

# TDL162

## 80V Dual-drive 3-Wheel Forklift Truck 1600kg



- Enhanced travel speed, lifting speed, gradeability and residual load capacity for productivity boost
- 80V dual-drive system ensuring powerful drive and excellent acceleration
- Standard 80V 280Ah lithium battery grants long endurance and opportunity charging
- Integrated charger and external plug for external charger available on the same truck to meet different needs
- Great ergonomic design with spacious legroom, wider visibility, better steering sensitivity and lower noise level
- Joystick control and full cabin options available

Manufacturer			EP
Model designation			TDL162
Drive			Electric
Load capacity	Q	kg	1600
Load center distance	c	mm	500
Service weight			kg
Retracted mast height	h1	mm	1985
Lift height	h3	mm	3000
Height, mast extended	h4	mm	3650
Length to face of forks	l2	mm	2015
Overall width	b1/b2	mm	1050
Fork dimensions	s/e/l	mm	40×100×920
Turning radius	Wa	mm	1639
Travel speed, laden/unladen			km/h
Lifting speed, laden/unladen			m/s
Lowering speed, laden/unladen			m/s
Max. gradeability, laden/unladen			%
Drive motor rating S2 60 min			kW
Battery voltage/nominal capacity			V/Ah

## FEATURES

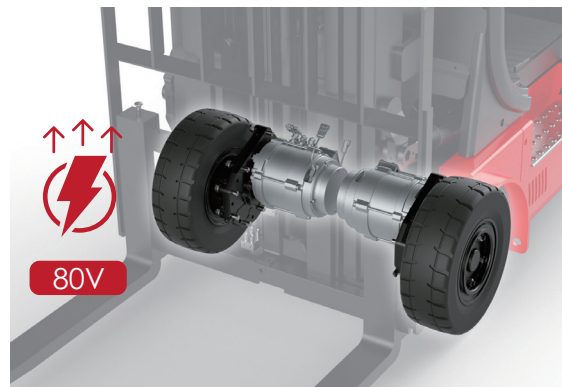
### Outstanding performance for productivity boost

Thanks to the optimized structure and design, the TDL162 features significant increases in travel speed, lifting speed, lowering speed, residual load capacity and max gradeability, compared to its class. The forklift maintains the nominal capacity of 1600kg up to 4.35 meters elevation with triple-stage mast, demonstrating exceptional stability and performance. With these outstanding strengths, the TDL162 speeds up warehouse turnover and maximizes transport efficiency.



### 80V Li-ion dual-drive power system for high energy efficiency

The dual-drive power system of the TDL162 has been upgraded from 48V to 80V and the truck comes with 80V/280Ah Li-ion battery as standard, ensuring lower energy consumption a powerful drive and long endurance.



### 2 charging possibilities on the same truck

TDL162 comes standard with single phase integrated charger with plug and a plug for external charger. Thanks to this new feature TDL162 charging become extremely flexible and can meet all kind of application needs up to the multi-shift operation using the external fast charger.



## FEATURES

### Ergonomic design to improve driving comfort and convenience

The TDL162 is designed around ergonomic requirements: a large workspace, improved steering sensitivity, wider visibility, lower noise level and an informative LED display with performance selector switch, all of which provides the driver with an efficient, comfortable and safe operation experience.



