 ⁷)	2787	2821	2861
		Aisle width for pallets 800 x 1200 lengthways ²		Ast		2746 (iGo systems 3150 ⁷)	2812	2746 (iGo systems 3150 ⁷)	2812	2782 (iGo systems 3150 ⁷)	2845	2887	2927
		Turning radius		Wa	mm		1520	1540	1520	1640	1691	1680	1720
4.3		Length across wheel arms		l ₇	mm		1641	1639	1641	1745	1817	1745	1745
		Step height			mm		345	345	345	345	345	345	345
5.1		Travel speed	laden/unladen			14/14 (iGo systems 6/6)	14/14	14/14 (iGo systems 6/6)	14/14	14/14 (iGo systems 6/6)	14/14	14/14	14/14
		Travel speed backwards	laden/unladen		km/h		14/14	14/14	14/14	14/14	14/14	14/14	14/14
5.2		Lifting speed	laden/unladen			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				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
90 5.4	4	Reaching speed	laden/unladen		m/s		0.18	0.18	0.18	0.18	0.18	0.18	0.18
		Gradeability	laden/unladen		%		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
2 5.9	9	Acceleration time (over 10 m)	laden/unladen			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
5.1	10	Service brake				Regenerative- electric/	Regenerative- electric/	Regenerative- electric/	Regenerative- electric/	Regenerative- electric/	Regenerative- electric/	Regenerative- electric/	Regenerative- electric/
						hydraulic	hydraulic	hydraulic	hydraulic	hydraulic	hydraulic	hydraulic	hydraulic
6.1	1	Drive motor rating S2 = 60 min			kW	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
ஓ 6.2	2	Lift motor rating S3 = 15%			kW		13	14	14	14	14	14	14
ing 6.3	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
ctric e	4	Battery voltage/nominal capacity K₅			V/Ah	48/465 Li-lon: 48/204	48/465	48/465 Li-lon: 48/204	48/465	48/465 Li-lon: 48/204	48/465	48/620 Li-lon: 48/204	48/620 Li-lon: 48/204
6.5	5	Battery weight (depending on manufacturer ±5%)			kg		750	750	750	750	750	940	940
6.6		Energy consumption according to VDI cycle			kWh/h		2.88	3.23	3.23	3.40	3.40	3.40	3.40
		Operating pressure for attachments			bar		200	200	200	200	200	200	200
ý 10		Oil volume for attachments			I/min		20	20	20	20	20	20	20
>		Sound pressure level at driver's seat			dB(A)		69	69	69	69	69	69	69
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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 optional cabin/wind protection, height h₀ is 2180 mm

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

 $^{^{\}rm 6}$ 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

⁷ Based on smallest battery tray. An additional reduction of up to 150 mm is subject to detailed investigation



FM-X Driver Seated Reach Truck Precision at the Highest Level

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.



