		PRICING PAGE		
tem No.	Description	Model No/Brand Name Bid	Unit Cost	Executed 6
1	Pneumatic Tire Electric Forklift 4000lbs, at 24' center includes Delivery.	DOOSAN BOT-20 with	*29,919.0°	Extended Cost # 29,919.00
		BATTERY & CHARGER		2471200
,				
	Failure to use this form may result in disqualification Bidder / Vendor Information		TOTAL COST	29,919.00
Name:	Jefferds Corporation - Daviel Charles			
Address.	S14 29th st. Pnakeasborg, WV 26101			
Phone: Email	304-422-6491			
Address:	daniel christiane jeffends. com		<u>, , , , , , , , , , , , , , , , , , , </u>	
ignature:	Dissil R Pf			

VIII CONTRACTOR CONTRA

MATERIALS HANDLING SPECIALISTS SINCE 1947

514 29th STREET - P.O. BOX 1364 - PARKERSBURG, WV 26101 PHONE: (304) 422-6491 - TOLL FREE: (800) 511-5160 - FAX: (304) 422-6475 - ENIAIL: www.jefferds.com - LICENSE #WV0002496

Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130
SEALED PURCHASING TO THE ELECTRICATION FOR THE PROPERTY OF THE PROPERT

SEALED BID: PNUEMATIC TIRE ELECTRIC FORKLIFT

SOLICATION NO. CFRQ AGR1600000028

Proposal number: 0716-126-04106

Date: July 13, 2016 FOB: Ship Point

Shipping: 120 days FRO

WE PROPOSE TO FURNISH THE FOLLOWING EQUIPMENT SUBJECT TO THE TERMS AND CONDITIONS FOLLOWING THE BODY OF THIS PROPOSAL

One (1) new Doosan B20T-20, sit down rider forklift with the following features:

4,000 lbs. base capacity (derated as configured)

36 Volt Configuration; "E" rated

Solid Pneumatic Tires: Drive 200 x 50-10; Steer 16 x 6-8*

Triple Stage Mast with 216" maximum fork height; 98" Overall height lowered**; 5 fwd/3 bwd degrees tilt*

Class II Hook Type Carriage 38" wide with 40: high load back rest

Two (2) Class II forks, 1.6" Thick x 4" wide x 41" long

Overhead Guard is tapered for Drive In Rack with 79" overall height

Cloth static seat to meet OSHA standards for proper operator compartment; no cinch seat belt;

Two (2) Front facing Halogen Floodlights

One (1) rear facing Halogen Floodlight

One (1) Amber Strobe light mounted below the overhead guard

Three (3) Hydraulic levers mounted on the seat deck; Directional Control on "lift lever"

One (1) Hang -On style side shifter for 38" carriage, 4" side shift in each direction

Two (2) Rear View Mirrors

One (1) Smart Type Back Up Alarm

Includes Cold Storage Option to operate in below zero conditions

Tilt steering column with steering know on the steering wheel

Includes other standard options:

Rear grab bar with horn button

Automatic Speed Control for reduce speeds when turning corners

Unlimited ramp hold

Battery Discharge Indicator

Mast Lowering and Tilt Inter-Lock

Neutral safety Switch

Seat Belt Indicator

Brake Oil Level Indicator

Operator Sensing System

Turtle Mode Button

Low profile display and Neatly Arranged Hydraulic Hoses for better visibility

Oil Cooled Disc Brakes

Warranty: 12 months / 2000 hours full forklift; 24 months / 4,000 hours power train;

Continued page 2

Page 2 0716-126-04106 July 13, 2016

One (1) new Load hog Battery by Enersys, model 18-E100-21 with the following features: 36 volts
Square Tube Design
1000 AH / 34.74 KWH
38.27" x 24.44" x 22.69"
Weight 2,520 lbs.
Warranty is 5 years full replacement + 1 year pro-rated

One (1) new IMPAQ Charger by Enersys, model EI3-HL-4Y with the following feature 36 volt charger
Three phase; 480 volt input; maximum amp draw is 9.6
Maximum 1000 amp hour

Delivered price to Ripley, WV\$29,919.00

Add Applicable taxes
Price does not include installation of charger

Accepted:	JEFFERDS CORPORATION TERMS: NET 10 DAYS
CUSTOMER NAME	D. OR CH
ADDRESS	SALESMAN

This proposal is offered for your acceptance within thirty days of date. It shall constitute a contract of sale after being accepted by the buyer and the seller from St. Albans office acknowledges acceptance. Your attention is invited to the "Conditions and Terms of Sale" which are attached hereof and which are a part of this contract.

^{*}Denotes variance from specifications

^{** 197&}quot; maximum fork height; 89" overall height lowered; 5 degree fwd / bwd tilt option available

CONDITIONS AND TERMS OF SALE

Seller's responsibility ceases as soon as the goods are delivered in good order and condition at the shipping point and a receipt taken from the carrier. Material will be routed over most convenient lines from Seller's shipping point, unless routing is specified elsewhere in this proposal.

Promises of shipments are estimated as closely as possible, but delivery date cannot be guaranteed. No charges for delays or damages to other trades will be made or considered, because of delay in shipment.

Only material as specifically set out in the proposal will be furnished. Reference to plans and specifications is for means of identification only.

Claims for errors must be made in writing immediately on receipt of goods. It is understood that no back charges for labor performed or material furnished by others shall be made to Seller, unless such labor is performed or materials furnished on Seller's written order. No expense incurred by Purchaser in expediting shipments shall be charged to Seller.

Contracts are made and accepted with the distinct understanding that they are not subject to cancellation, and that any cancellation on the part of the Purchaser shall in no way invalidate the right of Seller to collect in full for all materials on which drawings have been started, material in process of manufacture, fabrication, or delivery, or delivered on the work. Expense due to revision of drawings or changes of material after work is started, shall be paid by Purchaser.

Jefferds Corporation will not be held responsible for any modifications of existing building or structures unless such work is specifically covered on the face of this contract, Jefferds Corporation will not be responsible for determination of floor capacities, column and beam strengths or other architectural or structural details unless the contract specifically so states.

Where shop drawings, prepared by the seller or firms for which the Seller acts in the capacity of agent, have been approved by the Purchaser, or Purchaser's supervising architect or engineer in charge of work, such approved drawings, shall be deemed correct interpretation of all work to be performed or material furnished.

Reasonable doubt of Buyer's financial responsibility shall entitle Seller to stop operations, decline shipment, or stop material in transit without liability until satisfactory credit arrangements have been made.

Unless otherwise noted, prices are exclusive of any sales or use taxes now in force or which may be made effective in the future by any federal, state, or local governments. Buyer shall be responsible for all such taxes and shall promptly reimburse Seller for any such taxes paid thereon and save Seller harmless therefrom.

It is agreed that the Seller shall at its option have the right to avail itself of the benefits of the local lien laws.

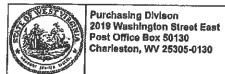
It is understood and agreed that Jefferds Corporation has the option of furnishing the articles herein enumerated, either from its warehouse or by shipment direct from fabricators and materials houses for which Jefferds Corporation acts as agent, and that upon instruction of Jefferds Corporation, Purchaser will make payments in full accordance with the provisions of this contract to the principal furnishing materials. It is further agreed that the materials of each principal constitute a separate agreement of sale and that payment will not be withheld from any principal because of failure of another to fulfill his contract.

All material will be shipped and billed when fabricated or completed unless deferred shipment is arranged for. Partial invoices shall be paid without waiting for shipment of the balance of the material on the job. When the contract includes the erection of material, the erection portion of the contract may be assigned or subcontracted by Seller. Payment of the balance of the contract price will not be held because of deferred erection unless specific arrangements are covered by the contract.

Purchaser understands and agrees that Jefferds Corporation is the dealer or agent for the manufacturers, fabricators, and materials houses furnishing the articles described herein, and Jefferds Corporation makes no warranty, express or implied which extends beyond the description of the article sold on the face hereof. There IS NO IMPLIED WARRANTY OF MERCHANTABILITY, OF FITNESS, OF TITLE, OR AGAINST INFRINGEMENT. In no event will Jefferds Corporation be liable for consequential or special damages. A description of the warranty of the manufacturer, fabricator or materials house will be furnished purchaser upon request.

The manufacturer certifies that this unit will meet all current safety regulations and OSHA standards applicable to the manufacture and use of this unit over which the manufacturer has control.

This proposal, when accepted, constitutes the entire contract between the purchaser and Jefferds Corporation, and is intended as a complete and exclusive statement of the terms of their agreement.



State of West Virginia Request for Quotation 01 — Agricultural

	Proc Folder: 216430		
	Doc Description: Pneum	atic Tire Electric Forklift	
	Proc Type: Central Purch	ase Order	
Date Issued	Solicitation Closes	Solicitation No	Version
2016-06-23	2016-07-12 13:30:00	CRFQ 1400 AGR1600000028	1

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BID CLERK			
DEPARTMENT OF ADMINISTRATION			
PURCHASING DIVISION			
2019 WASHINGTON ST E			
CHARLESTON	w	25305	
US			

WENDORC	
Vendor Name, Address and Telephone Number:	
	1

FOR INFORMATION CONTACT TO Linda Harper (304) 558-0468 IInda.b.harper@wv.gov	HE BUYER			0.1
Signature X	-	FEIN#	DATE	
All offers subject to all terms and	conditions contained in	this policitation		

The West Virginia Purchasing Division for the Agency, The West Virginia Department of Agriculture is soliciting bids from qualified vendors to establish a "One-Time" contract for the purchase of a Pneumatic Tire Electric Forklift per the Specifications, Terms & Conditions and bid requirements as attached.

