

EFL503/553-HVD

EFL603-HV/703-HV

High Capacity Electric Counterbalanced Forklift 5-7T



Manufacturer			COSMEC	COSMEC	COSMEC	COSMEC
Model designation			EFL503-HVD-6	EFL553-HVD-6	EFL603-HV-6	EFL703-HV-6
Drive			Electric	Electric	Electric	Electric
Load capacity	Q	kg	5000	5500	6000	7000
Load center distance	c	mm	600	600	600	600
Service weight		kg	8550	8950	9250	9950
Height, mast extended	h4	mm	4470/3965	4470/3965	4470/3965	4470/3965
Length to face of forks	l2	mm	3500	3500	3500	3555
Overall width	b1/b2	mm	2028	2028	2028	2028
Fork dimensions	s/e/l	mm	60x150x1220	60x150x1220	60x150x1220	65x150x1220
Turning radius	Wa	mm	3235	3235	3235	3255
Travel speed, laden/unladen		km/ h	25/26	25/26	25/26	25/26
Lifting speed, laden/unladen		m/s	0.51/0.53	0.51/0.53	0.51/0.53	0.51/0.53
Lowering speed, laden/unladen		m/s	0.48/0.42	0.48/0.42	0.48/0.42	0.48/0.42
Max. gradeability, laden/unladen		%	30/34	30/34	30/34	30/30
Drive motor rating S2 60 min		kW	60	60	60	60
Battery voltage/nominal capacity		V/Ah	309V/228Ah	309V/228Ah	309V/228Ah	309V/228Ah

Standard Configuration

- Hook on type fork
- 1220mm forks
- 1995 load backrest
- 309.12V228Ah LFP battery
- Battery heating function when charging
- Telematics
- Mechanical levers
- Suspension seat with OPS
- Pneumatic tyres (solid tyres for certain markets)
- Standard overhead guard
- Mast lifting and lowering buffer
- Fire extinguisher holder
- Reversing buzzer
- Back handle with horn button
- Lighting package: LED front working light (with steering light, width light), LED tricolor taillights, LED rear working light, Strobe warning light

Options

- Different fork length customization
- Customized fork carriage (width and type)
- Attachments:
 - Hook on type sideshift
 - Hook on type fork positioner with sideshift
 - Fork positioner with pin type forks
- 309.12V304Ah LFP battery
- Charger
 - 20kw (AC 370V-460V, 50-60HZ, 32A plug)
 - 40kw (AC 370V-460V, 50-60HZ, 63Aplug)
- Solid tyres / non marking tyres
- Joystick / fingertips (in-progress)
- Grammer MSG65 seat
- Reverse voice horn (English)
- Back distance sensor
- Rear camera with LCD display
- Lights:
 - 4 LED front working lights on mast
 - Rotating warning light / rotating buzzer warning light
 - Back blue spot
 - Front blue spot
 - Front fog light
- Cigarette lighter interface 12V5A
- USB interface 24V
- Deceleration at turns
- Overspeed alarm
- Cabin options:
 - Basic half-cabin: front windshield, front wiper (including sprinkler), roof
 - Upgrade half-cabin: basic half-cabin, rear windshield, rear wiper
 - Basic full cabin: upgrade half-cabin, left and right doors, defogging device
 - Upgrade full cabin: basic full cabin, air conditioner

