

FORKLIFT

TF15-E

ELECTRIC

A powerful electric machine that can lift up to 1.5 tons of weight, making it suitable for a variety of heavy-duty applications



TUBOSHU

SUITE 5, 66 WESTBOURNE TERRACE
LONDON, ENGLAND W2 3UJ
T: +44 7457 405 800

TUBOSHU.CO.UK

CHARACTERISTICS			
Manufacturer			TUBOSHU
Model			TF15-E
Configuration Number			CPD15-A3LIH4-M
Rated Capacity			1500
Load Centre Distance	Q	kg	500
Power Mode	C	mm	Lithium Battery
Driving Mode			Seated
Front Overhang	x	mm	409
Wheelbase	y	mm	1475
WEIGHT			
Total Weight (With/Without Battery)		kg	2885/2675
Axle Load (Laden, Front/Rear)		kg	3719/636
Axle Load (Unladen, Front/Rear)		kg	1294/1561
TYRES			
Tyre Type			Pneumatic
Tyre Size, Front			6.50-10-10PR
Tyre Size, Rear			16x6-8-10PR
Wheels Number Front/Rear			2/2
Tread, Front	b10	mm	934
Tread, Rear	b11	mm	920
DIMENSIONS			
Mast Tilt Angle	α/β	°	6/8
Height (Mast Lowered)	h1	mm	1995
Free lifting height	h2	mm	155
Lifting Height (Standard)	h3	mm	3000
Max Height Extended (With Backrest)	h4	mm	4014
Height of Overhead Guard	h6	mm	2130
Seat Height Relating to SIP (to Ground)	h7	mm	1125
Towing Coupling Height	h10	mm	250
Overall Lenght with Fork	l1	mm	3120
Overall Lenght without Fork	l2	mm	2200
Overall Width	b1	mm	1120
Fork Carriage According to ISO2328			2A
Fork Size (thickness x width x length)	s/e/l	mm	35x100x920
Distance Across Fork-Arms MAX/MIN	b5	mm	960/200
Ground Clearance at Mast	m1	mm	100
Ground Clearance (center of wheelbase)	m2	mm	95
Right Angle Stacking Aisle Width For Pallet (1000x1200mm) the Side of 1200 mm Is Placed Across The Forks	Ast	mm	3575
Right Angle Stacking Aisle Width For Pallet (800x1200mm) the Side of 1200 mm Is Placed Across The Forks	Ast	mm	3770
Minimum Outside Turning Radius	Wa	mm	1920
PERFORMANCE DATA			
Travel Speed (Laden/Unladen)		km/h	14.5/15
Lift Speed (Laden/Unladen)		m/s	0.320/0.440
Lowering Speed (Laden/Unladen)		m/s	0.400/0.400
Max. Draubar Pull (Laden/Unladen)		N	10200/9700
Max. Gradeability (Laden/Unladen)		%	17/27
Acceleration Time/10 m (Laden/Unladen)		s	5.5/5.2

LITHIUM BATTERY																			
BATTERY BRAND	HELI							CATL											
VOLTAGE/CAPACITY	80V 125Ah	80V 150Ah	80V 202Ah	80V 250Ah	80V 280Ah	80V 404Ah	80V 560Ah	80V 125Ah	80V 150Ah	80V 173Ah	80V 202Ah	80V 228Ah	80V 271Ah	80V 302Ah	80V 346Ah	80V 404h	80V 456Ah	80V 542Ah	80V 604Ah
1.5-1.8t S	x	o	o	o	o	-	-	o	o	o	o	o	o	o	-	-	-	-	-
1.5-1.8t M	-	x	o	o	o	-	-	-	o	o	o	o	o	o	-	-	-	-	-
2t(X)S	-	x	o	o	o	-	-	-	o	o	o	o	o	o	-	-	-	-	-
2-2.5t S	-	x	o	o	o	o	-	-	o	o	o	o	o	o	o	o	-	-	-
2-2.5t M	-	-	x	o	o	o	-	-	-	-	o	o	o	o	o	o	-	-	-
3-3.5t S	-	-	x	o	o	o	o	-	-	-	o	o	o	o	o	o	o	o	o
3-3.5t M	-	-	-	x	o	o	o	-	-	-	-	-	o	o	o	o	o	o	o
3.8 S	-	-	-	x	o	o	o	-	-	-	-	-	o	o	o	o	o	o	o
Heating At Low Temp	x																		

