

80V Dual-drive Three-wheel Counterbalance Forklift 1000kg





ler's grow together

- Lightweighted and compact size for smooth operation in extremely tight spaces
- Overhead guard height (h6) < 2000mm to work on mezzanines and across floors
- Dual drive motors and three-wheel design deliver sensitive steering and great maneuverability
- Large legroom of 464mm and comfortable seat with armrest for operator comfort
- 80V Li-ion battery and PMSM technology for high efficiency and performance
- Automatic parking brake and turn speed control for safe operation

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Manufacturer			EP
Model designation			TCL101
Drive			Electric
Load capacity	Q	kg	1000
Load center distance	С	mm	500
Service weight		kg	1950
Retracted mast height	h1	mm	1990
Lift height	h3	mm	3000
Height, mast extended	h4	mm	3919
Length to face of forks	12	mm	1684
Overall width	b1/b2	mm	1020
Fork dimensions	s/e/l	mm	35X100X920
Turning radius	Wa	mm	1422
Travel speed, laden/unladen		km/h	11/13
Lifting speed, laden/unladen		m/s	280/350
Lowering speed, laden/unladen		m/s	350/350
Max. gradeability, laden/unladen		%	13/15
Drive motor rating S2 60 min		kW	2.0X2
Battery voltage/nominal capacity		V/Ah	80V/50Ah

■ FEATURE

Compact size with an ample legroom

With its service weight less than 2 tons, compact size, and overhead guard height (h6) < 2000mm, the TCL101 is ideal for mezzanines and cargo lifts usage and in narrow spaces like intensive warehousing and HGVs. To fits the smallest of spaces, it also provides optional folding forks for increased versatility.

Despite its compactness, the TCL101 prioritizes operator comfort with an ergonomic design, providing an ample legroom of 464mm for a comfortable operating experience.



Dual drive motors for high agility and performance

The dual drive motors give the TCL101 sensitive steering and the 3-wheel design allows it to turn on the spot. Both contribute to its smaller turning radius of 1422mm and offers great maneuverability in crowded environments. With a top speed of 13km/h, the truck can move pallets quickly and ensures working efficiency.



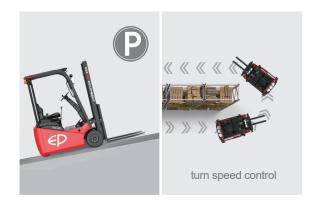
80V Li-ion battery and PMSM technology for improved efficiency and runtime

Equipped with 80V Li-ion battery and integrated charger as standard, the TCL101 supports opportunity charging with no maintenance. Additionally, the TCL101 employs advanced permanent magnet synchronous motor (PMSM) technology and can achieve 10-15% energy savings and extend runtime by 10% compared to conventional motors.



Automatic parking brake and turn speed control for safe operation

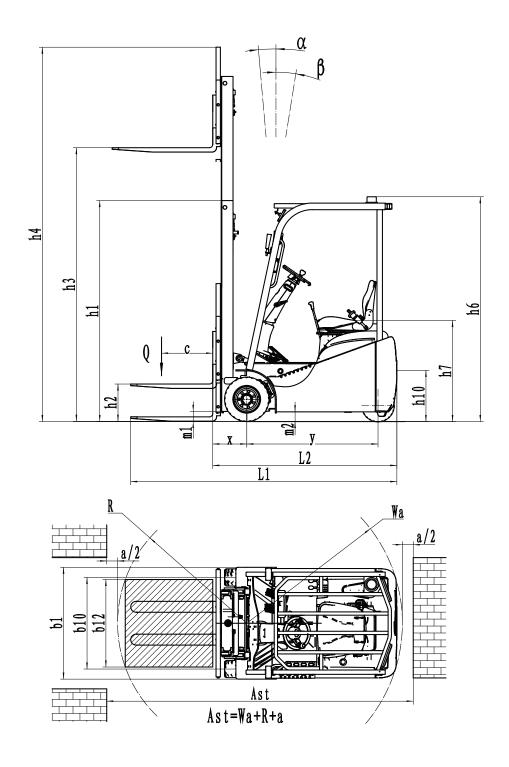
The TCL101 features an automatic parking brake which can protect the forklift from accidentally rolling back when parked on a slope. It's also equipped with turn speed control as standard for operation safety and stability even in the tightest of corners.



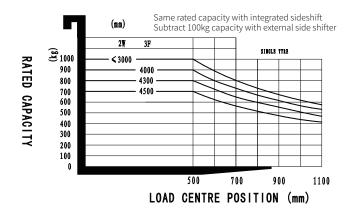
80V Dual-drive Three-wheel Counterbalance Forklift 1000kg TCL101