High Capacity Electric Counterbalanced Forklift 5-5.5T

EFL503/553-HVD

Distinguishing mark	1.1	Manufacturer			COSMEC	COSMEC
	1.2	Model designation			EFL503-HVD-6	EFL553-HVD-6
	1.3	Drive			Electric	Electric
	1.4	Operator type			Seated	Seated
	1.5	Load capacity	Q	kg	5000	5500
	1.6	Load center distance	c	mm	600	600
	1.8	Load distance, centre of drive axle to fork	x	mm	603.5	603.5
	1.9	Wheelbase	y	mm	2300	2300
	2.1	Service weight		kg	8550	8950
Service weight	2.2	Axle loading, laden front/rear		kg	12260/1290	13000/1450
	2.3	Axle loading, unladen front/rear		kg	4650/3900	4615/4335
Tyres/chassis	3.1	Tyre type			pneumatic	pneumatic
	3.2	Tyre size, front			8.25-15-14PR	8.25-15-14PR
	3.3	Tyre size, rear			8.25-15-14PR	8.25-15-14PR
	3.5	Wheels, number front/rear (x=drive wheels)		mm	4x/2	4x/2
	3.6	Tread width, front	b10	mm	1498	1498
	3.7	Tread width, rear	b11	mm	1718	1718
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β	°	6/12	6/12
	4.2	Retracted mast height	h1	mm	2480	2480
	4.3	Free lift	h2	mm	160	160
	4.4	Lift height	h3	mm	3000	3000
	4.5	Height, mast extended	h4	mm	4470/3965	4470/3965
	4.7	Height of overhead guard (cabin)	h6	mm	2520	2520
	4.8	Seat height/standing height	h7	mm	1490	1490
	4.12	Tow coupling height	h10	mm	600	600
	4.19	Overall length	l1	mm	4720	4720
	4.20	Length to face of forks	l2	mm	3500	3500
	4.21	Overall width	b1/b2	mm	2028	2028
	4.22	Fork dimensions	s/e/l	mm	60x150x1220	60x150x1220
	4.23	A,B Fork carriage class/type A, B			/	/
	4.24	Fork carriage width	b3	mm	1995	1995
	4.31	Ground clearance, laden, below mast	m1	mm	160	160
	4.32	Ground clearance, center of wheelbase	m2	mm	265	265
	4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	5260	5260
	4.34.2	Aisle width for pallets 800×1200 lengthways	Ast	mm	5260	5260
	4.35	Turning radius	Wa	mm	3235	3235
Performance data	5.1	Travel speed, laden/unladen		km/ h	25/26	25/26
	5.2	Lifting speed, laden/unladen		m/s	0.51/0.53	0.51/0.53
	5.3	Lowering speed, laden/unladen		m/s	0.48/0.42	0.48/0.42
	5.5	Drawbar pull, laden/unladen		N	/	/
	5.6	Max. drawbar pull, laden/unladen		N	/	/
	5.8	Max. gradeability, laden/unladen		%	30/34	30/34
	5.10	Service brake			Hydraulic	Hydraulic
	5.11	Parking brake			Mechanical	Mechanical
Electric-engine	6.1	Drive motor rating S2 60 min		kW	60	60
	6.2	Lift motor rating at S3 15%		kW	2x27.8	2x27.8
	6.4	Battery voltage/nominal capacity		V/Ah	309V/228Ah	309V/228Ah
	6.5	Battery weight		kg	693	693
Addition data	8.1	Type of drive control			PMSM	PMSM
	10.5	Steering design			Hydraulic	Hydraulic
	10.7	Sound pressure level at the driver's ear		dB(A)	/	/