1.1	Manufacturer			STILL	STILL	STILL	STILL	STILL	STILL
1.2	Manufacturer's type designation			FM-X 17/Li-lon	FM-X 17 N	FM-X 17 W/Li-lon	FM-X 17 EW/Li-lon	FM-X 20/Li-lon	FM-X 20 N
1.3	Drive			Electric	Electric	Electric	Electric	Electric	Electric
Sel 1.4	Operator type			Seated	Seated	Seated	Seated	Seated	Seated
1.5	Rated capacity/rated load	0	ka	1700	1700	1700	1700	2000	2000
1.6	Load capacity at load centre distance	C	0	600	600	600	600	600	600
1.8	Load centre distance 1	V	mm		325	338	338	410	307
1.9	Wheel base	\ \		1453	1453	1453	1453	1525	1525
2.1	Service weight (incl. battery)	У		3470	3500	3740	3790	3820	3830
2.1	Axle load, unladen drive end/load end			2290/1180	2220/1280	2390/1350	2440/1350	2470/1350	2450/1380
0				730/4440	670/4520	900/4550	950/4550	820/5000	830/5010
2.4			0						
2.5	Axle load, fork retracted, laden drive end/load end		kg	2030/3140	1850/3340	2050/3390	2100/3390	2180/3640	2010/3820
3.1	Tyres			Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane
3.2	Tyre size drive end			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			1167	1037	1367	1567	1167	1037
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		2450	2450	2450	2450	2450	2450
4.3	Free lift	h ₂		1880	1880	1880	1880	1880	1880
4.4	Lift	h ₃		5750	5750	5750	5750	5580	5580
4.5	Height mast extended	h ₄		6320	6320	6320	6320	6150	6150
4.7	Height of overhead guard (cabin) ⁴	h ₆		2200 (iGo systems 2500)	2200	2200	2200	2200 (iGo systems 2500)	2200
4.8	Seat height	h ₇		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		2412	2499	2484	2484	2484	2589
4.20	Length to face of forks ^{2, 5, 6}	2		1262	1349	1334	1334	1334	1439
<u>م</u> 4.21	Overall width	b ₁ /b ₂		1270 (iGo systems 1440)	1140	1470	1670	1270 (iGo systems 1440)	1140
	Fork dimensions DIN ISO 2331			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	0/0/		2/A	2/A	2/A	2/A	2/A	2/A
	Fork carriage width	b ₃	mm		760	760	760	760	760
4.25	Distance between fork arms min./max.			316/620	316/620	316/620	316/620	316/620	316/620
4.26	Distance between wheel arms/loading surfaces	b ₄	mm		790	1120	1320	920	790
4.28	Reach distance	D4	mm		505	519	519	623	520
4.20	Ground clearance, laden, below mast	m ₁	mm		70	70	70	70	70
	Ground clearance, raden, below mass		mm		70	70	70	70	70
4.32		m ₂			2795	2844	2879		2879
	Aisle width for pallets 1000 x 1200 crossways ²	A _{st}		2752 (iGo systems 3050 ⁷)				2820 (iGo systems 3100 ⁷)	2941
	Aisle width for pallets 800 x 1200 lengthways ²	Ast		2796 (iGo systems 3150 ⁷)	2854	2901	2936	2864 (iGo systems 3200 ⁷)	
	Turning radius	Wa		1710	1691	1750	1785	1778	1762
4.37	Length across wheel arms	l ₇		1817	1819	1817	1817	1922	1924
	Step height		mm		345	345	345	345	345
5.1	Travel speed laden/unladen			14/14 (iGo systems 6/6)	14/14	14/14	14/14	14/14 (iGo systems 6/6)	14/14
5.1.1				14/14	14/14	14/14	14/14	14/14	14/14
5.2	Lifting speed laden/unladen			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			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			0.18	0.18	0.18	0.18	0.18	0.18
E 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
2 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
				Regenerative-	Regenerative-	Regenerative-	Regenerative-	Regenerative-	Regenerative-
5.10	Service brake			electric/	electric/	electric/	electric/	electric/	electric/
()			1.347	hydraulic	hydraulic	hydraulic	hydraulic	hydraulic	hydraulic
6.1	Drive motor rating S2 = 60 min			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
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_{δ}		V/Ah	48/465 Li-lon: 48/204	48/465	48/420 Li-lon: 48/817	48/620 Li-lon: 48/817	48/620 Li-Ion: 48/817	48/620
6.5	Battery weight (depending on manufacturer ±5%)			750	750	940	940	940	940
6.6	Energy consumption according to VDI cycle	k	(Wh/h		3.56	3.56	3.56	3.59	3.59
. 10.1	Operating pressure for attachments		bar	200	200	200	200	200	200
10.2	Oil volume for attachments		I/min		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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⁻ 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 optional cabin/wind protection, height h_6 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

⁷ Based on smallest battery tray. An additional reduction of up to 150 mm is subject to detailed investigation



