

EL16/18DT-Pro



COUNTER BALANCE FORKLIFT SERIES



NEW ENERGY FORKLIFT LEADER

BYD Efficient Lithium-Ion Electric Forklift

byd-forklifts.com

STANDARD FEATURES

Safety		
• Electric braking system • Slope protection • Programmable automatic speed limit	• High loading position protection • Cylinder lowering speed limit • Charger protection	• Reversing alarm • LED headlights and rear combination lights
Performance		
• Iron-phosphate Battery • AC drive system • AC hydraulic lift system • Small turning radius • Battery rapid charging • Programmable performance	• Digital (LCD) multifunction display – Time & date – OPS time accumulator – Battery capacity indicator – Over-discharge warning (lift interrupt) – Parking brake indicator	– Direction indicator – Maintenance indicator – Overload indicator • Built-in analyzer • Self-diagnostics
Operability & Ergonomics		
• Strategically configured instrument • Front & rear operator assist grips	• Hydraulic directional shift control • Heavy-duty slip-resistant floor mat	• Parking brake alarm
Serviceability		
• AC drive motor (no brushes or commutator) • AC hydraulic motor (no brushes or commutator) • Charging port analyzing connection	• Easy-access no-tools floorboard • Maintenance-free battery case • Easy-lift battery hood	• Hydraulic fluid level check • Easy-access controllers • CAN-bus controller wiring

OPTIONAL EQUIPMENT

Load Handling (Wide visible mast)		
• Standard lift 2-stage mast (Duplex standard) • Full free-lift 2-stage mast (Duplex FFL) • Lifting buffer	• Full free-lift 3-stage 3-cylinder mast (Triplex FFL) • Full free-lift 3-stage 4-cylinder mast (Triplex FFL) • Lifting speed limit	• Other customized fork • High-load backrest • Other customized load backrest
Load Handling (Hose & Valve Assembly)		
• 4-way valve (no 3rd & 4th function hosing) • 4-way valve (with 3rd function hosing) • 4-way valve (with 3rd & 4th function hosing) • Hydraulic DV10 fitting on 3rd lever • Hydraulic DV10 fitting on 4th lever	• Cascade hang-on side shifter – Integral side shifter – Fork positioners – Clamps – Rotators	– Load pushes – Multiple load handlers – Mobile weighing – Layer pickers – Hose reels
Lights & Indicators		
• Front working light • Rear working light • Strobe light	• LED Distance Wanning spot Light • LED Distance Wanning laser Light	• Back up buzzer • Armrest horn
Body		
• Operator presence sensing unit • Fork camera • Reversing radar • Reversing camera • Fan • Fire extinguisher • Overload protection • Parking brake alarm	• Rearview mirrors (left & right sides) • Flat internal rearview mirror • Panoramic rearview mirror • Rear assist grip with horn button • Orange seatbelt • Cabin without woors (Includes windshield with wiper, roof & rear glass) • Full sealing cabin (Includes windshield with wiper & roof)	• Front windshield with wiper & Roof • Synchronous steering • Special key • Bay with USB inlet • Fork sleeves • Overhead guard sheet • Double accelerator pedal (One on each side of brake pedal)
Wheels & Tires		
• Solid	• Non-marking solid	• Pneumatic