"x" standard | "o" optional | "-" non-configurable

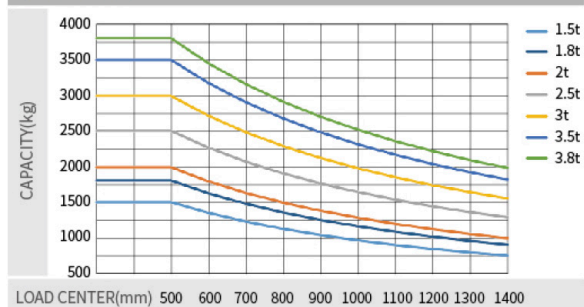
CHARGER		
Model		D80V100AL-438
Wiring Type		Three-phase four-wiring type
Power of Charger	KVA	10
Air Switch Model of Upper Level Power	A	32
Input Voltage Range	Vac	380±15%
Input Current	A	<20
Output Current	A	5-100
Protection Level		for indoor use
Workinh Ambient Temperature	°C	-20±+45
Plugs and Sockets		REMA320
Charger		full charging time=required charhing capacity/charging current+0.2h for example: the battery capacity is 80V/250Ah and the discharging state is alarmed by instrument. The charger is 100A, thus the full charging time is 250*0.9/100+0.2≈2.45h

LITHIUM BATTERY ADVANTAGES	
<ul style="list-style-type: none"> The truck selects mature and economical square iron phosphate lithium battery core and module used by large numbers of commercial vehicles; The module adopts aluminum alloy plate frame, which is firm, light in weight and has good heat dissipation effect; Fast charging: fast charging makes truck gapless operation possible, and it can be filled in 2 hours; High efficiency and safety: The charging and discharging efficiency is up to 98%, and temperature of thermal runaway is over 600 °c; Low temperature adaptability: Standard configuration of heating function ensures normal operation of low temperature envi-ronment; Long service life:the normal charging and discharging cycles is more than 3000times or 5years, and capacity retention rate is more than 75%; Maintenance free: the battery does not need manual maintenance and does not need to add distilled water electrolyte; Green and clean: no pollution and zero emission. 	

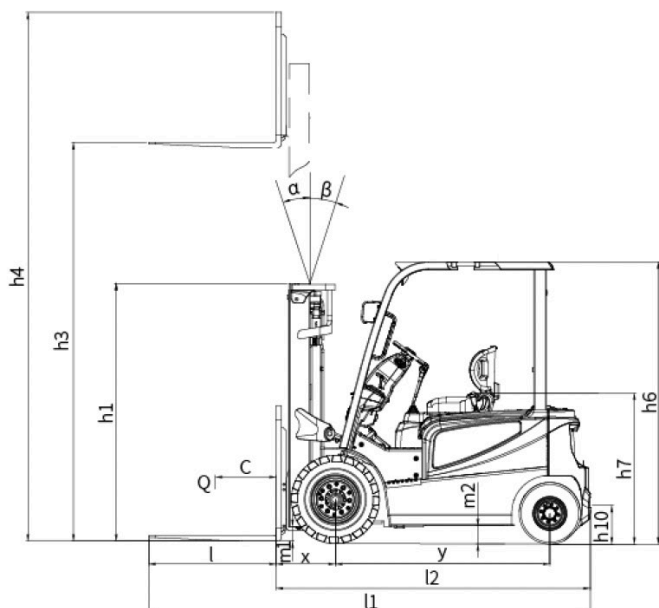
TUBOSHU Smart Fleet Management System (Domestic Base Edition)	
VEHICLE POSITIONING	STATISTICAL FORM
REMOTE DIAGNOSIS	VEHICLE MANAGEMENT
REMOTE MONITORING	IDENTIFICATION RECOGNITION (OPTIONAL)
MAINTENANCE REMINDER	WEIGHT MANAGEMENT (OPTIONAL)
BATTERY MANAGEMENT	COLLISION MANAGEMENT (OPTIONAL)

BATTERY			
Battery Voltage/Capacity		V/Ah	80/250
Battery Weight		kg	240
MOTOR & CONTROLLER			
Driving Motor Powering (S2-60min)		kW	15
Lifting Motor Powering (S3-15%)		kW	16
Driving Motor Controlling Mode			MOSFET/AC
Lifting Motor Controlling Mode			MOSFET/AC
ADDITIONAL DATA			
Service Brake/Parking Brake			Hydraulic/Mechanical
Operating Pressure for Attachements		Mpa	16

