

*Tire Direct*   
*La nueva generación*

# *TDIII TOOLS*

*[www.tiredirect.com.mx](http://www.tiredirect.com.mx)*

Model:  
**CQD20-D**

Max. Lift Height  
**14000mm**



## Advantages:

### HIGH EFFICIENCY AND FLEXIBILITY

- One-key start + password login , more convenient to start the truck .
- Electric power steering system(EPS).
- 180/360 degree steering mode.
- AC motor provides high driving speed (laden/ unladen): 10.5/11 km per hour.
- 4-stage driving speed selection.
- Intelligently optimized turning speed control system: The system analyzes the tire angle, driving and steering direction, then automatically adjusts the speed to achieve maximum safety performance.
- Fork side camera system provides better view, avoids the problem of being blocked by the pallets while stacking.
- Luxurious cushion seat equipped with OPS function.
- Standard integral side shifter.

### SAFETY AND STABILITY

- The mast adopts an offset design, optimizes the operator views.
- Height limit function, high speed limit function, turning speed limit function.
- The mast moving speed will be automatically reduce while reaching the end position.
- FULL AC control system with CAN communication technology.
- The service brake is operated by hydraulic brake and regenerative brake at the same time , with short braking distance.
- Automatic electromagnetic brake after parking.
- Seat with power-off switch while operator leave the seat.
- Standard: warning lights, headlights, rear view mirrors.
- Option: ACS function (when the mast is lifted and moved forward, it can reduce the truck vibration)

### SERVICE ABILITY

- One-piece upper cover with open design, convenient to maintain the controller, lifting pumps, hydraulic devices, drive motors and brake systems, etc.
- Sideway battery can be moved out with mast together, convenient to maintain/replace the battery.
- All electric parts are integrated modular design, easy for installation/ maintenance.

### The Console Has Been Fully Optimized And Upgraded

- The thumb switch imported from Germany, tilts forward fit to ergonomic design, convenient to operate; the thumb can conveniently control the front/rear button and the horn .
- The arm rest is designed with poly foam cushion, more comfortable for long-term operation.
- Switch button is integrated (to control LED headlights, fans, red light, etc.), with extended functions for easy operation.
- The steering wheel is adjustable front and rear, equipped with steering damping.
- The console is designed with multiple storage.
- Large-screen color instrument, real-time display of vehicle speed, working mode, working time, battery power, wheel angle and faults and other information (Option for mechanical control).
- With password login interface. (For magnetic control)
- All function can be operated with touch screen control, such as forward/backward switch, headlight control, horn control, 180/360 degree by one-key switch of steering mode, etc.
- It can communicate with camera system and display the image directly on the instrument.
- It can communicate with the vehicle weighing system and display the weight of the goods on the instrument in real time(Option) .
- It can communicate with the vehicle height positioning system, display the height of the forks on the instrument in real time, and carry out the operation of fixed height/fixed floor.option(Option) .

### OPTION

- Camera system
- Touch screen instrument
- Quick lifting function
- High capacity battery ( 800AH , 930AH )
- Weighing system
- Lithium battery
- Blue light
- Documents holder

**CE** Conforms to  
EN ISO3691-1 EN 1175  
EN 16307-1 EN 12100-1  
EN 12053-2001 EN 13059-2002



• Adjustable steering wheel



• Adjustable cushion seat



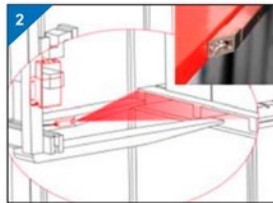
• The battery can be removed with the mast, and with side-way structure to facilitate the maintenance or replacement of the battery.





### Fully upgraded console

Large-screen instrument and finger-tip sticks, adopt Germany ELOBAU, with ergonomics design, can display battery power, wheel angle, faults and other information.



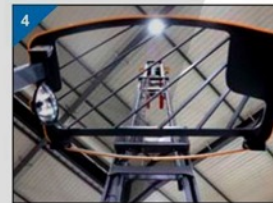
### Fork camera

The camera system is equipped on the fork, which provides a better view during fork moving, avoid the problems that view may be blocked by the pallet feet while stacking. The camera is made of stainless steel, IP protection grade is IP69, the shockproof grade is 10G. Not afraid of bump.



### One-piece cover

The cover can be opened to ensure the maintenance easy and fast.



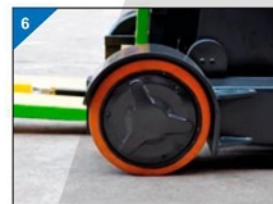
### Wide view mast

The mast system and roof guard adopt new structure, optimize operators' view.



### Height positioning system

Adopt absolute wire encoder. Start counting from 0.



### ASC forklift active stabilization system

When the mast moves forward and backward, the service brake will be locked automatically, which can ensure truck does not move forward and backward, improve the stability of the truck.

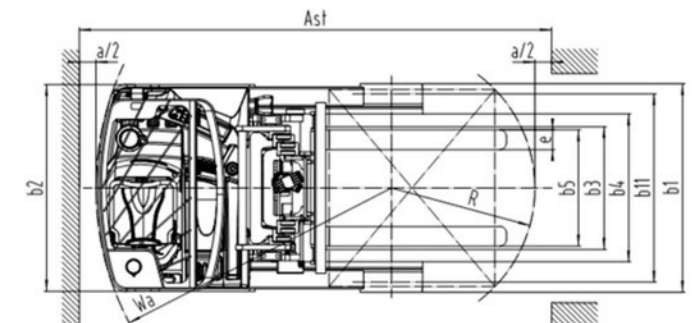
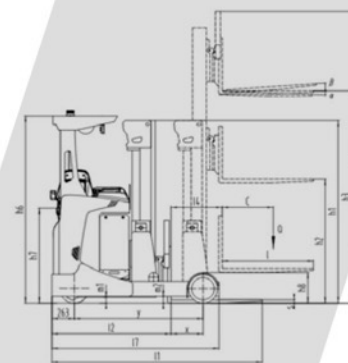
## Technical parameters

	1.2 Manufacturer's type designation	CQD20-D (lift height ≤ 9.5meters)	CQD20-D (9.5meters < lift height ≤ 12.5meters)	
General Information	1.3 Drive: electric (battery type, mains, ...), diesel, petrol, fuel gas	Electric	Electric	
	1.4 Operator type: hand, pedestrian, standing, seated, order-picker	Seated	Seated	
	1.5 Rated capacity/rated load	2000	2000	
Weight	1.6 Load centre distance	600	600	
	1.8 Load distance, centre of drive axle to fork	377	377	
	1.9 Wheelbase	1510	1510	
	2.1 Service weight	3605	4750	
	2.3 Axle loading, unladen front/rear	2245/1360	2958/1792	
Tyres	2.4 Axle loading, fork advanced, laden front/rear	727/4878	875/5875	
	2.5 Axle loading, fork retracted, laden front/rear	2030/3575	2444/4306	
	3.1 Tyres: solid rubber, superelastic, pneumatic, polyurethane	Polyurethane	Polyurethane	
	3.2 Tyre size, front	Φ343×140	Φ343×140	
	3.3 Tyre size, rear	Φ340×114	Φ340×114	
Dimensions	3.5 Wheels, number front/rear (x = driven wheels)	1x2	1x2	
	3.7 Tread, rear	b11 (mm)	1146	1196
	4.1 Tilt of mast/fork carriage forward/backward	a/b (°)	2/4	2/4
	4.2 Height, mast lowered	h1 (mm)	2240/2490/2740/2340/2740/3190/3390/3590/3890	4190/4490/4790/4956
	4.3 Free lift	h2 (mm)	0/0/0/1400/1800/2250/2450/2650/2950	3250/3550/3850/4016
		h2 (*) (mm)	0/0/0/1736/2136/2536/2736/2936/3236	3600/3900/4200/4366
	4.4 Max. lift height	h3 (mm)	3000/3500/4000/5000/6200/7400/8000/8600/9500	10200/11100/12000/12500
	4.5 Height, mast extended	h4 (mm)	3940/4440/4940/5940/7140/8340/8940/9540/10440	11140/12040/12940/13440
	4.7 Height of overhead guard (cabin)	h6 (mm)	2210	2210
	4.19 Overall length	l1 (mm)	2466	2466
	4.20 Length to face of forks	l2 (mm)	1396	1396
	4.21 Overall width	b1/b2 (mm)	1270/1260	1345/1260
	4.22 Fork dimensions DIN ISO 2331	s / e / l (mm)	40/120/1070	40/120/1070
	4.23 Fork carriage ISO 2328, class/type A, B		2B	2B
	4.24 Fork-carriage width	b3 (mm)	928	928
4.25 Fork spread	b5 (mm)	708	708	
4.26 Distance between wheel arms/loading surfaces	b4 (mm)	900	900	
4.28 Reach distance	l4 (mm)	600	600	
4.31 Ground clearance, laden, below mast	m1 (mm)	80	80	
4.34.1 Aisle width for pallets 1000 × 1200 crossways	Ast (mm)	2849	2849	
4.34.2 Aisle width for pallets 800 × 1200 lengthways	Ast (mm)	2899	2899	
4.35 Turning radius	Wa (mm)	1783	1783	
4.37 Length across wheel arms	l7 (mm)	1960	1960	
Performance Data	5.1 Travel speed, laden/unladen	km/h	10.5/11	10.5/11
	5.2 Lift speed, laden/unladen	m/s	0.29/0.45	0.29/0.45
	5.3 Lowering speed, laden/unladen	m/s	0.5/0.5	0.5/0.5
	5.4 Reaching speed, laden/unladen	m/s	0.12/0.12	0.12/0.12
	5.8 Max. gradeability, laden/unladen	%	10/10	10/10
Motors	5.10 Service brake		Electromagnetic	Electromagnetic
	6.1 Drive motor rating S2 60 min	kW	6.5(AC)	6.5(AC)
	6.2 Lift motor rating at S3 15%	kW	8.2(AC)	8.2(AC)
	6.4 Battery voltage/nominal capacity K <sub>s</sub>	(V)/(Ah) or kWh	48/500	48/500
	6.5 Battery weight	kg	870	870
Additional Data	10.7 Sound pressure level at the driver's seat	dB (A)	65	65

