

EFL403/453/503-HV

EFL503-HV-6/553-HV-6

High Capacity Electric Counterbalanced Forklift 4-5.5T



Manufacturer			EP	EP	EP	EP	EP
Model designation			EFL403-HV	EFL453-HV	EFL503-HV	EFL503-HV-6	EFL553-HV-6
Drive			Electric	Electric	Electric	Electric	Electric
Load capacity	Q	kg	4000	4500	5000	5000	5500
Load center distance	c	mm	500	500	500	600	600
Service weight		kg	6450	6900	7350	7600	8150
Height, mast extended	h4	mm	3685	3685	3685	3935	3935
Length to face of forks	l2	mm	3055	3055	3060	3150	3150
Overall width	b1/b2	mm	1495	1495	1495	1495	1495
Fork dimensions	s/e/l	mm	50×150×1070	50×150×1070	55×150×1070	60×150×1220	60×150×1220
Turning radius	Wa	mm	2680	2680	2730	2730	2730
Travel speed, laden/unladen		km/h	24/25	24/25	24/25	24/25	24/25
Lifting speed, laden/unladen		m/s	0.46/0.53	0.43/0.53	0.38/0.48	0.38/0.48	0.36/0.48
Lowering speed, laden/unladen		m/s	0.41/0.42	0.41/0.42	0.41/0.42	0.41/0.42	0.41/0.42
Max. gradeability, laden/unladen		%	25/30	25/28	24/26	23/25	20/25
Drive motor rating S2 60 min		kW	30	30	30	30	30
Battery voltage/nominal capacity		V/Ah	309V/173AH	309V/173AH	309V/173AH	309V/173AH	309V/173AH

High Capacity Electric Counterbalanced Forklift 4-5T

EFL403/453/503-HV

Distinguishing mark	1.1	Manufacturer			EP	EP	EP	
	1.2	Model designation			EFL403-HV	EFL453-HV	EFL503-HV	
	1.3	Drive			Electric	Electric	Electric	
	1.4	Operator type			Seated	Seated	Seated	
	1.5	Load capacity	Q	kg	4000	4500	5000	
	1.6	Load center distance	c	mm	500	500	500	
	1.8	Load distance, centre of drive axle to fork	x	mm	545	545	550	
	1.9	Wheelbase	y	mm	2000	2000	2000	
	Service weight	2.1	Service weight		kg	6450	6900	7350
2.2		Axle loading, laden front/rear		kg	9442/1008	10267/1133	11064/1286	
2.3		Axle loading, unladen front/rear		kg	3352/3098	3415/3485	3439/3911	
Tyres/chassis	3.1	Tyre type			pneumatic	pneumatic	pneumatic	
	3.2	Tyre size, front			8.25-15-14PR	300-15-20PR	300-15-20PR	
	3.3	Tyre size, rear			7.00-12-12PR	7.00-12-12PR	7.00-12-12PR	
	3.5	Wheels, number front/rear (x=drive wheels)		mm	2x/ 2	2x/ 2	2x/ 2	