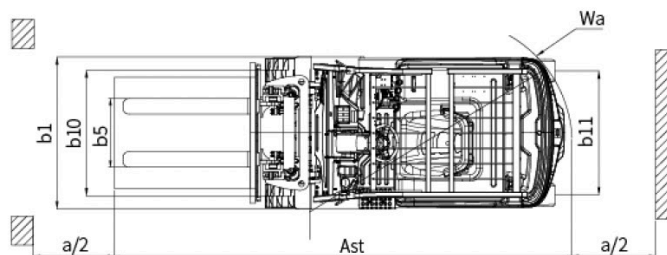
Load curve



Note : The vertical axis stands for load capacity and the horizontal axis stands for load center which is calculated from the front of the fork. The base point of the standard load refers to the center position of the cube with 1000mm length of side. When mast is tilted forward, non standard fork usage or load with over wide goods, load capacity will be reduced. Different load capacity in different load center can be known in time through load chart



Ast: right angle stacking aisle width
a: clearance 200mm



1.5T -2 STAGE STANDARD MAST						
MAST MODEL	MAX FORK HEIGHT mm	LOAD CAPACITY kg	HEIGHT (mast lowered) (mm)	FREE LIFT HEIGHT (with bakrest) (mm)	SERVICE WEIGHT (KG)	MAST TILT ANGLE α/β (°)
		1.5T	1.5T	1.5T		
M200	2000	1500	1495	155	2791	6/8
M250	2500	1500	1745	155	2823	6/8
M300	3000	1500	1995	155	2855	6/8
M330	3300	1500	2145	155	2874	6/8
M350	3500	1500	2245	155	2887	6/8
M370	3700	1500	2345	155	2900	6/6
M400	4000	1500	2545	155	2948	6/6
M425	4250	1500	2670	155	2965	6/6
M450	4500	1450	2795	155	2981	6/6
M500	5000	1200*1300	3045	155	3013	6/6
M550	5500	1000*1250	3345	155	3075	3/6
M600	6000	800*1200	3595	155	3107	3/6
1.5T -2 STAGE FULL FREE MAST						
MAST MODEL	MAX FORK HEIGHT mm	LOAD CAPACITY kg	HEIGHT (mast lowered) (mm)	FREE LIFT HEIGHT (with bakrest) (mm)	SERVICE WEIGHT (KG)	MAST TILT ANGLE α/β (°)
		1.5T	1.5T	1.5T		
ZM200	2000	1500	1495	485	2840	6/8
ZM250	2500	1500	1745	735	2872	6/8
ZM300	3000	1500	1995	985	2906	6/8
ZM330	3300	1500	2145	1135	2928	6/8
ZM350	3500	1500	2245	1235	2943	6/8
ZM370	3700	1500	2345	1335	2955	6/6
ZM400	4000	1500	3545	1535	3002	6/6
ZM425	4250	1500	2670	1660	3022	6/6
ZM450	4500	1450	2795	1785	3041	6/6*6/8
ZM500	5000	1200*1300	3045	2035	3075	6/6*6/6
ZM550	5500	1000*1250	3345	2335	3136	3/6*3/6
ZM600	6000	800*1200	3595	2585	3170	3/6*3/6
1.5T -3 STAGE FULL FREE MAST						
MAST MODEL	MAX FORK HEIGHT mm	LOAD CAPACITY kg	HEIGHT (mast lowered) (mm)	FREE LIFT HEIGHT (with bakrest) (mm)	SERVICE WEIGHT (KG)	MAST TILT ANGLE α/β (°)
		1.5T	1.5T	1.5T		
ZSM360	3600	1500	1790	785	2954	6/6
ZSM400	4000	1500	1925	920	2978	6/6
ZSM435	4350	1450*1500	2040	1035	3003	6/6*6/6
ZSM450	4500	1450*1500	2090	1085	3014	6/6*6/6
ZSM470	4700	1400*1450	2160	1155	3010	6/6*6/6
ZSM480	4800	1350*1400	2190	1185	3037	6/6*6/6
ZSM500	5000	1200*1300	2290	1285	3058	6/6*6/6
ZSM540	5400	1000*1250	2415	1410	3084	3/6*3/6
ZSM600	6000	800*1200	2640	1635	2855	3/6*3/6
ZMS650	6500	*1100	2840	1835	3194	3/3*3/3
ZSM700	7000	*900	3025	2025	3232	3/3*3/3

