

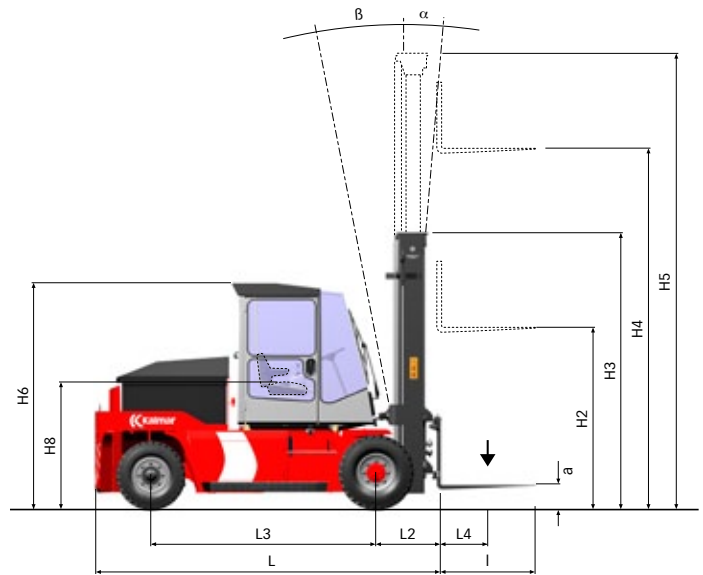
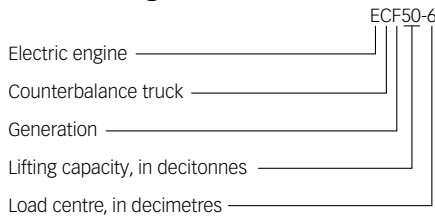
Kalmar ECF50-90L

Lift trucks 5 – 9 tonnes



Electrical Lift trucks 5 – 9 tonnes

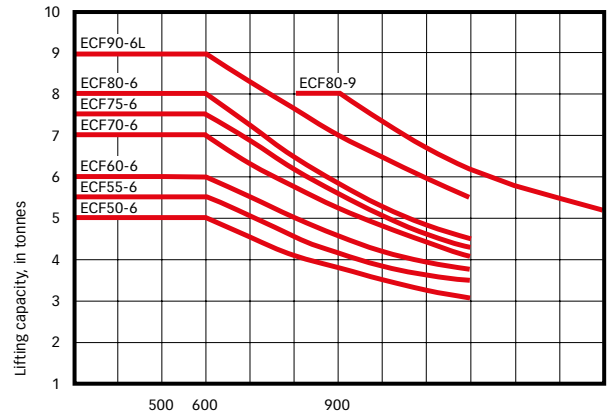
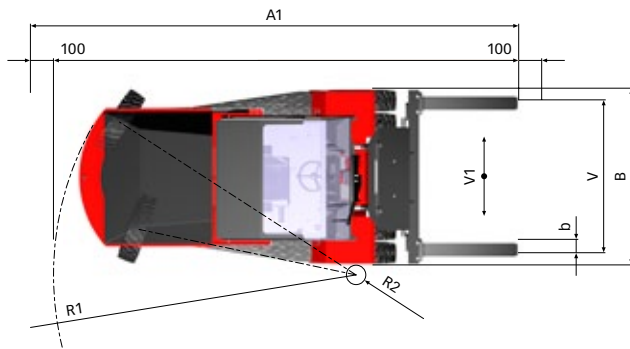
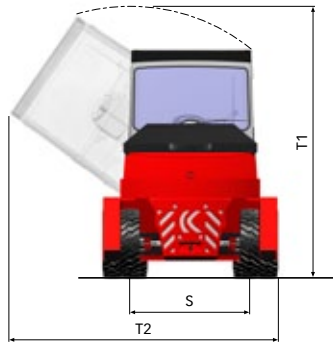
Model designation



