

TDL161/201

1600/2000kg

3-Wheel Dual-drive

Counterbalance

Forklift



EP
Let's grow together

- Premium 3 wheels truck designed around 48V Li-Ion battery
- Powerful dual drive AC traction motors
- Innovative design for higher operator comfort
- Great ergonomic design with adjustable steering wheel and comfortable bucket seat
- High-resolution LCD display installed at the upper right corner of the cabin
- Single phase integrated charger with 16A plug



Manufacturer			EP	EP
Model designation			TDL161	TDL201
Drive			Electric	Electric
Load capacity	Q	kg	1600	2000
Load center distance	c	mm	500	500
Service weight		kg	3380	3575
Retracted mast height	h1	mm	2075	2075
Lift height	h3	mm	3000	3000
Height, mast extended	h4	mm	4058	4058
Length to face of forks	l2	mm	2025	2025
Overall width	b1/b2	mm	1050	1150
Fork dimensions	s/e/l	mm	40/100/920	40/122/1070
Turning radius	Wa	mm	1605	1605
Travel speed, laden/unladen		km/h	15/16	15/16
Lifting speed, laden/unladen		m/s	0.35/0.43	0.35/0.43
Lowering speed, laden/unladen		m/s	0.45/0.37	0.45/0.37
Max. gradeability, laden/unladen		%	15/17	15/17
Drive motor rating S2 60 min		kW	5.4*2	5.4*2
Battery voltage/nominal capacity		V/Ah	48/280	48/405

FEATURE

Hydraulic steering system with better human-vehicle interaction

The TDL series adopts the hydraulic steering system and this achieves more precise and responsive operation, which demonstrates better human-vehicle interaction. Plus, the hydraulic steering system comes with a simple and reliable structure with lower maintenance costs.



Electromagnetic joystick available for premium needs

For premium material handling, the electromagnetic joystick is available as an option which puts operation experience and productivity at the forefront. The joystick houses all controls of the truck and the operator are allowed to perform all functions in a palm-sized place with utmost precision.



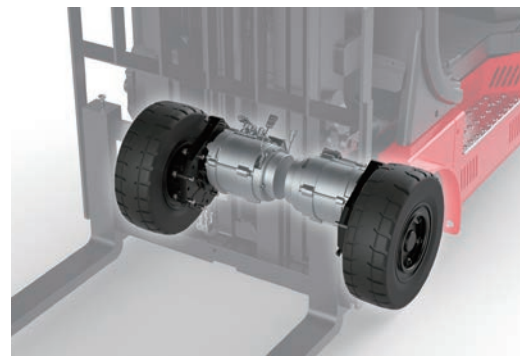
Larger legroom to amplify driving comfort

The integrated design of the operator compartment is intended to create a larger operational space to improve ergonomics to reduce operator work-related health issues, as well as to improve operational efficiency.



Powerful and constant working performance

The lithium battery with opportunity charging and 5.4kW*2 dual drive motors guarantee the TDL series operate at full power at all times with a permanently high performance. It comes with a 48V/50A integrated charger as standard for charging convenience and 48V/150A and 48V/200A external chargers available as options to better fit in your needs.



■ Optimized truck frame for cabin installation and detachment

The TDL series features the streamlined design as the L2 series and an optimized one-piece truck frame, which is easy for cabin installation as well as detachment.



■ New informative LCD display

The TDL series provides the high-resolution LCD display which is installed at the upper right corner of the cabin. Via a glance, the operator is able to find speed, working hours, battery status, miles driven and parking status. This informative and intuitive display ensures relaxed and safe working.

