




# TCL101

## 3-WHEEL DUAL-DRIVE SUPERCOMPACT COUNTERBALANCE FORKLIFT 1.0T

 1000 kg    4500 mm    80 V Li-Ion



TCL 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. TCL is the ideal forklift for light to medium-duty applications where maneuverability are the main priorities.

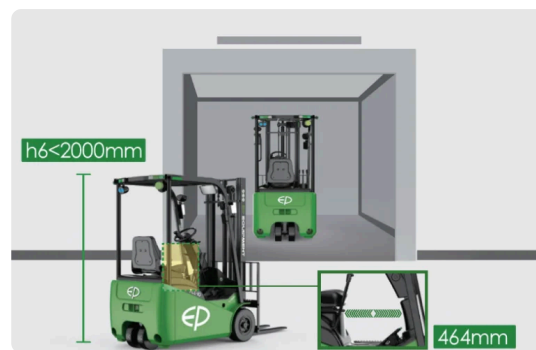
SPECIFICATION	REF	UNIT	VALUE
Battery type			Li-Ion
Battery nominal capacity		Ah	50
Battery voltage		V	80
Load capacity	Q	kg	1000
Load centre distance	c	mm	500
Service weight		kg	1950
Retracted mast height	h <sub>1</sub>	mm	1990
Lift height	h <sub>3</sub>	mm	2500
Height, mast extended	h <sub>4</sub>	mm	3919
Overall length		mm	2604
Overall width	b <sub>1</sub> /b <sub>2</sub>	mm	1020
Length to face of forks	l <sub>2</sub>	mm	1684
Fork dimensions	s/e/l	mm	35X100X920
Turning radius		Wa	1422
Operator type			Seated operator
Load distance, centre of drive axle to fork		mm	310