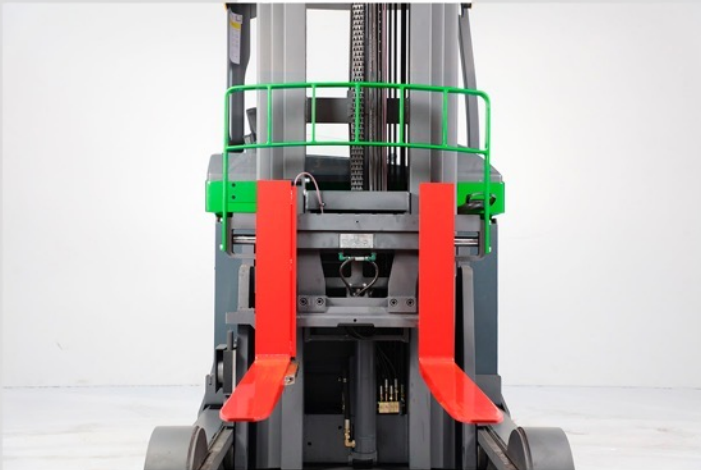
Option: 1) Big power motor with quick lift  
2) Acid Battery 48V/600AH, 48V/800AH, 48V/930AH

(\*) means without backrest

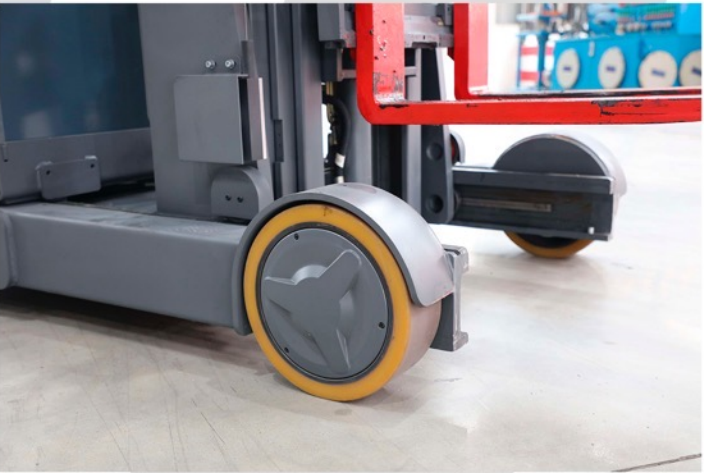
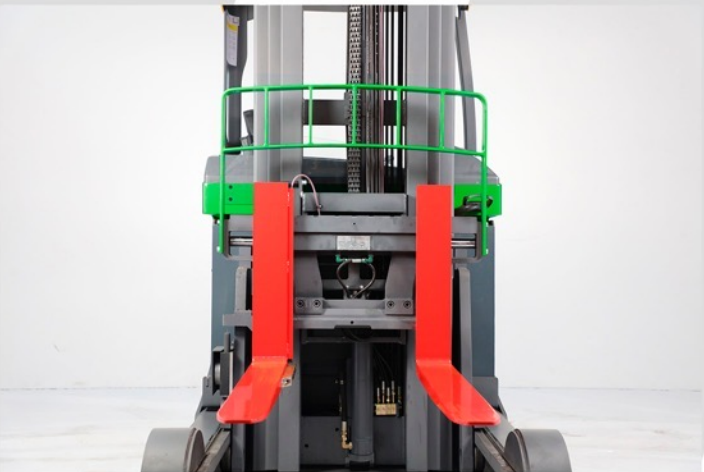
3) Lithium battery 48V/400AH, 48V/450AH, 48V/600AH, 48V/800AH



# Electric Reach Stacker



# Electric Reach Stacker



## Model: FB16R FB20R FB25R FB30R FB35R



**CE** Conforms to EN ISO3691-1  
EN1175-1  
EN16307-1  
Based on Directive 2006/42/EC  
2006/95/EC

1.2	Model	FB16R	FB20R	FB25R	FB30R	FB30R	FB35R
1.3	Drive: electric (battery type, mains, ...), diesel, petrol, fuel gas	Electric	Electric	Electric	Electric	Electric	Electric
1.4	Operator type: hand, pedestrian, standing, seated, order-picker	Seated	Seated	Seated	Seated	Seated	Seated
1.5	Rated capacity/rated load	Q (kg) 1600	2000	2500	3000	3000	3500
1.6	Load centre distance	c (mm) 500	500	500	500	500	500
1.8	Load distance, centre of drive axle to fork	x (mm) 395	395	445	460	460	460
1.9	Wheelbase	y (mm) 1360	1480	1480	1640	1640	1640
2.1	Service weight	kg 3100	3500	4150	4500	4800	5200
2.2	Axle loading, laden front/rear	kg 3870/730	4815/685	5857/793	6650/850	6950/850	7870/830
2.3	Axle loading, unladen front/rear	kg 1400/1700	1635/1865	1859/2291	1900/2600	2200/2600	2300/2900
3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane	Pneumatic/solid	Pneumatic/solid	Pneumatic/solid	Pneumatic/solid	Pneumatic/solid	solid rubber
3.2	Tyre size, front	6.50-10	6.50-10	23X9-10	23X9-10	23X9-10	23X10-12
3.3	Tyre size, rear	5.00-8	5.00-8	18X7-8	18X7-8	18X7-8	200/50-10
3.5	Wheels, number front/rear (x = driven wheels)	2x/2	2x/2	2x/2	2x/2	2x/2	2x/2
3.6	Tread, front	b10 (mm) 930	930	970	1040	1040	1040
3.7	Tread, rear	b11 (mm) 920	920	970	950	950	950
4.1	Tilt of mast/fork carriage forward/backward	a/b (°) 5/10	5/10	5/10	5/10	5/10	5/10
4.2	Height, mast lowered	h1 (mm) 2015	2015	2050	2100	2100	2100
4.4	Lift	h3 (mm) 3000-6500	3000-6500	3000-6500	3000-6500	3000-6500	3000-6500
4.5	Height, mast extended	h4 (mm) 4067	4050	4050	4200	4200	4100
4.7	Height of overhead guard (cabin)	h6 (mm) 2100	2100	2100	2160	2160	2160
4.8	Seat height relating to SIP/stand height	h7 (mm) 1040	1040	1040	1070	1070	1070
4.12	Coupling height	h10 (mm) 260	260	260	260	260	260
4.19	Overall length	l1 (mm) 3000	3270	3350	3550	3550	3620
4.20	Length to face of forks	l2 (mm) 2080	2200	2280	2470	2470	2540
4.21	Overall width	b1/b2 (mm) 1130	1130	1200	1302	1302	1302
4.22	Fork dimensions DIN ISO 2331	s / e / l (mm) 35/120/920	40/120/1070	40/120/1070	45/125/1070	45/125/1070	50/125/1070
4.24	Fork-carriage width	b3 (mm) 1088	1088	1160	1100	1100	1150
4.31	Ground clearance, laden, below mast	m1 (mm) 105	110	110	115	115	115
4.32	Ground clearance, centre of wheelbase	m2 (mm) 115	115	110	120	120	120
4.34.1	Aisle width for pallets 1000 x 1200 crossways	Ast (mm) 3500	3600	3700	3900	3900	3960
4.34.2	Aisle width for pallets 800 x 1200 lengthways	Ast (mm) 3700	3800	3900	4100	4100	4160
4.35	Turning radius	Wa (mm) 1980	2080	2180	2280	2280	2340
5.1	Travel speed, laden/unladen	km/h 12/13	12/13	12/13	10/11	12/13	12/13
5.2	Lift speed, laden/unladen	m/s 0.26/0.35	0.28/0.32	0.26/0.3	0.20/0.35	0.25/0.35	0.21/0.35
5.3	Lowering speed, laden/unladen	m/s 0.36/0.42	0.36/0.42	0.36/0.42	0.4/0.40	0.4/0.40	0.4/0.40
5.8	Max. Gradeability, laden/unladen	% 15/20	15/20	13/14	13/14	13/14	13/14
5.10	Service brake	hydraulic	hydraulic	hydraulic	hydraulic	hydraulic	hydraulic
6.1	Drive motor rating S2 60 min	kW 7(AC)	8(AC)	11(AC)	11(AC)	14(AC)	14(AC)
6.2	Lift motor rating at S3 15%	kW 10(AC)	10.6(AC)	12(AC)	12(AC)	13.5(AC)	13.5(AC)
6.4	Battery voltage/nominal capacity K5	(V)/(Ah) or kWh 48/375(420,480)	48/450(500,560,630)	48/500(560,630)	48/560(630)	80/400(450,500)	80/400(450,500)
6.5	Battery weight	kg 600/650/720	680/760/820/1055	760/820/1055	820/1055	1100/1270/1383	1100/1270/1383
10.7	Sound pressure level at the driver's seat	dB (A) 68	68	68	68	68	68

### Advantages:

#### SAFETY AND STABILITY

- The most popular H type driving axle optimizes the structure layout and improves the efficiency.
- High power and large torque AC driving motor, large diameter body to export larger torque, heat radiating groove reserved for better heat exchange in case of extra-long-time use.
- Multifunctional display with using time, fault code, battery status, forklift running information.
- AC driving motor without brush, free of maintenance; low electric current, silent driving.
- Low gravity center thanks to relocated battery, greatly reinforcing steering stability.
- Steering circuit preference, to ensure safety in every turn when steering and lifting in the same time, and to save energy.
- Dual-controller design, one driving controller, the other controls steering and lifting.
- Metal housing for better protection.
- Full LED light.

#### SERVICE ABILITY

- Easy maintained controller and steering potentiometer.
- Brushless lifting and driving motor, reduced cost of ownership; external encoder, easy to replace and service.
- Over discharge protecting system: while the battery discharges less than 20%, the instrument warning light will turn on.
- Braking oil cup installed on the instrument panel, convenient to check and add braking oil.

#### ERGONOMICS

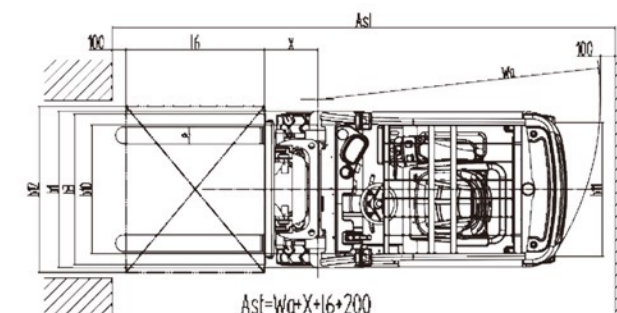
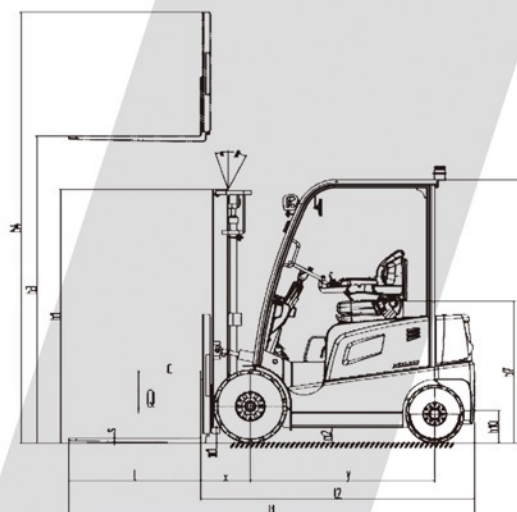
- Optimized structure creates a large and comfortable operating room.
- Adjustable steering wheel column, the driver can adjust the position according to his need.
- Integrated light switch and steering wheel.
- Clear and wide view mast with good visibility.
- Intelligent mast collapse buffering.

