

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	4243/3813	4243/3813	4243/3813	4243/3813	4243/3813
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

Standard Configuration

- Hook on type fork
- 1070mm forks (500mm LC)/1220mm forks (600mm LC)
- 1350 fork backrest
- 309.12V173Ah LFP battery
- Battery heating function when charging
- Telematics
- Mechanical lever
- Suspension seat with OPS
- Pneumatic tyres (solid tyres for certain markets)
- Standard overhead guard
- Mast lifting and lowering buffer
- Fire extinguisher holder
- Reversing buzzer
- Backing grab bar 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
 - Fork positioner with sideshift: Forks with terminal west
 - Fork positioner with sideshift: Roller guiden forks
- Chargers
 - 20kw (3 phase AC 370V-460V, 50-60HZ, 32A plug)
 - 40kw (3 phase AC 370V-460V, 50-60HZ, 63A plug)
- Fingertips
- Grammer MSG65 seat with OPS
- Solid tyres / non marking tyres
- 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 12V
- USB interface 5V
- 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
 - Upgrade full cabin: basic full cabin, air conditioner, defogging device

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
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	4243/3813	4243/3813	4243/3813
	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
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
Electric-engine	5.11	Parking brake			Mechanical	Mechanical	Mechanical
	6.1	Drive motor rating S2 60 min		kW	30	30	30
Addition data	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
	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)	/	/	/

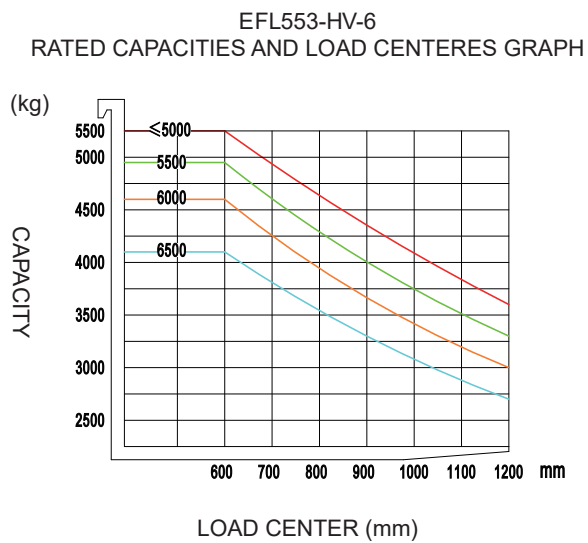
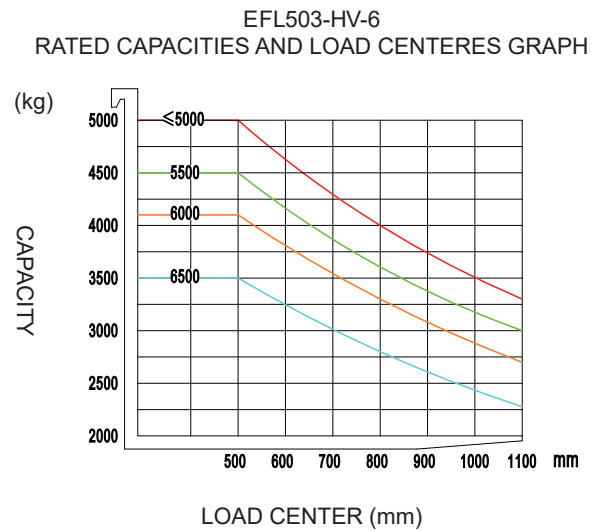
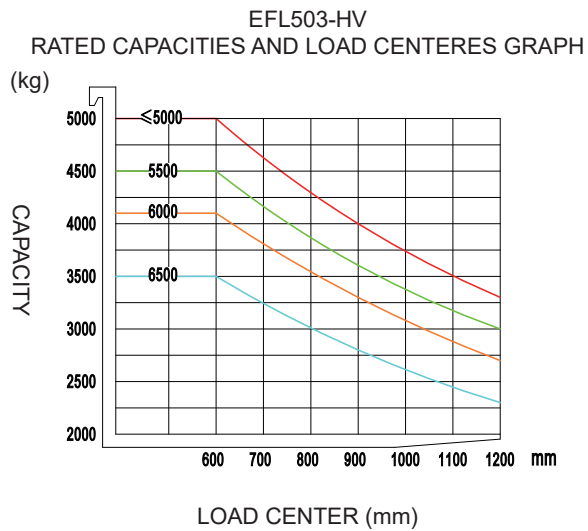
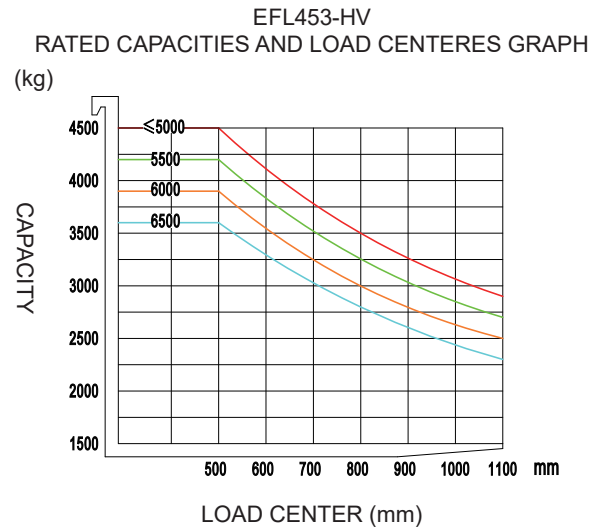
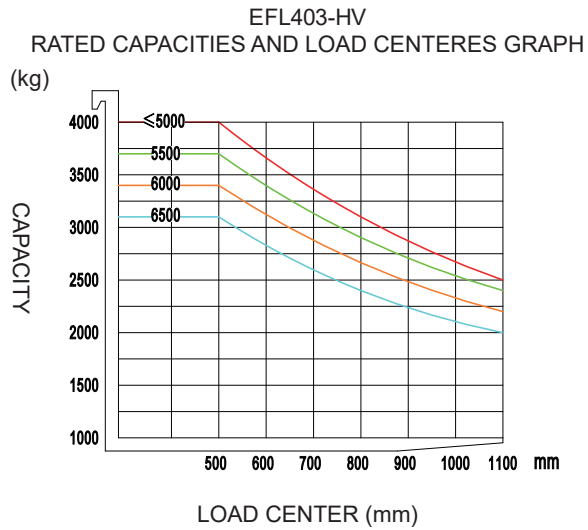
If there are improvements of technical parameters or configurations, no further notice will be given. The diagram shown may contain non-standard configurations.

