



B15T/B18T/B20T-7  
B16X/B18X/B20X-7

## Doosan 7 Series

3 & 4 Wheel Electric Forklifts  
3,000 lb. to 4,000 lb. Capacity



# Leading the Way

Our 7 Series 3 Wheel and 4 Wheel electric counterbalance forklifts continue the Doosan tradition of delivering impressive performance, at the best possible value for our customers.

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

Extended maintenance intervals and advanced technology components reduce the overall cost of ownership. The latest AC control systems provide an unbeatable combination of power and reliability. Select components are customizable to perfectly fit an operator's requirements, while providing maximum control and productivity.



## Powerful & Reliable Technology

Outfitted with the latest technology from Curtis Instruments, the Doosan 7 Series provides a winning combination of performance and functionality. The Curtis AC 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.

## Latest in Safety & Technology

The newly developed **E-motor Foot Brake (EFB)** reduces foot pedal fatigue and replaces traditional hydraulic brakes with the electric motor controlled brakes.

The Electromagnetic Auto Parking Brake provides the operator with safety and convenience. Whenever the operator leaves the seat, the truck's parking brake is automatically applied with a superior ramp-hold function. There is no danger of the machine rolling away, even if it is left unattended on a ramp or a slope.

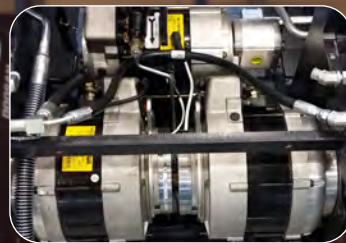
## 7 SERIES ELECTRIC FORKLIFTS 3,000 lb. to 4,000 lb. Capacity



**Curtis Controller**  
Reliable, Stable Operation  
IP65 Rated



**Enclosed Drive & Pump Motor**  
Simple, Powerful  
IP43 Rated



**Optimized Steer Angle**  
BT (3 Wheel Truck): 90°  
BX (4 Wheel Truck): 86°



**Rounded Counterweight Design**



**Easy and Instinctive  
Instrument Panel**



### Maximized Productivity in Warehouse Applications

Efficient 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 steer axle designs which have been carefully engineered to minimize the turning radius and can now achieve an outstanding 86° steer angle. In addition, the rounded design of the counter-weight enables the truck to move comfortably in and out of narrow spaces, reducing damage.

### Outdoor Operations

The Doosan 7 Series electric forklifts are water resistant and are safe for outdoor use. The sealed controllers are rated IP65 and the motors are rated IP43, with silicone seals on all related wiring and connectors. This means they are fully protected from dust, debris and moisture allowing them to be used outdoors with no problems.

## Increased Visibility, Optimum Safety

Precision designed with angled roof bars, the overhead guard profile 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.

The chains and 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.

Doosan's standard Rear Grab Handle makes reversing more comfortable and safe. The easy grip handle is positioned ergonomically for the operator's to locate effortlessly, instead of around the overheard guard, which could lead to hand injuries. The integrated horn button allows the operator to keep one hand on the handle without having to reach for the steering wheel.

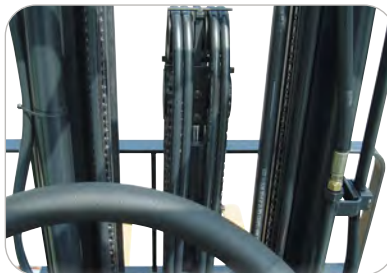


**Rear Grab Handle**  
Adds to safety, comfort and convenience when traveling in reverse.



**Panoramic Mirror**

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



**Neatly arranged Hydraulic Hoses**

Reduce clutter and provide better visibility.