#### OPTIONAL

- Side-way battery box
- Electromagnetic valve
- Shock-absorbing chair, with power disconnect function
- Dual-front-wheels
- Adjustable lifting motor speed system
- Cold storage application
- Lithium battery

FB16R Lithium battery 250AH-400AH  
 FB20R Lithium battery 250AH-525AH  
 \* Option: FB25R Lithium battery 350AH-525AH  
 FB30R Lithium battery 250AH-400AH  
 FB35R Lithium battery 250AH-400AH

Remark: Electric controller, Chinese controller ACM as standard, INMOTION and CURTIS as option.



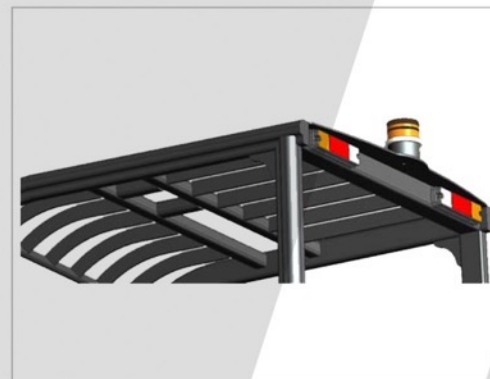
# Electric Forklift Truck



Hydraulic operation handle



Low gravity design



Full LED light



### FB16R/FB20R Wide View Mast

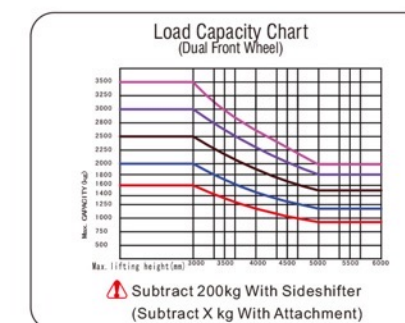
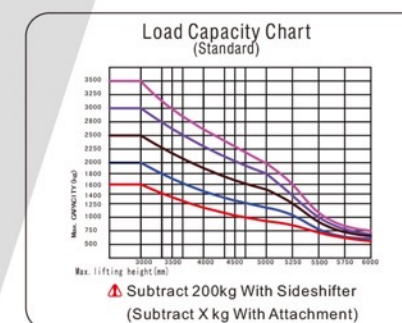
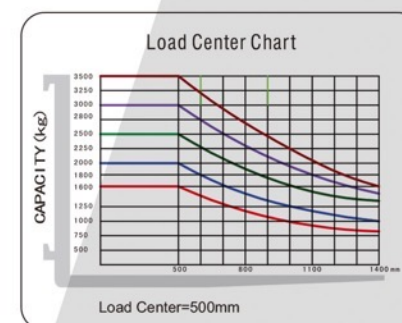
Type	Fork Lifting Height(H3) mm	Lowered Height(H1) mm	Max.Height of Mast Extended(H4)		Free Lifting Height(H2)		Mast Tilt Degree		Capacity	
			With backrest mm	Without backrest mm	With backrest mm	Without backrest mm	Forward deg	Backward deg	c=500mm Kg(FB16R)	c=500mm Kg(FB20R)
2-stage mast wide view	3000	2010	4000	3505	0	0	5	10	1600	2000
	3300	2160	4300	3805	0	0	5	10	1430	1820
	3500	2260	4500	4005	0	0	5	10	1350	1700
	4000	2510	5000	4505	0	0	5	10	1180	1480
2 stage mast with full free lifting	3000	2110	4000	3505	1095	1595	5	10	1600	2000
	3300	2260	4300	3805	1245	1745	5	10	1430	1820
	3500	2410	4500	4005	1395	1895	5	10	1350	1700
3 stage mast with full free lifting	4000	1900	5000	4505	890	1385	5	10	1180	1480
	4500	2110	5500	5005	1100	1595	5	6	820	1300
	4800	2210	5800	5305	1200	1695	5	6	770	1220
	5000	2270	6000	5505	1260	1755	5	6	730	1170
	5600	2470	6600	6105	1460	1955	5	6	600	720
	6000	2610	7000	6505	1600	2095	5	6	550	600
	6200	2670	7200	6705	1660	2155	5	6	450	500

### FB25R Wide View Mast

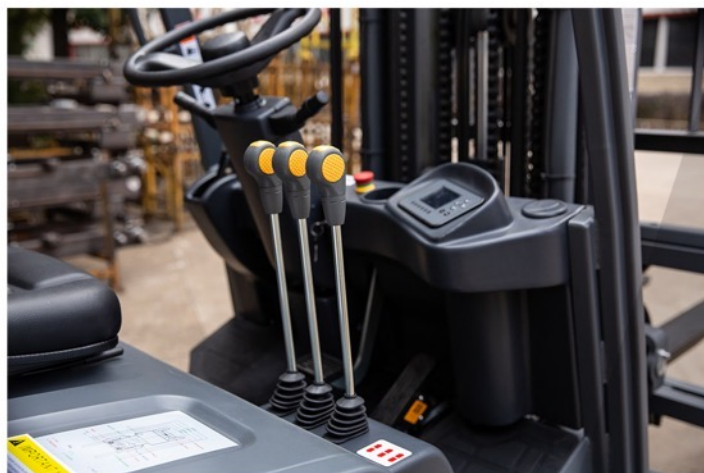
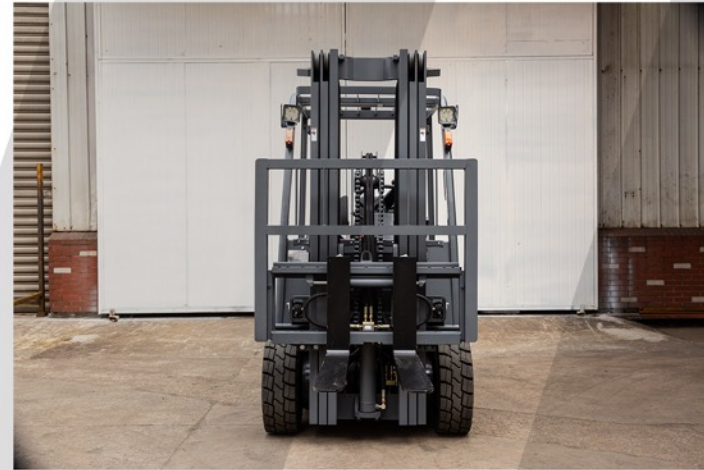
Type	Fork Lifting Height(H3) mm	Lowered Height(H1) mm	Max.Height of Mast Extended(H4)		Free Lifting Height(H2)		Mast Tilt Degree		Capacity
			With backrest mm	Without backrest mm	With backrest mm	Without backrest mm	Forward deg	Backward deg	c=500mm Kg
2-stage mast wide view	3000	2050	4050	3555	0	0	5	10	2500
	3300	2200	4350	3855	0	0	5	10	2270
	3500	2300	4550	4055	0	0	5	10	2200
	4000	2600	5050	4555	0	0	5	10	1900
2 stage mast with full free lifting	3000	2160	4050	3555	1010	1605	5	10	2500
	3500	2460	4550	4055	1410	1905	5	10	2200
	4000	2660	5050	4555	1610	2105	5	10	1900
3 stage mast with full free lifting	4500	2160	5560	5170	1160	1550	5	6	1680
	4700	2205	5750	5310	1225	1595	5	6	1620
	4800	2240	5850	5410	1260	1630	5	6	1580
	5000	2310	6050	5620	1310	1704	5	6	1520
	5600	2525	6620	6265	1525	1840	5	6	900
	6000	2710	7060	6720	1710	2010	5	6	650
	7000	3140	8010	7670	2140	2470	5	6	300

### FB30R/35R Wide View Mast

Type	Fork Lifting Height(H3) mm	Lowered Height(H1) mm	Max.Height of Mast Extended(H4)		Free Lifting Height(H2)		Mast Tilt Degree		Capacity	
			With backrest mm	Without backrest mm	With backrest mm	Without backrest mm	Forward deg	Backward deg	c=500mm Kg(FB30R)	c=500mm Kg(FB35R)
2-stage mast wide view	2500	1825	3725	3110	0	0	5	10	3000	3500
	3000	2075	4225	3610	0	0	5	10	3000	3500
	3300	2225	4525	3910	0	0	5	10	2800	3100
	3500	2325	4725	4110	0	0	5	10	2630	2980
	4000	2580	5225	4610	0	0	5	10	2300	2620
3 stage mast with full free lifting	4500	2175	5725	5110	950	1505	5	6	2030	2280
	4800	2245	6025	5410	1020	1635	5	6	1880	2100
	5000	2325	6225	5610	1100	1655	5	6	1800	2000
	5500	2440	6725	6110	1215	1770	5	6	1000	1100
	6000	2680	7225	6610	1455	2010	3	6	680	750
	7000	3145	8225	7610	1920	2475	3	6	350	400



# Electric Forklift Truck







1 KG=2.205LB 1INCH=25.40MM

Model		CBD20R-II	CBD25R-II	CBD30R-II
Load capacity	Q(kg)	2000	2500	3000
Load centre distance	c(mm)	600	600	600
Load distance, centre of drive axle to fork	x(mm)	914/964/1034	914/964/1034	914/964/1034
Fork height, lowered	h <sub>13</sub> (mm)	82	82	82
Tyre size, front	mm	Φ250×70	Φ250×70	Φ250×80
Tyre size, rear	mm	Φ82×126(98)	Φ82×126(98)	Φ82×126(98)
Additional wheels(dimensions)	mm	Φ127×57	Φ127×57	Φ127×57
Wheels, number front rear(x=driven wheels)		1X+2/2(4)	1X+2/2(4)	1X+2/2(4)
Max. lift height	h <sub>3</sub> (mm)	202	202	202
Height of tilt in drive position min./max.	h <sub>14</sub> (mm)	1150/1430	1150/1430	1150/1430
Overall length	l <sub>1</sub> (mm)	1710/1760/1830	1710/1760/1830	1785/1835/1905
Length to face of forks	l <sub>2</sub> (mm)	610	610	685
Overall width	b <sub>1</sub> (mm)	775	775	775
Fork dimensions	s/e/l(mm)	53×180×1100 (1150/1220)	53×180×1100 (1150/1220)	54×180×1100 (1150/1220)
Width overall forks	b <sub>5</sub> (mm)	520/550/650/685	520/550/650/685	520/550/650/685
Aisle width for pallets 1000×1200 crossways	A <sub>st</sub> (mm)	2360/2405/2475	2360/2405/2475	2435/2480/2550
Aisle width for pallets 800×1200 lengthways	A <sub>st</sub> (mm)	2245/2270/2305	2245/2270/2305	2320/2345/2380
Turning radius	W <sub>a</sub> (mm)	1550/1600/1670	1550/1600/1670	1550/1600/1670
Travel speed, laden/unladen	Km/h	7/7.1	7/7.1	9/9.2
Battery voltage, nominal capacity K,	V/Ah	24/210	24/240	24/240(280)
Battery weight	Kg	195	200	275
Battery dimensions l/w/h	mm	750×170×534	750×170×570	750×170×505(535)
Service weight (with battery)	Kg	720	750	780