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PROCUREMENT OFFICER 304		AUTHORIZED RECEIV	
AGRICULTURE DEPARTMENT	OF	AGRICULTURE DEPA	RTMENT OF
ADMINISTRATIVE SERVICES		FOOD DISTRIBUTION	PROGRAM
1900 KANAWHA BLVD E		4496 CEDAR LAKES R	RD :
CHARLESTON	WV25305-0173	RIPLEY	WV 25271
US		us	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Pneumatic Tire Electric Forklift	1.00000	EA		

Comm Code	Manufacturer	Specification	Model #	
24101603				
				1

Extended Description:

Pneumatic Tire Electric Forklift, Cost includes shipping charges

हात्। विशेष	(e) navanka 1758 - 1757 - 1757	
<u>Line</u>	<u>Event</u>	Event Date
1	Question Deadline 3:00 p.m.	2016-06-29

				
	Document Phase	Document Description	Page 3	
AGR1600000028	Finai	Pneumatic Tire Electric Forklift	of 3	

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

WY-10 Approved / Revised 08/01/15

State of West Virginia vendor preference certificate

Certification and application is hereby made for Preference in accordance with West Virginia Code, §5A-3-37. (Does not apply to construction contracts). West Virginia Code, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the West Virginia Code. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Vendor Preference, if applicable.

Application is made for 2.5% vandor preference for the reason checked: Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preced ing the date of this certification; or, Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or, Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or
Application is made for 2.5% vendor preference for the reason checked: Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
Application is made for 2.5% vendor preference for the reason checked: Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
Application is made for 5% vendor preference for the reason checked: Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
Application is made for 3.5% vendor preference who is a veteran for the reason checked: Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
Application is made for 3.5% vendor preference who is a veteran for the reason checked: Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percert of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.
7. Application is made for preference as a non-resident small, women- and minority-owned business, in accordance with West Virginia Code §5A-9-59 and West Virginia Code of State Rules. Bidder has been or expects to be approved prior to contract award by the Purchasing Division as a certified small, women and minority-owned business.
Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has falled to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.
By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.
Under pensity of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.
Bidder: Jefferels Corporation Signed: A TOS
Date:

RFQ No.	

STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

MANDATE: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Pebt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Ve. Code §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

Witness the following signature:

Vendor's Name: SEFERDS CORPORATION

Authorized Signature:

Date: 7/13/10

State of Wish Virginia

County of Pitnam, to-wit:

Taken, subscribed, and sworn to before me this 13 day of 10 2010

My Commission expires 1 30 , 2018.

AFFILE STATE OF WEST VIRGINIA Territ L. Palkon Jefrat Corporation P O Box 757

Bit. Albans, Wy 25177

My Commission Expires June 30, 2018

Purchasing Affidevit (Revised 07/01/2012)

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

DANIEL Christian, Enles
(Name, Title)
(Printed Name and Title)
(Printed Name and Title) 514 294 St. Parkensbury, WV 26/01 (Address)
(Address) 304-427-6491 / 304-427-6475 (Phone Number) / (Pax Number)
304-427-6491 / 304-422-6475
druielchaustrane vetterde com
(email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

Jeffreds Coeporation	
(Company)	
(Authorized Signature) (Representative Name, Title)	
(Authorized Signature) (Representative Name, Title)	
DANIEL CHRISTIAN: SWE	
(Printed Name and Title of Authorized Representative)	_
7/13/16 (Date)	
(Date)	_
304-422-6491 / 304-422-6475 (Phone Number) (Fax Number)	
(Phone Number) (Fax Number)	_

ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.: AGR1600000028

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

(Che	ck tl	ne b	ox next to each addendur	n receive	d)	
	[N	Addendum No. 1	[}	Addendum No. 6
	[]	Addendum No. 2	£]	Addendum No. 7
	Į]	Addendum No. 3	[]	Addendum No. 8
	[]	Addendum No. 4	[]	Addendum No. 9
	[]	Addendum No. 5	ſ]	Addendum No. 10

Addendum Numbers Received:

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Jeffends Comporation
Company
Darif Control
Authorized Signature

17/13/16
Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.

SOLICITATION NUMBER: AGR1600000028 Addendum Number: 1

The purpose of this addendum is to modify the solicitation identified as ("Solicitation") to reflect the change(s) identified and described below.

Applicable Addendum Category:

1,	/]	Modify bid opening date and time
I	İ	Modify specifications of product or service being sought
[4	/]	Attachment of vendor questions and responses
[1	Attachment of pre-bid sign-in sheet
l	J	Correction of error
[ı	Other

Description of Modification to Solicitation:

Addendum 1 issued for the following reasons:

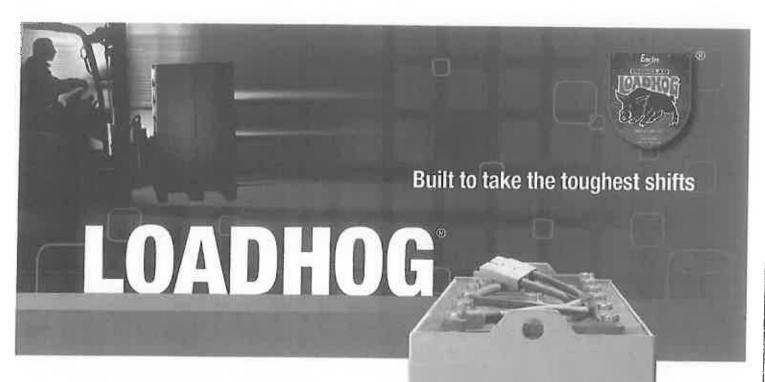
- 1. To modify the bid opening date and time to July 14, 2016, 1:30 p.m.
- 2. To publish the vendor questions with responses.

No other changes.

Additional Documentation: Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

Terms and Conditions:

- 1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
- 2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

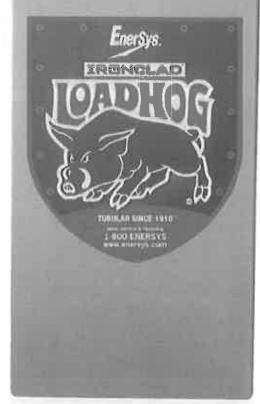


First in high capacity

A proven high-performance battery with brute strength and exceptional staying power, Loadhog® batteries were the first to pack 100 amp-hours of capacity into a standard 85-AH compartment. That's 18% more capacity than similarly sized conventional batteries. When a Loadhog battery is installed in a DC lift truck, the benefit of higher voltage is straightforward: faster drive and lift speeds. Plus, higher amp-hour capacity ratings will ensure your lift truck runs long into the shift day and maximizes your operation's productivity,

Sustained voltages for AC trucks

Now, with the shift in electric lift trucks from DC to AC power, the staying power of the legendary Loadhog battery becomes even more apparent. Because an AC motor offsets a battery's normal voltage drop during discharge by drawing more and more amps, an AC truck sustains consistent run and lift speeds until the battery reaches the maximum discharge level. With sustained higher voltages throughout the shift plus higher amphour capacity ratings, the Loadhog battery is able to provide longer run times in an AC truck when compared with flat plate or round tube battery designs. It just doesn't make sense to limit the performance of your lift truck with an inferior battery!



Increased amp-hour capacity for longer run times, heavier loads.





Elfores

MOTIVE POWER CHARGERS

Modular Charger Solutions: Setting the Standard



EnerSys.



PEAK PERFORMANCE AND RELIABLITY

EnForcer IMPAQ charger modules are automatically switched off and on to achieve optimum charging performance and maintain peak efficiency at all times. Should a single module develop a minor fault, the charger bypasses the module and keeps running at reduced power to continue the charging process — and your business operations — without interruption.

OPTIMIZED CHARGING

EnForcer IMPAQ+ high frequency modular chargers employ the EnerSys exclusive IONIC* charge profile to continuously diagnose battery condition throughout the charging process. This optimizes the charging profiles and can reduce charging times from one to two hours compared to other chargers depending on battery type. The IONIC charge profile effectively brings a battery's specific gravity back to "nameplate" — that is, to virtually the same rating the battery had when new. EnForcer IMPAQ+ chargers automatically identify batteries, assuring increased efficiency and power factor control for exceptional, customized charging.

FLEXIBLE DESIGN AND SIMPLIFIED SERVICE SOLUTION

The modular charger concept adapts to a wide range of battery capacities, allowing potential reduction of the number of chargers in your fleet. Fewer chargers means more space. Plus, the self-diagnostics feature flags any possible failures and replacing modules is easy to do.

REDUCE YOUR ENERGY FOOTPRINT

EnForcer® IMPAQ™ and IMPAQ+ modular chargers

- Provide energy savings with efficiency up to 94%
- Reduce electrical infrastructure requirements with 99% power factor
- Consume below 10W in stand-by mode
- Comply with the latest global standards including the California Energy Commission (CEC) appliance efficiency standards

IMPAQ" Chargers (Plug-in, 2, 3, 4 and 6 bay)

Charging	Flexibility	Dommunication	Construction	Single i	diase	Three Phase
Plooded Opportunity Cold store VRLA Gel-bloc De-sulphation charge Auto squalization charge	Multiple charging profiles Extended programmable capacity range Future-proofing extendable output power Charge block-out settings	USB to download and upload charger data	Free-standing or wall mounted LOD screen with customer programmable menu Light and modern design	Plug-in, 3 and 6 bay • VAC: 120, 208, 220, 240 • Charger range: 12V, 24V and 36/48V	2/4 bay • VAC: 480 • Charger range: 24V and 36/48V	2, 4, and 6 bay • VAC: 208, 220, 240, 480, 800 • Charger range: 24/36/48V and 72/80V











Plug-in

3 bay

6 bay single phase

2/4 bay

IMPAQ*+ Chargers (2, 3, 4 and 6 bay)

Charging	Floribility	Communication	Bonstruction	Single P	hase	Three Phase
Proprietary IONIC™ profile with autodiagnostics Deportunity Cold store VRIA Gel-bloc De-sulphation charge Auto equalization charge Automatic temperature adjustment with Wi-IQ® battery device Proprietary IONIC™ Proprietary	Multiple charging profiles IONIC profile automatically adjusts to multiple DC voltages and battery capacities Future-proofing extendable output power Charge block-out settings	Wireless communication between charger and battery via Wi-iQ battery device USB to download and upload charger data Ethernat connection	Free-standing or wall mounted 4.3' multi-color deshboard screen with customer programmable menu Display color changes to indicate charge condition Light and modern design	3 and 6 bay • VAC: 120, 208, 220, 240 • Charger range: 12V, 24V and 36/48V	2/4 bay • VAC: 480 • Charger range: 24V and 36/48V	2, 4, and 6 bay • VAC: 208, 220, 240, 480, 600 • Charger range: 24/36/48V and 72/80V