**LED Lights**

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

## E-motor Foot Brake (EFB)

- The new 7 Series EFB replaces hydraulic brakes by utilizing the electric motor controller to stop the truck
- Uses less pedal force for decreased ankle fatigue
- Simple brake structure reduces maintenance costs





## Ergonomic Design

Operators perform best when they are comfortable in their working conditions, 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 operator's individual preferences. All of the control functions and displays are thoughtfully arranged for maximum comfort. In addition, operators can control the truck's performance settings during operation, simply by navigating the instrument panel. The Doosan finger-tip control system and the mechanical hydraulic levers enable the easiest operation imaginable.



**Fully Adjustable  
Steering Column**



**Fully Adjustable  
Suspension Seat**



**Operator Convenience  
Tray**



## Easy to Control

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

**Gen 2 Finger-tip Controls:** Advanced ergonomics provide optimal performance. These fast, precise and instinctive controllers make operating the Doosan 7 Series effortless and efficient.



**Ergonomic Placement  
of Hydraulic Controls**



**Advanced Fingertip  
Controls (Option)**



**Complete Operator  
Comfort &  
Convenience**



## Ease of Access Ensures Maximum Safety

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

- Large step plate with an anti-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 ease of operation



**Three-Point Entry/  
Exit System**



**Fatigue Reducing  
Floor Mat**



**Large Open Floorplate,  
Increased Leg Room**





## Maximum Safety & Stability, the Doosan Guardian Stability System (GSS)

Doosan equipment is designed to promote safe and stable operation. Doosan's Guardian Stability System (GSS) will dynamically protect the operator and the load to reduce the risk of accidents. The 7 Series meets all current demands for operator safety and machine stability in every application.

### Doosan Safety - Key Features

#### Guardian Stability System (GSS)

- 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°

#### Quiet & Smooth Operation

A cushioned modulating hydraulic valve is included in the secondary cylinder of FF and FFT masts to prevent staging noise. This results in quiet operation and longer mast life.

#### Battery Discharge Indicator

Lifting will be disabled if the battery is discharged to 20% during operation.

#### 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.

#### Unlimited Ramp Hold

The Electromagnetic 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.

#### Neutral Safety Switch

If the truck is in forward or reverse mode, it must be returned to neutral mode before operation can begin.

#### Automatic Speed Control

Angle sensors control the travel speed in sharp turns. The truck automatically reduces travel speed for safety when turning corners.

#### Operator Sensing System (OSS)

Should the operator leave the seat, OSS automatically restricts vital operations such as:

- Truck movement
- Lift, lower, tilt functions
- Seat belt warning light reminds the operator to fasten belt
- Directional lever must be in the neutral position to start the truck

#### Seat Belt Indicator

A warning light in the instrument panel will flash when the seat belt is unfastened.

#### Turtle Mode

Reduces travel speed to a previously set parameter without affecting lift speed.

#### Auto Tilt Leveling (Optional)

Returns the mast to vertical position easily by tilt angle sensing.