### Premium option to fulfill high-end needs

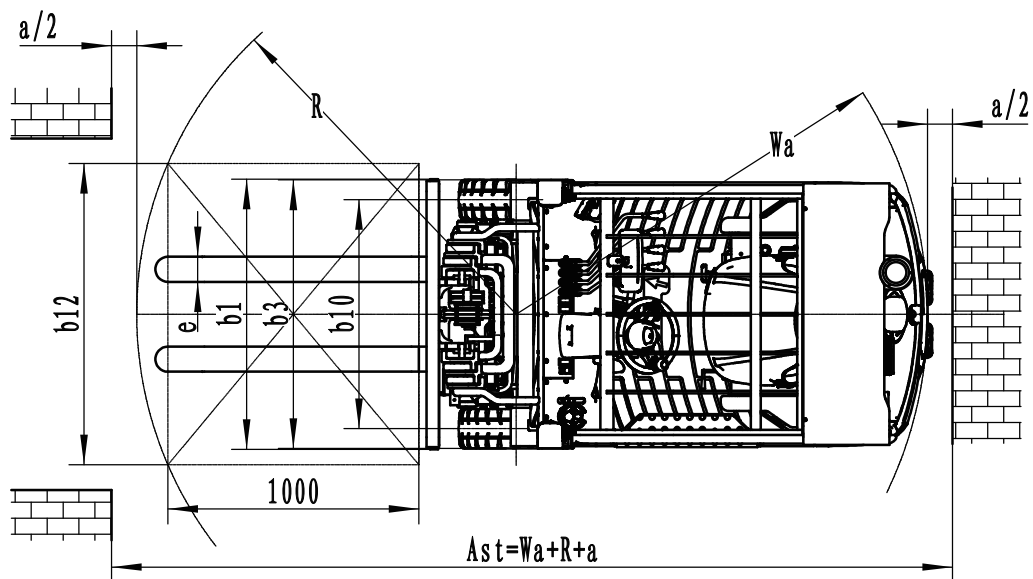
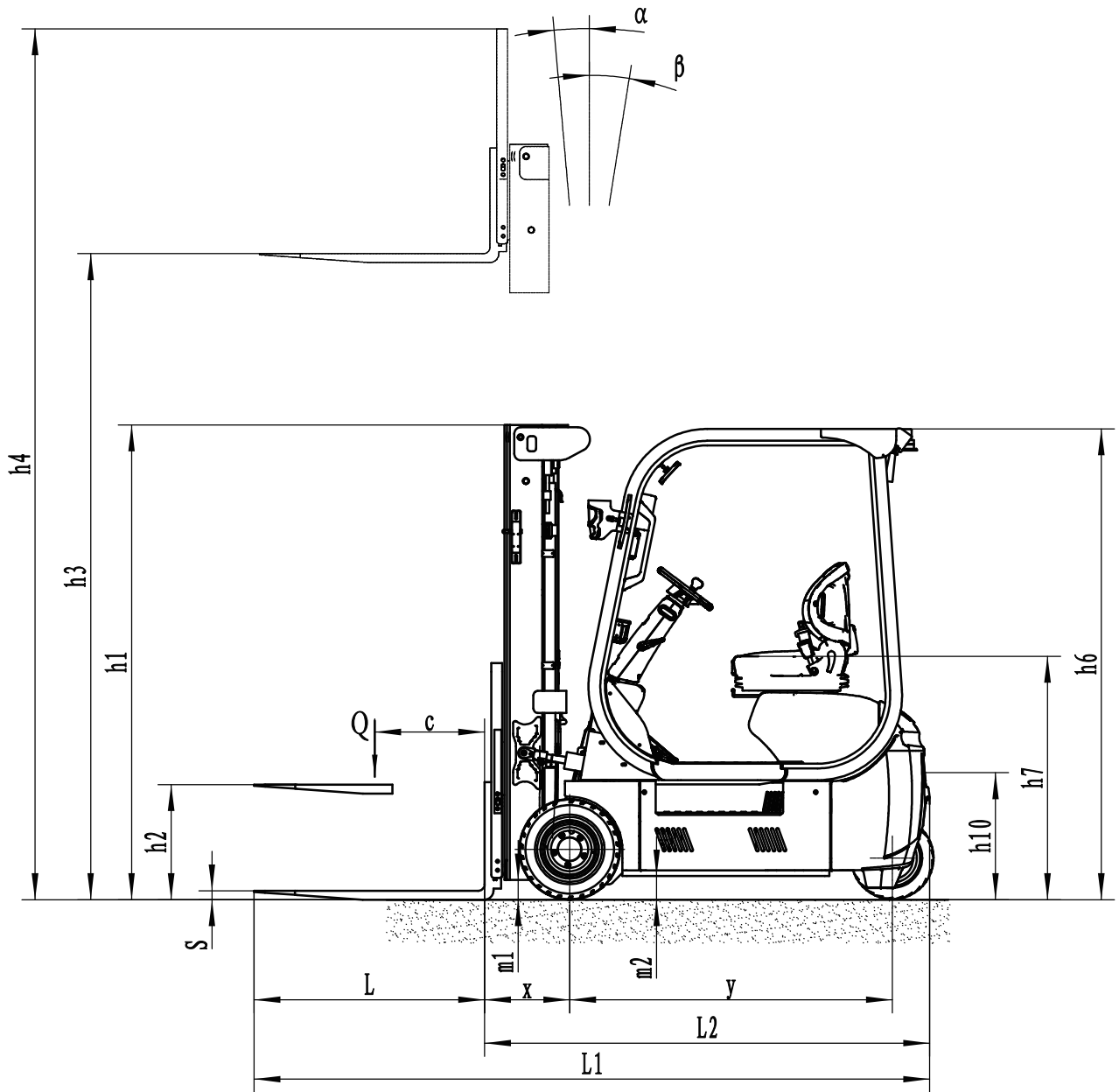
The TDL162 can be fitted with the joystick option positioned at the end of armrest to replace manual levers and it allows all controls to be performed in a palm-sized area without fatigue: all hydraulic functions, direction changes, horn, and emergency stop, all within a compact, ergonomic design. For operations in challenging weather, the all-weather cabin option extends the forklift's operation across various conditions, ensuring consistent productivity regardless of the environment.