3 bay



6 bay single phase



2/4 bay



6 bay three phase

EnForcer[©] IMPAQ™ Modular Charger Overview

	Output DC Voltage	Cafrinet Size	Cabinet Gode	Max Battery Copyrighty (Standard 6 ht)	AH Battery Capacity (Opportunity,Mode*)	Input AC Amps	VAG	Mox Weight (LBS)	Dimensions (W × D × H)
980	12	1	AK	220	140	5	120	6	5.83" x 3.80" x 10.41"
五百	24	1	AK	125	80	6	120	. 6	5.83° x 3.80° x 10.41°
Sing .	36/48	1	AK	88/70	56/44	: -	120	6	5.83" x 3.80" x 10.41"
	12	3	CM	660	420	14	120	17	9.84" x 7.22" x 13.54"
Three-Phase Single-Phase Single	24	3	CM	375	240	16	120	17	9.84" x 7.22" x 13.54"
	36/48	3	CM	265/210	168/132	18	120	17	9.84" x 7.22" x 13.54"
	12	3	CM	660	420	8.4/7.8/7.2	208/220/240	17	9.84" x 7.22" x 13.54"
	24	3	CM	660	420	16.2/15.4/14.1	208/220/240	17	9.84" x 7.22" x 13.54"
	36/48	3	CM	450/340	300/216	17.4/16.8/15.0	208/220/240	17	9.84" x 7.22" x 13.54"
	12	6	FP	1320	840	29	120	48	20.47" x 10.24" x 16.34"
Sea	24	6	FP	750	480	33	120	48	20.47' x 10.24" x 16.34"
<u> </u>	36/48	6	FP	525/420	340/260	36	120	48	20.47" x 10.24" x 16.34"
Single	12	6	FP	1320	840	16.8/15.6/14.4	208/220/240	48	20.47° x 10.24" x 16.34°
:	24	6	FP	1320	. 840	32.4/30.6/28.2	208/229/240	48	20.47' x 10.24" x 16.34"
;	36/48	6	FP	900/680	600/432	34.8/33.6/30.0	208/220/240	48	20.47" x 10.24" x 16.34"
	24	2	HL	1000	640	11.6	480	67	13.18" x 13.89" x 19.50"
-0	36/48	2	HL	625/625	400/400	14.2	480	67	13.18" x 13.80" x 19.50"
	24	4	JN .	2000	1280	23.2	480	84	13.18" x 13.80" x 19,50"
į	36/48	4	JN	1250/1250	800/800	28.4	480	- 84	13.18" x 13.80" x 19.50"
1	24/36/48	4	JN	1000/1000/1000	640/640/640	29.6/28.0/25.6	208/220/240	84	13.18" x 13.80" x 19.50"
Three-Phase Single-Phase Phase	72/80	4	JN	625/625	400/400	30.8/29.2/26.8	208/220/240	84	13.18" x 13.80" x 19.50"
	24/36/48	4	JN	2000/2000/1500	1280/1280/960	19.2	480	84	13.18" x 13.80" x 19.50"
-	72/80	4	JN	1000/900	640/576	19.2	480	84	13.18" x 13.80" x 19.50"
Three-Phase	24/36/48	4	JN	2000/2000/1500	1280/1280/960	15.6	600	84	13.18" x 13.80" x 19.50"
	72/80	4	JN	1000/900	640/576	15.6	600	84	13.18" x 13.80" x 19.50"
93	24/36/48	6	LP	1500/1500/1500	960/960/960	44.4/42.0/38.4	208/220/240	108	19.10" x 13.80" x 19.50"
F	72/80	6	LP	940/940	600/600	46.2/43.8/40.2	208/220/240	106	19.10" x 13.80" x 19.50"
i	24/36/48	6	LP	2000/2000/2000	1280/1280/1280	28.8	480	106	19.10" x 13.80" x 19.50"
	72/80	6	LP	1500/1350	960/864	28.8	480	106	19.10" x 13.80" x 19.50"
	24/36/48	6	LP	2000/2000/2000	1280/1280/1280	23.4	600	106	19.10" x 13.80" x 19.50"
-	72/80	6	LP .	1500/1350	960/864	23.4	600	106	19.10" x 13.80" x 19.50"



ENERSYS WORLD HEADQUARTERS 2366 Bernville Road Reading, PA 19605 +1-800-EnerSys Fex: +1-610-372-8613 ENERSYS CANADA INC. 61 Parr Boulevard Unit 3 Bolton, Ontario - Canada L7E 4E3 +1-800-363-4877 Fax: +1-905-951-4441 ENERSYS DE MEXICO
Ave Lopez Mateos #4210
Colonia Casa Blanca • C.P. 66475
San Nicolas de los Garza, N.L. Mexico
+52-818-329-6400
Fax: +52-818-329-6489

www.enersys.com

^{*} AH Battery Capacity (Opportunity Mode) based on 25% maximum charge rate. Larger battery capacities can be charged in opportunity mode, but cannot exceed the max battery capacity indicated in the "Max Battery Capacity (Standard 8 hr)" column.



7 Series Electric Forklifts 3,000lb to 4,000lb Capacity



Lifting Your Dreams

Doosan

A name to be proud of

The foundation on which Doosan has built its century of success is the trust in its people.

Doosan's management philosophy has always been "people first".

"Business is not meant to make profits, but to help people grow."

-Late Too Pyung Park, First Chairman

We believe this value drives our future growth and it continues to spur corporate development with global competitiveness.

Doosan - the oldest, but the fastest growing company

Doosan holds the record for having the longest business history in Korea since its inauguration in 1896. We are also the fastest growing company, with steady growth rates over the years and reaching our fastest pace in the past 10 years.

Doosan – the global Infrastructure Support Business (ISB)

Doosan has achieved an excess of 90% of its sales within the ISB sector through vigorous reorganization of its business portfolio since 1998. Prior to the transformation in the late 90s, 70% of our business was concentrated on consumer goods, but we have successfully transformed our business DNA into an ISB, that constructs and reinforces social infrastructure.

Doosan - surging as a global company

Doosan has become a global leader in the ISB by providing communities across five continents with the fundamental solutions, tools and structures they need to advance their societies.

With over 43,000 employees in 38 different countries, and 50% of its human resources being locally employed, Doosan is truely a global company.





Lifting Your Dreams

Since we first started out as Chosun Machinery in 1937, Doosan Industrial Vehicle has grown into Korea's largest machinery manufacturer, playing a leading role in the development of the industry in Korea.

Today, we are a global enterprise. We operate large scale plants and sales subsidiaties in Korea and around the world, as well as maintain a massive operational network that spans over continents.

Committed To Innovation

We remain committed to the advancement of new technologies and the development of talented individuals, which drives us to respond effectively to the rapid changes taking place in the cost century. Our mission is to strengthen our position in the international market and become a global leader in the industry.

Our Promise

Doosan Industrial Vehicle will be the partner you can count on,

Award-Winning Machines

Doosan currently holds a number of lawards in the categories of export, design 8 safety, including five Design Excellence awards from the Forklift Truck Association.



Our 7 Series 3 wheel and 4 wheel electric counter balance forklift trucks continue the Doosan tradition of delivering simple, powerful performance, at the best possible value for our customers.

The operator compartment was designed specifically to keep the operator in control at all times, improving productivity while reducing stress and fatigue. The operator compartment offers improved visibility and ergonomic hydraulic controls.

Extended maintenance intervals and advanced technology componentry reduce the overall cost of maintenance. The latest AC control systems provide an unbeatable combination of power, performance and reliability. Each parameter is fully customizable to perfectly fit any individual's requirements, while providing maximum control and accuracy. The new and improved design of Doosan's 7 Series electric trucks exceeds customer demands for safety by offering excellent durability and stability.







Powerful & Reliable Technology

Armed with the latest technology from Curtis Instruments, the new Doosan 7 series provide an unbeatable combination of power, performance and functionality. They are the operator's choice, being infinitely controllable and exceptionally reliable. The Curtis motor control system allows our trucks to be surprisingly versatile, maintaining high productivity in various work environments. The AC drive and hydraulic motors deliver smooth and seamless power with minimal energy consumption.

Safety and Convenience

The Electro-magnetic Auto Parking Brakes provide the operator maximum safety and convenience. Whenever the operator leaves the seat, the truck's parking brake is automatically applied with an unlimited ramp-hold function, ensuring the safety of the workplace. There is no danger of the machine rolling away, even if it is left unattended on a ramp or a slope.



Maximized Productivity in Warehouse Applications

Effective storage is the primary goal for many warehouse managers. Our 3 wheel models have steer axles that turn 90°, enabling the machines to maneuver with ease even in the tightest spaces. The 4 wheel models also have brand new steer axles, which have been carefully designed to minimize the turning radius and can now achieve an outstanding 86° steer angle. In addition, the new rounded design of the counter-weight enables the truck to move comfortably in and out of narrow spaces, reducing damage costs.

Outdoor Operations

The Doosan 7 Series electric forklifts are waterproof and are safe for outdoor use. The sealed controllers are rated IP65 and the motors are rated IP43, with all related wiring & connectors being silicon-sealed. This means they are fully protected from dust, debris and liquid, which allows them to be used outdoors with no problems.

Optimum Visibility & Safety

Visibility plays a vital role in forklift safety. The root cause of many forklift accidents can be traced back to visibility issues, and when they occur, the productivity of the workplace can take a significant hit.

Designed with precision, the overhead guard profile with angled roof bars provides a clear view upwards while ensuring ultimate strength for safety. An open rear view and an optional panoramic mirror offer additional safety to reduce accidents and unnecessary damage to trucks, products or racking.

Doosan's award-winning Rear Grab Handle makes reversing all the more comfortable and safe. The easy grip handle is positioned ergonomically for your hand to locate effortlessly, instead of around the overheard guard, which could lead to hand injuries. The integrated horn button allows the operators to keep one hand on the handle without having to reach for the steering wheel, so they can continue looking in the direction they are traveling.

The chains and the hydraulic hoses are neatly arranged so that they provide a clear, unobstructed front view through the mast. All auxiliary hoses used on attachments, such as the integrated side-shift, are aligned behind the mast chain and cylinders, which allow excellent front visibility.