1.1 Manufacturer
1.3 Drive Electric
1.8 Load distance, centre of drive axie to fork x mm 310 1.9 Wheelbase y mm 1200 2.1 Service weight kg 1950 2.2 Axie loading, laden front/rear kg 2585/365 2.3 Axie loading, unladen front/rear kg 910/1040 3.1 Tyre type Solid rubber 3.2 Tyre size, front 16X6-8 3.3 Tyre size, rear 3.5-5 3.5 Wheels, number front/rear (x=drive wheels) mm 2Xi2 3.6 Tread width, front bio mm 838 3.7 Tread width, front bii mm 208 4.1 Tilt of mast/fork carriage forward/backward α/β ° 6/6 4.2 Retracted mast height hi mm 1990 4.3 Free lift hi mm 3000 4.5 Height, mast extended hi mm 3919 4.7 Height of overhead guard (cabin) hi mm 1960 4.8 Seat height/standing height hi mm 483 4.19 Overall length hi mm 483 4.20 Length to face of forks hi mm 1684 4.21 Overall width hi mm 35X100X920 4.22 Fork dimensions s×e×I mm 35X100X920 4.23 A,B Fork carriage class/type A, B 2A 4.24 Fork carriage width bi mm 960 4.31 Ground clearance, laden, below mast mi mm mm 93
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4.2 Retracted mast height h1 mm 1990 4.3 Free lift h2 mm 120 4.4 Lift height h3 mm 3000 4.5 Height, mast extended h4 mm 3919 4.7 Height of overhead guard (cabin) h6 mm 1960 4.8 Seat height/standing height h7 mm 925 4.12 Tow coupling height h10 mm 483 4.19 Overall length l1 mm 2604 4.20 Length to face of forks l2 mm 1684 4.21 Overall width b1/b2 mm 1020 4.22 Fork dimensions s×e×l mm 35X100X920 4.23 A,B Fork carriage class/type A, B 2A 4.24 Fork carriage width b3 mm 960 4.31 Ground clearance, laden, below mast m1 mm 93
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4.32 Ground clearance, center of wheelbase m ₂ mm 89
4.34.1 Aisle width for pallets 1000×1200 crossways Ast mm 3063
4.34.2 Aisle width for pallets 800×1200 lengthways Ast mm 3184
4.35 Turning radius Wa mm 1422
5.1 Travel speed, laden/unladen km/h 11/13
5.2 Lifting speed, laden/unladen m/s 280/350 5.3 Lowering speed, laden/unladen m/s 350/350 5.8 Max. gradeability, laden/unladen % 13/15 5.10 Service brake Electromagnetic
5.3 Lowering speed, laden/unladen m/s 350/350
5.8 Max. gradeability, laden/unladen % 13/15
5.10 Service brake Electromagnetic
5.11 Parking brake Electromagnetic
6.1 Drive motor rating S2 60 min kW 2.0X2
6.2 Lift motor rating at S3 15% kW 7
6.4 Battery voltage/nominal capacity V/Ah 80V/50Ah
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10.5 Steering design Hydraulic
10.7 Sound pressure level at the driver's ear dB(A) 68

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



RATED CAPACITIES AND LOAD CENTERES GRAPH



Mast Option

		Height, Mast			Height,Free lift(h2)				
Mast types	Lift height (h3)	Height, mast extended(h4)				Tilt		Load distance(X)	
		Height, mast lowered(h1)	No backrest	No backrest With backrest	No backrest	With backrest	Forward (α)	Backward (β)	without sideshift, single solid tyres
									1.0t
	mm	mm	mm	mm	mm	mm	Deg	mm	kg
	2500	1745	2995	3565	120	120	6	6	310
0.01	2700	1845	3195	3765	120	120	6	6	310
2-Standard Mast	3000	1990	3495	4065	120	120	6	6	310
	3300	2145	3795	4365	120	120	6	6	310
	4000	1775	4525	5055	1280	750	6	6	360
3-Free Mast	4300	1925	4805	5335	1430	900	6	6	360
	4500	2025	5025	5555	1530	1000	6	6	360

Option

Орпоп	
Optional items	TCL101
Fork dimension	●600*600, 2A、100*35*920●600*600, 2A、100*35*750 ∘600*600, 2A、100*35*1070∘900*600, 2A、100*40*1150 ∘900*600、2A、100*40*1220
Front wheel material	○Normal solid ○Non-marking solid
Rear wheel material	○Normal solid○Non-marking solid
Battery capacity	●80V50Ah○80V100Ah
Charger	●80V-35A Single-phase built-in charger
Battery display indicator (BDI)	●With hourmeter
Seat type	●Regular+ safety belt switch ○Comfortable + safety belt switch○Suspension + safety belt switch
Attachments	No∘Built-in sideshifter∘External shifter
clamp interlock	●No
Traction pin	●Yes and not customized
Anti-static chain	●Yes and not customized
Front lamp	●LED
Rear lamp	●No∘LED
Warning lamp	●Yes and not customized
Turn signal light	•LED
Blue lamp	No∘Rear∘Front∘Front and rear
Area warning lamp	No∘Both side∘Both side and rear
Rearview mirror	●One in frontoTwo on sides and one in front
Buzzer	●Yes and not customized
OPS system	●Yes and not customized
USB interface	●No
Telematics	●Yes and not customized
Speed reduction for elevated mast- Australian standard	No⊙Only for Australia standard
Turn speed control	●Yes and not customized
Heating system during lithium battery charging	 No∘Yes and not customized
Operator identification device	∘Card reader
Lifting electronic limit	●No
Hydraulic control	●Mechanical lever
Rear armrest horn	●No
Cabin	●No
Overhead guard	●Yes and not customized
Note: ●Standard ○Optional - Inconformity	