Dimensions

		ECF50-6	ECF55-6	ECF60-6	ECF70-6	ECF75-6	ECF80-6	ECF80-9	ECF90-6L
Lifting capacity	Rated (kg)	5000	5500	6000	7000	7500	8000	8000	9000
	Load centre (mm)	L4	600	600	600	600	600	600	600
Truck	Truck length (mm)	L	3285	3285	3770	3770	4030	4030	4120
	Truck width (mm)	B	1550	1550	2000	2000	2000	2000	2000
	Height, basic machine, Spirit Delta (mm)	H6	2590	2590	2590	2590	2590	2590	2590
	Height, basic machine, Spirit Delta Space (mm)	H6	–	–	3090	3090	3090	3090	3090
	Height, basic machine, FlexCab / FlexGuard (mm)	H6	2690	2690	2690	2690	2690	2690	2690
	Seat height, Spirit Delta / FlexCab / FlexGuard (mm)	H8	1440	1440	1440	1440	1440	1440	1440
	Seat height, Spirit Delta Space (mm)	H8	–	–	1940	1940	1940	1940	1940
	Distance between centre of front axle – front face of fork arm (mm)	L2	665	665	730	730	790	790	795
	Wheelbase (mm)	L3	2100	2100	2450	2450	2600	2800	2800
	Track (c-c) front – rear (mm)	S	1240 – 1195	1240 – 1195	1500 – 1360	1500 – 1360	1500 – 1360	1500 – 1360	1500 – 1360
	Turning radius, outer – inner (mm)	R1 – R2	2980 – 120	2980 – 120	3350 – 150	3350 – 150	3600 – 250	3600 – 250	3700 – 250
	Ground clearance, min. (mm)		160	160	160	160	160	160	160
	Height when tilting cab, max. Spirit Delta (mm)	T1	3050	3050	3050	3050	3050	3050	3050
	Width when tilting cab, max. Spirit Delta (mm)	T2	3100	3100	3100	3100	3100	3100	3100
	Height when tilting cab, max. Spirit Delta Space (mm)	T1	–	–	3300	3300	3300	3300	3300
	Width when tilting cab, max. Spirit Delta Space (mm)	T2	–	–	3200	3200	3200	3200	3200
	Height when tilting cab, max. FlexCab / FlexGuard (mm)	T1	3150	3150	3150	3150	3150	3150	3150
	Width when tilting cab, max. FlexCab / FlexGuard (mm)	T2	3150	3150	3150	3150	3150	3150	3150
	Min. aisle width for 90° stacking with forks (mm)	A1	4945	4945	5430	5430	5695	5695	6455
Standard duplex mast	Lifting height (mm)	H4	3500	3500	3500	3500	3500	3500	3500
	Mast height, min. (mm)	H3	2625	2625	2625	2625	2935	2935	2935
	Mast height, max (mm)	H5	4500	4500	4500	4500	4660	4660	4660
	Mast tilting, forward – backward* (°)	$\alpha - \beta$	5 – 10	5 – 10	5 – 10	5 – 10	5 – 10	5 – 10	5 – 10
	Ground clearance, min.		170	170	170	170	170	170	170
Forks	Width (mm)	b	150	150	150	150	150	200	200
	Thickness (mm)	a	60	60	60	60	60	60	60
	Length of fork arm (mm)	l	1200	1200	1200	1200	1200	1200	1200
	Width across fork arms, max. – min. (mm)	V	1400 – 420	1400 – 420	1900 – 420	1900 – 420	1900 – 420	1900 – 420	–
	Sideshift \pm at width across fork arms (mm)	V1 – V	250 – 910	250 – 910	375 – 1160	375 – 1160	375 – 1160	375 – 1160	–
Weight	Service weight, with battery (kg)		7600	8000	8900	9900	10400	10800	11800
	Service weight, without battery (kg)		5300	5700	6600	7000	7400	8100	7500
	Axle load front, unloaded (kg)		4400	4400	4600	4600	5200	5200	5300
	Axle load front, at rated load (kg)		12450	13300	14000	15600	16900	17600	18400
	Axle load back, unloaded (kg)		3900	4300	4300	5000	5200	5500	6200
	Axle load back, at rated load (kg)		850	900	900	1000	1000	1100	1200
Wheels / tyres	Type, front – rear		Pneumatic – Pneumatic						
	Dimensions, front – rear (inch)		315/70-15 – 28x9-15			8,25x15 – 8,25x15			
	Number of wheels, front – rear (*driven)		2* – 2			4* – 2			
	Pressure, front – rear (Mpa)		1,0 – 0,9			0,85 – 0,85		1,0 – 0,85	
Steering system	Type – manoeuvring		Hydraulic servo – Steering wheel						
Service brake system	Type – affected wheels		Oil cooled disc brakes (Wet disc brakes – drive wheels)						
Parking brake system	Type – affected wheels		Dry, spring activated disc brake – drive wheels						
Hydraulic pressure	Max. (Mpa)		17,5	17,5	19,5	19,5	19,5	19,5	19,5
Hydraulic fluid volume	(l)		125	125	155	155	155	155	155