	3.6	Tread width, front	b10	mm	1176	1176	1176	
	3.7	Tread width, rear	b11	mm	1190	1190	1190	
	4.1	Tilt of mast/fork carriage forward/backward	α/β	°	6/12	6/12	6/12	
Dimensions	4.2	Retracted mast height	h1	mm	2250	2250	2250	
	4.3	Free lift	h2	mm	150	150	155	
	4.4	Lift height	h3	mm	3000	3000	3000	
	4.5	Height, mast extended	h4	mm	3685	3685	3685	
	4.7	Height of overhead guard (cabin)	h6	mm	2400	2400	2400	
	4.8	Seat height/standing height	h7	mm	1290	1290	1290	
	4.12	Tow coupling height	h10	mm	640	640	640	
	4.19	Overall length	l1	mm	4125	4125	4130	
	4.20	Length to face of forks	l2	mm	3055	3055	3060	
	4.21	Overall width	b1/b2	mm	1495	1495	1495	
	4.22	Fork dimensions	s/e/l	mm	50×150×1070	50×150×1070	55×150×1070	
	4.23	A,B Fork carriage class/type A, B			/	/	/	
	4.24	Fork carriage width	b3	mm	1500	1500	1500	
	4.31	Ground clearance, laden, below mast	m1	mm	150	150	150	
	4.32	Ground clearance, center of wheelbase	m2	mm	180	180	180	
	4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	4495	4495	4550	
	4.34.2	Aisle width for pallets 800×1200 lengthways	Ast	mm	4495	4495	4550	
	4.35	Turning radius	Wa	mm	2680	2680	2730	
	Performance data	5.1	Travel speed, laden/unladen		km/ h	24/25	24/25	24/25
		5.2	Lifting speed, laden/unladen		m/s	0.46/0.53	0.43/0.53	0.38/0.48
5.3		Lowering speed, laden/unladen		m/s	0.41/0.42	0.41/0.42	0.41/0.42	
5.5		Drawbar pull, laden/unladen		N	/	/	/	
5.6		Max. drawbar pull, laden/unladen		N	/	/	/	
5.8		Max. gradeability, laden/unladen		%	25/30	25/28	24/26	
5.10		Service brake			Hydraulic	Hydraulic	Hydraulic	
5.11		Parking brake			Mechanical	Mechanical	Mechanical	
Electric-engine	6.1	Drive motor rating S2 60 min		kW	30	30	30	
	6.2	Lift motor rating at S3 15%		kW	27.8	27.8	27.8	
	6.4	Battery voltage/nominal capacity		V/Ah	309V/173AH	309V/173AH	309V/173AH	
	6.5	Battery weight		kg	473	473	473	
	Addition data	8.1	Type of drive control			PMSM	PMSM	PMSM
10.5		Steering design			Hydraulic	Hydraulic	Hydraulic	
10.7		Sound pressure level at the driver's ear		dB(A)	/	/	/	