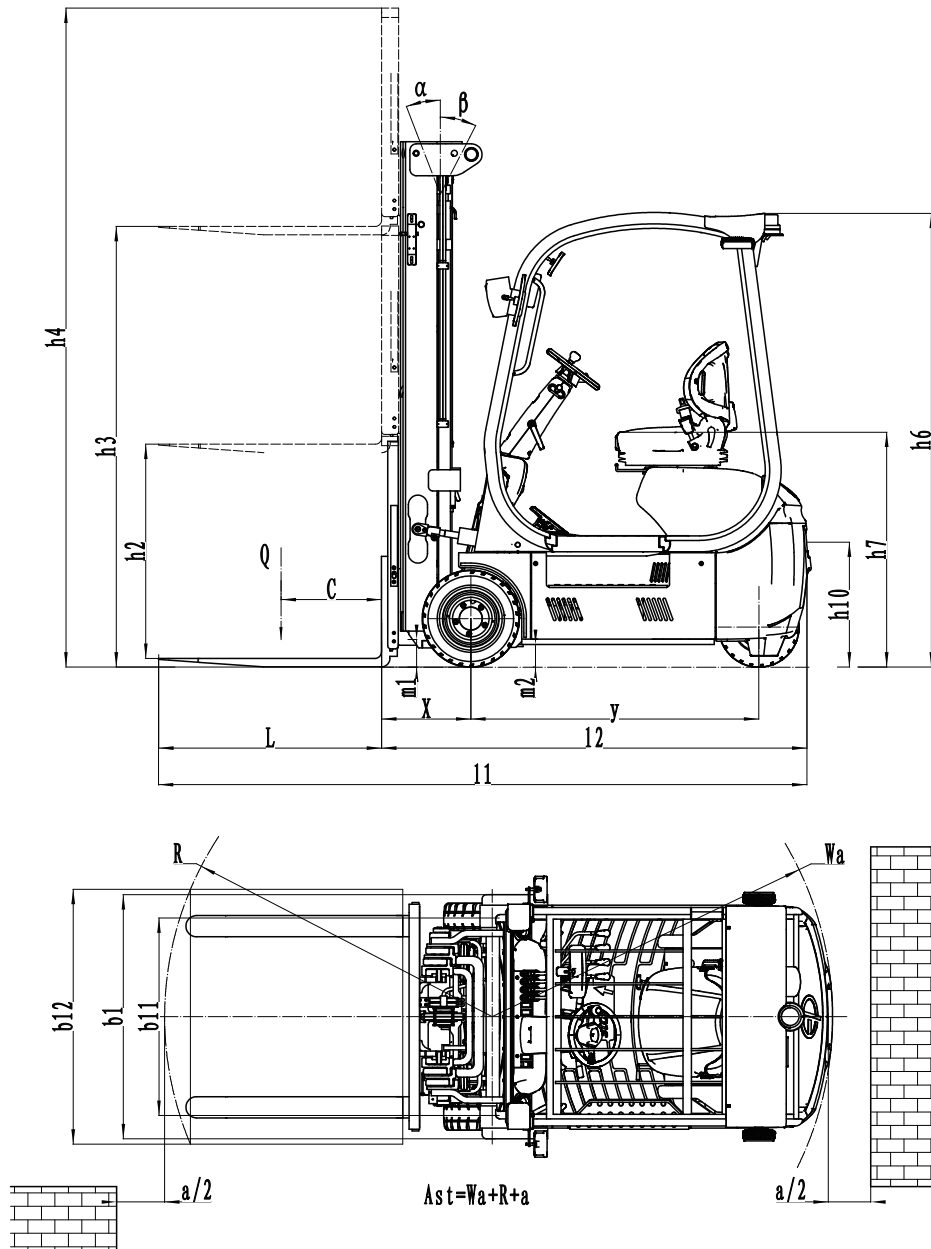


Li-ion Counterbalance Forklift Truck 1.6/2.0T

TDL 161/201

Distinguishing mark	1.1	Manufacturer			EP	EP
	1.2	Model designation			TDL161	TDL201
	1.3	Drive			Electric	Electric
	1.4	Operator type			Seated	Seated
	1.5	Load capacity	Q	kg	1600	2000
	1.6	Load center distance	c	mm	500	500
	1.8	Load distance, centre of drive axle to fork	x	mm	420	420
	1.9	Wheelbase	y	mm	1358	1358
	2.1	Service weight		kg	3380	3575
Service weight	2.2	Axle loading, laden front/rear		kg	4153/827	4892/683
	2.3	Axle loading, unladen front/rear		kg	1468/1912	1535/2040
	3.1	Tyre type			Solidrubber	Solidrubber
Tyres/classes	3.2	Tyre size, front			18x7-8	200/50-10
	3.3	Tyre size, rear			15/4.5-8	15/4.5-8
	3.5	Wheels, number front/rear (x=drive wheels)		mm	2X2	2X2
	3.6	Tread width, front	b ₁₀	mm	910	936
	3.7	Tread width, rear	b ₁₁	mm	175	175
	4.1	Tilt of mast/fork carriage forward/backward	α/β	°	5/6	5/6
Dimensions	4.2	Retracted mast height	h ₁	mm	2075	2075
	4.3	Free lift	h ₂	mm	100	100
	4.4	Lift height	h ₃	mm	3000	3000
	4.5	Height, mast extended	h ₄	mm	4058	4058
	4.7	Height of overhead guard (cabin)	h ₆	mm	2140	2140
	4.8	Seat height/standing height	h ₇	mm	1070	1070
	4.12	Tow coupling height	h ₁₀	mm	560	560
	4.19	Overall length	l ₁	mm	2945	3095
	4.20	Length to face of forks	l ₂	mm	2025	2025
	4.21	Overall width	b ₁ /b ₂	mm	1050	1150
	4.22	Fork dimensions	s×e×l	mm	40X100X920	40X122X1070
	4.23	A,B Fork carriage class/type A, B			2A	2A