* Mast tilting Duplex: H4 2035-5250 mm = 5 – 10° 5500-6000 mm = 3 – 5°
 Mast tilting Triplex: H4 3060-5250 mm = 5 – 6° 5500-6450 mm = 3 – 6°
 Spirit Delta Space, backward = 5°



Load centre, mm

1. Full lifting capacity up to 4 m lifting height with duplex/duplex free lift/ triplex mast and fork carriage with side shift/fork positioning. Applies to ECF50-6 to ECF90-6L, except for ECF80-9
2. Full lifting capacity up to 4 m lifting height with duplex mast and FEM fork carriage. Only applies to ECF80-9.

Drive train		ECF50-6	ECF55-6	ECF60-6	ECF70-6	ECF75-6	ECF80-6	ECF80-9	ECF90-6L
Engine	Drive axle – type	Differential and hub reduction							
	Drive motor, hourly capacity (kW)	2×11							
	Speed control, principle – number of steps	High frequency MOSFET, AC – Stepless							
	Pump motor, hourly capacity – duty factor (kW – %)	2×24 – 15							
	Pump control, principle – number of steps	High frequency MOSFET, AC – Stepless							
Battery	Dimension, W×H×L (mm)	1295×780×845		1495×780×990			1495×780×1190		
	Capacity at 5h discharging – voltage (Ah – V)	940 – 80		1240 – 80		1440 – 80		1550 – 80	
	Max charging current – voltage (A – V)	175 – 80		225 – 80		250 – 80		300 – 80	
	Battery weight (kg)	2300		2900		3400		3700	

Performance		ECF50-6	ECF55-6	ECF60-6	ECF70-6	ECF75-6	ECF80-6	ECF80-9	ECF90-6L
Lifting speed	Unloaded (m/s)	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,4
	At rated load (m/s)	0,35	0,35	0,35	0,35	0,35	0,35	0,35	0,35
Lowering speed	Unloaded (m/s)	0,45	0,45	0,45	0,45	0,45	0,45	0,45	0,45
	At rated load (m/s)	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5
Travelling speed, F/R	Unloaded (km/h)	18	18	17	17	16	16	15	15
	At rated load (km/h)	16	16	15	15	14	14	13	13
Gradeability, max.	Unloaded (%)	56	53	51	46	42	41	37	38
	At rated load (%)	32	30	28	25	23	22	21	20
Gradeability, at 2 km/h	Unloaded (%)	42	40	39	36	33	32	29	30
	At rated load (%)	25	23	22	20	18	17	16	16
Drawbar pull	Max. (kN)	40	40	40	40	40	40	40	40
Noise level, inside	LpAZ*, Spirit Delta (dB(A))	58	58	58	58	58	58	58	58
	LpAZ*, Spirit Delta Space (dB(A))	58	58	58	58	58	58	58	58
	LpAZ*, FlexGuard (dB(A))	<70	<70	<70	<70	<70	<70	<70	<70
	LpAZ*, FlexCab (dB(A))	<70	<70	<70	<70	<70	<70	<70	<70
Noise level, outside	LwAZ** (dB(A))	92	92	92	92	92	92	92	92

* LpAZ according to EN12053 ** LpAZ according to 2000/14/EC

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