Panoramic Mirror

Provides the operator a clear view of the whole back & rear working area, improving work safety & efficiency.





Rear Grab Handle

Adds to safety, comfort and convenience when traveling in reverse,

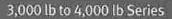


Neatly arranged Hydraulic Hoses Reduce clutter and provide better visibility.



Brighter and longer-lasting than traditional sealed beams or halogen lights.







Ergonomic Interior Design

Operators perform best when their working conditions are ideal, and the Doosan 7 Series has been designed to make this a reality. The steering column, full suspension comfort seat, armrest and even the optional headrest are all fully adjustable to accommodate any operators' individual preferences. All of the control functions and displays are ideally situated for maximum comfort. In addition, operators can control the truck's performance settings during operation, simply by navigating the instrument panel. The new Doosan finger tip control system and the mechanical hydraulic levers enable the easiest operation imaginable.

In addition, specifically designed for operator comfort, the Convenience Box was conceived by adopting combinations of new and old favorities to give the best operator experience. Some of the features include: a large cup holder, a USB port _12V power outlet, and a clipboard holder.









Easy to Control

Hydraulic Levers. Simple, reliable and familian The direction switch is located on the hydraulic lift lever, enabling a quick change from forward to reverse motion safely. There is no need to take your bands off the steering wheel or the hydraulic levers.

The all new Finger-tip Centrols: Optimal ergonomics giving optimal performance. These fast, precise and instinctive controllers make operating the new Boosan / Series effortless and efficient.





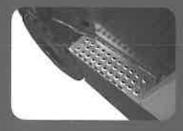




Ease of Access Ensures Maximum Safety

Operators have the need to get on and off the truck regularly for different reasons. With this in mind, a number of new features were added to make this process easier and safer than ever before.

- Large step plate with an arti-slip pattern ensures firm footing even for large safety boots.
- Easy grip entry bar makes entering and exiting the machine safer
- Large uncluttered floor plate with no trip hazards provide improved comfort and more leg room.
- Angled floor plate reduces strain on the ankles, and large pedals ensure maximum safety and case of operation









3,000 lb to 4,000 lb Series

Maximum Safety & Stability in Operation

All Doosan equipment are designed to promote a safe and stable operation. Adding the Guardian Stability System (GSS) will dynamically protect the operator and the load to reduce the risk of accidents. The 7 series meets all of the current, as well as the emerging demands for operator safety and machine stability in every application.

Unlimited Ramp Hold

The Electro-magnetic Auto Parking Brake (EPB) prevents the forklift from rolling back if the truck is stopped on a slope.

Operators can get off the truck easily without braking.

Automatic Speed Control

The angle sensor controls the travel speed in sharp turns. The truck automatically reduces the travel speed for safety when turning corners.

Battery Discharge Indicator

Lifting will be disabled when the battery is discharged to 20% during operation. This function is to protect the battery from damage and prevent sudden loss of power due to a dead battery.

Mast Lowering Inter-Lock (ISO3691)

If the operator keys off or gets off the seat, the hydraulic lift & tilt locking system will limit the motion of the truck.

Mast Tilt Lock (ISO3691)

Hydraulic locks prevent hydraulic drift when lowering and tilting.

Quiet & Smooth Operation

The modulating hydraulic cushioned valve is included in secondary cylinder of FF and FFT mast to prevent staging noise which will result in quiet operation and longer mast life.

Neutral Safety Switch

If the truck is in forward or reverse mode, the truck will have to be returned to neutral before operation.

Seat Belt Indicator

When the key is switched on, a warning light in the instrumental panel will flash if the seat belt is not fastened.

Brake Oil Level Indicator

The low brake oil level indicator in the instrumental panel will flash when the oil level in the brake oil reservoir is lower than minimum level.

OSS (Operator Sensing System)

This OSS prevents the truck from traveling or lifting when the operator leaves the seat.



Turtle Mode

Pressing the Turtle Mode button will reduce travel speed to a previously set parameter without affecting the lift speed.

Guardian Stability System (Optional)

- Decreased Travel Speed (50%) when mast is raised above primary stage
- Forward tilt reduced 2 degrees when mast is raised above primary stage
- Alarm when mast is raised above primary stage with mast tilted more than 2 degrees

Auto Tilt Leveling (Optional)

Returns the mast to vertical position easily by tilt angle sensing







B18T-7 Series B15/18/20T-7, B18/20TL-7 36 or 48V 3 Wheel Truck



B18X-7 Series B16/18/20X-7 48V, 4 Wheel truck

Major Specification		B15T-7	B18T-7	B18TL-7	B20T-7	B20TL-7	B16X-7	B18X-7	B20X-7	
Classification			3 '	4 Wheel Electric						
Capacity	lb	3,000	3,500	3,500	4,000	4,000	3,000	3,500	4,000	
Load Center	in	and the second s		The state of the s	2	!0			i., . ,	
Wheel Base	in	52.1	56.0	61.2	56.9	61.2	58.9	58.9	58.9	
Turning Radius	in	59.7	63.6	69.1	64.9	69.1	74.3	74.3	74.3	
Load Moment Center	in	14.8	14.8	14.8	15	15	14.8	14.8	15	
Travel speed	mph	C Total Mile walking a com-	*** **********************************	A COMMITTER OF THE PROPERTY AND THE PROP	10).6			to the state of Toping agreements and	
Lift speed (U/L)	ft/s			at the designant of appropriate in the second	1.3	/ 2.0				
Lowering speed (U/L)	ft/s			14 total H 81911% H78y & py	1.6	/ 1.5				
Max. Gradeability (at 1.0 mph, Loaded)	%	26	25	25	24	24	26	25	24	
Max. Drawbar Pull (Loaded)	ft.lbf		- control distriction in the		940	2.9	·			
Right Angle Stacking Aisle Width; 39.4 x 47.2	in	126.6	130.6	136.1	132.1	136.3	135.7	136.5	136.7	
Right Angle Stacking Aisle Width; 31.5 x 47.2	in	131.5	135.5	141.0	137.0	141.2	144.3	144.3	144.5	
Steer Angle	deg.	90	90	90	90	90	86	86	86	

Standard & Optional Features	3,000 lb to 4	,000 lb Serie
Safety & Standing Connain Stability System (CSS)	Sharidayi	Better
OSS (Operator Sensing System)		
Neutral Safety Switch		
Unlimited Ramp Hold	C	
Battery Discharge Indicator	(0)	
Brake Oil & Seat Belt Indicator		
(ISO 3691) Mast Lowering Inter-Lock & Filt Lock	Ö	
Emergency Stop Switch Rear Grab Handle		0
Auto Tilt Leveling	-	
Guardian Stability System		
		Q
Decreased Travel Speed (Up to 50%) When Mast is Raised Above Primary Stage		
- Forward Filt Reduced 2 Degrees when Mast is Raised Above Primary Stage		
- Alarm when Mast is Raised Above Primary Stage with Mast Tilted more than 2 Degree		
Full AC System Chassis	Standard	新棋技術
Rounded Counterweight		
IP65 Rated Curtis Controller		
IP43 Rated PAL Enclosed Motors	Q8	
86° (BX)/ 90° (BT) Steer Angle	OV.	
Electro-Magnetic Automatic Parking Brake (EPB)		
Hydraulic Cushioned Valve in Secondary Cylinger (FFL & FFT)	(VO):	
Accessory for DIN Type Battery Installation	0	
Battery Roller System		
Cooling Options : Fans & Fin Type Controller		
Apolication Packages : Cooler & Freezer, Beverage, Fishery		
Operation contest (Experimits):	Edinadard	10000
Easy Grip Entry Bar & Large Step Plate with Anti-Slip Pattern	Standard	Option
Large & Angled Floor Plate (Leg Room) with Rubber Cushion		
Rounded Battery Cover		
Easy to Read Instrument Panel	•	
Adjustable Tilt Steering Column & Easy Grip (Size Ф280) Steering Wheel		
Hydraulic Control Lever with Direction Switch	(0)	
Large Cup Holder, USB Port & 12V Power Outlet, Clipboard Holder		
Finger-Tip Control		0
Power Grip Knob		
Premium Seat: Grammer MSG65 Series		16
Panoramic Mirrior		-6-
LED Lights		
Special Height Overhead Guards		
Mono Pedals		-
Modular Cabin		- i
Durability & Serviceability	Standard	Option
Robust Frame & Overhead Guard	6	- Water
Easy to Access Controller & Motors Room	Š	
Wide Open Battery Cover		
Tool-Less Side Cover with Air Ventilation		
Oil Cooled Disc Brakes (ODB)	0	
Durable Heat-Resisting(38"SQ)Cables	- Š	
Easy Diagnostic & Fine Tune	<u> </u>	







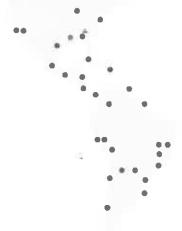








- Production Subsidiary
- Sales Subsidiary
- Branch
- Main Dealer
- Parts Depot Center



DOOSAN

Doosan Industrial Vehicle America Corp. 2475 Mill Center Parkway Sulte 400 Buford, GA 30518