	4.24	Fork carriage width	b ₃	mm	1040	1040
	4.31	Ground clearance, laden, below mast	m ₁	mm	86	86
	4.32	Ground clearance, center of wheelbase	m ₂	mm	104	104
	4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	3348	3348
	4.34.2	Aisle width for pallets 800×1200 lengthways	Ast	mm	3485	3485
Performance data	4.35	Turning radius	Wa	mm	1605	1605
	5.1	Travel speed, laden/unladen		km/h	15/16	15/16
	5.2	Lifting speed, laden/unladen		m/s	0.35/0.43	0.35/0.43
	5.3	Lowering speed, laden/unladen		m/s	0.45/0.37	0.45/0.37
	5.8	Max. gradeability, laden/unladen		%	15/17	15/17
	5.10	Service brake			Electromagnetic	Electromagnetic
Electric-engine	5.11	Parking brake			Electromagnetic	Electromagnetic
	6.1	Drive motor rating S2 60 min		kW	5.4X2	5.4X2
	6.2	Lift motor rating at S3 15%		kW	11	11
	6.4	Battery voltage/nominal capacity		V/Ah	48V/280Ah	48V/405Ah
	6.5	Battery weight		kg	165	207
	6.6	Energy consumption according to DIN EN 16796		kWh/h	—	5.288 ¹⁾
	6.7	Turnover output according to VDI 2198		t/h	—	120
	6.8	Turnover efficiency according to VDI 2198		t/kWh	—	22.69
Drive/lift mechanism	8.1	Type of drive control			AC	AC
Addition data	10.5	Steering design			Hydraulic	Hydraulic
	10.7	Sound pressure level at the driver's ear		dB(A)	75	79
	15.1	Charger output current		A	50	50

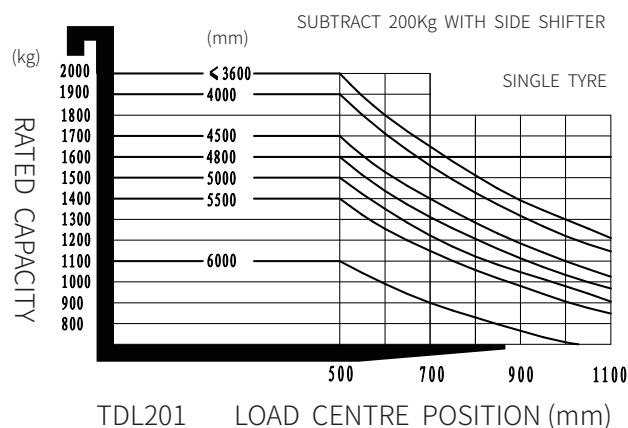
If there are improvements of technical parameters or configurations, no further notice will be given.
The diagram shown may contain non-standard configurations.