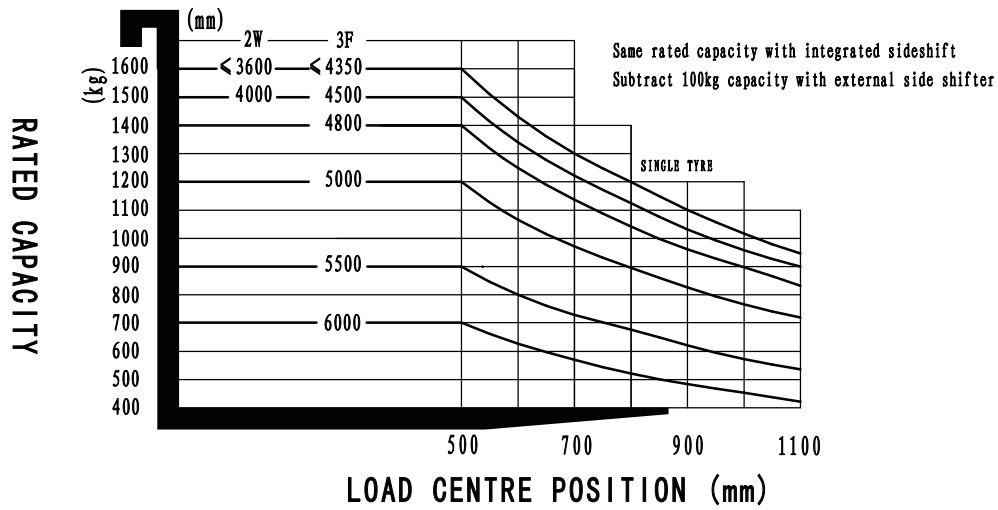
# 80V Dual-drive 3-Wheel Forklift Truck 1600kg TDL162