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1.1	Manufacturer			STILL	STILL	STILL	STILL	STILL	STILL
1.2	Manufacturer's type designation			FM-X 20 W/Li-lon	FM-X 20 EW/Li-Ion	FM-X 20 HD/Li-lon	FM-X 25/Li-lon	FM-X 25 W/Li-lon	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	С	mm	600	600	600	600	600	600
1.8	Load centre distance 1	X	mm		410	482	482	482	482
1.9	Wheel base	V	mm	1525	1525	1669	1669	1669	1669
2.1	Service weight (incl. battery)			3870	3920	5110	4110	4140	4170
至 2.3	Axle load, unladen drive end/load end			2490/1380	2510/1410	3030/2080	2640/1470	2620/1520	2600/1570
Neig 2.4	Axle load, fork advanced, laden drive end/load end			840/5030	860/5060	900/6410	810/5790	790/5840	770/5890
2.5	Axle load, fork retracted, laden drive end/load end		_	2200/3670	2220/3700	2810/4500	2420/4190	2400/4240	2380/4290
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			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	h11	mm	1367	1567	1167	1167	1367	1567
4.1	Tilt of mast/fork carriage forward/backward ³			1/3	1/3	2/4	1/3	1/3	1/3
4.2	Height mast lowered			2450	2450	5200	2450	2450	2450
4.2	Free lift	h ₂		1880	1880	4578	1828	1828	1828
4.4		h ₃		5580	5580	12500	5580	5580	5580
4.4	Height mast extended		100000000000000000000000000000000000000	6150	6150	13122	6202	6202	6202
4.7		h ₆		2200	2200	2200 (iGo systems 2500)	2200 (iGo systems 2500)	2200	2200
4.7	Seat height	h ₂		1140	1140	1140	1140	1140	1140
4.10	Height of wheel arms	h-	mm		373	373	373	373	373
4.10	Overall length ^{2, 5, 6}	118		2484	2484	2556	2556	2556	2556
4.19		12		1334	1334	1406	1406	1406	1406
4.20 4.21	Overall width			1470	1670	1270 (iGo systems 1440)	1270 (iGo systems 1440)	1470	1670
		b ₁ /b ₂		50/100/1150					
9.50 4.22	Fork dimensions DIN ISO 2331 Fork carriage ISO 2328, class/type A, B	s/e/I	mm	2/A	50/100/1150	50/120/1150	50/120/1150	50/120/1150	50/120/1150
4.23	· · · · · · · · · · · · · · · · · · ·	L			2/A	2/A 760	2/A 760	2/A 760	2/A 760
	Fork carriage width	b ₃	mm		760				
4.25	Distance between fork arms min./max.			316/620	316/620	336/640	336/640	336/640	336/640
4.26	Distance between wheel arms/loading surfaces	b ₄		1120	1320	920	920	1120	1320
4.28	Reach distance	14	mm		623	695	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	50	50	50	50
	Aisle width for pallets 1000 x 1200 crossways ²	A _{st}		2857	2892	2908 (iGo systems 3250 ⁷)	2908 (iGo systems 3250 ⁷)	2943	2978
4.34.2		A _{st}		2901	2936	2937 (iGo systems 3300 ⁷)	2937 (iGo systems 3300 ⁷)	2972	3007
	Turning radius	Wa		1815	1850	1915	1915	1950	1985
4.37	Length across wheel arms	l ₇		1922	1922	2066	2066	2066	2066
4.43	Step height		mm		345	345	345	345	345
5.1	Travel speed laden/unladen			14/14	14/14	14/14 (iGo systems 6/6)	14/14 (iGo systems 6/6)	14/14	14/14
5.1.1	Travel speed backwards laden/unladen			14/14	14/14	14/14	14/14	14/14	14/14
5.2	Lifting speed laden/unladen			0.37/0.58	0.37/0.58	0.34/0.50	0.34/0.50	0.34/0.50	0.34/0.50
5.3	Lowering speed laden/unladen			0.53/0.50	0.53/0.50	0.52/0.50	0.52/0.50	0.52/0.50	0.52/0.50
<u>වූ</u> 5.4	Reaching speed laden/unladen		m/s		0.18	0.18	0.18	0.18	0.18
	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
				Regenerative-	Regenerative-	Regenerative-	Regenerative-	Regenerative-	Regenerative-
5.10	Service brake			electric/ hydraulic	electric/ hydraulic	electric/ hydraulic	electric/ hydraulic	electric/ hydraulic	electric/ hydraulic
<i>(</i> 1	Drive mater rating C2 - 40 min		L-\A/	,				,	,
6.1	Drive motor rating S2 = 60 min Lift motor rating S3 = 15%		kW	6.5	6.5	6.5	6.5	6.5	6.5
e 6.2					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	43531 C/254-2
6.4	Battery voltage/nominal capacity K₅		V/Ah	48/620 Li-lon: 48/817	48/620 Li-lon: 48/817	48/775 Li-lon: 48/817	48/775 Li-lon: 48/817	48/775 Li-lon: 48/817	48/775 Li-lon: 48/817
□ 6.5	Battery weight (depending on manufacturer ±5%)			940	940	1120	1120	1120	1120
6.6	Energy consumption according to VDI cycle		kWh/h		3.59	3.59	4.49	4.49	4.49
10.1	Operating pressure for attachments			200	200	200	200	200	200
10.2	Oil volume for attachments		I/min		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;