Option: Battery 240Ah / 400Ah; Drive speed 9.5-10km/h  
Option with EPS drive wheel size is 250x80mm

Option: CBD20R-II/CBD25R-II Lithium battery 125AH (Charger 24V/50A)  
CBD30R-II Lithium battery 225AH (Charger 24V/100A)

## Electric Rider Pallet Truck

# CBD20R-II CBD25R-II

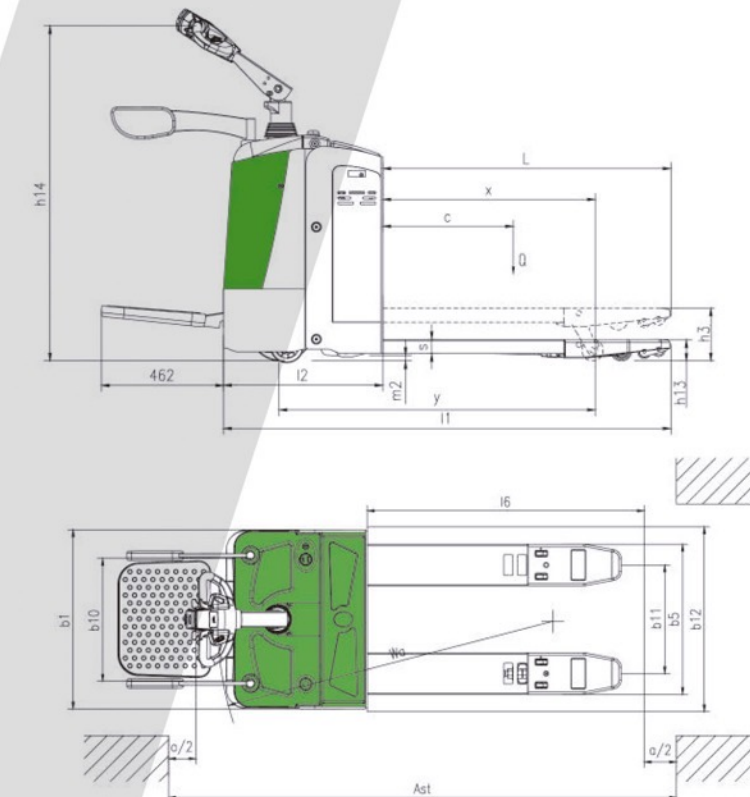
CBD20R/25R is the stand-on type platform Pallet Truck, with small turning radius and super light steering system, widely used in large warehouse and big supermarket for medium distance transport.

# CBD30R-II

CBD30R-II is the innovation type rider pallet truck for heavy duty work of pallet moving, high-speed load transport and loading dock work.

**AC** **EPS**  
(Option)

Conforms to EN ISO3691-1  
EN1175-1  
EN16307-1  
Based on Directive 2006/42/EC  
Conform to EN Standard 12895  
Based on directive: 2014/30/EU (EMC)





## CBD30R-II

### SAFETY AND PRODUCTIVITY

- AC control system eliminating motor brushes and directional contactors, which minimizes maintenance requirements.
- Multi-function display: battery status, hour meter, fault code, etc.
- Side-way battery with roll-out system is very convenient to replace batteries.
- Emergency reversing device.
- The platform with speed sensor under platform, ensure safety driving.
- Built-in pressure relief valve protects the truck from overloads.
- Braking applied with handle upright and horizontal position.
- Emergency power disconnect switch.
- Low speed switch in the handle( option with bypass function )

### STRUCTURAL

- Parallel motor mounting on vertical drive wheel ensures convenience for inspection and maintenance while also ensuring a small turning radius.
- The structure of motor is water-proof and dust-proof, which makes the brake and motor more durable and reliable.
- Combined balance wheels and driving system increase steadiness, preventing the truck from being rocked from side to side.
- The balance wheels loading capacity can be adjusted according to different situations.
- One-piece heavy gauge steel is formed for maximum strength forks.

### SERVICEABILITY

- Adjustable integrated balance wheel can be disassembled from truck separately, easy to maintain.
- The platform can be removed from the truck easily for replacement or repair.
- Low battery voltage cut off protection.

## CBD20R-II CBD25R-II

### STANDARD FEATURES

- RUYI handle
- Emergency stop & belly button
- BDI and hour meter
- Casters to balance stability
- Industrial battery
- Brushless AC motor
- Vertical driving motor
- Sideway battery change
- Built-out charger
- Platform with speed sensor

### OPTION

- Fork width and length ( size )
- Load backrest
- Built-in Charger
- Cold storage with rubber drive wheel
- Entry & exist roller for empty pallets
- EPS
- large compartment with battery capacity 280Ah, 400Ah
- CBD20R-II/CBD25R-II: Lithium battery 24V/1 25AH
- CBD30R-II: Lithium battery 24V/225AH



Keypad access (option)



RUYI Handle (standard)



Frei tiller head with one side lifting button (option)



Frei tiller head with two lifting button (option)

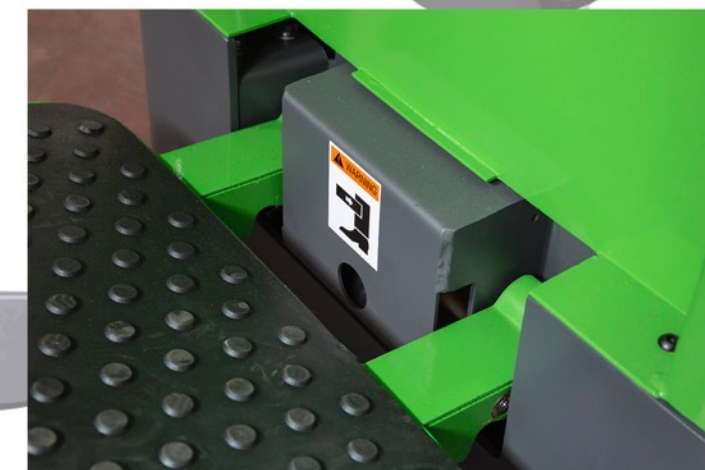


Entry roller for easy operation

Electric Pallet Truck

Electric Pallet Truck





Electric Pallet Truck

Electric Pallet Truck

# OPS15-BD

## MIDDLE LEVEL ORDER PICKER

### Advantages:

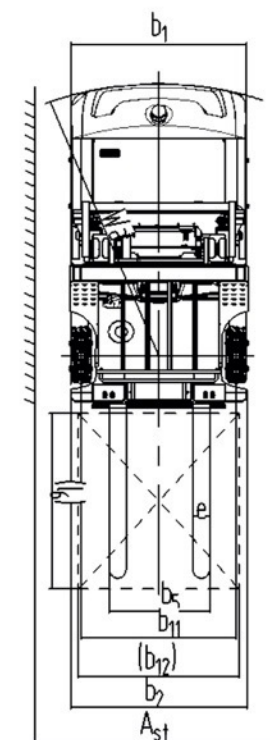
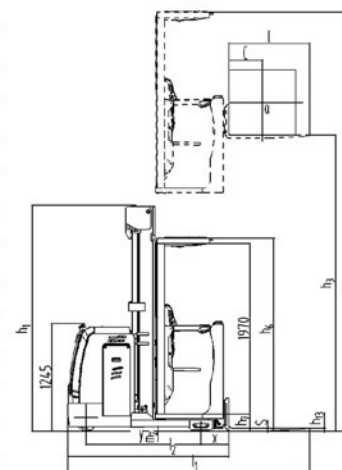
- Low center of gravity design provides good stability.
- Adopts electric steering structure with humanized design concept and automatic return function.
- With height display and timing function.
- Descend to 500MM from the ground, the speed will slow down to prevent collision and lower noises.
- The frame and the mast can be separated and interchangeable.
- The accumulator and explosion-proof valve with pressure compensation, steady pressure and explosion-proof.
- Electronic, oil cylinder, machinery, triple lifting limit protection, safe and reliable.
- Steering structure with about 90 degrees limit function, and the installation of damping mechanism, more comfortable to operate.
- Centralized control handle mechanism has the functions of driving and lifting at the same time.
- Opening and closing protective railing, equipped with safety switch design, to make sure only when the railing is completely closed, the truck can be started.
- Safe start pedal design, easy to operate.
- With a high linear deceleration function to ensure high-level operation safe and stable.
- AC motor, no need to replace the carbon brush, with good ramp starting performance.
- Side door can be opened, the battery can be pulled out from the side, which is good for the exchange and maintenance of battery.