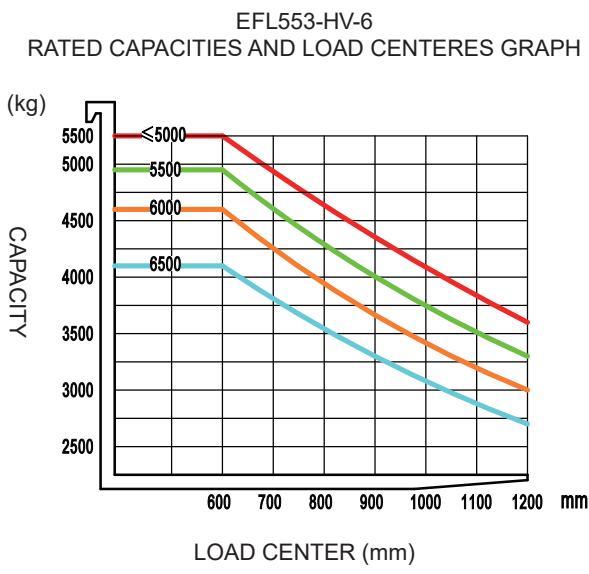
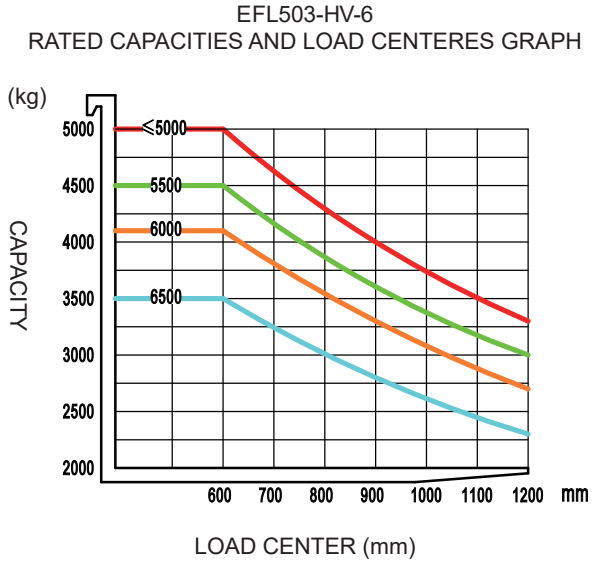
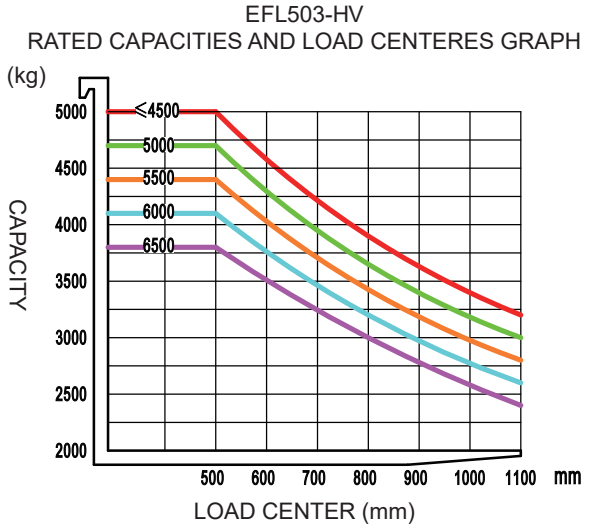
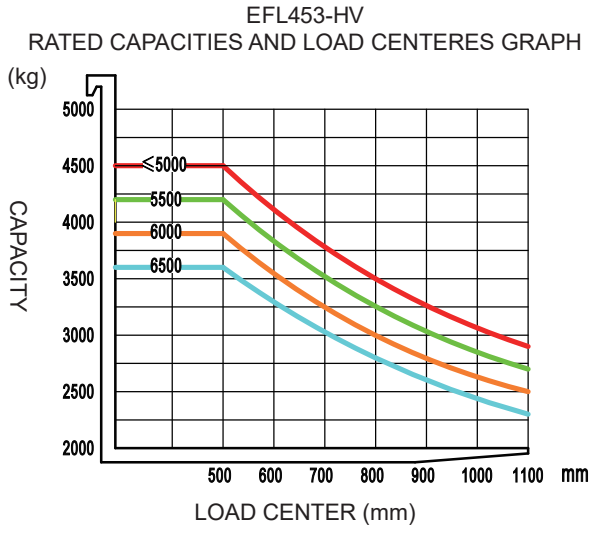
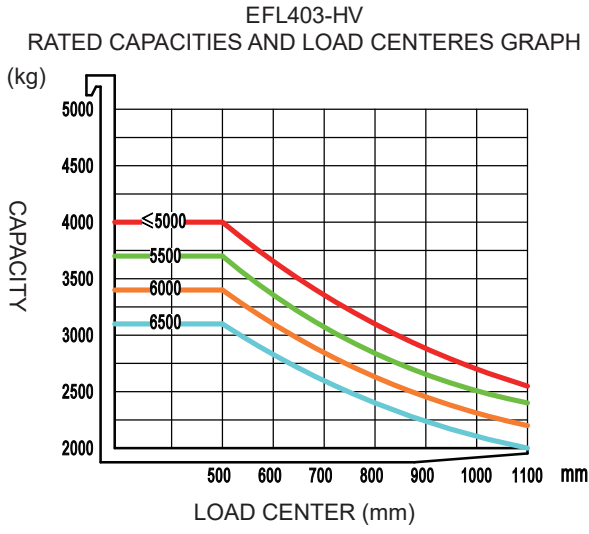
If there are improvements of technical parameters or configurations, no further notice will be given.
The diagram shown may contain non-standard configurations.