⁻ 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°

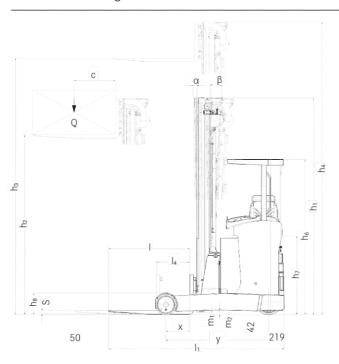
 $^{^4}$ With optional cabin/wind protection, height h_6 is 2180 mm 5 With optional cabin, length will be extended by 150 mm

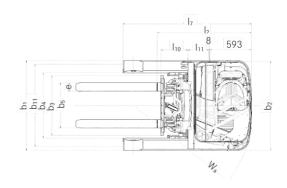
⁶ Increases in steps of 72 mm for each larger battery size for FM-X, FM-X W, FM-X EW models

Increases in steps of 90 mm for each larger battery size for FM-X N model

7 Based on smallest battery tray. An additional reduction of up to 150 mm is subject to detailed investigation







Side view Top view





FM-X Driver Seated Reach Truck Mast Tables



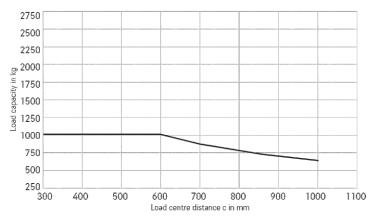
	Triplex							
	Height,	Free lift	Lift	Height,				
	mast lowered h ₁ in mm	h₂ in mm	h₃ in mm	mast extended h₄ in mm				
	1950	1390	4250	4810				
z >	2015	1455	4440	5000				
/12 4 EV	2050	1490	4550	5110				
X 12 N/1	2200	1640	5000	5560				
FM-)	2250	1690	5150	5710				
- Z	2300	1740	5300	5860				
/10	2400	1840	5600	6160				
5 ×	2450	1890	5750	6310				
FM-X 10/10 N - FM-X 12/12 N FM-X 14/14 N/14 W/14 EW	2500	1940	5900	6460				
	2600	2040	6200	6760				
5 0	2700	2140	6500	7060				
××	2800	2240	6700	7260				
ÄΕ̈́Ε	2900	2340	7000	7560				
(10 N FM-X 10 (12 N FM-X 12	2800	2240	6700	7360				
FM-X FM-X	2900	2340	7000	7660				
	2800	2240	6800	7360				
>	2900	2340	7100	7660				
FM-X 14/14 N/14 W/14 EW	3000	2440	7400	7960				
W //	3100	2540	7700	8260				
14	3200	2640	8000	8560				
N 4	3300	2740	8300	8860				
4/1	3400	2840	8600	9160				
×	3500	2940	8900	9460				
Ė	3600	3040	9200	9760				
	3700	3140	9500	10060				
	3800	3240	9800	10360				
	1950 2015	1380 1445	4250 4440	4820 5010				
	2050	1480	4550	5120				
	2200	1630	5000	5570				
	2250	1680	5150	5720				
	2300	1730	5300	5870				
	2400	1830	5600	6170				
	2450	1880	5750	6320				
z	2500	1930	5900	6470				
X 1	2600	2030	6200	6770				
¥	2700	2130	6500	7070				
ż	2800	2230	6800	7370				
17	2900	2330	7100	7670				
FM-X 14 N - FM-X 17 N	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				
	3700	3130	9500	10070				
	3800	3230	9800	10370				
>	3900	3330	10100 ¹	10670				
N/ 7 EV	4200	3630	10500 ¹	11070				
71/	4300	3730	10800 ¹	11370				
X 17	4400	3830	11100¹	11670				
FM-X 17/17 N/ FM-X 17 W/17 EW	4500	3930	11400 ¹	11970				
E	4700	4130	11800 ¹	12370				