COUNTER BALANCE FORKLIFT SPECIFICATIONS

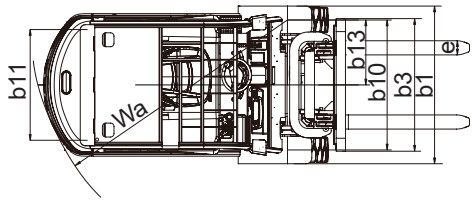
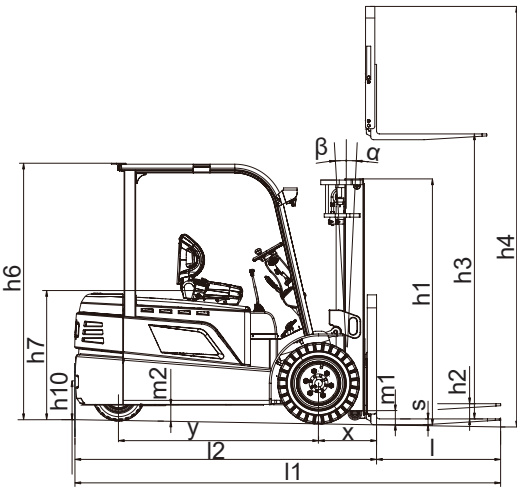
Characteristic	Manufacturer			BYD	BYD
	Model			EL16DT-Pro	EL18DT-Pro
	Power unit			Electric	Electric
	Operation			Seat	Seat
	Load capacity	Q	kg	1600	1800
	Load centre	c	mm	500	500
	Axle centre to force face	x	mm	370	370
	Wheel base	y	mm	1360	1360
Weights	Service weight		kg	3100	3300
	Axle load with load, front/rear		kg	4083/617	4495/605
	Axle load without load, front/rear		kg	1466/1634	1551/1749
Wheels	Tyre rubber, SE, pneumatic, polyurethane			SE	SE
	Tyre size, front			18x7-8	200/50-10
	Tyre size, rear			15x4.5-8	140/55-9
	Wheels, number front/rear (x = driven)			2x/2	2x/2
	Track width, front	b10	mm	890	930
	Track width, rear	b11	mm	190	220
Dimensions	Mast/fork carriage tilt, forward/backward	α/β	°	5/7	5/7
	Height of mast, lowered	h1	mm	2020	2020
	Free lift	h2	mm	120	120
	Lift	h3	mm	3000	3000
	Height of Mast, extended	h4	mm	3985	3985
	Height of overhead guard (cabin)	h6	mm	2050	2050
	Height of seat/stand on platform	h7	mm	985	985
	Towing coupling height	h10	mm	480	480
	Overall length	l1	mm	2935	3005
	Length to fork face	l2	mm	1935	2005
	Overall width	b1	mm	1050	1130
	Fork dimensions	s/e/l	mm	40/100/1070	40/100/1070
	Fork carriage to ISO 2328, class/type A, B			2A	2A
	Width of fork carriage	b3	mm	1040	1040
	Ground clearance, below mast	m1	mm	95	95
	Ground clearanc, centre of wheelbase	m2	mm	95	95
	Aisle width with pallet 1000x1200 across forks	Ast	mm	3261	3331
	Aisle width with pallet 800x1200 along forks	Ast	mm	3385	3455
	Turning radius	Wa	mm	1570	1640
	Minimum pivoting point distance	b13	mm	0	0
Performance	Travel speed, with/without load		Km/h	16/16	16/16
	Lifting speed, with/without load		mm/s	500/550	500/550
	Lowering speed, with/without load		mm/s	530/500	530/500
	Tractive force, with/without load		KN	9/7.9	9/8
	Climbing ability, with/without load		%	20/20	18/20
	Acceleration time, with/without load		s	4.5/4.0	4.5/4.0
	Service brake			Hydraulic	Hydraulic
Drive	Drive motor, 60 minute rating		kW	5x2	5x2
	Lift motor, rating at S3 15%		kW	16	16
	Battery voltage/rated capacity		V/Ah	80/270	80/270
	Battery weight		kg	650	650
Others	Type of drive control			AC	AC
	Operating pressure for attachments		Mpa	16	18
	Noise level at operator's ear		dB(A)	≤75	≤75
	Traction pin connections			PIN	PIN

*BYD reserves the right to alter and modify the design, features and technical parameters of its products at any given time and without pre-advice, as products are subject to ongoing and continuous development.

MAST SPECIFICATIONS

- h1
- Height, Mast Fully Lowered
- h2¹
- Full Free Lift Height (950 mm Load Backrest)
- h4
- Height, Mast Fully Extended
- h3
- Lifting Height
- h2²
- Full Free Lift Height (without Load Backrest)
- α
- Tilt Forward
- β
- Tilt Backward

MAST SPEC(mm)	h3	h2 ¹	h2 ²	h1	h4	α	β	Residual Capacity@610mm (without attachment(kg))	
								EL16DT-Pro	EL18DT-Pro
2-stage standard Mast	3000	130	130	2020	3990	5°	7°	1600	1800
	3300	130	130	2170	4290	5°	7°	1550	1800
	3500	130	130	2270	4490	5°	7°	1520	1780
	4000	130	130	2570	4990	5°	7°	1450	1700
	4500	130	130	2820	5490	5°	5°	1350	1600
	5000	130	130	3120	5990	5°	5°	1210	1430
2-stage with single FFL	3000	1070	1430	2020	3990	5°	7°	1600	1800
	3300	1220	1580	2170	4290	5°	7°	1550	1800
	3500	1320	1680	2270	4490	5°	7°	1520	1780
	4000	1620	1980	2570	4990	5°	7°	1450	1700
3-stage with single FFL	4000	945	1305	1895	4990	5°	5°	1450	1700
	4500	1095	1455	2045	5490	5°	5°	1350	1600
	4800	1195	1555	2145	5790	5°	5°	1320	1560
	5000	1245	1605	2195	5990	5°	5°	1210	1430
	5500	1445	1805	2395	6490	5°	3°	1150	1360
	6000	1715	2040	2665	6990	5°	3°	1070	1130
	6500	1895	2240	2845	7490	5°	3°	900	740
3-stage with double FFL	4000	945	1305	1895	4990	5°	5°	1450	1700
	4500	1095	1455	2045	5490	5°	5°	1350	1600
	4800	1195	1555	2145	5790	5°	5°	1320	1560
	5000	1245	1605	2195	5990	5°	5°	1210	1430
	5500	1445	1805	2395	6490	5°	3°	1150	1360
	6000	1715	2040	2665	6990	5°	3°	1070	1130
	6500	1895	2240	2845	7490	5°	3°	900	740



BYD Forklift production site is certified:
ISO 9001 ISO 14001 OHSAS 18001



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