P: 678-745-2200 F: 678-745-2250 www.doosanlift.com

AUT	HOR	IZED	DE	ALE



7-Series Electric Forklifts3,000lb to 4,000lb Capacity
3-wheel and 4-wheel



Lifting Your Dreams

MAST SPECIFICATIONS and RATED CAPACITIES

B15T-7

	Fully Extended Height							Free	Lift	<u>.</u>	Rated Load Capacities												
Mast	Maximum Fork				with Load without Load							Single	Solid Ti	re	Single Cushion Tire								
type	Hei	Height Height		Height Height		Height			krest		ut Load krest	1	Load krest	l .	ut Load krest	Tilt /	angle	Load	Cap.	Tilt /	Ingle	Load	l Cap.
													FWD	BWD	LC 24" (500mm)		FWD	BWD	LC 24"	(500mm)			
	ln	mm	in	mm	in	mm	in	mm	in	mm	in	mm	deg	deg	lb	kg	deg	deg	lb	kg			
	118.1	3,000	78.7	2,000	159.3	4,045	141.7	3,600	5.1	130	5.1	130	5	7	3000	1,500	5	7	3000	1,500			
	129.9	3,300	84.6	2,150	171.1	4,345	153.5	3,900	5.1	130	5.1	130	5	7	3000	1,500	5	7	3000	1,500			
STD	137.8	3,500	88.6	2,250	178.9	4,545	161,4	4,100	5.1	130	5.1	130	5	7	3000	1,500	5	7	3000	1,500			
	145.7	3,700	92.5	2,350	186.8	4,745	169.3	4,300	5.1	130	5.1	130	5	7	3000	1,500	5	7	3000	1,500			
	157.5	4,000	100.4	2,550	198.6	5,045	181.1	4,600	5.1	130	5.1	130	5	7	3000	1,500	5	7	3000	1,500			
	177.2	4,500	110.2	2,800	218.3	5,545	200.8	5,100	5.1	130	5.1	130	5	7	2850	1,425	5	7	2900	1,450			
	106.3	2,700	72.8	1,850	147.4	3,745	130.9	3,325	33.3	845	49.8	1,265	5	5	3000	1,500	5	5	3000	1,500			
FF	118.1	3,000	78.7	2,000	159.3	4,045	142.7	3,625	39.2	995	55.7	1,415	5	5	3000	1,500	5	5	3000	1,500			
	129.9	3,300	84.6	2,150	171.1	4,345	154.5	3,925	45.1	1,145	61.6	1,565	5	5	3000	1,500	5	5	3000	1,500			
	157.5	4,000	74.0	1,880	198.8	5,050	182.3	4,630	34.4	875	51.0	1,295	5	5	2900	1,450	5	5	2950	1,475			
	177.2	4,500	80.5	2,045	218.3	5,545	201.8	5,125	40.9	1,040	57.5	1,460	5	5	2800	1,400	5	5	2850	1,425			
FFT	187.0	4,750	83.9	2,130	228.1	5,795	211.6	5,375	44.3	1,125	60.8	1,545	5	5	2700	1,350	5	5	2750	1,375			
	196.9	5,000	88.4	2,245	238.0	6,045	221.5	5,625	48.8	1,240	65.4	1,660	5	5	2600	1,300	5	5	2700	1,350			
	216.5	5,500	97.6	2,480	257.9	6,550	241,3	6,130	58.1	1,475	74.6	1,895	5	5	1950	975	5	5	2550	1,275			
	236.2	6,000	104.1	2,645	277.4	7,045	260.8	6,625	64.6	1,640	81.1	2,060	5	5	1300	650	5	5	2450	1,225			

B18T-7, B18TL-7

					F	ully Exter	nded Heig	ht		Free	Lift				R	ated Load	l Capaci	ties		
Mast		um Fork		.owered		Load	141							Single	Solid Ti	re		Single	Cushion 1	īre
type	He	ight	He	lght		Load krest		ut Load krest		Load krest	1	ut Load krest	Tilt	Angle	Load	l Cap.	Tilt /	Ingle	Load	l Cap.
		-											FWD	BWD	LC 24"	(500mm)	FWD	BWD	LC 24"	(500mm)
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	deg	deg	lb	kg	deg	deg	lb	kg
	118.1	3,000	78.7	2,000	159.3	4,045	141.7	3,600	5.1	130	5.1	130	5	7	3500	1,750	5	7	3500	1,750
	129.9	3'300	84.6	2,150	171.1	4,345	153.5	3,900	5.1	130	5.1	130	5	7	3500	1,750	5	7	3500	1,750
STD	137.8	3,500	88.6	2,250	178.9	4,545	161,4	4,100	5.1	130	5.1	130	5	7	3500	1,750	5	7	3500	1,750
	145.7	3,700	92.5	2,350	186.8	4,745	169.3	4,300	5.1	130	5.1	130	5	7	3500	1,750	5	7	3500	1,750
	157.5	4,000	100.4	2,550	198.6	5,045	181.1	4,600	5.1	130	5.1	130	5	7	3500	1,750	5	7	3500	1,750
	177.2	4,500	110.2	2,800	218,3	5,545	200.8	5,100	5.1	130	5.1	130	5	7	3300	1,650	5	7	3300	1,650
	106.3	2,700	72.8	1,850	147.4	3,745	130.9	3,325	33.3	845	49.8	1,265	5	5	3500	1,750	5	5	3500	1,750
FF	118.1	3,000	78.7	2,000	159.3	4,045	142.7	3,625	39.2	995	55.7	1,415	5	5	3500	1,750	5	5	3500	1,750
	129.9	3,300	84.6	2,150	171.1	4,345	154.5	3,925	45.1	1,145	61.6	1,565	5	5	3500	1,750	5	ś	3500	1,750
	157.5	4,000	74.0	1,880	198.8	5,050	182.3	4,630	34-4	875	51.0	1,295	5	5	3350	1,675	5	5	3400	1,700
	177.2	4,500	80.5	2,045	218.3	5,545	201.8	5,125	40.9	1,040	57.5	1,460	5	5	3200	1,600	5	5	3300	1,650
FFT	187.0	4,750	83.9	2,130	228.1	5,795	211.6	5,375	44.3	1,125	60.8	1,545	1 5	5	3050	1,525	5	5	3250	1,625
	196.9	5,000	88.4	2,245	238.0	6,045	221.5	5,625	48.8	1,240	65.4	1,660	5	5	2800	1,400	5	5	3150	1,575
	216.5	5,500	97.6	2,480	257.9	6,550	241.3	6,130	58.1	1,475	74.6	1,895	5	s	2050	1,025	5	5	3000	1,500
	236.2	6,000	104,1	2,645	277.4	7,045	260.8	6,625	64.6	1,640	81.1	2,060	5	5	1400	700	5	5	2800	1,400

B20T-7, B20TL-7

	i				F	ully Exter	ided Heig	ht		Free	Lift			·	ı	Rated Load	Capac	itles		
Mast		um Fork		owered		Load								Single	Solid Ti	ге		Single (ushion	Tire
type) He	ight	He	ight		krest		ut Lo ad krest		Load krest		ut Load krest	Tilt /	Angle	Loa	d Cap.	Tilt /	Ingle	Loa	d Cap.
					<u> </u>								FWD	BWD	LC 24"	(500mm)	FWD	BWD	LC 24"	(500mm)
	in	mm	in	mm	în	mm	in	mm	in	mm	in	mm	deg	deg	lb	kg	deg	deg	lb	kg
	118.1	3,000	78.7	2,000	159.4	4,050	141.9	3,605	5.1	130	5.1	130	5	7	4000	2,000	5	7	4000	2,000
	129.9	3,300	84.6	2,150	171.3	4,350	153.7	3,905	5.1	130	5.1	130	5	7	4000	2,000	5	7	4000	2,000
STD	137.8	3,500	88.6	2,250	179.1	4,550	161.6	4,105	5.1	130	5.1	130	5	7	4000	2,000	5	7	4000	2,000
	145.7	3,700	92.5	2,350	187.0	4,750	169.5	4,305	5.1	130	5.1	130	5	7	4000	2,000	5	7	4000	2,000
	157.5	4,000	100.4	2,550	198.8	5,050	181.3	4,605	5.1	130	5.1	130	5	7	4000	2,000	5	7	4000	2,000
	177.2	4,500	110.2	2,800	218.5	5,550	201.0	5,105	5.1	130	5.1	130	5	7	3900	1,950	5	7	4000	2,000
	105.3	2,700	72.8	1,850	147.6	3,750	131.1	3,330	33.3	845	49.8	1,265	5	5	4000	2,000	5	5	4000	2,000
FF	118,1	3,000	78.7	2,000	159.4	4,050	142.9	3,630	39.2	995	55.7	1,415	5	5	4000	2,000	5	5	4000	2,000
	129.9	3,300	84.6	2,150	171.3	4,350	154.7	3,930	45.1	1,145	61.6	1,565	5	5	4000	2,000	5	5	4000	2,000
	157.5	4,000	74.0	1,880	199.0	5,055	182.5	4,635	34.4	875	51.0	1,295	5	5	3900	1.050	5	5	4000	2,000
	177.2	4,500	80.5	2,045	218.5	5,550	202.0	5,130	40.9	1,040	57.5	1,460	5	5	3750	1,950 1,875	5	5	3950	1,975
FFT	187.0	4,750	83.9	2,130	228.3	5,800	211.8	5,380	44.3	1,125	60.8	1,545	5	5	3650	1,825	5	5	3850	1,925
	196.9	5,000	88.4	2,245	238.2	6,050	221.7	5,630	48.8	1,240	65.4	1,660	5	5	3600	1,800	5	5	3800	1,900
	216.5	5,500	97.6	2,480	258.1	6,555	241.5	6,135	58.1	1,475	74.6	1,895	5	5	3400	1,700	5	5	3600	1,800
	236.2	6,000	104.1	2,645	277.6	7,050	261.0	6,630	64.6	1,640	81.1	2,060	5	5	3150	1,575	5	5	3000	1,500

Note: These load capacities ae based on the standard chassis without side shifter.

Specification values quoted in this catalog have been rounded.

Products and specifications are subject to improvement and change without notice.

Performance may vary due to operating conditions.

The performance shown represents nominal values obtained under typical operating conditions.