 $^{^{\}scriptscriptstyle 1}$ Lift height $h_{\scriptscriptstyle 3}$ for iGo systems trucks: up to 10000 mm

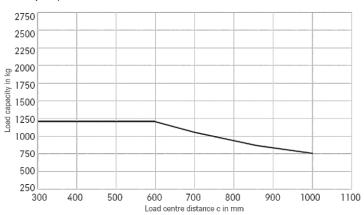
	Triplex							
	Height, mast lowered h ₁ in mm	Free lift h₂ in mm	Lift h₃ in mm	Height, mast extended h4 in mm				
	1950	1380	4080	4650				
	2015	1445	4270	4840				
	2050	1480	4380	4950				
	2200 2250	1630 1680	4830 4980	5400 5550				
	2300	1730	5130	5700				
	2400	1830	5430	6000				
	2450	1880	5580	6150				
EW	2500	1930	5730	6300				
	2600	2030	6030	6600				
FM-X 20/20 N/20 W/20	2700	2130	6330	6900				
N/2	2800	2230	6630	7200				
/20	2900 3000	2330 2430	6930 7200	7500 7770				
x 20	3100	2530	7500	8070				
FM-)	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 4000	3330 3430	9800 10100 ¹	10370 10670				
	4100	3530	10400 ¹	10970				
EW	4200	3630	10700 ¹	11270				
N/20	4300	3730	11000 ¹	11570				
20 \	4400	3830	11300¹	11870				
20/	4500	3930	11600 ¹	12170				
FM-X 20/20 W/20 EW	4650	4080	12050 1	12620				
	5200	4630	12500 1	13070				
0	5350	4780	13000 ¹	13570				
FM-X 20 HD	5200	4578	12500 ¹	13122				
FM-	5350	4728	13000 ¹	13622				
	1950	1328	4080	4702				
	2015 2050	1393	4270 4380	4892				
	2200	1428 1578	4830	5002 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 2800	2078 2178	6330 6630	6952 7252				
	2900	2176	6930	7552				
EW	3000	2378	7200	7822				
1/25	3100	2478	7500	8122				
25 W	3200	2578	7800	8422				
FM-X 25/25 W/25 EW	3300	2678	8000	8622				
X-M	3400	2778	8300	8922				
ш	3450	2828	8450	9072				
	3500	2878	8600	9222				
	3600	2978	8900	9522				
	3700 3800	3078 3178	9200 9500	9822 10122				
	3900	3278	9800	10422				
	4000	3378	10100 ¹	10722				
	4100	3478	10400 ¹	11022				
	4200	3578	10700 ¹	11322				
	4300	3678	11000 ¹	11622				
	4400	3778	11300 1	11922				
	4500	3878	116001	12222				
	4650	4028	12050 ¹	12672				



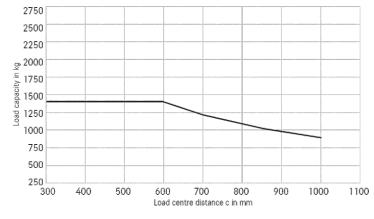
Load capacity FM-X 10/10 N



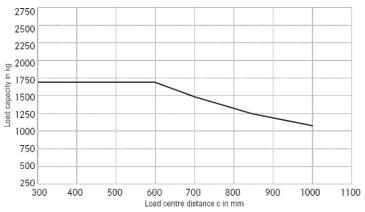
Load capacity FM-X 12/12 N



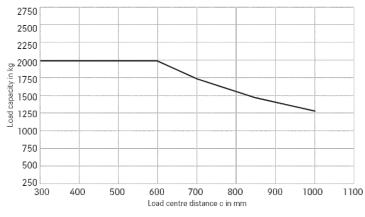
Load capacity FM-X 14/14 N/14 W/14 EW



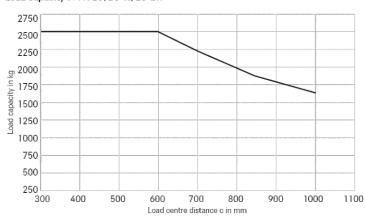
Load capacity FM-X 17/17 N/17 W/17 EW



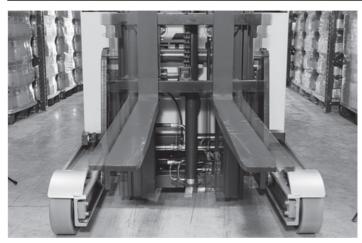
Load capacity FM-X 20/20 N/20 W/20 EW/20 HD