### Technical parameters

1KG=2.205LB 1INCH=25.40MM

Model		OPS15-BD	
Features	1.1 Manufacturer(abbreviation)	MOVES	
	1.2 Manufacturer's type designation	OPS15-BD	
	1.3 Drive mode:electric(battery or mains),diesel petrol,fuel gas	electric(battery or mains)	
	1.4 Operator type:hand,pedestrian,standing,seated,order-picker	order picker	
	1.5 Load capacity/rated load	Q(kg) 1500	
	1.6 Load centre distance	c(mm) 600	
	1.8 Load distance,centre of drive axle to fork	x(mm) 372	
	1.9 Wheelbase	Y(mm) 1525	
	Tyres	3.1 Tyres:solid rubber,superelastic,pneumatic,polyurethane	polyurethane
3.2 Tyre size,front		(mm) $\Phi 310 \times 125$	
3.3 Tyre size,rear		(mm) $\Phi 128 \times 73$	
3.5 Wheels,number front rear(x=driven wheels)		1x+2/4	
3.7 Tread,rear		$b_{11}$ (mm) 900	
Dimensions		4.1 Height,mast lowered	$h_1$ (mm) 2609/2859
		4.3 Lifting height	$h_3$ (mm) 4500/5000
	4.4 Height , mast extended	$h_4$ (mm) 5905/6405	
	4.5 Height of platform	$H7$ (mm) 200	
	4.6 Lowedheight	$h_{13}$ (mm) 70	
	4.7 Overall length	$l_1$ (mm) 3207	
	4.8 Coupling height	$l_2$ (mm) 2137	
	4.9 Overall width	$b1/b2$ ( mm) 1016/1016	
	4.10 Forks length	$S/e/l$ (mm) 35/100/1070	
	4.11 Width overall forks	$b_3$ (mm) 200-750	
	4.12 Height of ovehead guard	$h_6$ (mm) 2244	
	4.14 Ground clearance , centre of wheelbase	$m_2$ (mm) 50	
	4.16 Aisle width for pallets 800x1200 lengthways	$A_{st}$ (mm) 1100	
4.17 Turning radius	$W_0$ (mm) 1765		
Performance data	5.1 Travel speed,laden/unladen	Km/h 7.7/8	
	5.2 Lift speed,laden/unladen	m/s 0--0.15/0--0.25	
	5.3 Lowering speed,laden/unladen	m/s 0--0.28/0--0.30	
	5.7 Max.gradeability,laden/unladen	% 5/10	
	5.10 Service brake	Electromagnetic	
Motor	6.1 Drive motor rating S2 60 min	kW 4.5(AC)	
	6.2 Lift motor rating at S3 15%	kW 7.5	
Battery	6.4 Battery voltage,nominal capacity K5	V/Ah 24/560	
	6.5 Battery weight	Kg 435	
Other	8.4 Sound level at the driver's ear acc.to DIN 12053	dB(A) 70	



# Electric High Level Order Picker

## Model: OPS15

Electric high level order picker provides safety and high efficiency order picking for high racked warehouse.

Max. lift height:  
**9000mm**

AC EPS



Directive 2006/42/EC  
ANSI B56.1



### Advantages:

- Low gravity centre provides good stability.
- Advanced electric steering technology (EPS) is humanized designed, with automatic reset, height display and automatic deceleration at high lifting level.
- Finger tip control via joystick, Stepless speed control for driving, lifting and lowering speed is adjustable.
- Buffer oil cylinder: the oil cylinder will automatic decelerate when off ground 500mm, to prevent impact and lower noises.
- The mast and the frame are dividable and exchangeable.
- Low battery protection setting prolongs the battery use time.
- AC motor eliminates replacement of the carbon brush, provides good ramp starting performance and regenerative breaking functions.
- Sideway battery is convenient for exchanging and maintaining.
- The mast material is the special type imported from Germany.
- The truck can automatic decelerate when quick turning.
- High performance multi-function instrument has LED light and display function. LED indicators include battery indicator, fault indicator, Electric thermometer indicator, pedal indicator and hand break indicator.
- Multi function display, include battery status, performance, working hour, accelerator, speed, the wheel position and traveling direction.
- Press right and left keys to switch for different grades: high, normal, low, and lowest.



Pallet Lock device



Steering and speed adjusting device

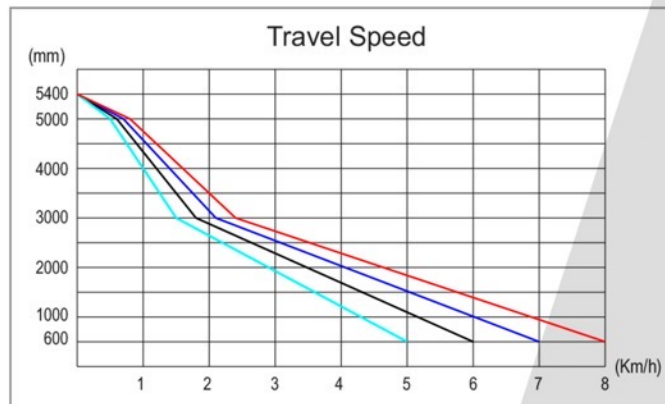
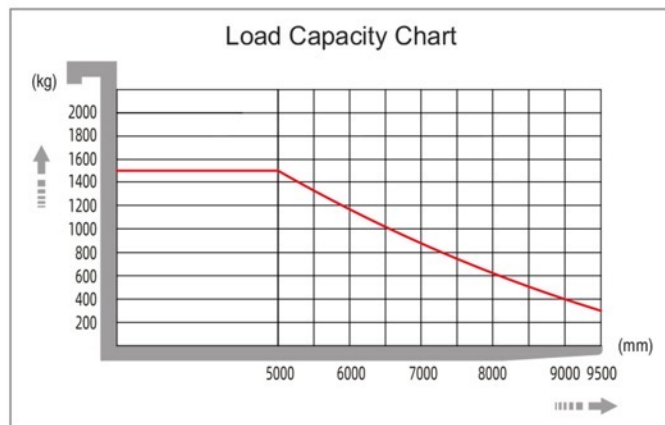