NOTE:
 * Indicates the rated load capacity of the front wheel with twin tyres; when the front wheels of 3-3.5T are twin tyres (solid tyres), the service weight is increased by 140kg and 208kg respectively according to the table data; When the front wheels of 3.8T are twin tyres (pneumatic tyres) and twin tyres (solid tyres), the service weight is increased by 103kg and 251kg respectively according to the table data.
 2-stage full free mast: 3T, when there is no bakrest, the free lifting height increases by 477mm; 3.5-3.8T, when there is no bakrest, the free lifting height increases by 407mm
 3-stage full free mast: 3T, when there is no bakrest, the free lifting height increases by 427mm; 3.5-3.8T, when there is no bakrest, the free lifting height increases by 407mm

OPTIONAL ITEMS				OPTIONAL ITEMS				
	MODEL	S	M		MODEL	S	M	
BASIC ITEMS	Pneumatic Tyre*	◊	◊	COMFORT ITEMS	Semi Enclosed Seat	◊	◊	
	Solid Tyre	-	-		Fully Suspended Seat	-	-	
	Single Tyre (front wheel)	◊	◊		Instrument Panel with 1 USB Interface (5V/1A)	-	-	
	Twin Tyre (front wheel)**	-	-		Steering Wheel Starts Steering	-	-	
	Two Piece Valve	◊	◊		Synchronous Steering	-	-	
	Three or Four Piece Valve	-	-		Steering Wheel with Handle Ball	◊	◊	
	Basic Type (3M Lifting Height)	◊	◊		Steering Wheel without Handle Ball	-	-	
	Other Type and Other Height Seriesmast***	-	-		Electric Fan	-	-	
	Standard Series Fork	◊	◊	CAB/ WINDSHIELD/ AIR CONDITIONNER/ HEATER	Panel Mounted Cab (including fan & wiper)	-	-	
	Non Standard Series Forks and Attachments	-	-		Heater	-	-	
Standard Exterior Color (blue grey + Tuboshu orange)	◊	◊	Single Cooling Air Conditionner		-	-		
Other Exterior Colors (customized)	-	-	Single Cooling Air Conditionner + Heater		-	-		
SAFETY ITEMS	Turning Speed Limit	-	-		NON STANDARD OVERHEAD GUARD	Font Windshield (including wiper)	-	-
	Reversing Armrest with Horn Switch	-	◊			Rear Windshield	-	-
	Overspeed 5km/h Alarm	-	-	Top Windshield (excluding fan)		-	-	
	Overspeed 8km/h Alarm	-	-	LIGHTS	50 mm Increased of Overhead Guard Height	-	-	
	Overspeed 10km/h Alarm	-	-		Overhead Guard (with protective net)	-	-	
	Travelling+Lifting+Tilting+Equipped with OPS Function (without lowering)	◊	◊		LED rear Work Light x1	-	-	
	Full Set of OPS Functions	-	-		Rear LED Red/Blue Spotlight x1	-	-	
	Seatbelt Switch	-	-		Rear & Lateral Red/Blue Bar Lights	-	-	
	Multi-Way Valve Overload	-	-	Fixed LED Flashing Warning Light	-	◊		
	Dry Powder Fire Extinguisher (0.5kg)	-	-	Fixed LED Rotary Warning Light	-	-		
	Dry Powder Fire Extinguisher (2kg)	-	-	Fixed LED Rotary Buzzing Warning Light	-	-		
	Carbon Dioxide Fire Extinguisher (2kg)	-	-	OTHERS	Metric Thread	◊	◊	
	Reversing Buzzer	◊	◊		Tilt Cylinder Jacket	-	-	
	Reversing Chinese Speaker	◊	◊		Steering Cylinder Jacket	-	-	
	No Universal Key	-	-		REMA Power Connector	◊	◊	
	With Universal Key	-	-		Domestic Battery	◊	◊	
	Electronic Lifting Upper Buffer	-	-		GS Battery	-	-	
	Central Wide-Angle Rearview Mirror	◊	◊		HOPPECKE Battery	-	-	
	Both Side Rearview Mirror+ Centre Wide-Angle Rearview Mirror	-	-		FAAM Battery	-	-	
	Reversing Radar (4 Probes)	-	-		Battery with Automatic Water Replenishment	-	-	
	Reversing Image (1 Camera + 4 Radar Probes)	-	-		FICS Standard Type (for China)	-	-	

◊ Standard -/- Optional | Some non standard options need to be customized. Please consult local sales personnel or product development technicians before purchasing.
 * 3-3.8 T rear wheel is equipped with solid tyre as standard
 ** The small 2T truck is not equipped with twin tyres
 *** There are restrictions on the type and height of dmsll 2T and 3.8T mast. See the table of mast parameters for details