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







Optimal view of goods thanks to unique sideshift mast



Individually adjustable driver workspace



Ergonomic and sensitive control thanks to Joystick 4Plus



Easy operation of all functions without having to change grip thanks to fingertip operation



Ergonomically optimal position thanks to proportional adjustment of seat and footplate $% \left\{ \mathbf{p}_{i}^{\mathbf{p}}\right\} =\mathbf{p}_{i}^{\mathbf{p}}$



Relaxed view upwards and past the goods thanks to the unique comfortable reclining seat



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 that occur at great heights, reducing the waiting time at the shelf by up to 80 per cent. The result is a significant increase in the rate of turnover. Furthermore, with the FM-X the available storage space can be used more efficiently 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 is 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-lon 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.

The 'Simply Efficient' factors: Performance attributes as a measure of economic efficiency



Simply easy

- Precise height measurement with optical LED lift height sensor
- High handling capacity thanks to optional Easy Target and Easy Target Plus lift height pre-selection
- Precise control of lift functions using optional Joystick 4Plus or Fingertip controls
- Fatigue-free operation thanks to cushioned driver's seat with optional reclining mechanism
- With iGo systems trucks, further trucks can be added at any time so as to expand transportation capacity



Simply powerful

- Impressive goods handling thanks to residual load capacity of 1,000 kg at a height of 13 m, automated with iGo systems 10 m
- Fast goods handling due to a travel speed of up to 14 km/h, automated with iGo systems 6 km/h
- Reduced idle time due to high lowering and lifting speeds
- Excellent availability thanks to a battery capacity of up to 930 Ah
- The software-based transport controls for the FM-X iGo systems enable optimal fleet utilisation, whilst guaranteeing a high level of process reliability, traffic management, visualisation of truck movements, battery charge status monitoring and a reduced error rate - the flow of materials and information is always reliable and mapped comprehensively and transparently



Simply safe

- Reduced forklift mast vibrations and less damage to goods due to Active Load Stabilisation (ALS) and OptiSpeed (both optional)
- Unobstructed view upwards due to optional armoured glass roof

- Excellent visibility in the warehouse thanks to optional STILL Safety Light
- Safe cornering with (optional) Curve Speed Control based on the steering angle
- FM-X iGo systems improves transport quality and eliminates the risk of injury and damage to people, trucks, warehouse equipment and goods thanks to smart safety functions



Simply flexible

- Clever utilisation of space thanks to retractable mast
- Optimal comfort with a wide range of cab variants and driver workstation settings
- Suitable for a wide range of application scenarios thanks to multiple chassis variants
- iGo systems trucks can be manually operated if required: this
 increases flexibility, ensures smooth processes and material flows,
 and enables easy access to the goods



Simply connected

- Operator management, shock detection and controlled access with optional FleetManager 4.x
- With intelligent interface architecture, all automation solutions can communicate with external systems
- Easy integration into material flow management systems thanks to MMS provision
- Different iGo systems trucks can be combined with one another, with manual transport systems and with stationary automation systems



Safety guaranteed: smart safety functions increase transport quality and eliminate the risk of injury and damage to people, trucks, warehouse installations and goods

Outstanding process standards: picking errors and empty runs are prevented, increasing the transport quality

Maximum availability: efficient transport control and IT integration enable optimal fleet utilisation around the clock