High Capacity Electric Counterbalanced Forklift 5-5.5T

EFL503-HV-6/553-HV-6

Distinguishing mark	1.1	Manufacturer			EP	EP
	1.2	Model designation			EFL503-HV-6	EFL553-HV-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	555	555
	1.9	Wheelbase	y	mm	2000	2000
	Service weight	2.1	Service weight		kg	7600
2.2		Axle loading, laden front/rear		kg	11195/1405	12111/1539
2.3		Axle loading, unladen front/rear		kg	3308/4292	3435/4715
Tyres/chassis	3.1	Tyre type			pneumatic	pneumatic
	3.2	Tyre size, front			300-15-20PR	300-15-20PR
	3.3	Tyre size, rear			7.00-12-14PR	7.00-12-14PR
	3.5	Wheels, number front/rear (x=drive wheels)		mm	2x/ 2	2x/ 2
	3.6	Tread width, front	b10	mm	1176	1176
	3.7	Tread width, rear	b11	mm	1190	1190
	4.1	Tilt of mast/fork carriage forward/backward	α/β	°	6/12	6/12
Dimensions	4.2	Retracted mast height	h1	mm	2500	2500
	4.3	Free lift	h2	mm	160	160
	4.4	Lift height	h3	mm	3000	3000
	4.5	Height, mast extended	h4	mm	3935	3935
	4.7	Height of overhead guard (cabin)	h6	mm	2400	2400
	4.8	Seat height/standing height	h7	mm	1290	1290
	4.12	Tow coupling height	h10	mm	640	640
	4.19	Overall length	l1	mm	4370	4370
	4.20	Length to face of forks	l2	mm	3150	3150
	4.21	Overall width	b1/b2	mm	1495	1495
	4.22	Fork dimensions	s/e/l	mm	60×150×1220	60×150×1220
	4.23	A,B Fork carriage class/type A, B			/	/
	4.24	Fork carriage width	b3	mm	1500	1500
	4.31	Ground clearance, laden, below mast	m1	mm	150	150
	4.32	Ground clearance, center of wheelbase	m2	mm	180	180
	4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	4705	4705
	4.34.2	Aisle width for pallets 800×1200 lengthways	Ast	mm	4705	4705
4.35	Turning radius	Wa	mm	2730	2730	
Performance data	5.1	Travel speed, laden/unladen		km/ h	24/25	24/25
	5.2	Lifting speed, laden/unladen		m/s	0.38/0.48	0.36/0.48
	5.3	Lowering speed, laden/unladen		m/s	0.41/0.42	0.41/0.42
	5.5	Drawbar pull, laden/unladen		N	/	/
	5.6	Max. drawbar pull, laden/unladen		N	/	/
	5.8	Max. gradeability, laden/unladen		%	23/25	20/25
	5.10	Service brake			Hydraulic	Hydraulic
5.11	Parking brake			Mechanical	Mechanical	
Electric-engine	6.1	Drive motor rating S2 60 min		kW	30	30
	6.2	Lift motor rating at S3 15%		kW	27.8	27.8
	6.4	Battery voltage/nominal capacity		V/Ah	309V/173AH	309V/173AH
	6.5	Battery weight		kg	473	473
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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Option

No.	Optional items	EFL403/453/503-HV/503-HV-6/553-HV-6
1.1	Mast types	●2-Standard Mast○2-Free Mast○3-Free Mast
1.2	Lifting height	●3m○3.5m○4m○4.5m○5m○5.5m○6m○Can be customized
1.3	Fork and attachment	●1070mm (500mm Load center distance) ●1220mm (600mm Load center distance) ○ Can be customized○ Customized attachments
1.4	Fork carriage	● Standard fork carriage○ Widen fork carriage (can be customized)
1.5	Fork adjustment type	● Pin tyoe forks○ Hydraulic pork positioner ○ Fork positioner with sideshift○ Internal sideshift
2.1	Li-ion battery	● 309.12V173Ah LFP battery
2.2	Charger	● No○ Fast charger (20kw) ○ Fast charger (30kw) ○ Fast charger (40kw) ○ Fast charger (50kw)
3.1	Tyre	●Pneumatic○Solid
3.2	Overhead guard / cabin	● Standard overhead guard○ Add-on cabin (with air-conditioner)
3.3	Hydraulic control	● Mechanical levers
4.1	Reverse warning	● Reversing buzzer○ Reversing voice horn
4.2	Reverse radar and image	● No○ Reversing radar○ Reverse image○ Reverse radar and image
4.3	Working light on the mast	● No○ Two working lights
4.4	Warning light	● Strobe warning light○ Rotating warning light○ Rotating buzzer warning light
4.5	Blue spot	● No○ Rear blue spot○ Left and right blue spots○ Back left and right blue spots
4.6	Fog light	● No○ Front fog light
5.1	Cigarette lighter interface	● No○ Cigarette lighter interface (12V)
5.2	USB interface	● No○ USB interface (5V)
5.3	Fire extinguisher	● No○ Dry powder fire extinguisher (0.5kg) ○ Dry powder fire extinguisher (2kg)
6.1	Curve speed	● No○ Curve speed
6.2	Overspeed alarm	● No○ Overspeed alarm (speed can be set)
6.3	OPS	● Travel and hydraulic OPS
6.4	Mast lifting and lowering buffer	● Yes
6.5	Keypad or card reader	● Card reader