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

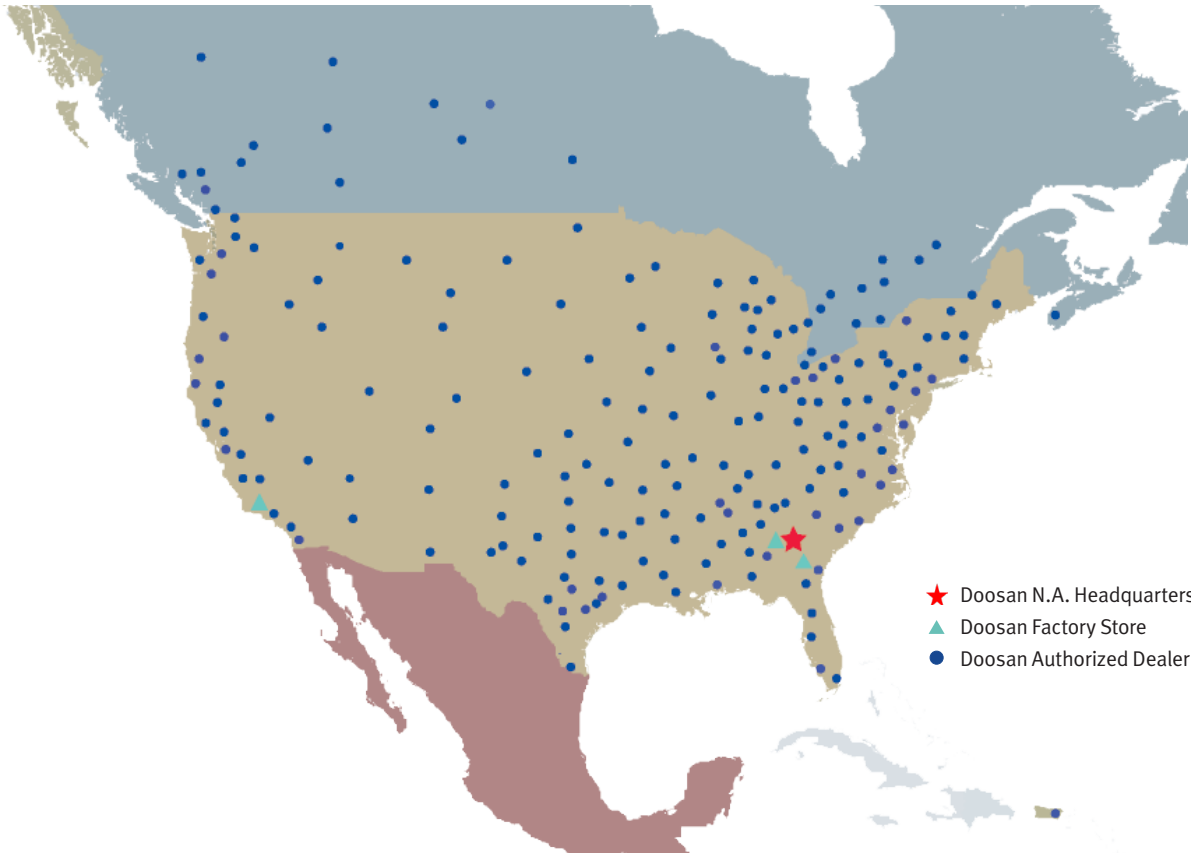


**B18X-7 Series**  
B16/18/20X-7  
48V, 4 Wheel truck

Major Specification		B15T-7	B18T-7	B20T-7	B16X-7	B18X-7	B20X-7
Classification		3 Wheel Electric			4 Wheel Electric		
Capacity	lb	3,000	3,500	4,000	3,200	3,600	4,000
Load Center	in	24					
Wheel Base	in	52.1	56.0	56.9	58.9	58.9	58.9
Turning Radius	in	59.6	63.6	64.9	74.3	74.3	74.3
Load Moment Center	in	14.8	14.8	15	14.8	14.8	15
Travel Speed	mph	10.6					
Lift Speed (U/L)	ft/s	1.3 / 2.0					
Lowering Speed (U/L)	ft/s	1.6 / 1.5					
Max. Gradeability (at 1.0 mph, Loaded)	%	26	25	24	26	25	24
Max. Drawbar Pull (Loaded)	ft.lbf	2,864					
Right Angle Stacking Aisle Width; 39.4 x 47.2	in	126.6	130.6	132.1	136.5	136.5	136.7
Right Angle Stacking Aisle Width; 31.5 x 47.2	in	131.5	135.5	137.0	144.3	144.3	144.5
Steer Angle	deg.	90	90	90	86	86	86