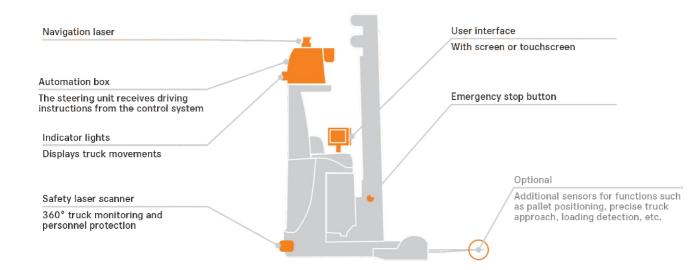
Optimal cost-effectiveness and efficiency thanks to individual automation concepts as well as transparent and optimised continuous material flow



iGo systems - Automated transport solutions

STILL iGo systems enables automated interaction between one or more different trucks so that transport tasks in the warehouse can be performed without a driver. No matter what your transport task, we have the right automated truck for you. The various trucks in the iGo systems portfolio assist with incoming and outgoing goods, storage, buffering, order picking, as well as production supply and disposal. The iGo software takes over control and traffic regulation tasks, achieves effective fleet utilisation and monitors all battery charge statuses. Modern navigation technology is used to guide the trucks through the warehouse.

Personnel protection scanners ensure the highest level of safety, while suitable sensors accurately detect pallets. The fully automated STILL devices cooperate effectively with manually controlled and semi-automated transport systems. Automation kits with standardised components, controls and interfaces transform a series truck into an industrial AGV (automated guided vehicle). We offer you reliable and scalable solutions across the entire automation spectrum. With your return on investment always in mind, we will support you all the way: from conception and quoting to implementation and maintenance.



Advantages of automated reach trucks

Automated reach trucks such as the FM-X iGo systems are a real asset for wide-aisle and block storage both horizontally and vertically. The FM-X iGo systems is characterised by optimal safety and reliability for driverless transport over long distances. It also offers decisive advantages for transport tasks that require high levels of precision in challenging conditions: The automated handling improves efficiency and process reliability – for example, when storing or removing heavy loads at great heights or when loading one-way shelves or fully automated shuttle systems. Automated reach trucks are therefore the perfect solution for current and future intralogistical challenges.

The following safety features are integrated: a safety laser scanner that detects people and objects in the path of travel; visual and acoustic warning systems (e.g. when changing direction of travel); and an emergency stop button that can be used to bring the forklift truck to an immediate standstill. However, we understand that not every technological innovation is financially feasible for the task at hand. We therefore aim to ensure that you do not get lost in the dense jungle of digital Industry 4.0 products, and offer a mix of technical solutions perfectly suited to your needs.