B16X-7

					F	ully Exter	ided Heig	ht		Free	Lift					Rated Load	l Capac	lties		
Mast		um Fork	, -	owered		14	741							Single	Solid Ti	re		Single (Cushion 1	Гіте
type	l Hei	lght	He	ight		Load krest		ut Load krest		Load krest		ut Load krest	Tilt /	Ingle	Loa	d Cap.	Tilt /	Angle	Load	l Cap.
	ļ <u></u>												FWD	BWD	LC 24"	(500mm)	FWD	BWD	LC 24"	(500mm)
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	deg	deg	lb	kg	deg	deg	lb	kg
	118.1	3,000	78.7	2,000	159.3	4,045	141.7	3,600	5.1	130	5.1	130	5	7	3200	1,600	5	7	3200	1,600
	129.9	3,300	84.6	2,150	171.1	4,345	153.5	3,900	5.1	130	5.1	130	5	7	3200	1,600	5	7	3200	1,600
STD	137.8	3,500	88.6	2,250	178.9	4,545	161.4	4,100	5.1	130	5.1	130	5	7	3200	1,600	5	7	3200	1,600
	145.7	3,700	92.5	2,350	186.8	4,745	169.3	4,300	5.1	130	5.1	130	5	7	3200	1,600	5	7	3200	1,600
	157.5	4,000	100.4	2,550	198.6	5,045	181.1	4,600	5.1	130	5.1	130	5	7	3200	1,600	5	7	3200	1,600
	177.2	4,500	110.2	2,800	218.3	5,545	200.8	5,100	5.1	130	5.1	130	5	7	3200	1,600	5	7	3200	1,600
	106.3	2,700	72.8	1,850	147.4	3,745	130.9	3,325	33.3	845	49.8	1,265	5	5	3200	1,600	5	5	3200	1,600
FF	118.1	3,000	78.7	2,000	159.3	4,045	142.7	3,625	39.2	995	55.7	1,415	5	5	3200	1,600	5	5	3200	1,600
	129.9	3,300	84.6	2,150	171.1	4,345	154.5	3,925	45.1	1,145	61.6	1,565	5	5	3200	1,600	5	5	3200	1,600
	157.5	4,000	74.0	1,880	198.8	5,050	182.3	4,630	34.4	875	51.0	1,295	5	5	3200	1,600	5	5	3200	1,600
	177.2	4,500	80.5	2,045	218.3	5,545	201.8	5,125	40.9	1,040	57.5	1,460	5	5	3100	1,550	5	5	3050	1,525
FFT	187.0	4,750	83.9	2,130	228.1	5,795	211.6	5,375	44-3	1,125	60.8	1,545	5	5	3000	1,500	5	5	2950	1,475
	196.9	5,000	88.4	2,245	238.0	6,045	221.5	5,625	48.8	1,240	65.4	1,660	5	5	2900	1,450	5	5	2900	1,450
	216.5	5,500	97.6	2,480	257.9	6,550	241.3	6,130	58.1	1,475	74.6	1,895	5	5	2700	1,350	5	5	2700	1,350
	236.2	6,000	104.1	2,645	277.4	7,045	260.8	6,625	64.6	1,640	81.1	2,060	5	5	2500	1,250	5	5	2150	1,075

B18X-7

					Fi	ully Exter	ided Heig	ht		Free	Lift				R	ated Load	Capaci	ties		-
Mast		um Fork	Fully L	owered.										Single	Solid Ti	re		Single (Cushlon	Tire
type	He	lght	He	ight		Load krest		ut Load krest		Load krest		ut Load krest	Tilt /	Angle	Load	I Cap.	Tilt /	Ingle	Loa	d Cap.
]			000			FWD	BWD	LC 24"	(500mm)	FWD	BWD	LC 24"	(500mm)
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	deg	deg	lb	kg	deg	deg	lb	kg
	118.1	3,000	78.7	2,000	159.3	4,045	141.7	3,600	5.1	130	5.1	130	5	7	3600	1,800				
	129.9	3,300	84.6	2,150	171.1	4,345	153.5	3,900	5.1	130	5.1	130	5	7	3600	1,800	1			
STD	137.8	3,500	88.6	2,250	178.9	4,545	161.4	4,100	5.1	130	5.1	130	5	7	3600	1,800				
210	145.7	3,700	92.5	2,350	186.8	4,745	169.3	4,300	5.1	130	5.1	130	5	7	3600	1,800	n,	/a	r	1/a
	157.5	4,000	100.4	2,550	198.6	5,045	181.1	4,600	5.1	130	5.1	130	5	7	3600	1,800	!			
	177.2	4,500	110,2	2,800	218.3	5,545	200.8	5,100	5.1	130	5.1	130	5	7	3400	1,700				
	106.3	2,700	72.8	1,850	147.4	3,745	130.9	3,325	33.3	845	49.8	1,265	5	5	3600	1,800				
FF	118.1	3,000	78.7	2,000	159.3	4,045	142.7	3,625	39.2	995	55.7	1,415	5	5	3600	1,800	n,	/a	r	n/a
	129.9	3,300	84.6	2,150	171.1	4,345	154.5	3,925	45.1	1,145	61.6	1,565	5	5	3600	1,800			,	•
	157.5	4,000	74.0	1,880	198.8	5,050	182.3	4,630	34.4	875	51.0	1,295	5	5	3600	1,800				·
	177.2	4,500	80.5	2,045	218.3	5,545	201.8	5,125	40.9	1,040	57.5	1,460	5	5	3500	1,750				
FFT	187.0	4,750	83.9	2,130	228,1	5,795	211,6	5,375	44.3	1,125	60.8	1,545	5	5	3200	1,600		,		
	196.9	5,000	88.4	2,245	238.0	6,045	221.5	5,625	48.8	1,240	65.4	1,660	5	5	3100	1,550	n,	a	r	ı/a
	216.5	5,500	97.6	2,480	257.9	6,550	241.3	6,130	58.1	1,475	74.6	1,895	5	5	2950	1,475				
	236.2	6,000	104.1	2,645	277.4	7,045	260.8	6,625	64.6	1,640	81.1	2,060	5	5	2700	1,350				

B20X-7

					F	ully Exten	ided Heig	tht		Free	Lift				R	ated Load	Capaci	ties		
Mast		um Fork		owered.										Single	Solid Ti	re		Single (Cushion '	Tire
type	He	ight	He	ight		Łoad krest		ut Load krest		Load krest		ut Load krest	Tilt	Angle	Load	l Cap.	Tilt A	Ingle	Loa	d Cap.
												KICSE	FWD	BWD	LC 24" ((500mm)	FWD	BWD	LC 24"	(500mm)
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	deg	deg	lb	kg	deg	deg	lb	kg
	118.1	3,000	78.7	2,000	159.4	4,050	141.9	3,605	5.1	130	5.1	130	5	7	4000	2,000				, ,
	129.9	3,300	84.6	2,150	171.3	4,350	153.7	3,905	5.1	130	5.1	130	5	7	4000	2,000				
STD	137.8	3,500	88.6	2,250	179.1	4,550	161.6	4,105	5.1	130	5.1	130	5	7	4000	2,000				,
0.0	145.7	3,700	92.5	2,350	187.0	4,750	169.5	4,305	5.1	130	5.1	130	5	7	4000	2,000	n,	a	Г	ı/a
	157.5	4,000	100.4	2,550	198.8	5,050	181.3	4,605	5.1	130	5.1	130	5	7	4000	2,000				
	177.2	4,500	110.2	2,800	218.5	5,550	201.0	5,105	5.1	130	5.1	130	5	7	3800	1,900				
	106.3	2,700	72.8	1,850	147.6	3,750	131,1	3,330	33.3	845	49.8	1,265	5	5	4000	2,000				
FF	118.1	3,000	78.7	2,000	159.4	4,050	142.9	3,630	39.2	995	55.7	1,415	5	5	4000	2,000	n/	'a	r	ı/a
	129.9	3,300	84.6	2,150	171.3	4,350	154.7	3,930	45.1	1,145	61.6	1,565	5	5	4000	2,000				
	157.5	4,000	74.0	1,880	199.0	5,055	182.5	4,635	34.4	875	51.0	1,295	5	5	3800	1,900				
	177.2	4,500	80.5	2,045	218.5	5,550	202.0	5,130	40.9	1,040	57.5	1,460	5	5	3800	1,900		Ì		
FFT	187.0	4,750	83.9	2,130	228.3	5,800	211.8	5,380	44.3	1,125	60.8	1,545	5	5	3600	1,800		,		,
	196.9	5,000	88.4	2,245	238.2	6,050	221.7	5,630	48.8	1,240	65.4	1,660	5	5	3450	1,725	n/	a	n	n/a
	216.5	5,500	97.6	2,480	258.1	6,555	241.5	6,135	58.1	1,475	74.6	1,895	5	5	3300	1,650				
	236.2	6,000	104.1	2,645	277.6	7,050	261.0	6,630	64.6	1,640	81.1	2,060	5	5	3000	1,500				

Note: These load capacities ae based on the standard chassis without side shifter.