Mast Option

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	2075	3740	4055	100	100
	3600	2375	4340	4655	100	100
	4000	2625	4740	5055	100	100
3-Free Mast	4500	2140	5240	5555	1430	1115
	4800	2240	5540	5855	1530	1215
	5000	2305	5740	6055	1595	1280
	5500	2475	6240	6555	1765	1450
	6000	2690	6740	7055	1980	1665

RATED CAPACITIES AND LOAD CENTERES GRAPH



Option

No.	Optional items	TDL161
1.1	Fork dimension	●100*40*920○100*40*1070○100*40*1100○100*40*1150 ○100*40*1220○100*40*1370○100*40*1520○100*40*1800
1.4	Fork carriage width	●1040mm○Yes and can be customized
1.5	Fork carriage height	●1067mm (42in) ○1220mm (48in) ○1520mm (60in) ○Yes and can be customized
2.5	Front wheel material	●Solid○Non-marking solid
2.6	Rear wheel material	●Solid○Non-marking solid
2.7	Battery capacity	●280Ah○405Ah
2.8	Charger	●48V-50A internal○48V-150A external○48V-200A external
2.9	Battery indicator	●With time
2.10	Seat type	○Regular●Premium●Premium + seatbelt logic switch(CE) ○Suspension ○Suspension + seatbelt logic switch
2.11	Attachments	●No○Built-in sideshifter○External shifter○Fork positioner
2.13	Traction pin	●Yes
2.14	Electrostatic chain	●Yes
3.5	Front lamp	●LED
3.6	Rear lamp	●No○LED
3.7	Warning lamp	●Yes
3.8	Steering lamp	●LED
3.9	Blue lamp	●No○2 front○1 rear○2 front + 1 rear
3.10	Area warning lamp	●No○Red, add 1 on both sides
3.11	Rearview mirror	●1 rearview mirror○2 rearview mirrors
3.12	Hummer	●Yes
3.17	OPS system	●Yes
3.19	USB interface	●No○Yes and not customized
3.22	Electronic sale with print	●No○Yes and not customized
3.23	Telematics	●No○Yes and not customized
4.3	Cabin	●No○Yes and not customized
4.5	Proportional lift system	●No○Yes and not customized
4.9	Heater	●No○Yes and not customized
Note: ● standard ○ option — NA		

No.	Optional items	TDL201
1.1	Fork dimension	●122*40*1070○122*40*920○122*40*1150○122*40*1220 ○122*40*1370○122*40*1500○122*40*1600○122*40*1700 ○122*40*1820○122*40*1900○122*40*2000○122*40*2200
1.4	Fork carriage width	●1040mm ○Yes and can be customized
1.5	Fork carriage height	●1067mm (42in) ○1220mm (48in) ○1520mm (60in) ○Yes and can be customized
2.5	Front wheel material	●Solid○Non-marking solid
2.6	Rear wheel material	●Solid○Non-marking solid
2.7	Battery capacity	●405Ah
2.8	Charger	●48V-50A internal ○48V-150A external ○48V-200A external
2.9	Battery indicator	●With time
2.10	Seat type	○Regular ●Premium ●Premium + seatbelt logic switch(CE) ○Suspension ○Suspension + seatbelt logic switch
2.11	Attachments	●No○Built-in sideshifter○External shifter○Fork positioner
2.13	Traction pin	●Yes
2.14	Electrostatic chain	●Yes
3.5	Front lamp	●LED
3.6	Rear lamp	●No○LED
3.7	Warning lamp	●Yes
3.8	Steering lamp	●LED
3.9	Blue lamp	●No○2 front○1 rear○2 front + 1 rear
3.10	Area warning lamp	●No○Red, add 1 on both sides
3.11	Rearview mirror	●1 rearview mirror○2 rearview mirrors
3.12	Hummer	●Yes
3.17	OPS system	●Yes
3.19	USB interface	●No○Yes and not customized
3.22	Electronic sale with print	●No○Yes and not customized
3.23	Telematics	●No○Yes and not customized
4.3	Cabin	●No○Yes and not customized
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4.9	Heater	●No○Yes and not customized
Note: ● standard ○ option — NA		