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
Amoured glass overhead guard with headrest	0	0	0	0	0	0	0	0	0	0	0	0
Steering wheel and seat adjustment	•	•	•	•	•	•	•	•	•	•	•	•
Comfortable seat with hydraulic damping and weight adjustment	•	•	0	• -	•	• -	0	_	•	_	0	•
Comfortable reclining seat Cushioned driver's seat for optimum comfort on uneven surfaces and when going over bumps	0	_	0		0	_	0	_	0	_	0	0
Heated driver's seat	0	0	0	0	0	0	0	0	0	0	0	0
Leatherette driver's seat	0	0	0	0	0	0	0	0	0	0	0	0
Proportional adjustment of seat and foot plate	0	_	0	_	0	_	0	_	0	_	0	0
Joystick operation (hydraulic control system without changing grip)	•	•	•	•	•	•	•	•	•	•	•	•
Fingertip controls (hydraulic control system with four individual levers)	0	0	0	0	0	0	0	0	0	0	0	0
Five driver profiles, selected according to operator	•	•	•	•	•	•	•	•	•	•	•	•
Integrated storage facilities, cup holder Panoramic rear-view mirror												
Display: clear display of active operating states												
Fully electric 360° steering	•	•	•	•	•	•	•	•	•	•	•	•
Fully electric 180° steering	0	0	0	0	0	0	0	0	0	0	0	0
Fully electric steering with reverse function	0	0	0	0	0	0	0	0	0	0	0	0
Redundant steering safety system	•	•	•	•	•	•	•	•	•	•	•	•
Triple free view mast with free lift	0	0	0	0	0	0	0	0	0	0	•	0
Hydraulic mast for lateral shifting with mast tilt	•	_	•	_	•	_	•	_		_		•
Hydraulic sideshifter with fork tilt Mast reach damping system	0		0	•	0	-	0	•	0	•	0	0
Free view fork carriage											•	
Ancillary hydraulics, onefold or twofold	0	0	0	0	0	0	0	0	0	0	0	0
Proportional valve technology for sensitive movements	•	•	•	•	•	•	•	•	•	•	•	•
Individual parametrisation options for hydraulic functions	•	•	•	•	•	•	•	•	•	•	•	•
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	•	•	•	•	•	•	•	•	•	•	•	•
Integral current and temperature sensors for function monitoring	•	•	•	•	•	•	•	•		•	•	•
Generator braking system Energy recovery when braking												
Hydraulic impeller brake as additional brake			•	•		•		•				
Electromagnetic disc brake as parking brake and emergency stop	•	•	•	•	•	•	•	•	•	•	•	•
PIN code access, keyless, with button	0	0	0	0	0	0	0	0	0	0	0	0
Indicator light	0	0	0	0	0	0	0	0	0	0	0	0
Warning light	0	0	0	0	0	0	0	0	0	0	0	0
Safety Light and Safety Light 4Plus	0	0	0	0	0	0	0	0	0	0	0	0
B LED headlights	0	0	0	0	0	0	0	0	0	0	0	0
Overhead guard with Makrolon or mesh grid	0	0	0	0	0	0	0	0	0	0	0	0
Steering angle-dependent speed control Stroke shut-off for intermediate stroke and/or end stroke limiting	0	0	0	0	0	0	0	0	0	0	0	0
Lift height display	0	0	0	0	0	0	0	0	0	0	0	0
Lift height pre-selection system Fasy Target with Fasy Target Plus	0	0	0	0	0	0	0	0	0	0	0	0
FleetManager: access authorisation, shock detection, reports	0	0	0	0	0	0	0	0	0	0	0	0
OPTISPEED: lift height and load-dependent speed regulation	0	0	0	0	0	0	0	0	0	0	0	0
Active vibration damping of the mast	-	_	_	_	● 1	0	● 1	0	● 1	0	•	● 1
Audible driving warning signal (Digisound)	0	0	0	0	0	0	0	0	0	0	0	0
Maximum safety through iGo systems automation	0	0	0	0	0	0	0	0	0	0	0	0
Battery changing with crane Battery changing from the side with roller track	•	0	•	•	•	0	0	0	•	0	•	0
Battery changing from the side with roller track Battery compartment for 420-465 Ah battery	•		•	•	0		•		_			<u> </u>
Battery compartment for 480-620 Ah battery	0	0	0	0	0	0	0	0	•	•	_	_
Battery compartment for 600-775 Ah battery	_	_	_	_	0	0	0	0	0	0	•	•
Battery compartment for 720-930 Ah battery	· -	· —	_	_	_	_	_	 2	0	0	0	0
204 Ah STILL Li-lon battery	0	0	0	0	0	_	0/—/—	_	_	_	_	_
817 Ah STILL Li-lon battery	0	0	0	0	0	_	0	_	0	_	0	0
Battery transport and changing frame	0	0	0	0	0	0	0	0	0	0	0	0
Various fork lengths	0	0	0	0	0	0	0	0	0	0	0	0
Preparation for data terminal Automatic fork tilt and sideshift centring at the press of a button	0	0	0	0	0	0	0	0	0	0	0	0
Automatic fork tilt and sideshift centring at the press of a button Cold store version	0	0	0	0	0	0	0	0	0	0	0	0
Convenient cold store cab, ISO glazing, heated	0	_	0	_	0	_	0	_	0		0	0
Convenient cold store cab, VSG glazing, heated	0	_	0	_	0	_	0	_	0	_	0	0
Load backrest	0	0	0	0	0	0	0	0	0	0	0	0
Overhead guard for drive-in racks	0	0	0	0	0	0	0	0	0	0	0	0
Lateral guide wheels for drive-in operation	0	0	0	0	0	0	0	0	0	0	0	0
Impeller cover	0	0	0	0	0	0	0	0	0	0	0	0
Shift and lowering lock	0	0	0	0	0	0	0	0	0	0	0	0
				_			_			_	_	
Prong camera system Dual-pedal control	0	0	0	0	0	0	0	0	0	0	0	0

[•] Standard • Option — Not available

4







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