# 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.



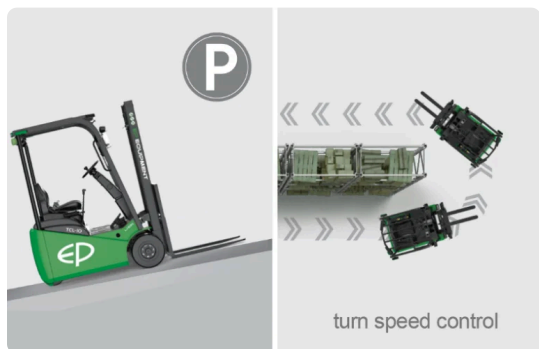
## 80V Li-ion & PMSM technology

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

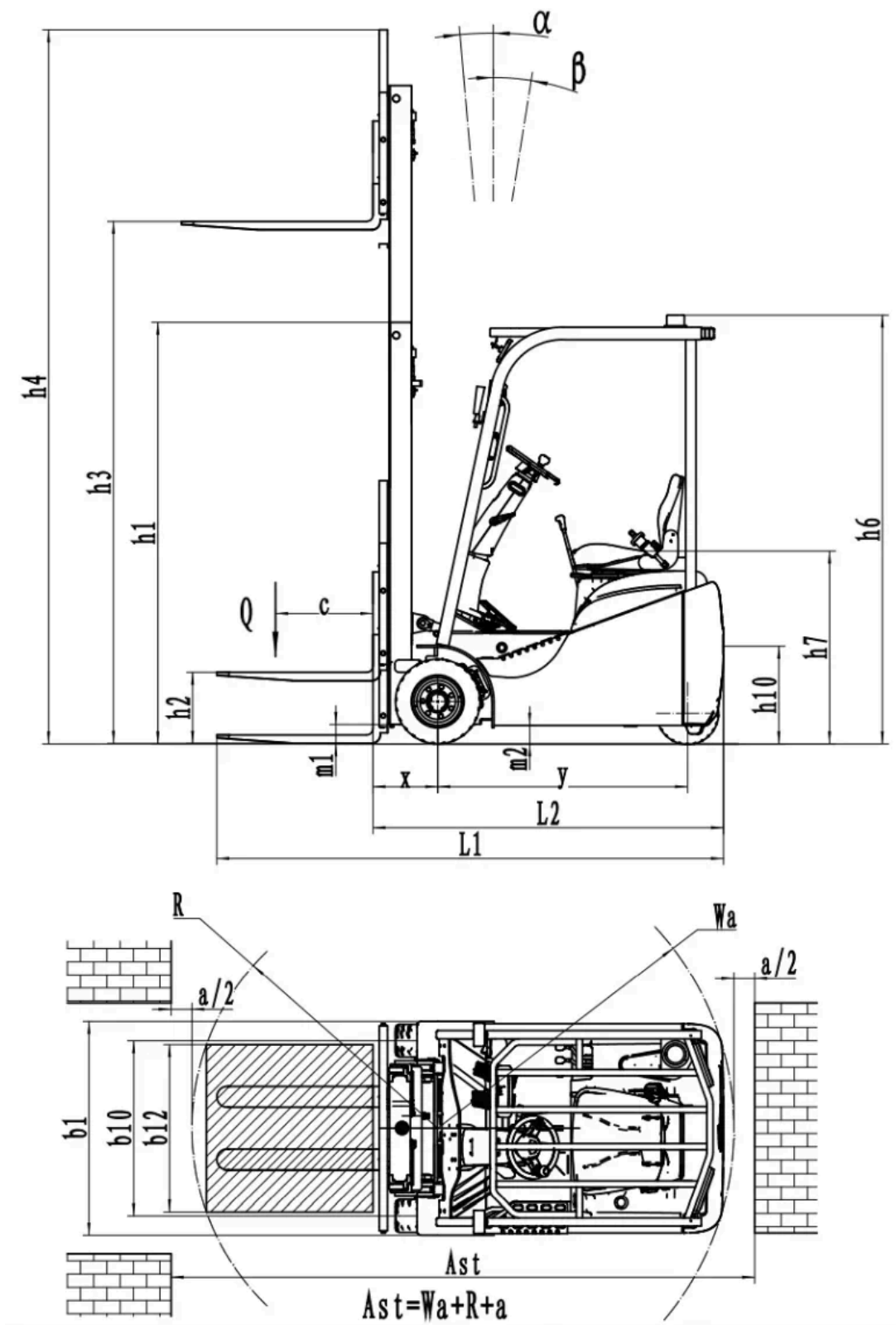
The TCL features automatic stop on ramp and electric parking brake which can protect the forklift from accidentally rolling back when parked on a slope. It's also equipped with turn speed control as standard for maximum productivity safety and stability even in the tightest of corners.