Distinguishing mark	1.1	Manufacturer			EP
	1.2	Model designation			TDL162
	1.3	Drive			Electric
	1.4	Operator type			Seated
	1.5	Load capacity	Q	kg	1600
	1.6	Load center distance	c	mm	500
	1.8	Load distance, centre of drive axle to fork	x	mm	375
	1.9	Wheelbase	y	mm	1470
	Service weight	2.1	Service weight		kg
2.2		Axle loading, laden front/rear		kg	4129/617
2.3		Axle loading, unladen front/rear		kg	1576/1570
Tyres/chassis	3.1	Tyre type			Solidrubber
	3.2	Tyre size, front			18x7-8
	3.3	Tyre size, rear			140/55-9
	3.5	Wheels, number front/rear (x=drive wheels)		mm	2X/2
	3.6	Tread width, front	b <sub>10</sub>	mm	910
	3.7	Tread width, rear	b <sub>11</sub>	mm	210
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	$\alpha/\beta$	°	7/6
	4.2	Retracted mast height	h <sub>1</sub>	mm	1985
	4.3	Free lift	h <sub>2</sub>	mm	100
	4.4	Lift height	h <sub>3</sub>	mm	3000
	4.5	Height, mast extended	h <sub>4</sub>	mm	3650
	4.7	Height of overhead guard (cabin)	h <sub>6</sub>	mm	2140
	4.8	Seat height/standing height	h <sub>7</sub>	mm	1070
	4.12	Tow coupling height	h <sub>10</sub>	mm	580
	4.19	Overall length	l <sub>i</sub>	mm	2935
	4.20	Length to face of forks	l <sub>e</sub>	mm	2015
	4.21	Overall width	b <sub>1</sub> /b <sub>2</sub>	mm	1050
	4.22	Fork dimensions	s×e×l	mm	40X100X920
	4.23	A,B Fork carriage class/type A, B			2A
	4.24	Fork carriage width	b <sub>3</sub>	mm	1040
	4.31	Ground clearance, laden, below mast	m <sub>1</sub>	mm	90
	4.32	Ground clearance, center of wheelbase	m <sub>2</sub>	mm	107
	4.34.1	Aisle width for pallets 1000×1200 crossways	A <sub>st</sub>	mm	3339
4.34.2	Aisle width for pallets 800×1200 lengthways	A <sub>st</sub>	mm	3464	
4.35	Turning radius	W <sub>a</sub>	mm	1639	
Performance data	5.1	Travel speed, laden/unladen		km/h	16/17
	5.2	Lifting speed, laden/unladen		m/s	0.5/0.52
	5.3	Lowering speed, laden/unladen		m/s	0.55/0.55
	5.8	Max. gradeability, laden/unladen		%	20/25
	5.10	Service brake			Electromagnetic
	5.11	Parking brake			Electromagnetic
Electric-engine	6.1	Drive motor rating S2 60 min		kW	5.4X2
	6.2	Lift motor rating at S3 15%		kW	18
	6.4	Battery voltage/nominal capacity		V/Ah	80V/280Ah
	6.5	Battery weight		kg	220
	Addition data	8.1	Type of drive control		
10.5		Steering design			Hydraulic
10.7		Sound pressure level at the driver's ear		dB(A)	65
15.1		Charger output current		A	35

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:

Mast types	Lift height (h3)	Height, Mast			Height, Free lift(h2)	
		Height, mast lowered(h1)	Height, mast extended(h4)		No backrest	With backrest
	mm		mm	mm		
2-Standard Mast	3000	1985	3650	3965	100	100
	3600	2285	4250	4565	100	100
	4000	2365	4650	4965	100	100
3-Free Mast	4000	1860	4650	4965	1140	825
	4350	2010	5000	5315	1290	975
	4500	2050	5150	5465	1340	1025
	4800	2150	5450	5765	1440	1125
	5000	2215	5650	5965	1505	1190
	5500	2385	6150	6465	1675	1360
	6000	2600	6650	6965	1890	1575

