



## PT Thubas Liftindo Perkasa

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TOUGH WORLD. TOUGH EQUIPMENT.

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# PALLET TRUCK

WITH LITHIUM-ION BATTERY



- Light Weight
- Small Size
- Low self-weight
- Li Lithium battery
- Smart design
- CAN-bus
- Best Cost-Performance Ratio
- CE



# Pallet truck with lithium-ion battery

The new series has been created by Liugong with the aim of offering an affordable range of products that will be able to effectively replace manual and semi-electric devices.

The name of the family comes from innovative technical solutions that have allowed us to create a full range of compact, intelligent products.

The obvious goal of any employer, in addition to ensuring work efficiency, is to reduce safety risks and prevent employee injury. Most back injury risks caused by workers having to use force to pull and push unpowered equipment can be easily eliminated with Liugong's new powered pallet trucks.

With increased productivity and reduced safety risks, the new family's cost of ownership is actually lower than that of manual and semi-electric equipment.

Smart features such as cornering speed control, PIN code, upright tiller function, fast charging and the ability to recharge lithium-ion batteries, previously not included in the range of economical powered load handling solutions, are now available for products new series and make your work easier.

The new series products comply with the requirements of international safety standards.



**CLG2015L**

Lifting capacity: 1500 kg

- Ideal for light applications.
- Compact and modern design
- Low operating weight.
- Rechargeable lithium-ion batteries.
- Ideal for use in retail stores and trucks.
- Easy battery replacement



**CLG2020L**

Lifting capacity: 2000kg

- The best solution for carrying heavy loads.
- Compact and robust.
- Rechargeable lithium-ion batteries.
- Easy battery replacement.
- Excellent hill climbing.
- Efficient drive and pump system.

## Smart and ergonomic drawbars



## RFID card

The RFID card provides faster access to equipment and is ideal for applications where one truck is used by multiple operators.



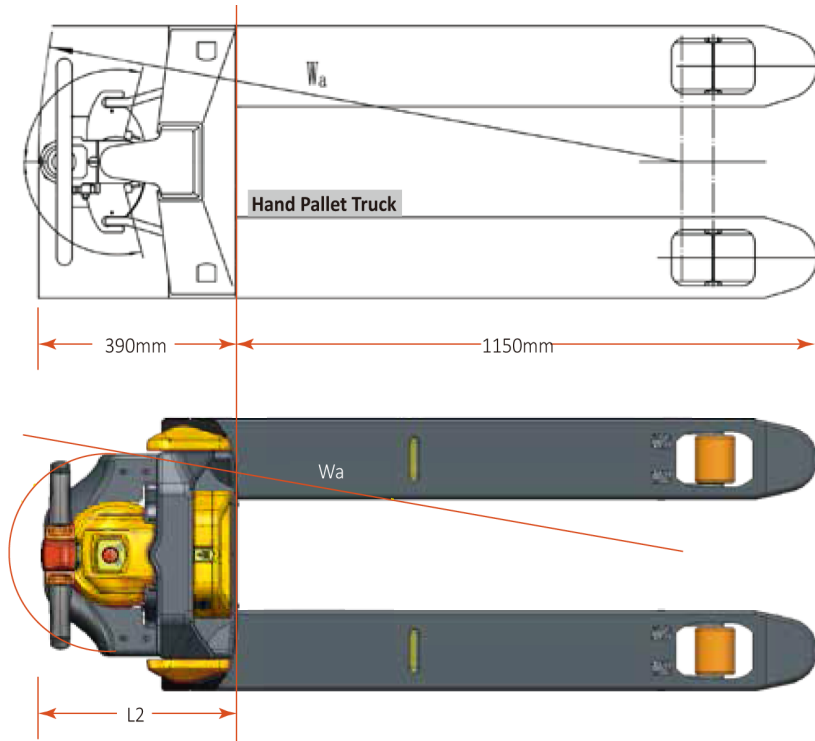
The drawbar rod is supported by an air spring, which helps to return the drawbar to a vertical position without hitting the end point.

In order to increase the comfort and safety of work, the trucks are equipped with a speed reduction function when cornering. (Optional on CLG2015L, Standard on CLG2020L)

The speed reduction value can be adjusted according to customer preference.



Compact design and gradeability



Model	Length corpus	Radius turn	Libra
CLG2015L	380mm	1300mm	123kg
CLG2020L	386mm	1336mm	149kg

Our engineers have gone to great lengths to create trucks that are more compact than the conventional handheld and semi-electric devices, so that they are fully electric, high performance solutions that can replace outdated, inefficient handheld and semi-electric devices and significantly reduce the risk of manual pumping injuries to operators or push/pull.

At the same time, the operating weight has been reduced without compromising the strength of the trucks, especially in delivery applications where it is critical.



The upright drawbar function helps working in confined spaces, especially in elevators and trucks, without compromising safety.



## Smart replaceable batteries for pallet trucks

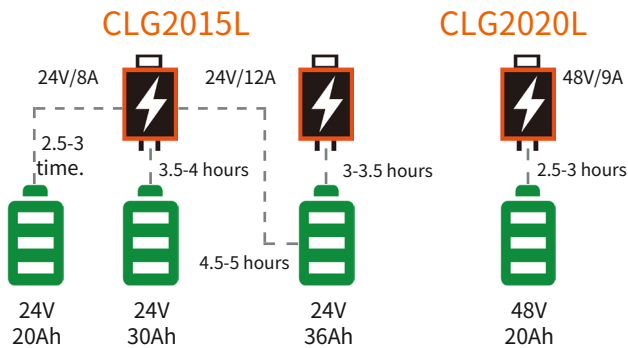
Liugong walk-behind pallet trucks are equipped with maintenance-free lithium-ion batteries. Various optional capacities are available for different applications, as well as quick charge and recharge capabilities (recharge at any time and for any length of time) that can greatly extend your run time.

