

TCL101

3-WHEEL DUAL-DRIVE SUPERCOMPACT COUNTERBALANCE FORKLIFT 1.0T

 1000 kg  4500 mm  Li-Ion



TCL101 is a compact 80V lithium-ion 3 wheels forklift designed for applications in tight indoor spaces, offering small turning radius and a low overall height that enables work in narrow aisles, low-clearance areas, mezzanines, and cargo lifts. Its dual-drive PMS Motor ensures smooth, agile handling, while automatic stop on ramp and speed reduction on turns support safe operation. TCL101 is the ideal forklift for light to medium-duty applications where maneuverability are the main priorities.

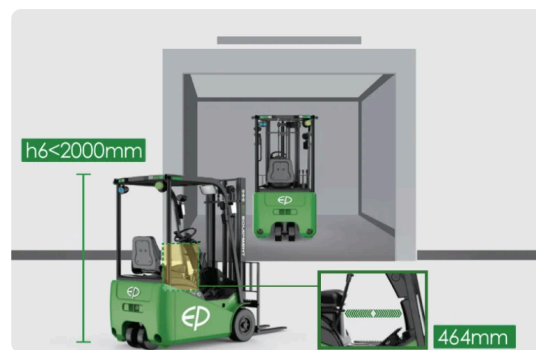
SPECIFICATION	REF	UNIT	VALUE
Manufacturer			EP
Model designation			TCL101
Battery voltage/nominal capacity		V/Ah	80/50
Rated capacity	Q	kg	1000
Load centre distance	c	mm	500
Service weight		kg	1985
Height, mast lowered	h_1	mm	1990
Lift	h_3	mm	3000
Height, mast extended	h_4	mm	3919
Overall length	l_1	mm	2434
Overall width	b_1/b_2	mm	1020
Length to face of forks	l_2	mm	1684
Fork dimensions	s/e/l	mm	35X100X920
Turning radius	Wa	mm	1422
Drive			Electric
Operator type			Seated

Features

Compact size with high operator comfort

With its low service weight, compact size, and overhead guard height (h_6) < 2000mm, TCL is ideal for mezzanines and cargo lifts usage and in narrow spaces like intensive warehousing and HGVs.

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



Dual drive motors

The unique dual drive motor system, unmatched in this capacity segment, gives the TCL outstanding traction and ultra-responsive steering. Together with its agile 3-wheel design, it turns on the spot and delivers an exceptionally tight turning radius — perfect for navigating busy, space-restricted environments. With a top speed of 13 km/h and powerful acceleration, the TCL ensures fast pallet handling and boosts everyday work efficiency.



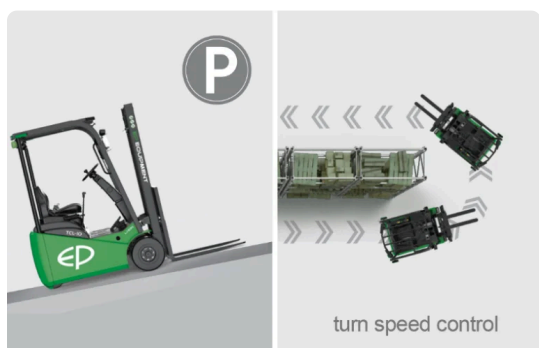
80V Li-ion & PMSM technology

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



Top class features

The TCL features automatic stop on ramp and electric 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 maximum productivity safety and stability even in the tightest of corners.