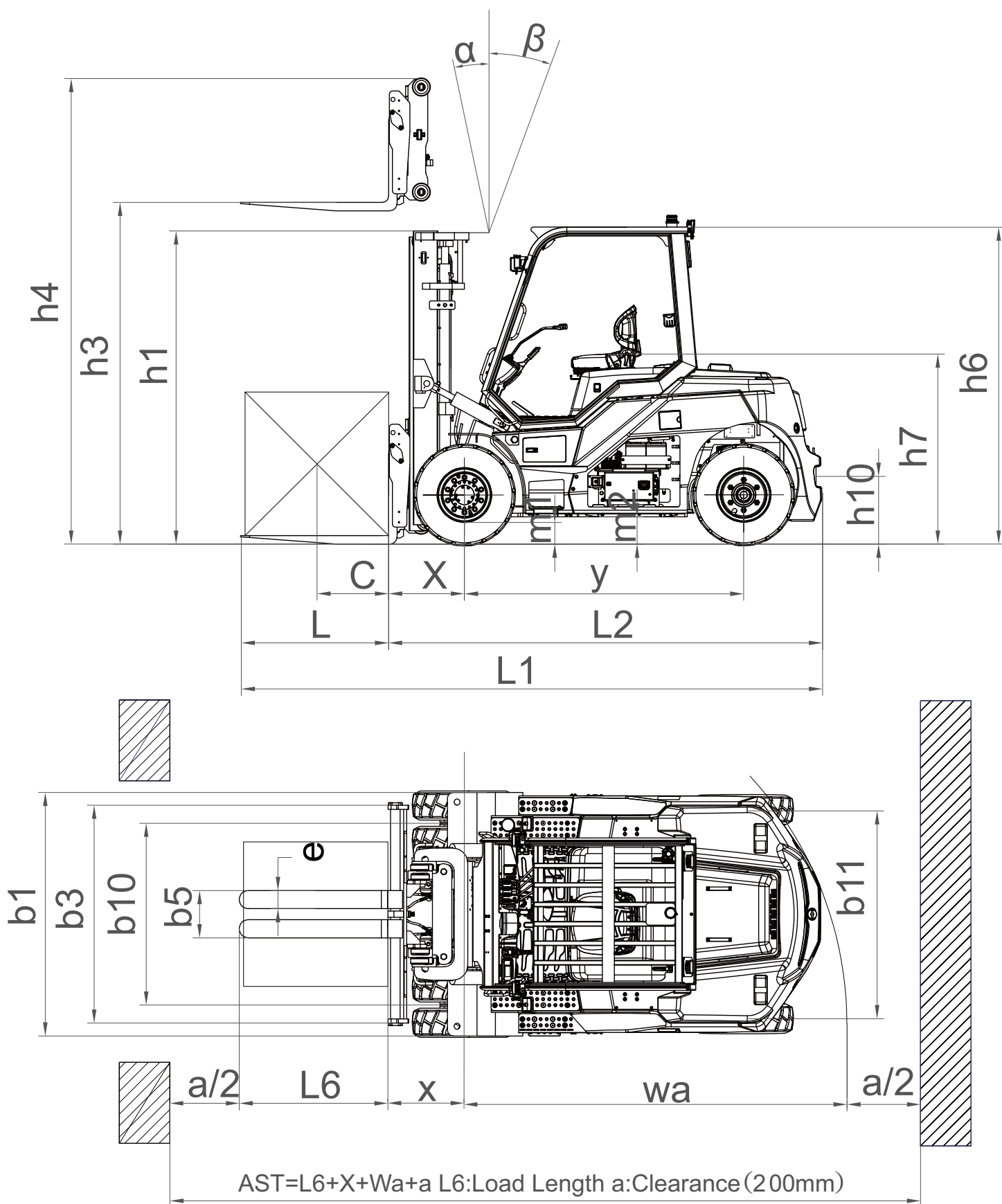
If there are improvements of technical parameters or configurations, no further notice will be given.
The diagram shown may contain non-standard configurations.