## Standard & Optional Features

<b>Safety &amp; Stability, Guardian Stability System (GSS)</b>	<b>Standard</b>	<b>Option</b>
OSS (Operator Sensing System)	<input type="radio"/>	
Neutral Safety Switch	<input type="radio"/>	
Unlimited Ramp Hold	<input type="radio"/>	
Battery Discharge Indicator	<input type="radio"/>	
Seat Belt Indicator	<input type="radio"/>	
(ISO 3691) Mast Lowering Inter-Lock & Tilt Lock	<input type="radio"/>	
Rear Grab Handle	<input type="radio"/>	
Emergency Stop Switch	<input type="radio"/>	
Guardian Stability System	<input type="radio"/>	
- Decreased Travel Speed (Up to 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		
- Automatic Speed Control when turning Corners		
Auto Tilt Leveling		<input type="radio"/>
<b>Productivity</b>	<b>Standard</b>	<b>Option</b>
E-Motor Foot Brake (EFB)	<input type="radio"/>	
Full AC System Chassis	<input type="radio"/>	
Rounded Counterweight	<input type="radio"/>	
IP65 Rated Curtis Controller	<input type="radio"/>	
IP43 Rated PAL Enclosed Motors	<input type="radio"/>	
86° (BX)/ 90° (BT) Steer Angle	<input type="radio"/>	
Electromagnetic Automatic Parking Brake (EPB)	<input type="radio"/>	
Cushion Tires, Super Elastic and Pneumatic Tires Standard by Model		<input type="radio"/>
Cushioned Hydraulic Valve in Secondary Cylinder (FFL & FFT)		<input type="radio"/>
Accessory for DIN Type Battery Installation		<input type="radio"/>
Battery Roller System		<input type="radio"/>
Cooling Options: Fans & Fin Type Controller		
Application Packages: Cooler & Freezer		<input type="radio"/>
<b>Operator Comfort (Ergonomics)</b>	<b>Standard</b>	<b>Option</b>
Easy Grip Entry Bar & Large Step Plate with Anti-Slip Pattern	<input type="radio"/>	
Large & Angled Floor Plate (Leg Room) with Rubber Cushion	<input type="radio"/>	
Rounded Battery Cover	<input type="radio"/>	
Easy to Read Instrument Panel	<input type="radio"/>	
Adjustable Tilt Steering Column & Easy Grip (Size Φ280) Steering Wheel	<input type="radio"/>	
Hydraulic Control Lever with Direction Switch	<input type="radio"/>	
Large Cup Holder, USB Port & 12V Power Outlet, Clipboard Holder	<input type="radio"/>	
LED Lights (2 Front/1 Rear Flood)	<input type="radio"/>	
Finger-Tip Control		<input type="radio"/>
Premium Seat: Grammer MSG65 Series		<input type="radio"/>
Panoramic Mirror		<input type="radio"/>
Special Height Overhead Guards		<input type="radio"/>
Mono Pedals		<input type="radio"/>
Modular Cabin		<input type="radio"/>
<b>Durability &amp; Serviceability</b>	<b>Standard</b>	<b>Option</b>
Robust Frame & Overhead Guard	<input type="radio"/>	
Easy to Access Controller & Motors	<input type="radio"/>	
Wide Opening Battery Cover	<input type="radio"/>	
Tool Feww Side Cover with Air Ventilation	<input type="radio"/>	
Durable Heat-Resisting (38" SQ)Cables	<input type="radio"/>	
Easy Diagnostic & Fine-Tune	<input type="radio"/>	



- ★ Doosan N.A. Headquarters
- ▲ Doosan Factory Store
- Doosan Authorized Dealer

### ***Doosan's North American Dealer Network***

With a vast dealer support network providing nearly 200 servicing locations nationwide, Doosan provides superior material handling solutions for your specific needs. From energy efficient electrics to robust internal combustion forklifts, Doosan is your full-line provider.



Doosan Industrial Vehicle America Corp.  
 2475 Mill Center Parkway, Suite 400  
 Buford, GA 30518  
 p. 678-745-2200  
 f. 678-745-2250  
[www.doosanlift.com](http://www.doosanlift.com)

AUTHORIZED DEALER

PSCBTBX7-V3

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