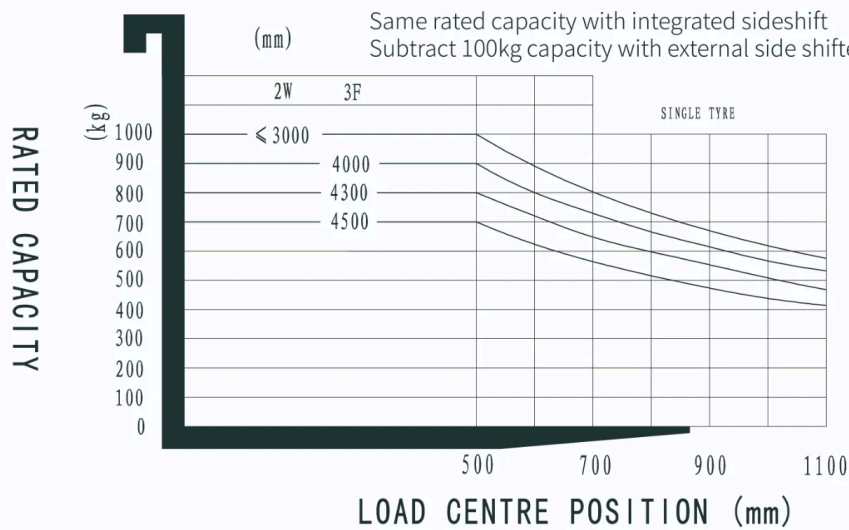
VDI Chart

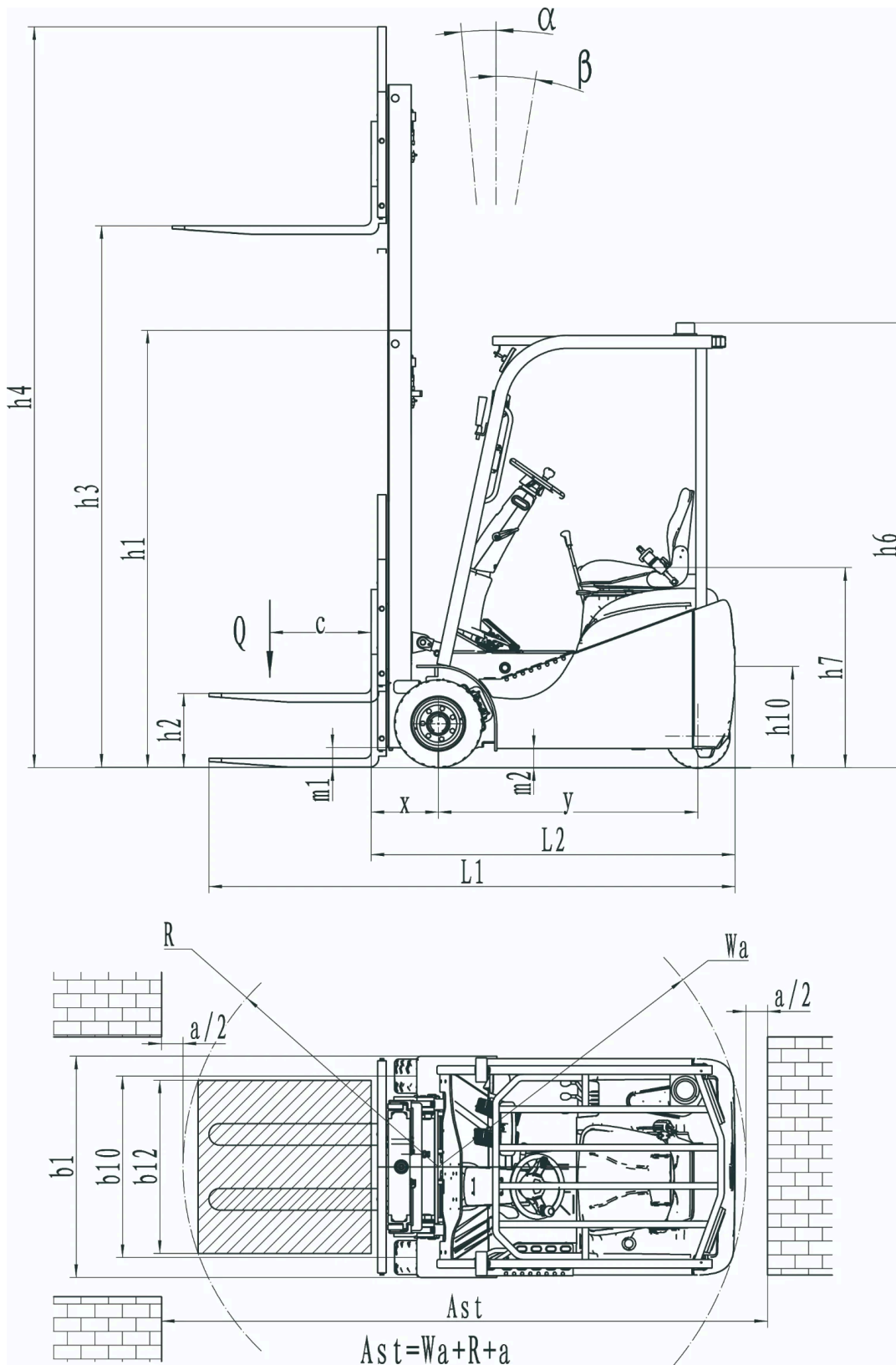
	SPECIFICATION	REF	UNIT	VALUE
1.1	Manufacturer			EP
1.2	Model designation			TCL101
1.3	Drive			Electric
1.4	Operator type			Seated
1.5	Rated capacity	Q	kg	1000
1.6	Load centre distance	c	mm	500
1.8	Load distance, centre of drive axle to fork	x	mm	310
1.9	Wheelbase	y	mm	1200
2.1	Service weight		kg	1985
2.2	Axle loading, laden front/rear		kg	2546/439
2.3	Axle loading, unladen front/rear		kg	871/1114
3.1	Tyres			Solidrubber
3.2	Tyre size, front		mm	16X6-8
3.3	Tyre size, rear		mm	3.5-5
3.5	Wheels, number front/rear (x=drive wheels)			2X/2
3.6	Tread width, front	b ₁₀	mm	838
3.7	Tread width, rear	b ₁₁	mm	208
4.1	Tilt of mast/fork carriage forward/backward	α/β	°	6/6
4.2	Height, mast lowered	h ₁	mm	1990
4.2.1	Overall height		mm	3919
4.3	Free lift	h ₂	mm	120
4.4	Lift	h ₃	mm	3000
4.5	Height, mast extended	h ₄	mm	3919
4.7	Height of overhead guard (cabin)	h ₆	mm	1968
4.8	Seat height relating to SIP/stand height	h ₇	mm	925
4.12	Coupling height	h ₁₀	mm	483
4.19	Overall length	l ₁	mm	2434
4.20	Length to face of forks	l ₂	mm	1684
4.21	Overall width	b ₁ /b ₂	mm	1020
4.22	Fork dimensions	s/e/1	mm	35X100X920
4.23	Fork carriage ISO 2328, class/type A, B			2A
4.24	Fork carriage width		mm	960