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	8150
	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
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	4243/3813	4243/3813
	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)	/	/

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



Mast Option

EFL403-HV/EFL453-HV

Mast types	Lift height (h3)	Height, Mast			Height,Free lift(h2)	
		Height, mast lowered(h1)	Height, mast extended(h4)		No shelving	With shelving
			No shelving	With shelving		
	mm	mm	mm	mm	mm	mm
2-Standard Mast	3000	2250	—	4243.5	150	150
	3500	2500	—	4743.5	150	150
	4000	2750	—	5243.5	150	150
	4500	3050	—	5743.5	150	150
	5000	3300	—	6243.5	150	150
	5500	3600	—	6743.5	150	150
	6000	3850	—	7243.5	150	150
	6500	4150	—	7743.5	150	150
2-Free Mast	3000	2250	—	4243.5	860	1364
	3500	2500	—	4743.5	1110	1614
	4000	2750	—	5243.5	—	—
3-Free Mast	4500	2248	5370	5880	—	1390
	5000	2410	5860	6370	—	1552
	5500	2575	6360	6870	—	1718
	6000	2790	6870	7380	—	1932
	6500	2980	7370	7880	—	2123
	7000	3155	7865	8375	—	2298

EFL503-HV/EFL503-HV-6/EFL553-HV-6

Mast types	Lift height (h3)	Height, Mast			Height,Free lift(h2)	
		Height, mast lowered(h1)	Height, mast extended(h4)		No shelving	With shelving
			No shelving	With shelving		
	mm	mm	mm	mm	mm	mm
2-Standard Mast	3000	2250	—	4243.5	155	155
	3500	2500	—	4743.5	155	155
	4000	2750	—	5243.5	155	155
	4500	3050	—	5743.5	155	155
	5000	3300	—	6243.5	155	155
	5500	3600	—	6743.5	155	155
	6000	3850	—	7243.5	155	155
	6500	4150	—	7743.5	155	155
2-Free Mast	3000	2250	—	4243.5	860	1364
	3500	2500	—	4743.5	1110	1614
	4000	2750	—	5243.5	—	—
3-Free Mast	4500	2248	5370	5880	—	1390
	5000	2410	5860	6370	—	1552
	5500	2575	6360	6870	—	1718
	6000	2790	6870	7380	—	1932
	6500	2980	7370	7880	—	2123
	7000	3155	7865	8375	—	2298