MAIN SPECIFICATIONS - 48V

(n	1	Model					B16X-7	B18X-7	B20X-7
CHARACTERISTICS	2	Load Capacity	at rated to	ad center		lb(kg)	3200 (1600)	3600 (1800)	4000 (2000)
<u>8</u>	3	Load Center			-	in(mm)	24 (500)	24 (500)	24 (500)
E,	4	Power type					AC Electric	AC Electric	AC Electric
ž	5	Operator type					Driver Seated	Driver Seated	Driver Seated
₹	6	Tire type	Р= рпеції	natic. F= soi	id, C= cushion		SE / P*	SE SE	
Ö	7	Wheels (x = driven)		front/rear		 	X 2/2		SE
	8	Max. Fork Height		2-stage mas	+	in (nome)		X 2/2	X 2/2
	9	Free Lift	WILLI STO	2-Stage IIIdS		in(mm)	130 (3300)	130 (3300)	130 (3300)
	10	Fork carriage	ISO Class			In(mm)	5.1 (130)	5.1 (130)	5.3 (135)
		Torredinage	130 Class			 	11		- 11
	11	Forks	Thickness	x Width x L	ength	in(mm)	1.4 / 3.9 / 41.3 (35 / 100 / 900)	1.4 / 3.9 / 41.3 (35 / 100 / 900)	1.6 / 3.9 / 41.3 (40 / 100 / 900)
			Fork Spac	ing (min. x r	nax.)	in(mm)	9.5 / 35.6 (240 / 905)	9.5 / 35.6 (240 / 905)	9.5 / 35.6 (240 / 90)
	12	Tilt of Mast	Forward /	Backward		deg	5/7	5/7	5/7
	13		Length to	Fork Face		in(mm)	83.4 (2120)	83.4 (2120)	83.6 (2125)
2	14		Overall Le	ngth		in (mm)	124.7 (3020)	124.7 (3020)	124.9 (3025)
DIGITATION	15		Overall Wi	dth		in(mm)	42.9 (1090)	44.1 (1119)	44.1 (1119)
į	16	Overall Dimensions	Mast Lowe	red Height		in(mm)	84.6 (2150)	84.6 (2150)	84.6 (2150)
5	17	7	Mast Exter	ided Height		in(mm)	171 (4345)	171 (4345)	
	18	1		Guard Heigi		in(mm)	79 (2010)		171.3 (4350)
	19	1	Seat Heigh			in(mm)		79 (2010)	79 (2010)
	20	Outer Turning Radius					36.2 (919)	36.2 (919)	36.2 (919)
	21	Inner Turning Radius				in(mm)	74.2 (1886)	74.2 (1886)	74.2 (1886)
			Contract	Idaa 2	E. J. E.	in(mm)	19.4 (494)	19.4 (494)	19.4 (494)
	22	Load Moment Center	Center of c	Irive axle to	fork face	in(mm)	14.8 (376)	14.8 (376)	15.0 (381)
	23	Right Angle Stacking Aisle Width (with Pallets &	48" x 40"	(1000 X 1200) Pallet	in(mm)	136.4 (3466)	136.4 (3466)	136.6 (3471)
	24	Clearance)		800 X 1200)		in(mm)	144.3 (3665)	144.3 (3665)	144.5 (3670)
	25	- .	Travel		Unloaded	mph(km/h)	10.6 / 10.6 (17 / 17)	10.6 / 10.6 (17 / 17)	10.6 / 10.6 (17 / 17)
	26	Speed	Lifting	Loaded /	Unloaded	fpm(mm/s)	79 / 118 (400 / 600)	79 / 118 (400 / 600)	79 / 118 (400 / 600)
	27	Lowering Loaded / Un			Unloaded	fpm(mm/s)	98/89 (500/450)	98/89 (500/450)	98/89 (500/450)
TOWN CHANGE	28	Max. Drawbar pull	Loaded at 1.0 mph			lb(kg)	2864 (1300)	2864 (1300)	2864 (1300)
	29	Max. Gradeability	Loaded at 1.0 mph			%	26	25	24
	30	Total weight	with min. weight of battery			lb(kg)	6858 (3111)	7233 (3281)	7630 (3461)
	31		Loaded, Fro			lb(kg)	9341 / 1045 (4237 / 474)	10033 / 1168	10738 / 1301
	32	Axle Load	Unloaded.	Front / Rear	<u></u>	lb(kg)	3748 / 3111	(4551 / 530) 3739 / 3494	(4871 / 590) 3730 / 3900
\dashv	33		·	Front			(1700 / 1411) 18x7-8 (a)	(1696 / 1585) 200X50-10	(1692 / 1769)
	34	Tires	Size	Rear			16x6-8 (b)	16x6-8	200X50-10
	35	Wheel Base	Distance			In(mm)		_	16x6-8
ŀ					_		58.8 (1495)	58.8 (1495)	58.8 (1495)
	36	Tread Width	Front			In(mm)	35.5 (902)	35.9 (912)	35.9 (912)
	37		Rear			in(mm)	35 (890)	35 (890)	35 (890)
Ĺ	38	Ground clearance	Loaded	at lowest		in(mm)	3.4 (86)	3.4 (86)	3.4 (86)
	39	STORTIS CIEGIGIICE	Foducti	at center	of wheel base	in(mm)	3.9 (100)	3.9 (100)	3.9 (100)
ſ	4.0	Brabas	Service		-		hydraulic	hydraulic	hydraulic
	40	Brakes	Parking				auto-electric	auto-electric	auto-electric
\top			Туре		· · · · ·		lead-acid	lead-acid	lead-acid
			Voltage			V	48		
				T	BS type	AH		48	48
			Capacity	Nominal			585	585	585
			(5 Hours		DIN type	AH	575	575	575
			Rating)	Max.	BS type	AH	690	690	690
1		Patron,	L	<u> </u>	DIN type	AH	625	625	625
	41	Battery			Normal	in(mm)	25.1 X 39.1 X 27.5 (638 X 992 X 698)	25.1 X 39.1 X 27.5 (638 X 992 X 698)	25.1 x 39.1 x 27.5 (638 x 992 x 698)
			Battery corr sizes (W x L Max.	partment x H)	BS Type	In(mm)	25.1 (23.9) x 39.1 x 27.5 (638 (608) x 992 x 698)**	25.1 (23.9) x 39.1 x 27.5 (638 (608) x 992 x 698)**	25.1 (23.9) x 39.1 x 27.1 (638 (608) x 992 x 698)
			-21000		DIN Type	in(mm)	25.1 x 39.1 (33.1) x 27.5 (638 x 992 (842) x 698)***	25.1 x 39.1 (33.1) x 27.5 (638 x 992 (842) x 698)***	25.1 x 39.1 (33.1) x 27.5 (638 x 992 (842) x 698)**
			Weight (min	/max)	t	lb(kg)	2315 / 2755	2315 / 2755	2315 / 2755
-			Delice		<i>(</i>		(1050 / 1250)	(1050 / 1250)	(1050 / 1250)
	42	Electric Motors	Drive motor			kW	6.0 X 2	6,0 X 2	6.0 X 2
			Lifting moto		3 15%	kW	14	14	14
-	43	Control Type	Drive and H	/draulic		type	AC AC		
L	44	Drive Axle	Brake type			type	ODB	ODB	ODB
	45	Relief Pressure				psi (kPa)	2880 (19860)	2880 (19860)	3125 (21550)
-	. 7	1/202111592NIS				psi (kPa)	2010 (21000)		
Ī	46		Attachment			partikra)	2040 (14000)	2040 (14000)	2040 (14000)

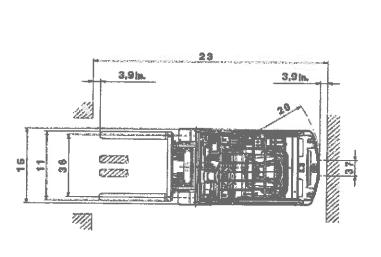
^{*}Optional (a) Pneumatic Tires 18 x 7 - 8 ** if the operator uses a B5 Type Battery (608mm length/575, 630, 690AH/5h capacity), a special accessory (stopper) should be chosen.

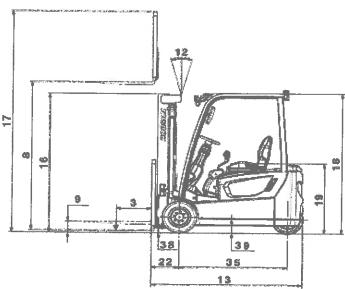
B15T-7	B18T-7	B18TL-7	B20T-7	B2oTL-7
3000 (1500)	3500 (1750)	3500 (1750)	4000 (2000)	4000 (2000)
24 (500)	24 (500)	24 (500)	24 (500)	24 (500)
AC Electric	AC Electric	AC Electric	AC Electric	AC Electric
Driver Seated	Driver Seated	Driver Seated	Driver Seated	Driver Seated
SE / C*	SE / C*	SE / C*	SE / C*	SE/C*
X 2 /1	X 2 /1	X2/1	X 2 /1	X 2 /1
130 (3300)	130 (3300)	130 (3300)	130 (3300)	130 (3300)
5.1 (130)	5.1 (130)	5.1 (130)	5.3 (135)	5.3 (135)
II	[I	11	11	J-5 (-5)//
1.4 / 3.9 / 41.3	1.4 / 3.9 / 41.3	44/20/42	-611	
(35 / 100 / 900)	(35 / 100 / 900)	1.4 / 3.9 / 41.3 (35 / 100 / 900)	1.6 / 3.9 / 41.3 (40 / 100 / 900)	1.6 / 3.9 / 41.3 (40 / 100 / 900)
9.5 / 35.6 (240 / 905)	9.5 / 35.6 (240 / 905)	9.5 / 35.6 (240 / 905)	9.5 / 35.6 (240 / 905)	9.5 / 35.6 (240 / 905)
5/7	5/7	5/7	5/7	5/7
74.4 (1891)	78.4 (1991)	83.9 (2132)	79.9 (2029)	84.1 (2137)
115.7 (2791)	119.7 (2891)	125.2 (3032)	121.2 (2929)	125.4 (3037)
42.9 (1090)	42.9 (1090)	42.9 (1090)	44.1 (1119)	44.1 (1119)
84.6 (2150)	84.6 (2150)	84.6 (2150)	84.6 (2150)	84.6 (2150)
171 (4345)	171 (4345)	171 (4345)	171.3 (4350)	171.3 (4350)
79 (2010)	79 (2010)	79 (2010)	79 (2010)	79 (2010)
36.2 (919)	36.2 (919)	36.2 (919)	36.2 (919)	36.2 (919)
59.6 (1515)	63.6 (1615)	69.1 (1756)	64.9 (1648)	
-	- 20-1 (2)	471. (41.34)	04.9 (1040)	69.1 (1756)
14.8 (376)	14.8 (376)	14.8 (376)		
		14.6 (3/6)	15.0 (381)	15.0 (381)
126.6 (3216)	130.5 (3316)	136.1 (3457)	132 (3354)	136.3 (3462)
	135.5 (3441)	141.0 (3582)	137 (3479)	141.2 (3587)
10.6 / 10.6 (17 / 17)	10.6 / 10.6 (17 / 17)	10.6 / 10.6 (17 / 17)	10.6 / 10.6 (17 / 17)	10.6 / 10.6 (17 / 17)
79 / 118 (400 / 600)	79 / 118 (400 / 600)	79 / 118 (400 / 600)	79 / 118 (400 / 600)	79 / 118 (400 / 600)
98/89 (500/450)	98/89 (500/450)	98/89 (500/450)	98/89 (500/450)	98/89 (500/450)
2864 (1300)	2864 (1300)	2864 (1300)	2864 (1300)	2864 (1300)
26	25	25	24	24
6675 (3028)	6927 (3142)	7348 (3333)	7654 (3472)	7348 (3333)
8792 / 1190	9607 / 1177	9638 / 1569		
(3988 / 540) 3296 / 3379	(4358 / 534)	(4372 / 712)	10672 / 1391 (4841 / 631)	10513 / 1243 (4769 / 564)
(1495 / 1533)	3373 / 3553 (1530 / 1612)	3604 / 3743 (1635 / 1698)	3578 / 4076 (1623 / 1849)	3604 / 3743 (1635 / 1698)
18x7-8 (c)	18x7-8 (c)	18x7-8 (c)	200X50-10 (c)	200X50-10 (c)
15x4.5-8 (d)	15x4.5-8 (d)	15x4.5-8 (d)	16x6-8 (d)	16x6-8 (d)
52 (1323)	56 (1423)	61.2 (1554)	57 (1446)	61.2 (1554)
35.5 (902)	35.5 (902)	35.5 (902)		
6.6 (167)			35.9 (912)	35.9 (912)
	6.6 (167)	6.6 (167)	7.9 (201)	7.9 (201)
3.4 (86)	3.4 (86)	3.4 (86)	3.4 (86)	3.4 (86)
3.9 (100)	3.9 (100)	3.9 (100)	3.9 (100)	3.9 (100)
hydraulic	hydraulic	hydraulic	hydraulic	hydraulic
auto-electric	auto-electric	auto-electric	auto-electric	auto-electric
lead-acid	lead-acid	lead-acid	lead-acid	lead-acid
48	48	48	48	48
440	510	600	585	600
460	525	690	575	690
575	690		690	- 690
500	625	750		
20.8 x 39.1 x 27.5		750	625	750
(528 x 992 x 698)	25.1 x 39.1 x 27.5 (638 x 992 x 698)	29.4 × 39.1 × 27.5 (746 × 992 × 698)	25.1 x 39.1 x 27.5 (638 x 992 x 698)	29.4 x 39.1 x 27.5 (746 x 992 x 698)
20.8 x 39.1 x 27.5 (528 x 992 x 698)	25.1 (23.9) x 39.1 x 27.5 (638 (608) x 992 x 698) (c)		25.1 (23.9) x 39.1 x 27.5 (638 (608) x 992 x 698) (c)	-
0.8 x 39.1 (33.1) x 27.5 28 x 992 (842) x 698) (d)	25.1 x 39.1 (33.1) x 27.5 (638 x 992 (842) x 698) (d)	29.4 x 39.1 (33.1) x 27.5 (746 x 992 (842) x 698) (d)	25.1 x 39.1 (33.1) x 27.5 (638 x 992 (842) x 698)(d)	29.4 × 39.1 (33.1) × 27.5 (746 × 992 (842) × 698) (d)
1543 / 1836 (700 / 833)	1764 / 2330 (800 / 1057)	2205 / 2330 (1000 / 1057)	2205 / 2755 (1000 / 1250)	2205 / 2755 (1000 / 1250)
6.0 X 2	6.0 X 2	6.0 X 2	6.0 X 2	6.0 X 2
14	14	14	14	
AC	AC	AC	AC AC	14 AC
ODB	OD8	ODB	ODB	
2550 (17600)	2880 (19860)	2880 (19860)	 	ODB
2040 (14000)			3125 (21550)	3125 (21550)
2940 (24000)	2040 (14000)	2040 (14000)	2040 (14000)	2040 (14000)
20	20	20		

