



HC FORKLIFT AMERICA CORPORATION

Company address:
10405-A Granite Street
Charlotte, NC 28273

Toll Free: (888) 652-8395
Phone: (980) 888-8335
Fax: (980) 888-8336

america@hcforklift.com
www.hcforkliftamerica.com



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X Series Electric Burden Carrier

with capacities of 3,000-6,000lbs

Making Material Handling Easier
SINCE 1956



**Easy
Efficient
Economical**



Appearance

- / The X Series Electric Burden Carrier has a smooth vivid profile and was designed to be ergonomic. The exterior of this tow tractor is powder coated in a durable, easy to see, red finish.
- / The materials, such as the diamond plate bed, create a robust and durable product that is able to successfully take on the wear and tear of its operational environment.

Advancement

- / The easy to see digital dashboard provides operators with vital information such as the battery charge indicator, fault detection, speedometer, and hour meter.
- / The burden carrier can reach speeds up to 12.42 mph to increase productivity and efficiency.
- / The permanent magnet brushless traction motor, electronic controller, and aluminum alloy gear box work in unison to provide a highly efficient, fast start-up, energy-saving, and quieter operating experience.

Comfort

- / The front and rear axles feature a fully elastic suspension system to decrease vibration and provide operator comfort.
- / The low step-on platform allows for easier access into the operator's compartment.
- / The ergonomic operators compartment allow for the operating pedals, instruments, steering wheel, and switches to easily be reached. Operation is more comfortable as a result.
- / The LED lighting illuminates the burden carrier's surroundings for easy operation both during the day and at night.
- / The optional electric power steering, with a turning force of 8-12N, creates an easier operating experience for the operator.
- / The optional fully-enclosed driver's cab allows for work to continue in all types of weather.

Maintenance

- / The brushless AC traction motor is maintenance-free. This allows for a significant savings in maintenance costs.
- / The electronic control cover plate can be easily accessed and removed. This allows for convenient maintenance of the electronic control system.
- / The controller and electronic components are placed together in the chassis because they are highly integrated. This creates one main electronic component area for easy maintenance.



The Injection molded dash panels, large screen display, and switches create a sturdy and durable operators compartment.



The full suspension operating platform reduces both noise and vibration for operator comfort.



LED headlight has the head light and dipped light functions. The front turn light utilizes the latest stream light technology.



Repair, maintenance and replacement of the battery is convenient and fast. This makes it suitable to continuous work thanks to quick battery swapping.



The burden carrier features two seats on board for workplace efficiency. The seats are optimised for maximum comfort and efficiency.



Reliability and Safety

- / Important components, such as the switches, connector clips, and instruments, are all parts from industry known suppliers to ensure reliability, performance, and ease of service.
- / The chassis, driving axle, steering axle and so on are all designed with strength in mind to meet heavy-load operating conditions.
- / The chassis is designed with a frame and girder type structure. This allows it to be light weight while retaining a great load capacity.
- / As apart of the standard configuration, the emergency cut off switch is designed to meet ITSDF safety standard.
- / The battery and electronic system are highly efficient. In addition, all of the wires and cables are protected to significantly increase the reliability of the burden carrier's electrical system.
- / The brake system and anti-slip function are designed to increase operational safety.



Standard Specification

- / Operator Presence Sensing System (OPS)
- / LED Light System
- / Large Screen LCD Display
- / Emergency Cut Off Switch
- / Horn
- / Reversing Buzzer
- / Clipboard
- / Cup Holder
- / Tow Pin
- / Full Suspension Platform
- / Two Seats for Personel
- Seat Belts