SPECIFICATION		REF	UNIT	VALUE
4.31	Ground clearance, laden, below mast		mm	93
4.32	Ground clearance, centre of wheelbase	m ₂	mm	89
4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	2804
4.34.2	Aisle width for pallets 800 × 1200 lengthways	Ast	mm	3026
4.35	Turning radius	Wa	mm	1422
5.1	Travel speed, laden/unladen		km/h	11/13
5.2	Lift speed, laden/unladen		m/s	0.28/0.35
5.3	Lowering speed, laden/unladen		m/s	0.32/0.36
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	80/50
6.4.3	Battery type			Li-Ion
6.5	Battery weight		kg	61
8.1	Type of drive unit			PMSM
10.5	Steering design			Hydraulic
10.7	Sound pressure level at the driver's seat		dB(A)	68
15.1	Charger output current		A	35

Subject to modification of specifications and designs without prior notice as part of continuous product improvement. Images and technical data shown may include optional features and are provided for reference only. All dimensions are subject to standard manufacturing tolerances.

RATED CAPACITIES AND LOAD CENTERES GRAPH





Mast Options

MAST TYPE	LIFT HEIGHT (H3, MM)	MAST LOWERED HEIGHT (H1, MM)	MAST EXTENDED HEIGHT, NO BACKREST (H4, MM)	MAST EXTENDED HEIGHT, WITH BACKREST (H4, MM)	FREE LIFT HEIGHT, NO BACKREST (H2, MM)	FREE LIFT HEIGHT, WITH BACKREST (H2, MM)
2-Stage Single Cylinder M2500		1745	2995	3565	120	120

MAST TYPE	LIFT HEIGHT (H3, MM)	MAST LOWERED HEIGHT (H1, MM)	MAST EXTENDED HEIGHT, NO BACKREST (H4, MM)	MAST EXTENDED HEIGHT, WITH BACKREST (H4, MM)	FREE LIFT HEIGHT, NO BACKREST (H2, MM)	FREE LIFT HEIGHT, WITH BACKREST (H2, MM)
2-Stage Single Cylinder Mast	2300	1845	3195	3765	120	120
2-Stage Single Cylinder Mast	2600	1990	3495	4065	120	120
2-Stage Single Cylinder Mast	3300	2145	3795	4365	120	120
2-Standard Mast	2500	1778	3045	3555	105	105
2-Standard Mast	2700	1878	3245	3755	105	105
2-Standard Mast	3000	2028	3545	4055	105	105
2-Standard Mast	3300	2178	3845	4355	105	105
2-Standard Mast	3600	2328	4145	4655	105	105
2-Free Mast	2500	1753	3045	3555	1260	725
2-Free Mast	2700	1853	3245	3755	1360	825
2-Free Mast	3000	2003	3545	4055	1510	975
2-Free Mast	3300	2153	3845	4355	1660	1125
2-Free Mast	3600	2303	4145	4655	1810	1275
3-Free Mast	4000	1863	4546	5055	1370	835
3-Free Mast	4300	1963	4826	5335	1470	935
3-Free Mast	4500	2028	5046	5555	1535	1000

Options

ITEM	OPTIONS (optional items marked in yellow)
Fork dimension	600*600 2A 100*35*920 600*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 indicator	With hourmeter

ITEM	OPTIONS (optional items marked in yellow)
Seat type	Regular+ safety belt switch Comfortable + safety belt switch Suspension + safety belt switch
Attachments	No Built-in sideshifter External shifter
Traction pin	Yes and not customised
Front lamp	LED
Rear lamp	No LED
Warning lamp	Yes and not customised
Blue lamp	No Rear Front Front and rear
Area warning lamp	No Both side Both side and rear
Rearview mirror	One in front Two on sides and one in front
Buzzer	Yes and not customised
OPS system	Yes and not customised
USB interface	No
Telematics	Yes and not customised
Cabin	No
Overhead guard	Yes and not customised
Clamp interlock	No
Anti-static chain	Yes and not customised
Turn signal light	LED
AS/NZS function package	No Only for Australia standard
Turn speed control	Yes and not customised
Heating system during lithium battery charging	No Yes and not customised
Operator identification device	Card reader
Lifting electronic limit	No
Hydraulic system operating mode	Mechanical lever
Rear armrest horn	No