MAIN SPECIFICATIONS - 36V

တ္သ	1	Model					B15T-7	B18T-7	B20T-7	
CHARACTERISTICS	2	Load Capacity	at rated to	oad center		lb(kg)	3000 (1500)	3500 (1750)	4000 (2000)	
ř	3	Load Center				in(mm)	24 (500)	24 (500)	24 (500)	
Ş	4	Power type					AC Electric	AC Electric	AC Electric	
\$	5	Operator type				<u> </u>	Driver Seated	Driver Seated	Driver Seated	
쿬	6	Tire type	P= pneum	natic, E= sol	id, C≔ cushion		C / SE*	C / SE*	C / SE*	
	7	Wheels (x = driven)	number of	f front/rear			X 2 /1	X 2 /1	X 2 /1	
	8	Max. Fork Height	with STD 2	2-stage mas	t	In(mm)	130 (3300)	130 (3300)	130 (3300)	
	9	Free Lift				ln(mm)	5.1 (130)	5.1 (130)	5.3 (135)	
	10	Fork carriage	ISO Class				II	11	II	
	11	Forks	Thickness	x Width x Le	ength	in(mm)	1.4 / 3.9 / 41.3 (35 / 100 / 900)	1.4 / 3.9 / 41.3 (35 / 100 / 900)	1.6 / 3.9 / 41.3 (40 / 100 / 900)	
				ing (min. x m	nax.)	in(mm)	9.5 / 35.6 (240 / 905)	9.5 / 35.6 (240 / 905)	9.5 / 35.6 (240 / 905	
	12	Tilt of Mast	Forward /			deg	5/7	5/7	5/7	
	13	_	Length to i	Fork Face		In(mm)	74.4 (1891)	78.4 (1991)	79.9 (2029)	
2	14	_	Overall Lei	ngth	_	in(mm)	115.7 (2791)	119.7 (2891)	121.2 (2929)	
2	15	_	Overall Wi	dth		in(mm)	42.9 (1090)	42.9 (1090)	42.9 (1090)	
	16	Overall Dimensions		ered Height		in(mm)	78.7 (2000)	78.7 (2000)	78.7 (2000)	
2	17	4	Mast Exter	nded Height		în(mm)	159.3 (4045)	159.3 (4045)	159.4 (4050)	
	18	1	Overhead	Guard Heigh	nt	in(mm)	79 (2010)	79 (2010)	79 (2010)	
	19		Seat Heigh	ıt	•	in(mm)	36.2 (919)	36.2 (919)	36.2 (919)	
	20	Outer Turning Radius				in(mm)	59.6 (1515)	63.6 (1615)	64.9 (1648)	
	21	Inner Turning Radius				in(mm)	-			
	22	Load Moment Center	Center of d	frive axle to	fork face	in(mm)	14,8 (376)	14.8 (376)	15,0 (381)	
	23	Right Angle Stacking	48" x 40"	(1000 X 1200) Pallet	in(mm)	126.6 (3216)			
	<u> </u>	Aisle Width (with Pallets &	7- 170		7 1 4 11 11		120.0 (3210)	130.5 (3316)	132 (3354)	
	24	Clearance)		(800 X 1200)	Pallet	In(mm)	131.5 (3341)	135.5 (3441)	137 (3479)	
	25		Travel	Loaded /	Untoaded	mph(km/h)	8.7/8.7 (14.0/14.0)	8.7/8.7 (14.0/14.0)	8.7/8.7 (14.0/14.0)	
	26	Speed	Lifting	Loaded /	Unloaded	fpm(mm/s)	61/108 (310/550)	61/108 (310/550)	61/108 (310/550)	
	27		Lowering	Loaded /	Unloaded	fpm(mm/s)	98/89 (500/450)	98/89 (500/450)	98/89 (500/450)	
	28	Max. Drawbar pull	Loaded at :	t.o mph		lb(kg)	2734 (1240)	2734 (1240)	2734 (1240)	
	29	Max. Gradeability	Loaded at :	1.0 mph		%	24	23	22	
	30	Total weight	with min. w	veight of bat	tery	lb(kg)	6821 (3094)	7072 (3208)	7910 (3588)	
	31	Axle Load	Loaded, Fro	ont / Rear		lb(kg)	8858 / 1269 (4018 / 576)	9673 / 1256 (4388 / 570)	10785 / 1534 (4892 / 696)	
_	32 33		Unloaded,	Front / Rear	· · ·	lb(kg)	3362 / 3459 (1525 / 1569)	3439 / 3633 (1560 / 1648)	3688 / 4221 (1673 / 1915)	
	34	Tires	Size	Rear			18x7x12,12	18x7x12,12	18X7X12.12	
	35	Wheel Base	Distance	near		in()	15x6x11,25	15X6X11,25	15X6X11.25	
	36	-riicei base	Front			in(mm)	52 (1323)	56 (1423)	57 (1446)	
	37	Tread Width	Rear		· · ·	in(mm)	35.5 (902)	35.5 (902)	35.5 (902)	
	38		isedi	at lowest		in(mm)	7.8 (198)	7.8 (198)	7.8 (198)	
ł	39	Ground clearance	Loaded			in(mm)	3.4 (86)	3.4 (86)	3.4 (86)	
	27		5ervice	at cellier	of wheel base	in(mm)	3.9 (100)	3.9 (100)	3.9 (100)	
	40	Brakes	Parking				hydraulic	hydrautic	hydraulic	
\dashv							auto-electric	auto-electric	auto-electric	
			Type				lead-acid	lead-acid	lead-acid	
			Voltage	Me	DC t	V	36	36	36	
-			Capacity (5 Hours	Nominal	BS type	AH	660	825	825	
			Rating)	Max.	BS type	ΛH	770	970	970	
	41	Battery	Battery com sizes (W x L	ipartment x H)	Normal	in(mm)	20.8 x 39.1 x 27.5 (528 x 992 x 698)	25.1 × 39.1 × 27.5 (638 × 992 × 698)	25.1 x 39.1 x 27.5 (638 x 992 x 698)	
			Max.		BS Type	in(mm)	20.8 x 39.1 x 27.5 (528 x 992 x 698)	25.1 X 39.1 X 27.5 (638 X 992 X 698)	25.1 x 39.1 x 27.5 (638 x 992 x 698)	
			Welght (min	ı/max)		lb(kg)	1543 / 2083 (760 / 945)	1764 / 2645 (800 / 1200)	2315 / 2645	
			Drive motor	rating at S2	60 minute	kW	6.0 X 2	6.0 X 2	(1050 / 1200) 6.0 x 2	
	42	Electric Motors				kW	14			
ı	43	Control Type	Lifting motor rating at S3 15% Drive and Hydraulic			type	AC AC	14 ac	14	
t	44	Drive Axle	Brake type			type	ODB	AC AC ODB ODB		
H	45		System			psi (kPa)	2550 (17600)		ODB	
. !	10	Relief Pressure						2880 (19860)	3125 (21550)	
-	46		Attachment		ı	psi (kPa)	2040 (14000)	2040 (14000)	2040 (14000)	

DIMENSIONAL DRAWING - 3-wheel





DIMENSIONAL DRAWING - 4-wheel