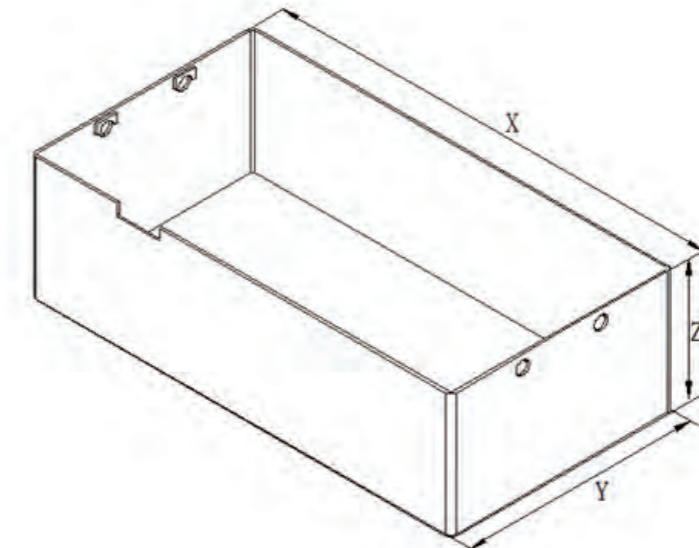
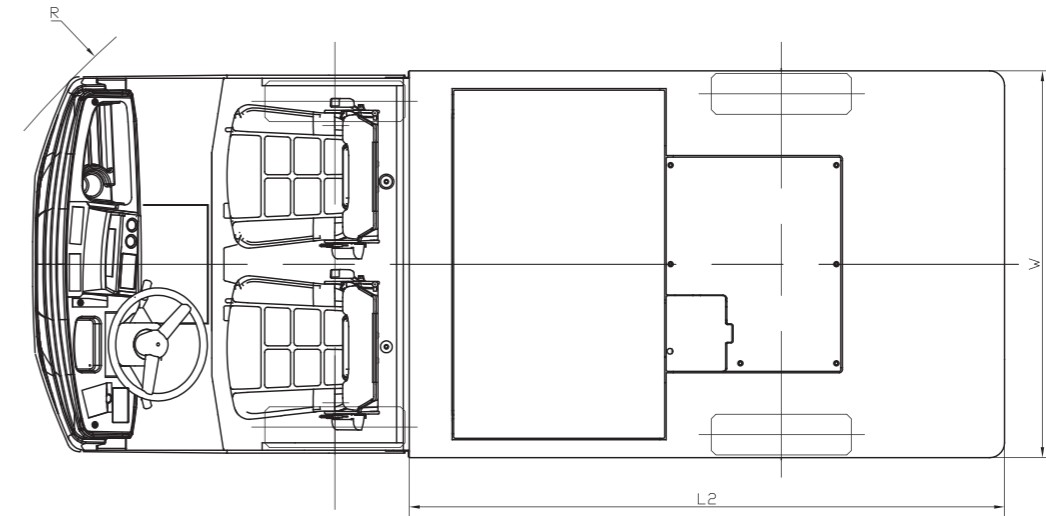
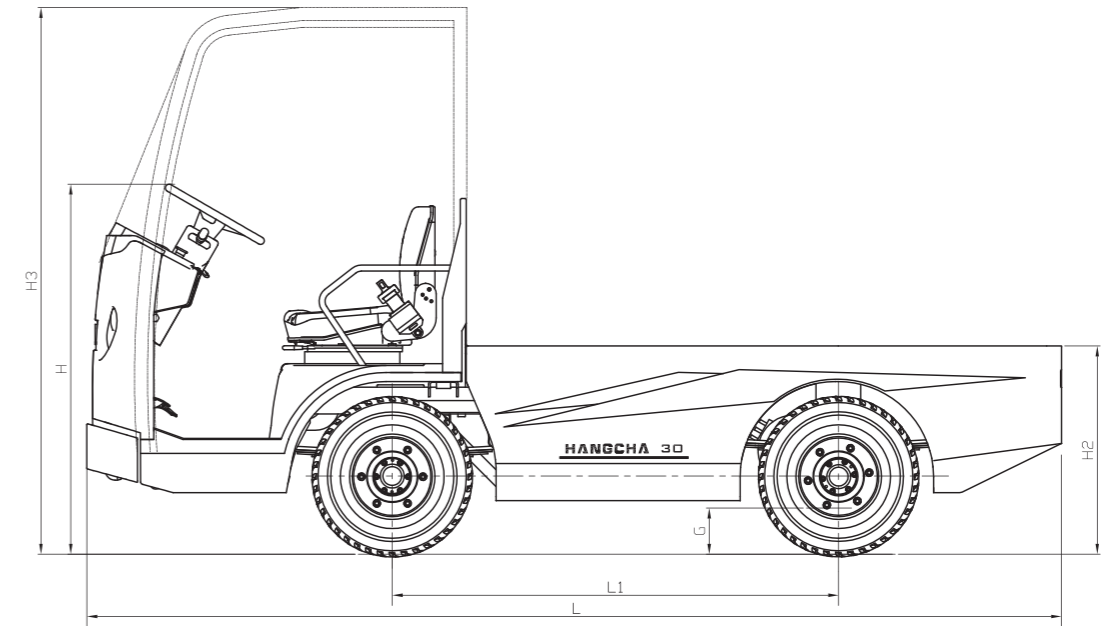


Options

- / Electric Power Steering System
- / Large Diameter Steering Wheel
- / Full Suspension Seat
- / Platform Guardrail
- / Rain Cover with or without Wind Screen and Windscreen Wiper
- / Full Cabin
- / Operator Fan
- / Left and Right Mirror
- / Strobe Light
- / Blue Light
- / Rear Working Light
- / Reverse Alarm
- / Larger Capacity Battery
- / High Performance Battery
- / Battery Side Roll Out
- / 12V Power Supply
- / Solid Tire
- / Charger
- / Fire Extinguisher
- / Electric Parking Brake
- /