Light and fan

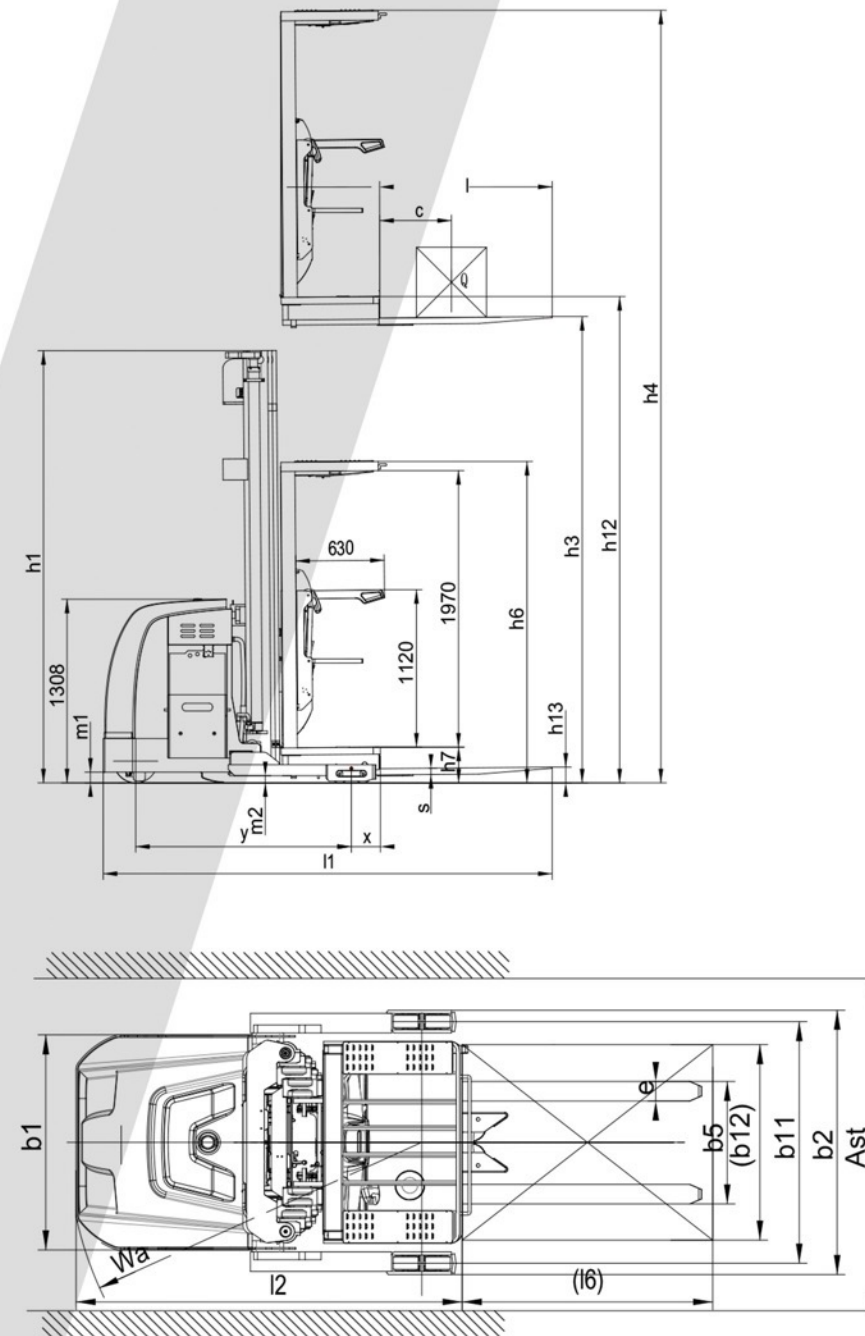


# Electric High Level Order Picker

1KG=2.205LB 1INCH=25.40MM

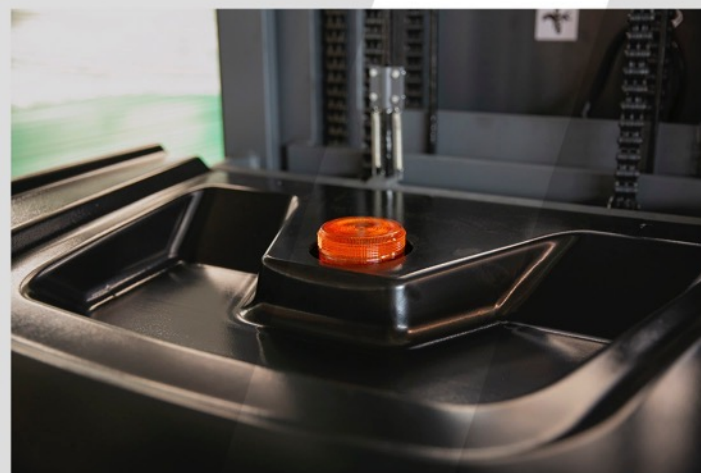


1.2 Manufacturer's type designation		OPS15
1.3 Drive: electric (battery type, mains, ...), diesel, petrol, fuel gas		Electric
1.4 Operator type: hand, pedestrian, standing, seated, order-picker		Order-picker
1.5 Rated capacity/rated load	<b>Q (kg)</b>	<b>1500</b>
1.6 Load centre distance	c (mm)	600
1.8 Load distance, centre of drive axle to fork	x (mm)	206
1.9 Wheelbase	y (mm)	1537
2.1 Service weight	kg	3360/3650/3870
2.2 Axle loading, laden front/rear	kg	4320/1360
2.3 Axle loading, unladen front/rear	kg	1960/2220
3.1 Tyres: solid rubber, superelastic, pneumatic, polyurethane		Polyurethane
3.2 Tyre size, front		Φ310×125
3.3 Tyre size, rear		Φ128×73
3.4 Additional wheels (dimensions)		Φ150×47
3.5 Wheels, number front/rear (x = driven wheels)		1x+2/4
3.7 Tread, rear	b11 (mm)	1236
4.2 Height, mast lowered	h1 (mm)	2410/3080/3750
4.4 Lift	h3 (mm)	5000/7000/9000
4.5 Height, mast extended	h4 (mm)	7230/9230/11230
4.7 Height of overhead guard (cabin)	h6 (mm)	2290
4.8 Seat height relating to SIP/stand height	h7 (mm)	230
4.15 Height, lowered	h13 (mm)	80
4.19 Overall length	l1 (mm)	3200
4.20 Length to face of forks	l2 (mm)	1975
4.21 Overall width	b1/b2 (mm)	1100/1352
4.22 Fork dimensions DIN ISO 2331	s / e / l (mm)	45/100/1220
4.25 Fork spread	b5 (mm)	530/715
4.32 Ground clearance, centre of wheelbase	m2 (mm)	76
4.34.1 Aisle width for pallets 1000 × 1200 crossways	Ast (mm)	1400
4.34.2 Aisle width for pallets 800 × 1200 lengthways	Ast (mm)	1400
4.35 Turning radius	Wa (mm)	1800
5.1 Travel speed, laden/unladen	km/h	7.7/8
5.1.1 Travel speed, laden/unladen, backwards	km/h	7.7/8
5.2 Lift speed, laden/unladen	m/s	0-0.15/0-0.28
5.3 Lowering speed, laden/unladen	m/s	0-0.28/0-0.3
5.8 Max. gradeability, laden/unladen	%	5/10
5.10 Service brake		Electromagnetic
6.1 Drive motor rating S2 60 min	kW	4.5
6.2 Lift motor rating at S3 15%	kW	7.5
6.4 Battery voltage/nominal capacity K5	(V)/(Ah) or kWh	24/770(h3=5000/7000), 24/1100(h3=9000)
6.5 Battery weight	kg	610/850
Additional Data 10.7 Sound pressure level at the driver's seat	dB (A)	70



\* Option:  OPS15 for 5-7M Lithium battery 500AH (Charger 24V/200A)  
OPS15 for 9M Lithium battery 750AH (Charger 24V/200A)

# Electric High Level Order Picker





## Batería de ácido sólido

Peso	30 Kg por KWh
Mantenimiento	El electrolito líquido debe agregarse con frecuencia
Capacidad Utilizable	Se puede descargar el 50% de la capacidad
Carga y Descarga	Más de 10 horas
Temperatura	La temperatura de almacenamiento oscila entre -40 °C y 50 °C La temperatura de funcionamiento oscila entre -20 °C y 50 °C
Instalación	Para evitar una mezcla de ácido extremadamente corrosiva fugas, baterías de plomo-ácido, a menos que estén selladas tipo, solo se puede instalar en una orientación vertical.
Vida Útil	Duran de 2 a 3 años, con una duración del ciclo que oscila entre 720 a 1080 ciclos.
Espacio y Densidad de Energía	Se requieren baterías de repuesto si más de un trabajo cambio. Se sugiere una sala de carga como plomo-ácido Las baterías liberan gases mientras se cargan.
Costo	Precio más bajo que las baterías de iones de litio, pero el deben tenerse en cuenta los costes secundarios, incluidos costos de infraestructura, eliminación de gas y agua desmineralización, etc
Efectos Ambientales	Las baterías de plomo-ácido representan una amenaza potencial para la salud humana y el medio ambiente, si no se descartado. Los dos componentes principales de estos Las baterías son de ácido sulfúrico y plomo. Ambos conducen y el ácido sulfúrico puede contaminar la tierra sólida y agua subterránea. El ácido sulfúrico es altamente corrosivo, y el plomo se ha relacionado con efectos adversos. Efectos en la salud de los seres humanos, especialmente de los niños.



## Batería de iones de litio

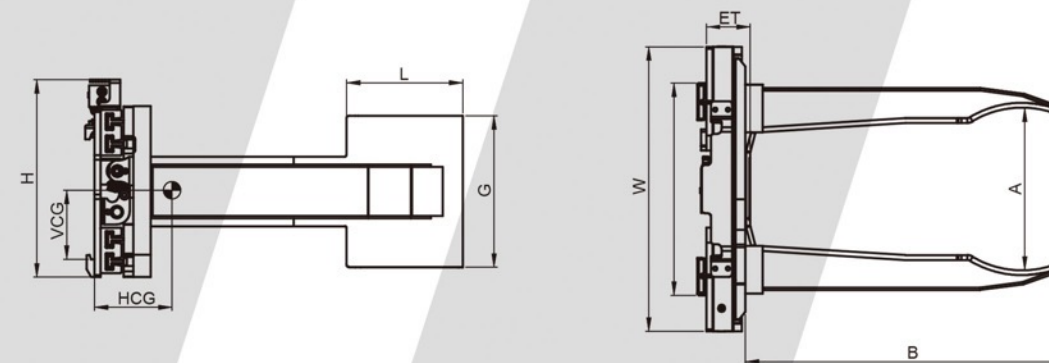
9 Kg por KWh
Libre de mantenimiento
Se puede descargar hasta el 85% de su capacidad
1.5-3.0 horas
La temperatura de almacenamiento oscila entre -40 °C y 50 °C temperatura de funcionamiento de +10°C a +55°C
Las celdas de las baterías de iones de litio siempre están selladas, la orientación no es un problema
Estas baterías duran 10 años o más, si correcto mantenimiento, con ciclo de durabilidad que van desde 2.000 a 12.000 ciclos.
Con su tiempo de carga rápida, Lithium Las baterías reducen o eliminan la necesidad de baterías de repuesto. Tampoco requieren de áreas de carga especiales.
Si bien los costos iniciales de compra de las baterías de iones son más altas que las baterías de plomo-ácido
Este tipo de celdas de batería utilizan litio férrico fosfato como material del cátodo, y un electrodo de carbón grafitico con un metal de respaldo como el ánodo. LFP no contiene níquel o cobalto. Las batería de iones de litio químicas que utilizan cobalto o níquel para el cátodo han causado preocupación por su impacto negativo en el medio ambiente y salud humana.





轮胎夹 TYRE CLAMP

轮胎夹  
TYRE CLAMP



承载能力 CAPACITY@ LOAD CENTER	型号 MODEL	安装等级 MOUNTING CLASS	张臂范围 OPENING RANGE	宽度 FRAME WIDTH	夹臂长度 ARM LENGTH	上钩外间距 HOOK SPREAD	高度 OVERALL HEIGHT	夹板尺寸 CONTACT PAD SIZE	垂直重心 VERTICAL CENTER OF GRAVITY	自重 WEIGHT	卸载距 EFFECTIVE THICKNESS	水平重心 HORIZONTAL CENTER OF GRAVITY
(kg@mm)			A (mm)	W (mm)	B (mm)	M (mm)	H (mm)	L x G (mm)	VCG (mm)	(kg)	ET (mm)	HCG (mm)
1400@500	LTJ14E-B001	II	390-1550	940	1020	700	670	450x600	229	375	130	290

液压油路流量和压力 HYDRAULIC FLOW AND PRESSURE					
型号 MODEL	压力 Pressure (Bar)		流量 Hydraulic Flow (L/min)		
	额定值 Rated		最小 Min	建议值 Rec	最大 Max
14E	160		20	40	60

广泛应用于轮胎生产商、仓库和物流运输公司，用于搬运与堆垛各种规格的轮胎作业中；可以夹持垂直放置在地面上的一个或多个轮胎。侧向移动式夹臂和带有的侧移功能能够使夹抱作业、搬运和装卸车作业更高效的进行，同时也能够减小操作者的劳动强度、降低生产成本、安全性高。

Designed for tyres handling and stacking operations and applied widely in tyre manufactures, warehouse and logistic transportation companies. Lateral sliding arm design and sideshifting function guaranty the smooth clamping and easy entering with high production efficiency. Following lower running costs and high safety.