Note: ●Standard ○ Optional - Inconformity

EFL503/553-HVD

EFL603-HV/703-HV

High Capacity Electric Counterbalanced Forklift 5-7T



Manufacturer			EP	EP	EP	EP
Model designation			EFL503-HVD	EFL553-HVD	EFL603-HV	EFL703-HV
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	h1	mm	4370/3965	4370/3965	4370/3965	4370/3965
Length to face of forks	h3	mm	4772	4772	4772	4777
Overall width	h4	mm	2028	2028	2028	2028
Fork dimensions	l2	mm	60x150x1220	60x150x1220	60x150x1220	65x150x1220
Turning radius	b1/b2	mm	3235	3235	3235	3255
Travel speed, laden/unladen	s/e/l	km/h	25/26	25/26	25/26	25/26
Lifting speed, laden/unladen	Wa	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

High Capacity Electric Counterbalanced Forklift 5-5.5T

EFL503/553-HVD

Distinguishing mark	1.1	Manufacturer			EP	EP
	1.2	Model designation			EFL503-HVD	EFL553-HVD
	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
	Service weight	2.1	Service weight		kg	8550
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	2500	2500
	4.3	Free lift	h2	mm	160	160
	4.4	Lift height	h3	mm	3000	3000
	4.5	Height, mast extended	h4	mm	4370/3965	4370/3965
	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	5992	5992
	4.20	Length to face of forks	l2	mm	4772	4772
	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	200	200
	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)	/	/

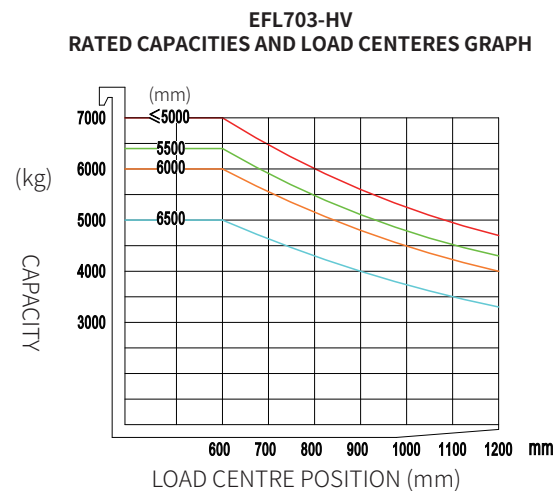
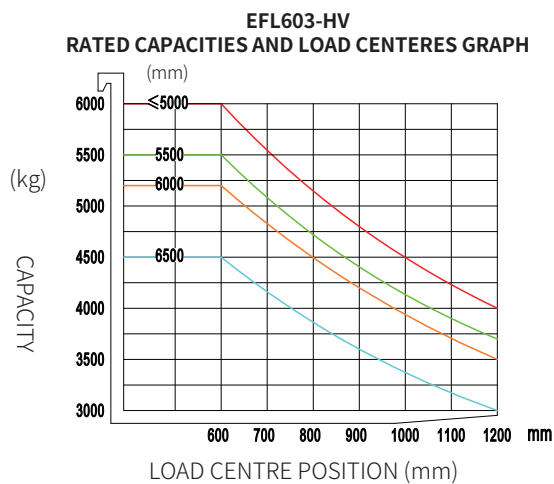
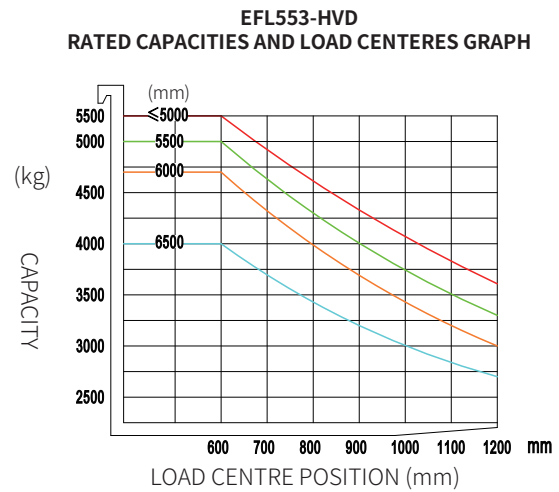
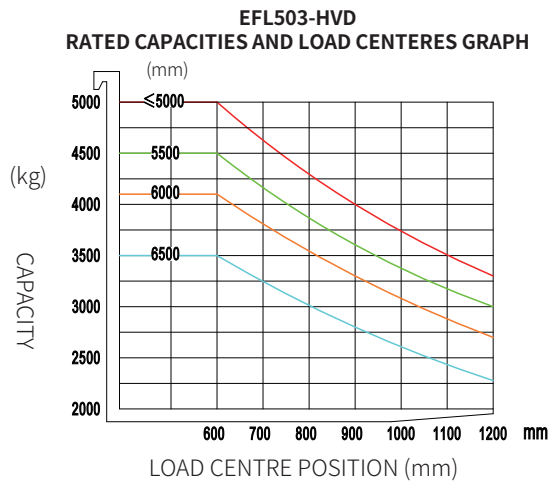
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High Capacity Electric Counterbalanced Forklift 6-7T