High Capacity Electric Counterbalanced Forklift 6-7T

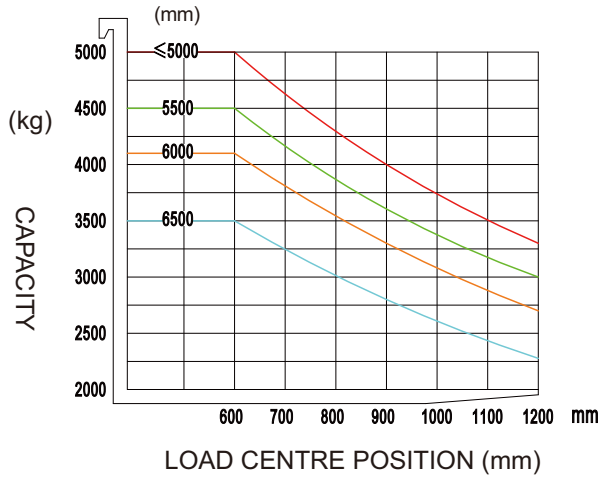
EFL603-HV/703-HV

Distinguishing mark	1.1	Manufacturer			COSMEC	COSMEC
	1.2	Model designation			EFL603-HV-6	EFL703-HV-6
	1.3	Drive			Electric	Electric
	1.4	Operator type			Seated	Seated
	1.5	Load capacity	Q	kg	6000	7000
	1.6	Load center distance	c	mm	600	600
	1.8	Load distance, centre of drive axle to fork	x	mm	603.5	608.5
	1.9	Wheelbase	y	mm	2300	2300
Service weight	2.1	Service weight		kg	9250	9950
	2.2	Axle loading, laden front/rear		kg	13755/1495	15200/1750
	2.3	Axle loading, unladen front/rear		kg	4610/4640	4515/5435
Tyres/chassis	3.1	Tyre type			pneumatic	pneumatic
	3.2	Tyre size, front			8.25-15-14PR	8.25-15-14PR
	3.3	Tyre size, rear			8.25-15-14PR	8.25-15-14PR
	3.5	Wheels, number front/rear (x=drive wheels)		mm	4x/2	4x/2
	3.6	Tread width, front	b10	mm	1498	1498
	3.7	Tread width, rear	b11	mm	1718	1718
	4.1	Tilt of mast/fork carriage forward/backward	α/β	°	6/12	6/12
Dimensions	4.2	Retracted mast height	h1	mm	2480	2480
	4.3	Free lift	h2	mm	160	165
	4.4	Lift height	h3	mm	3000	3000
	4.5	Height, mast extended	h4	mm	4470/3965	4470/3965
	4.7	Height of overhead guard (cabin)	h6	mm	2520	2520
	4.8	Seat height/standing height	h7	mm	1490	1490
	4.12	Tow coupling height	h10	mm	600	600
	4.19	Overall length	l1	mm	4720	4775
	4.20	Length to face of forks	l2	mm	3500	3555
	4.21	Overall width	b1/b2	mm	2028	2028
	4.22	Fork dimensions	s/e/l	mm	60x150x1220	65x150x1220
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	4.35	Turning radius	Wa	mm	3235	3255
Performance data	5.1	Travel speed, laden/unladen		km/ h	25/26	25/26
	5.2	Lifting speed, laden/unladen		m/s	0.51/0.53	0.51/0.53
	5.3	Lowering speed, laden/unladen		m/s	0.48/0.42	0.48/0.42
	5.5	Drawbar pull, laden/unladen		N	/	/
	5.6	Max. drawbar pull, laden/unladen		N	/	/
	5.8	Max. gradeability, laden/unladen		%	30/34	30/30
	5.10	Service brake			Hydraulic	Hydraulic
	5.11	Parking brake			Mechanical	Mechanical
Electric-engine	6.1	Drive motor rating S2 60 min		kW	60	60
	6.2	Lift motor rating at S3 15%		kW	2x27.8	2x27.8
	6.4	Battery voltage/nominal capacity		V/Ah	309V/228Ah	309V/228Ah
	6.5	Battery weight		kg	693	693
Addition data	8.1	Type of drive control			PMSM	PMSM
	10.5	Steering design			Hydraulic	Hydraulic
	10.7	Sound pressure level at the driver's ear		dB(A)	/	/

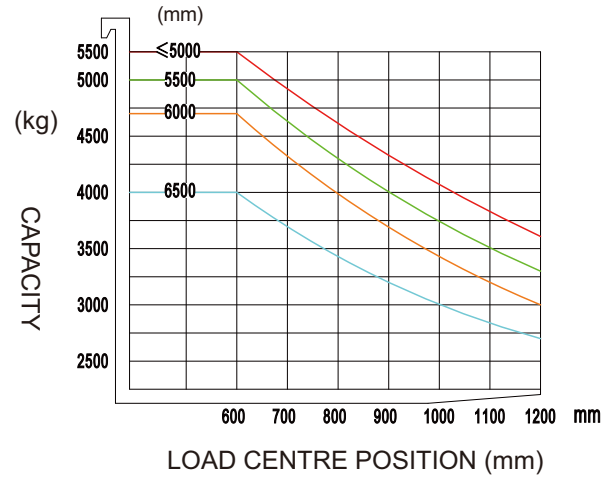
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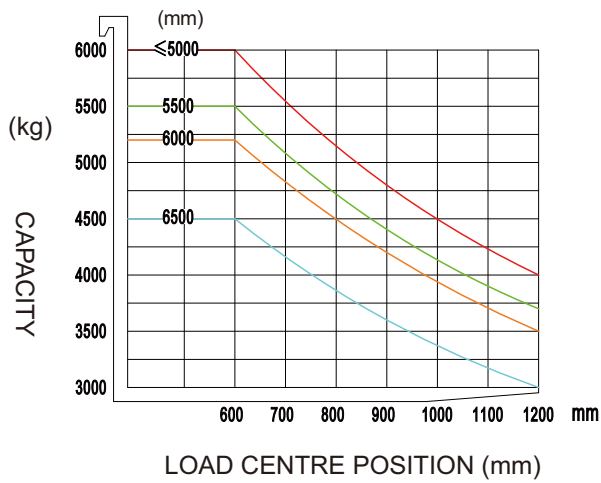
EFL503-HVD-6
RATED CAPACITIES AND LOAD CENTERS GRAPH