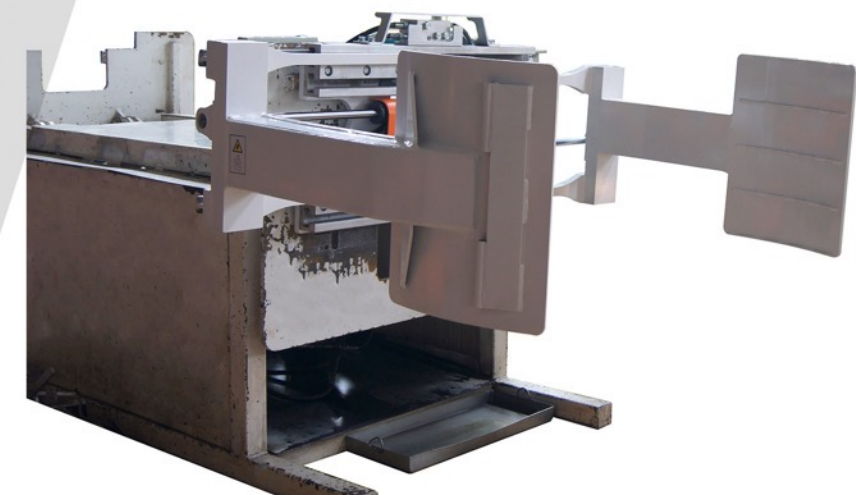


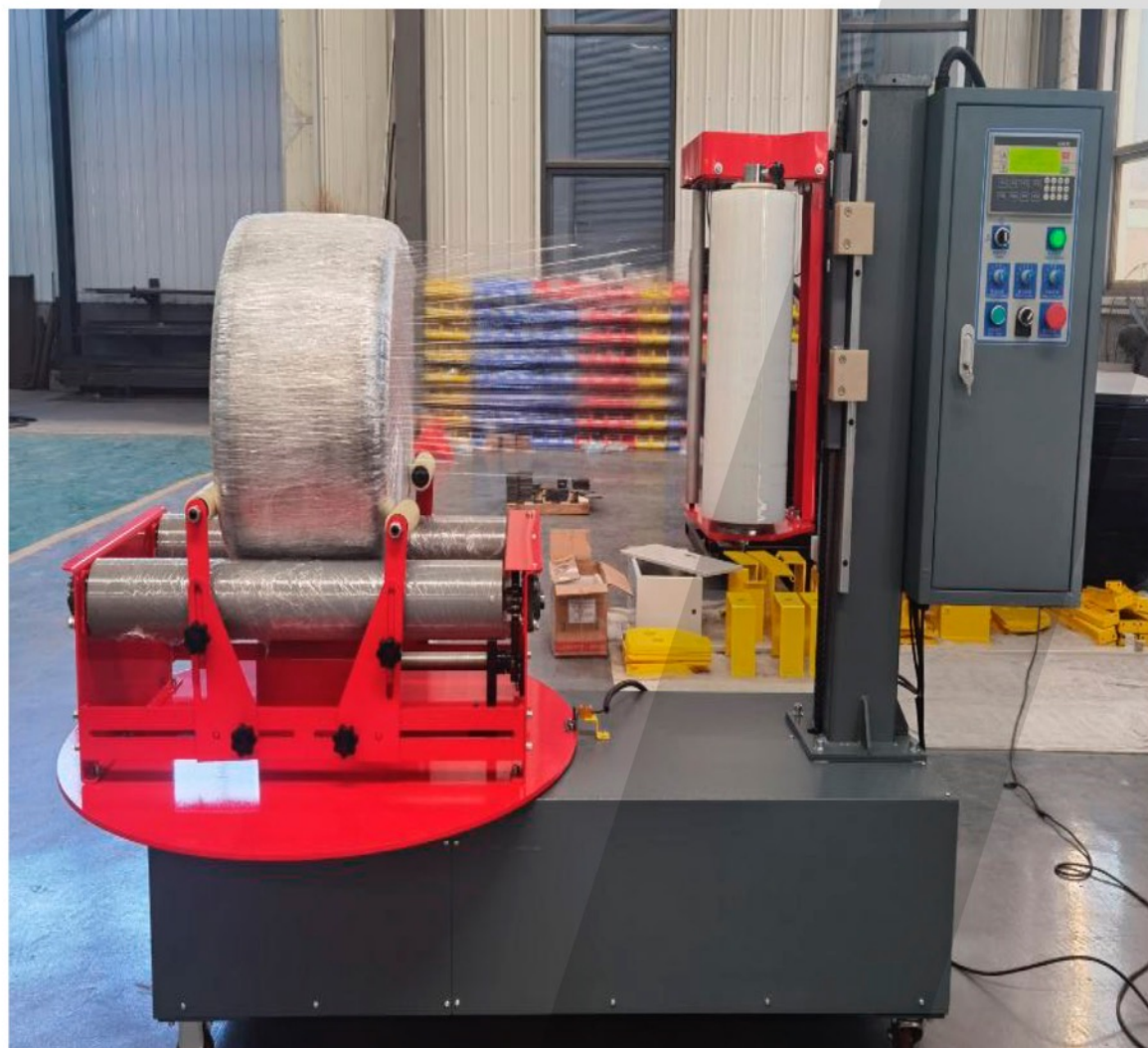
注释:

1. 属具综合承载能力值以叉车主机厂提供的为准
  2. 叉车需提供双附加油路，不带侧移，叉车需提供单附加油路
  3. 张臂范围是指夹臂之金属夹板内弧间距离
- \* 若有其他要求，请联系我们

Note:

1. Please contact FLT manufacture for the residual capacity of attachment
  2. With sideshifting, 2 additional hydraulic circuits required  
Without sideshifting, 1 additional hydraulic circuit required
  3. Opening range refers to distance between arm steel pad
- \* Further technical details are available upon request





Max. film roll diameter	240mm
-------------------------	-------

### Feature advantage

1	Human machine interface control, easy to operate.
2	With the switch protection device and the abrupt stop switch device
3	The safety film carriage door, easy to assemble the film, the machine can't run when the door is open. Keep safety during operation
4	Durable using, our wrapping machines can be used for super 10 years which is approved by most of our customers. Easy handling, we improve the machine according to 16 years experience to make it more human friendly, safe and easy operation.

### Machine introduction

P800 Mini reel wrapping machine is a machine designed for packing Non-woven, coil, paper roils, rubber product and similar materials manufactured in small reels. This packing method can form a cocoon type packing. It is completely Moisture water & Dust proof packing and protects the products.

### Main machine electrical parts and brand

Turntable motor	Tongyu
Film carriage motor	Liming
Transducer	Schneider
Operating screen	SPC all-in-one
Proximity switch	ELCO
Travel switch	SIEMENS APT
Push button lamp	SIEMENS APT

### Main Technical Parameters

Wrap size	W(320-620) * φ (560-810)mm
Power	1.2kw
Total weight	100kg
Wrap efficiency	20-40 Reels/Hour
Turntable speed	0-18rpm Adjustable turntable speed
Film carriage	Pre-stretch / customized stretch ratio: 200%-400% Mechanical -stretch / stretch ratio:150%
Control system	PLC Control system
Turntable capacity	100kg(max)
Supply voltage	220V, 60Hz, 1Phase
Packing Material	LLDPE Stretch Film
Thickness	17~35μm
Width	250mm~500mm
Inner center of film roll	76.2mm

# Wrapping Machine



# PT-1305 Pistola de Aire de Impacto

**Tire Direct**  
La nueva generación

*Lleno de Poder*



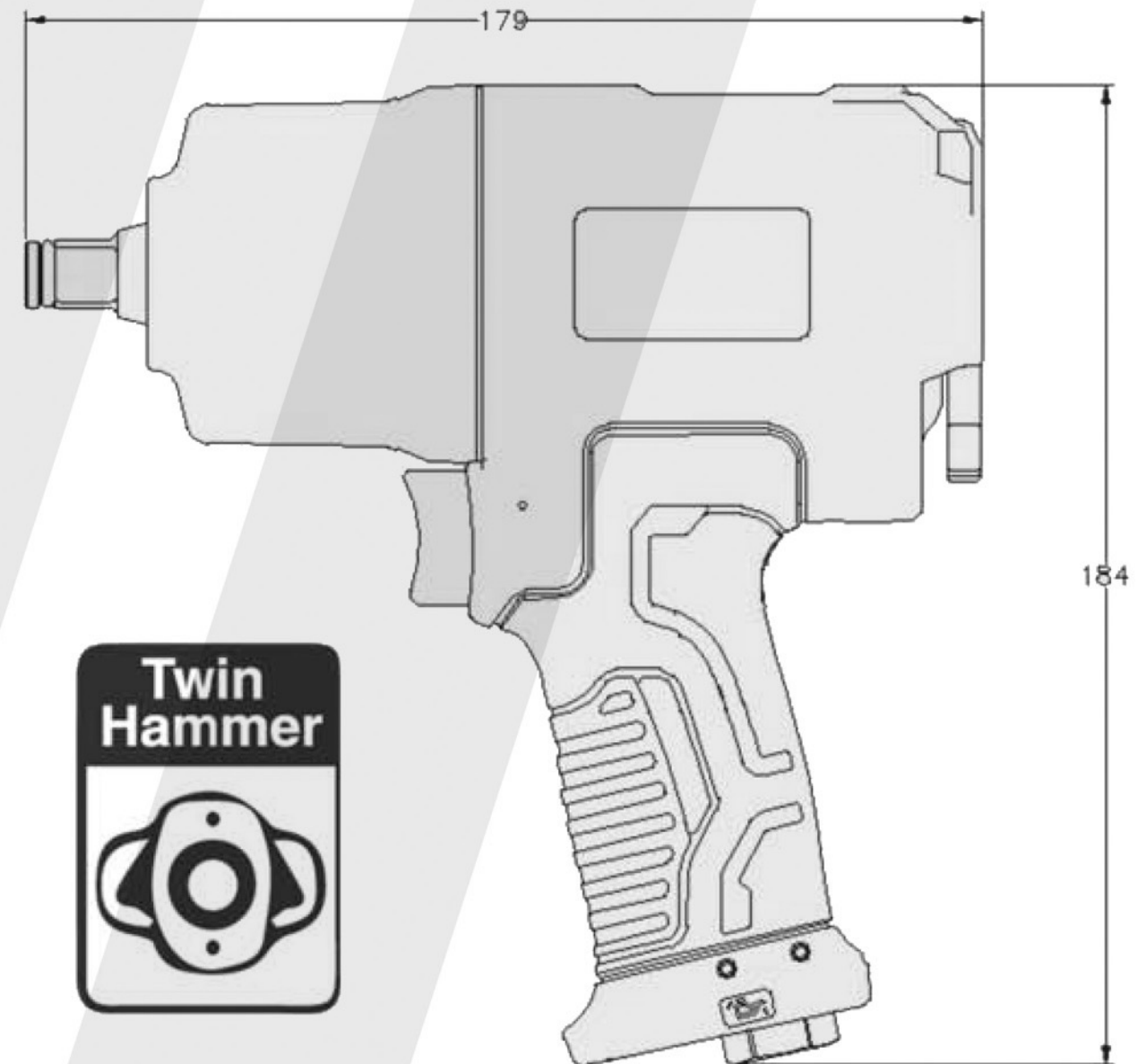
*Contra Defectos  
de Fabricación*



- ◆ *Torque Fuerte y de fácil operación*
- ◆ *Estructura de golpe de doble martillo*
- ◆ *Extremadamente duradera*
- ◆ *Diseño industrial pesado*
- ◆ *Patente de invención y apariencia*

## PRINCIPALES PARÁMETROS DE RENDIMIENTO

- **Presión:** 0.63 MPa
- **Unidad Cuadrada:** 1/2 in
- **Capacidad del perno:** 18 mm
- **Velocidad libre:** 8000 rpm
- **Max. Torque:** 1150 ft-lb/1560N.m
- **Torque Recomendado:** 200-600 ft-lb
- **Consumo de aire:** 6.5 cfm
- **Peso neto:** 2 kg
- **Longitud total:** 179 mm



## DISEÑO NOVEDOSO Y PRÁCTICO

*Inyección triple de alto grado, bicolor carcasa / mango compuesto proporciona fuerza y exterior inigualable características de diseño.*

*Ajustes de la almohadilla anticolidión*



*Diseño acanalado, hermosa y generosa.*

*Estructura de gatillo curvada para una operación cómoda.*

*Entrada de aire giratoria de 360 grados para prevenir el enredo traqueal..*



*Operacional flexible mecanismo de conmutación*

*El mango de la doble inyección TPR la moldura está firmemente adherida al cuerpo de la pistola, que reduce efectivamente la vibración del herramienta y no congela la mano en invierno.*