# Option:

Optional items	TDL162
Fork dimension	<ul style="list-style-type: none"> <li>● 100*40*920 ○ 100*40*1070</li> <li>○ 100*40*1100 ○ 100*40*1150</li> <li>○ 100*40*1220 ○ 100*40*1370</li> <li>○ 100*40*1520 ○ 100*40*1800</li> </ul>
Front wheel material	<ul style="list-style-type: none"> <li>● Normal solid ○ Non-marking solid</li> </ul>
Rear wheel material	<ul style="list-style-type: none"> <li>● Normal solid ○ Non-marking solid</li> </ul>
Battery capacity	<ul style="list-style-type: none"> <li>● 80V280AH</li> </ul>
Charger	<ul style="list-style-type: none"> <li>● 80V-35A Internal ○ 80V-60A External</li> <li>○ 80V100A External</li> </ul>
Battery indicator	<ul style="list-style-type: none"> <li>● With hourmeter (Bluetooth)</li> </ul>
Seat type	<ul style="list-style-type: none"> <li>● Comfortable ○ Suspension</li> <li>○ Suspension with armrest</li> </ul>
Attachments	<ul style="list-style-type: none"> <li>● No ○ Built-in sidershifter</li> <li>○ External sidershifter ○ Fork positioner with sidershift</li> </ul>
Clamp interlock	<ul style="list-style-type: none"> <li>● No</li> </ul>
Traction pin	<ul style="list-style-type: none"> <li>● Yes and not customized</li> </ul>
Electrostatic discharge chain	<ul style="list-style-type: none"> <li>● Yes and not customized</li> </ul>
Front lamp	<ul style="list-style-type: none"> <li>● LED</li> </ul>
Rear lamp	<ul style="list-style-type: none"> <li>● No ○ LED</li> </ul>
Warning lamp	<ul style="list-style-type: none"> <li>● Yes and not customized</li> </ul>
Turn signal light	<ul style="list-style-type: none"> <li>● LED</li> </ul>
Blue lamp	<ul style="list-style-type: none"> <li>● No ○ Rear ○ Front and rear</li> </ul>
Area warning lamp	<ul style="list-style-type: none"> <li>● No</li> <li>○ Both sides</li> <li>○ Both sides and one in rear</li> </ul>
Rearview mirror	<ul style="list-style-type: none"> <li>● One in front</li> <li>○ Two on sides and one in front</li> </ul>
Buzzer	<ul style="list-style-type: none"> <li>● Yes and not customized</li> </ul>
Fire extinguisher holder	<ul style="list-style-type: none"> <li>● No ○ Yes and not customized</li> </ul>
OPS system	<ul style="list-style-type: none"> <li>● Yes and not customized</li> </ul>
USB interface	<ul style="list-style-type: none"> <li>● No ○ Yes and not customized</li> </ul>
Telematics	<ul style="list-style-type: none"> <li>● Yes and not customized</li> </ul>
Speed reduction for elevated mast- Australian standard	<ul style="list-style-type: none"> <li>● No ○ Yes and not customized (only for Australia standard)</li> </ul>
Turn speed control	<ul style="list-style-type: none"> <li>● Yes and not customized</li> </ul>
Heating system for lithium battery charging	<ul style="list-style-type: none"> <li>● No ○ Yes and not customized</li> </ul>
Operator identification device	<ul style="list-style-type: none"> <li>● No ○ Card reader</li> <li>○ Fingerprint lock</li> </ul>
Lifting electronic limit	<ul style="list-style-type: none"> <li>● Yes and not customized</li> </ul>
Hydraulic operating system	<ul style="list-style-type: none"> <li>● Mechanical lever ○ Joystick</li> </ul>
Rear grab handle with horn	<ul style="list-style-type: none"> <li>● Yes and not customized</li> </ul>
Cabin	<ul style="list-style-type: none"> <li>○ Coming soon</li> </ul>
Overhead guard	<ul style="list-style-type: none"> <li>● Yes and not customized</li> </ul>
Wiper water unit	<ul style="list-style-type: none"> <li>● No</li> </ul>
Note :	<ul style="list-style-type: none"> <li>● Standard ○ Optional - Inconformity</li> </ul>