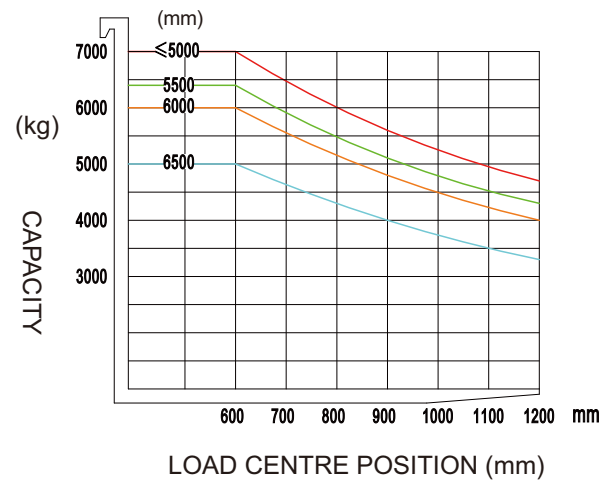
EFL553-HVD-6
RATED CAPACITIES AND LOAD CENTERS GRAPH



EFL603-HV-6
RATED CAPACITIES AND LOAD CENTERS GRAPH



EFL703-HV-6
RATED CAPACITIES AND LOAD CENTERS GRAPH



Mast Option

Mast types	Lift height (h3)	Height, Mast				Height, Free lift(h2)		Tilt		Load distance(X) Weight, Mast			
		Height, mast lowered(h1)	Height, mast extended(h4)		No backrest	With backrest	Forward (α)	Backward (β)		without sideshift, single solid tyres			
			No backrest	With backrest						5-6t	7t	5-6t	7t
	mm	mm	mm	mm	mm	mm	Deg	Deg		mm	mm	kg	kg
2-Standard Mast	3000	2480	4310	4470	160	160	6	12		603.5	608.5	2190	2210
	3500	2730	4810	4970	160	160	6	12		603.5	608.5	2250	2270
	4000	2980	5310	5470	160	160	6	12		603.5	608.5	2430	2450
	4500	3280	5810	5970	160	160	6	6		603.5	608.5	2500	2520
	5000	3530	6310	6470	160	160	6	6		603.5	608.5	2570	2590
	5500	3830	6810	6970	160	160	3	6		603.5	608.5	2750	2770
	6000	4080	7310	7470	160	160	3	6		603.5	608.5	2810	2830
2-Free Mast	6500	4380	7810	7970	160	160	3	6		603.5	608.5	2990	3010
	3000	2480	4310	4470	1495	1313	6	12		—	—	—	—
	3500	2730	4810	4970	1700	1580	6	12		—	—	—	—
3-Free Mast	4000	2980	5310	5470	1995	1813	6	12		—	—	—	—
	4500	2725	5735	—	1500	1328	6	6		—	—	—	—
	5000	2875	6215	—	1672	1478	6	6		—	—	—	—
	5500	3075	6785	—	1800	1678	3	6		—	—	—	—
	6000	3225	7235	—	2000	1828	3	6		—	—	—	—
	6500	3375	7715	—	2172	1978	3	6		—	—	—	—
	7000	3675	8385	—	2300	2278	3	6		—	—	—	—

*the weight of mast includes the weight of fork carriage and fork