**Apariencia novedosa patentada**

**Yunque cuadrada**

**Unidad de motor integrada**

**Marcha atrás y velocidad  
ensamblaje de control**

**Componentes de impacto**

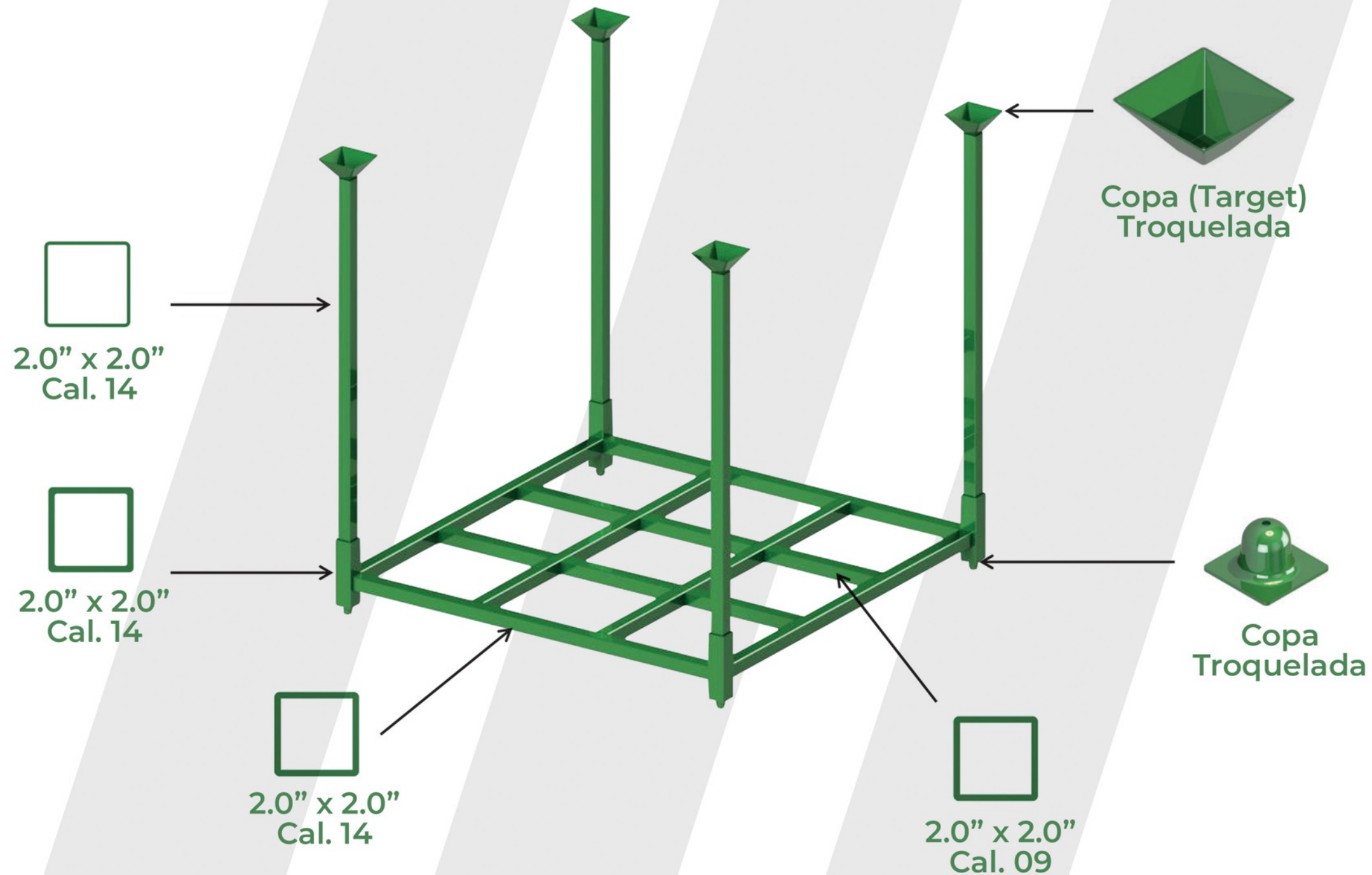
**Gatillo**

## **CARACTERÍSTICAS TÉCNICAS**

- Par máximo de hasta 1,150 ft-lbs par de aflojamiento. El potente mecanismo de doble martillo ofrece poder máximo.
- Grip ha sido diseñado ergonómicamente para ajustarse a la mano, proporcionando una comodidad inigualable para el usuario.
- Los topes moldeados protegen la herramienta de los impactos laterales.
- Presione los botones de avance / retroceso para conveniente cambio de dirección.
- El interruptor de administración de energía proporciona el máximo control.

El equipo PUFFER diseña y desarrolla productos con estructura independiente patentes.

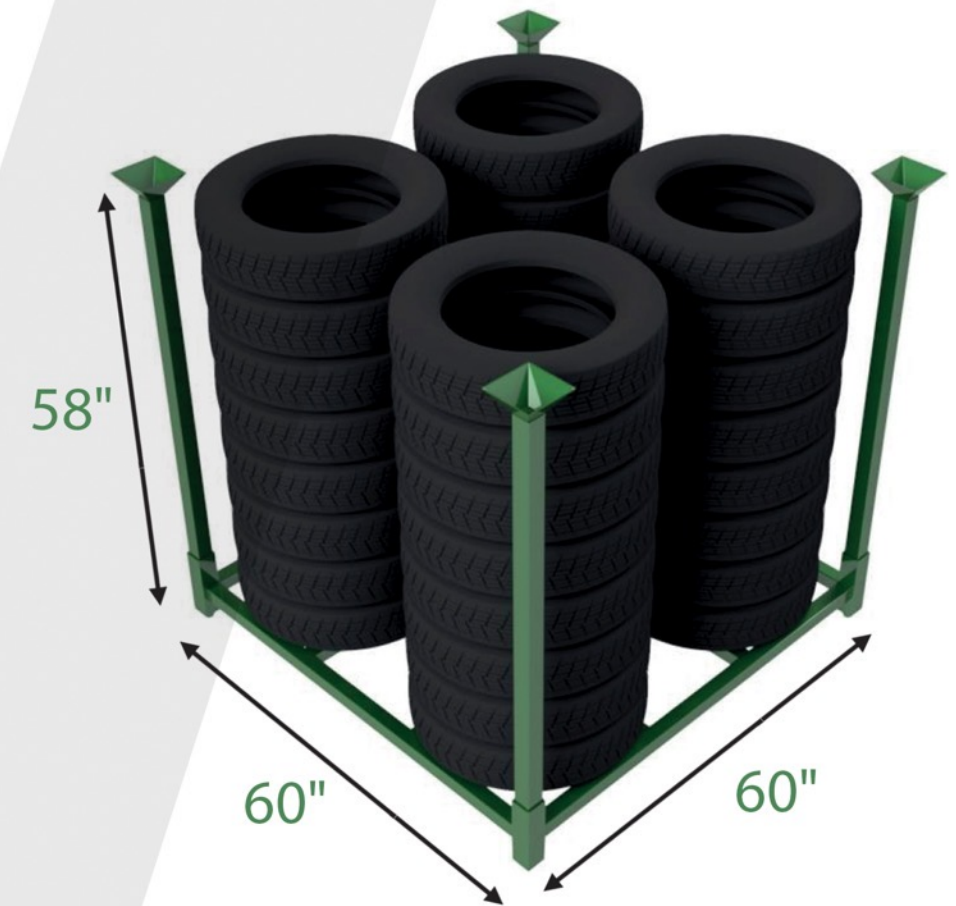
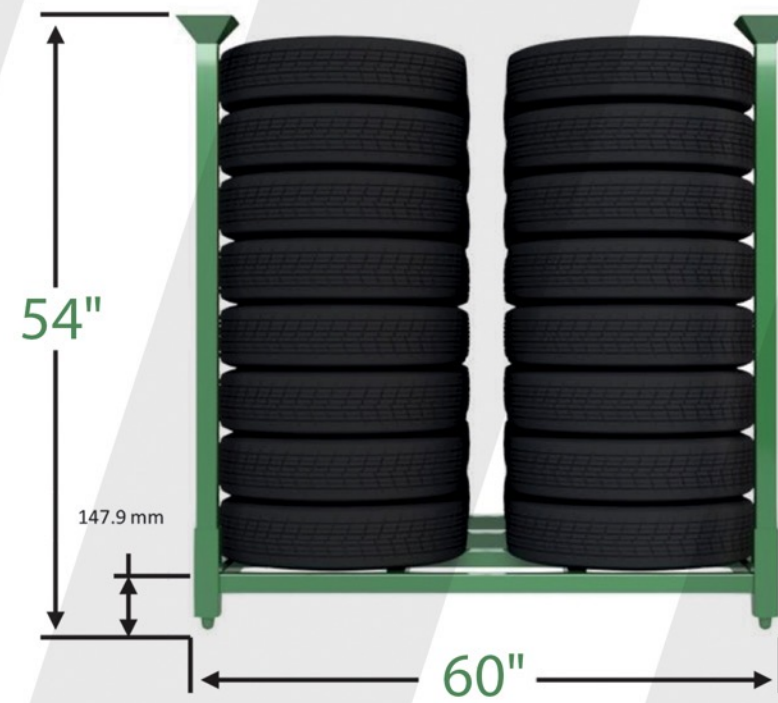
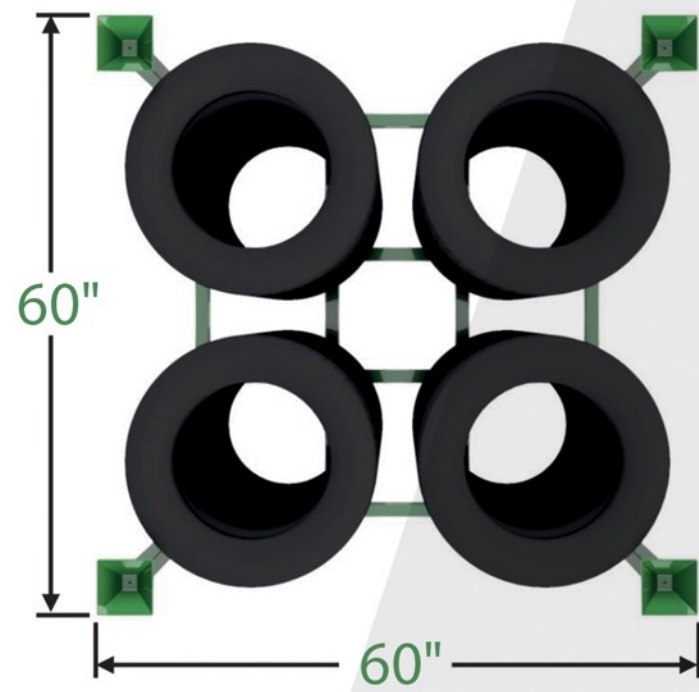




**\*RESISTE HASTA 6 PISOS DE RACKS. (IMPORTANTE : NO ESTIBAR MÁS DE 6 RACKS JUNTOS).**

**\*GARANTIA DE 10 AÑOS CONTRA CUALQUIER DEFECTO DE FABRICACIÓN.**

**\*COLOR VERDE TD, DESARROLLO ÚNICO Y CREADO POR TIRE DIRECT.**



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