EFL603-HV/703-HV

Distinguishing mark	1.1	Manufacturer			EP	EP
	1.2	Model designation			EFL603-HV	EFL703-HV
	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
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
	Dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β	°	6/12
4.2		Retracted mast height	h1	mm	2500	2500
4.3		Free lift	h2	mm	160	165
4.4		Lift height	h3	mm	3000	3000
4.5		Height, mast extended	h4	mm	4370/3965	4370/3965
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	5992	5997
4.20		Length to face of forks	l2	mm	4772	4777
4.21		Overall width	b1/b2	mm	2028	2028
4.22		Fork dimensions	s/e/l	mm	60x150x1220	65x150x1220
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	200	200
4.32		Ground clearance, center of wheelbase	m2	mm	265	265
4.34.1		Aisle width for pallets 1000×1200 crossways	Ast	mm	5260	5265
4.34.2	Aisle width for pallets 800×1200 lengthways	Ast	mm	5260	5265	
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
Additional 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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Option

No.	Optional items	EFL503/553-HVD/EFL603-HV/703-HV
1.1	Mast types	●2-Standard Mast○2-Free Mast○3-Free Mast
1.2	Lifting height	●3m○3.5m○4m○4.5m○5m○5.5m○6m○Can be customized
1.3	Fork and attachment	●1220mm○ Can be customized○ Customized attachments
1.4	Fork carriage	● Standard fork carriage○ Widen fork carriage (can be customized)
1.5	Fork adjustment type	● Pin tyoe forks○ Hydraulic pork positioner○ Fork positioner with sideshift○ Internal sideshift
2.1	Li-ion battery	● 309.12V228Ah LFP battery○ 309.12V304Ah LFP battery○ 307.2V206Ah LFP battery
2.2	Charger	● No ○ Fast charger (20kw) ○ Fast charger (30kw) ○ Fast charger (40kw) ○ Fast charger (60kw) ○ Fast charger (80kw)
3.1	Tyre	●Pneumatic○Solid
3.2	Overhead guard / cabin	● Standard overhead guard○ Add-on cabin (with air-conditioner)
3.3	Hydraulic control	○ Joystick○ Mechanical levers
4.1	Reverse warning	● Reversing buzzer○ Reversing voice horn
4.2	Reverse radar and image	● No○ Reversing radar○ Reverse image○ Reverse radar and image
4.3	Working light on the mast	● No○ Two working lights
4.4	Warning light	● Strobe warning light○ Rotating warning light○ Rotating buzzer warning light
4.5	Blue spot	● No○ Rear blue spot○ Left and right blue spots○ Back left and right blue spots
4.6	Fog light	● No○ Front fog light
5.1	Cigarette lighter interface	● No○ Cigarette lighter interface (12V)
5.2	USB interface	● No○ USB interface (5V)
5.3	Fire extinguisher	● No○ Dry powder fire extinguisher (0.5kg) ○ Dry powder fire extinguisher (2kg)
6.1	Curve speed	● No○ Curve speed
6.2	Overspeed alarm	● No○ Overspeed alarm (speed can be set)
6.3	OPS	● Travel and hydraulic OPS
6.4	Mast lifting and lowering buffer	● Yes
6.5	Keypad or card reader	● Card reader

Note: ●Standard ○ Optional - Inconformity