X Series Electric Burden Carrier Specification

Distinguishing Marks	1.1	Manufacturer	HANGCHA GROUP CO.,LTD.		
		HCFA Model	BD15	BD20	BD30
1.2	Manufacturer's Type Designation		BD15-XD1	BD20-XD1	BD30-XD1
1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Electric	Electric	Electric
1.4	Operator Type: hand, pedestrian, standing, seated, order-picker		Seated	Seated	Seated
1.5	Rated Capacity/Rated Load	Q lb(kg)	3000(1500)	4500(2000)	6000(3000)
1.9	Wheelbase	y in(mm)	48.6(1235)	59(1500)	59(1500)
2.1	Service Weight	lb(kg)	2250(1020)	2710(1230)	2845(1290)
2.3	Axle Loading, unladen front/rear	lb(kg)	1157(525)/1090(495)	1390(630)/1320(600)	1500(680)/1345(610)
3.1	Tires: solid rubber, superelastic, pneumatic, polyurethane		Pneumatic	Pneumatic	Pneumatic
3.2	Tire size, front		5.00-8-10PR	5.00-8-10PR	6.00-9-10PR
3.3	Tire size, rear		5.00-8-10PR	5.00-8-10PR	6.00-9-10PR
3.5	Wheels, number front / rear (x = driven wheels)		4(x=2)	4(x=2)	4(x=2)
3.6	Tread, front	b ₁₀ in(mm)	43.1(1095)	43.1(1095)	43.1(1095)
3.7	Tread, rear	b ₁₁ in(mm)	44.5(1130)	44.5(1130)	45(1145)
4.7	Height of Overhead Guard (cabin)	h ₈ in(mm)	73.4(1865)	73.4(1865)	74.8(1900)
4.12	Coupling Height	h ₆ in(mm)	13.8(350)	13.8(350)	15.7(400)
4.16	Deck Length	l ₅ in(mm)	63(1600)	78.7(2000)	78.7(2000)
4.18	Deck Width	b ₅ in(mm)	51.2(1300)	51.2(1300)	51.2(1300)
4.19	Overall Length	h in(mm)	113.2(2875)	129(3275)	129(3275)
4.21	Overall Width	b ₁ in(mm)	51.2(1300)	51.2(1300)	51.2(1300)
	Overall Height	in(mm)	47.6(1210)	47.6(1210)	49(1244)
4.32	Ground Clearance, centre of wheelbase	m ₂ in(mm)	4.7(120)	4.7(120)	6.1(155)
4.35	Turning Radius	W _a in(mm)	112.2(2850)	130(3300)	130(3300)
5.1	Travel Speed, laden/unladen	mph (km/h)	8.4 (13.5)/11.2 (18)	8.7 (14)/11.2 (18)	8.1 (13)/12.4 (20)
5.6	Max. Drawbar Pull	lbf(N)	1170(5200)	1170(5200)	1460(6500)
5.8	Max. Gradeability, laden	%	10%	10%	10%
5.10	Service Brake		Electromagn+Hydraulic	Electromagn+Hydraulic	Electromagn+Hydraulic
	Parking Brake		Mechanical	Mechanical	Mechanical
6.1	Drive Motor Rating S2 60 min	kW	5	5	5
6.4	Battery Voltage, nominal capacity K5	V/Ah	72/120	72/180	72/180
6.5	Battery Weight	lb(kg)	590(268)	920(418)	920(418)
9.1	Manufacturer		INMOTION	INMOTION	INMOTION
10.7	Sound Pressure Level at the Driver's Seat	dB (A)	< 65	< 65	< 65



Battery Options Based on Model (72v)

A.h	Model	BD15	BD20	BD30
120		☆		
180		★		
180			☆	☆
240			★	★
300			★	★
330			★	★
360			★	★

Note:

Standard Battery: ☆

Optional Battery: ★

Battery and Compartment Size

Model	BD15-XD1		BD20-XD1		BD30-XD1	
Voltage	V		72		72	
Capacity	Ah		120		180	
Battery Compartment	"X" Max.	mm(in)	1072 (42.20)	1072 (42.20)	1072 (42.20)	1072 (42.20)
	"Y" Max.	mm(in)	382 (15.04)	566 (22.28)	566 (22.28)	566 (22.28)
	"Z" Max.	mm(in)	320 (12.60)	321 (12.64)	321 (12.64)	321 (12.64)
Batt.Wt.	Maximum	Kg(lb)	418 (921.53)	485 (1069.24)	485 (1069.24)	485 (1069.24)
	Minimum	Kg(lb)	268 (590.84)	418 (921.53)	418 (921.53)	418 (921.53)