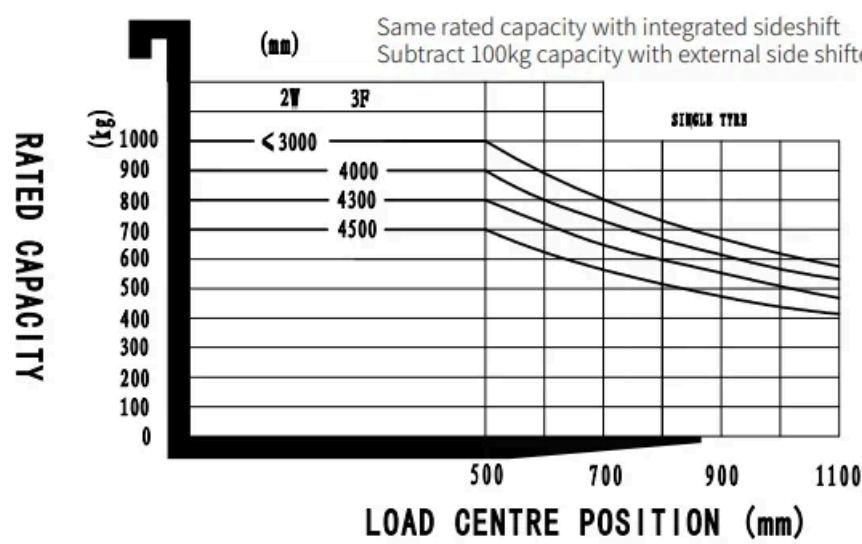
# VDI Chart

	SPECIFICATION	REF	UNIT	VALUE
1.4	Operator type			Seated operator
1.5	Load capacity	Q	kg	1000
1.6	Load centre distance	c	mm	500
1.8	Load distance, centre of drive axle to fork		mm	310
1.9	Wheelbase		mm	1200
2.1	Service weight		kg	1950
2.2	Axle loading, laden front/rear		kg	2585/365
2.3	Axle loading, unladen front/rear		kg	910/1040
3.1	Tyre type			Solid rubber
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
3.6.1	Tread width, front	b <sub>10</sub>	mm	838
3.7.1	Tread width, rear	b <sub>11</sub>	mm	208
4.0	Max lift height	H	mm	4500
4.1	Tilt of mast/fork carriage forward/backward		°	6/6
4.12	Tow coupling height		mm	483
4.19	Overall length		mm	2604
4.2	Retracted mast height	h <sub>1</sub>	mm	1990
4.20	Length to face of forks	l <sub>2</sub>	mm	1684
4.21	Overall width	b <sub>1</sub> /b <sub>2</sub>	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		mm	960
4.3	Free lift		mm	120
4.31	Ground clearance, laden, below mast		mm	93
4.32	Ground clearance, centre of wheelbase		mm	89
4.34.1	Aisle width for pallets 1000×1200 crossways		Ast	3063
4.34.2	Aisle width for pallets 800×1200 lengthways		Ast	3184
4.35	Turning radius		Wa	1422
4.4	Lift height	h <sub>3</sub>	mm	2500
4.5	Height, mast extended	h <sub>4</sub>	mm	3919

SPECIFICATION		REF	UNIT	VALUE
4.7	Height of overhead guard (cabin)		mm	2000
4.8	Seat height/standing height		mm	464
5.1	Travel speed, laden/unladen		km/h	11/13
5.10	Service brake			Electromagnetic
5.11	Parking brake			Electromagnetic
5.2	Lifting speed, laden/unladen		m/s	0.28/0.35
5.3	Lowering speed, laden/unladen		m/s	0.35/0.35
5.8	Max. gradeability, laden/unladen		%	13/15
6.1	Drive motor rating S2 60 min		kW	2.0x2
6.2	Lift motor rating at S3 15%		kW	7
6.4	Battery nominal capacity		Ah	50
6.4	Battery voltage		V	80
6.4.1	Battery type			Li-Ion
6.5	Battery weight		kg	65
10.5	Steering design			Hydraulic
10.7	Sound pressure level at the drivers ear		dB(A)	68



# 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)	HEIGHT, MAST EXTENDED, NO SHELVING (H4, MM)	HEIGHT, MAST EXTENDED, WITH SHELVING (H4, MM)	HEIGHT, FREE LIFT, NO SHELVING (H2, MM)
2-Standard Mast	2500	1745	2995	3565	120	120	6	6	310
2-Standard Mast	2700	1845	3195	3765	120	120	6	6	310
2-Standard Mast	3000	1990	3495	4065	120	120	6	6	310
2-Standard Mast	3300	2145	3795	4365	120	120	6	6	310
3-Free Mast	4000	1775	4525	5055	1280	750	6	6	360
3-Free Mast	4300	1925	4805	5335	1430	900	6	6	360
3-Free Mast	4500	2025	5025	5555	1530	1000	6	6	360

## Options

ITEM	OPTIONS (optional items marked in yellow)
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

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 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
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
Front lamp	LED
Rear lamp	No   LED
Warning lamp	Yes and not customised
Blue lamp	No   Rear   Front   Front and rear
Cabin	No
Overhead guard	Yes and not customised
Clamp interlock	No
Anti-static chain	Yes and not customised
Turn signal light	LED
Special AUS/NZ options	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 control	Mechanical lever
Rear armrest horn	No