All pallet truck batteries are placed and secured in the chambers, without the possibility of any changes of position, which guarantees a constant power supply.

The light weight of the battery (max. 8 kg) and extremely simple and quick replacement means that even women are able to double the working time in just a few seconds. This lightness is achieved by using lithium-ion batteries with a high energy density to weight ratio.



Smart, replaceable batteries for pallet trucks. Organize your working time with a range of batteries and chargers.



The socket on the battery housing allows you to charge the battery without removing it.



Pallet truck battery cases are made of ABS PC with 15% fiberglass.



Thanks to a specially designed system inserting the battery, you can quickly and easily place it in the compartment.

## Gradeability and durability



The new Liugong series boast excellent ramp performance even when fully loaded. Regardless of its economic position, any truck can enter the ramp - the level depends only on the performance of the particular truck. Each customer can therefore choose the right truck for a specific working environment.

The trolley frame is surrounded by stamped steel elements, which changes the appearance of the trolley and also protects the components.

The shape of the fork makes it easy to slide in and out of pallets. Double-sided C-shaped reinforcements along the entire length of the forks. Significantly increased strength and rigidity of the frame.

A strong steel guard protects the operator's feet during operation and protects the truck components from colliding with objects.



## Easy to maintain



For pallet trucks, no hoses or pipes are used in the hydraulic lifting circuit, greatly improving reliability and reducing potential problems with leaks through joints or their seals.

Trucks are equipped with Curtis controllers, CAN bus technology facilitates diagnostics and troubleshooting. The use of tested and certified components helps to ensure compliance with international safety standards, and all supporting documents are available in accordance with legal requirements.

Capacity			
	Ready	Min Volt	Max Volt
	24.50V	0mV	0mV
	0.00A	Avg Volt	Communication
		0.0mV	Normal

Realtime				
Rated Capacity	60.0	Ah	Wh(Current)	0.0
Discharge Cycle Times	--		Discharge Cycle Times	--
				Wh <input type="button" value="Reset"/>

Other		
Name	Value	Units
Cell Temp1	25.3	°C
Cell Temp1	25.1	°C
SOC	45	1/255
Power Temp	27.1	°C
Envir Temp	32.2	°C
Cell Volt Alarm	none	
Total Volt Alarm	none	
Current Alarm	none	
Temp Alarm	none	
Balance Alarm	none	

Volt		
Name	Value	Units
Cell	3507	mV
Total	24.5	V
Current	0.0	A
Run(Wh)	0	Wh

Each battery can be diagnosed via CAN connection using a special software tool. The software can provide battery status information such as cell balance, number of charge/discharge cycles, current, power consumption, temperature, charge/discharge parameters, voltage of each cell, failures and alarms, auto shutdown time settings.



# SPECIFICATIONS

Specifications	Model	1		CLG2015L	CLG2020L		
	Power type	2		Electric	Electric		
	Control	3		Guided	Guided		
	lifting capacity	4	Q(kg)	1500	2000		
	Load center of gravity	5	c(mm)	600	600		
	Overhang	6	x(mm)	947	951		
	Wheelbase	7	y (mm)	1185	1189		
Libra	Operating weight	8	kg	123	126	149	153
	Axle load with load, driving / loading	9	kg	500/1123	626/1000	621/1528	625/1528
	Axle load without load, driving/loading	10	kg	96/27	99/27	115/34	119/34
Chassis	Wheel	11		PU	PU		
	Drive wheel size	12	xw (mm)	210×70	210×70		
	Load wheel size	13	xw (mm)	80×93(80×70)	80×93(80×70)		
	Auxiliary wheel size	14	xw (mm)	80×30	80×30		
	Wheels (x = drive wheel) Driving / loading	15		1x/2(1x/4)or1x+2/2(1x+2/4)	1x/2(1x/4)or1x+2/2(1x+2/4)		
	Drive wheel tread width	16	b10 (mm)	-/420	-/420		
	Load wheel tread width	17	b11 (mm)	380	525	380	525
Dimension	The hight of raising	18	h3 (mm)	115	115		
	Handle height, min/max	19	h14 (mm)	700/1160	700/1160		
	Fork height	20	h13 (mm)	80	80		
	Total length	21	l1 (mm)	1530	1536		
	Body length	22	l2 (mm)	380	386		
	Total width	23	b1 (mm)	540	685	540	685
	Fork size	24	s/e/l (mm)	47/160/1150	47/160/1150		
	Fork spacing	25	b5 (mm)	540	685	540	685
	Min. Clearance	26	m2 (mm)	33	33		
	Aisle width, pallet 800x1200	27	AS(mm)	2000	2006		
	turning radius	28	W(mm)	1330	1336		
Efficiency	Driving speed (load/unloaded)	29	km/h	4.6/4.8	4.8/5.2		
	Lifting speed (load/no load)	30	mm/sec	20/25	17 / 22		
	Low speed mode (load/no load)	31	mm/sec	50 / 40	50 / 30		
	gradeability (load / no load)	32	%	4 / 16	8/16		
	Braking system	33		Electromagnetic	Electromagnetic		
System	Drive motor power, S2 60 min	34	kW	0.65	0.75		
	Lift motor power, S3 10%	35	kW	0.50	0.80		
	Battery according to DIN 43531/35/36 A, B, C	36		NO	NO		
	Battery voltage, capacity, K5	37		24/20(24/30; 24/36)	48 / 20		
	Battery weight (+/-5%)	38	kg	4.6	7.5		
The remaining	Energy consumption (according to VDI)	39	kWh/h	0.18	0.25		
	Control	40		DC	DC		
	Noise	41	dB(A)	<70	<70		

