



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

## 7 PLUS SERIES FORKLIFTS

Electric 1.5 to 2.0 ton capacity 3 & 4 Wheel



# Leading the way

The new world class 7 PLUS Series trucks from Doosan

The new 7 PLUS Series of 3 and 4 wheel electric counterbalance forklift trucks, continue to follow the core Doosan tradition of delivering simple, powerful performance, whilst most of all, delivering the best possible value for our customers.

The specially designed ergonomic operator compartment keeps the operator in complete control at all times, improving productivity and reducing stress and fatigue. The new model offers improved visibility and the latest design in ergonomic hydraulic controls. Thanks to an improved durable design and an additional stability system, Doosan's new 7 Series electric trucks exceed the highest demands for safe operation.

Extended maintenance intervals and advanced technology components reduce the overall cost of maintenance. The latest in AC control systems provide an unbeatable combination of power, performance and reliability. Each parameter is fully adjustable to perfectly match every your individual requirement, providing maximum control and accuracy for every function.

“  
Higher lifting and travel speed  
helps me to complete my job  
efficiently  
”

PRODUCTIVITY

- Efficient performance
- Tight turning radius
- Optimized steering angle
- Excellent visibility



“  
With the reassuring features of  
Doosan truck, operation is safe  
and comfortable  
”

SAFETY AND ERGONOMICS

- Auto parking brake
- Unlimited ramp hold
- Operator Sensing System(OSS)
- Guardian Stability System(GSS)



“  
The Doosan service support  
network has never let me down  
”

SERVICEABILITY

- Doosan service network coverage
- Quick service response
- Easy to fix design



# Features overview

Power, excellent performance, driving comfort, durability, and outstanding fuel efficiency will certainly satisfy you.

## LOWER NOISE LEVEL

- We have significantly reduced the noise level
- New low-noise axle
- New sound suppression

## ALL-ROUND BRAKING SYSTEM

- We have enhanced the safety feature with Doosan’s brake system
- EPB(Electric Parking Brake)
- EFB(Electric Foot Brake)
- Unlimited Ramp Hold

## WATERPROOF FOR OUTDOOR

- The waterproofing ability allows better operation during outdoor use.
- Front motor Cover
- Belly plate option
- Controller cover option

## COOLING PERFORMANCE

- Based on your feedback, we have improved the cooling system of the drive motor.
- Drive motor cooling fan

## CONVENIENCE

- From vehicle boarding to vehicle maintenance, Plus offers enhanced convenience such as:
- New Doosan Seat Launching
- NFC Start Option

## SAFETY

- Mast control
- Drive speed control
- Safety Light options available
- Smart zone speed control (Option)

## ACCESSORY OPTIONS

- We offer a built-in accessory bar
- Various types of accessories as an option.

## NEW OPTION

- New Doosan Modular Cabin
- New Quad Mast



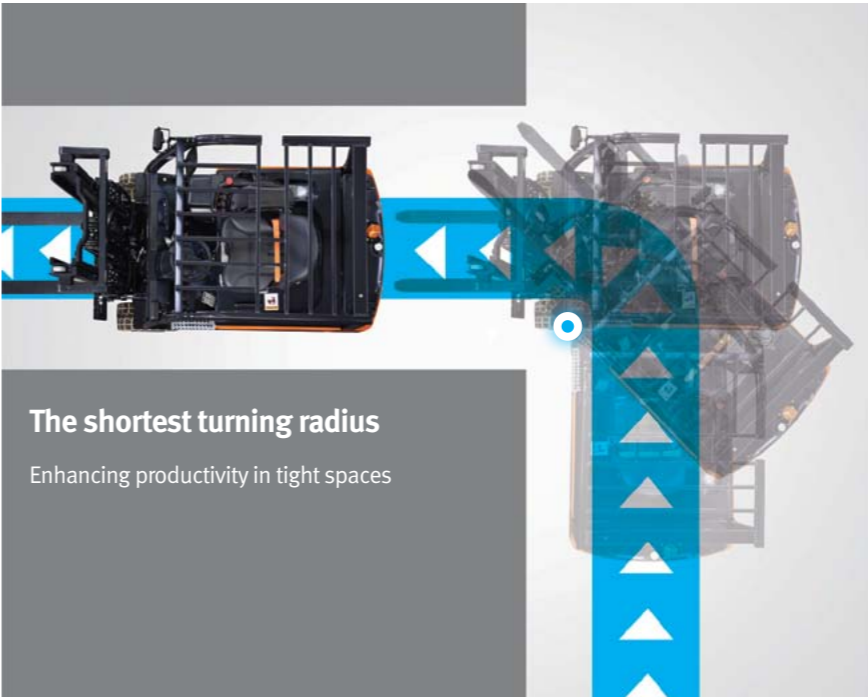
# DOOSAN

## PERFORMANCE



Productivity gains








**The shortest turning radius**  
Enhancing productivity in tight spaces

**Optimized Steering Angle**


By optimizing the counter weight design and steering angle, turning radius is minimized. It delivers great maneuverability in narrow aisle.






**Excellent visibility**

The precise designed overhead guard profile with angled roof bars provide a clear view upwards whilst ensuring ultimate strength for safety.



**Battery changing system**

This allows the battery to slide out of the side of the battery compartment for easier and faster battery exchange.

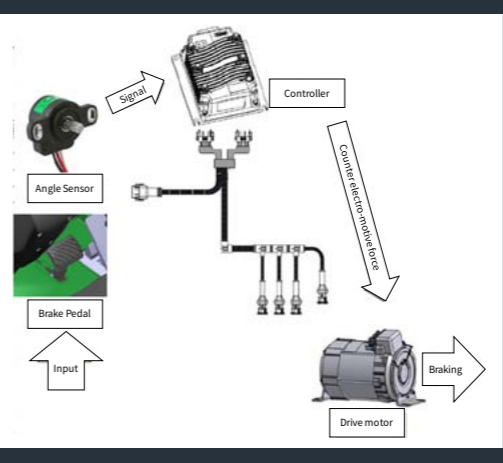


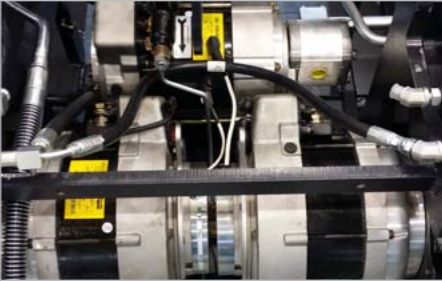
**Reliable Operation**

Curtis AC controllers provide an unbeatable combination of power, performance and functionality. They are very reliable and well proven.

**E-motor Foot Brake (EFB)**

- The EFB activates braking by controlling the motor electrically instead of the conventional hydraulic brake.
- It brings less pedal force and ankle fatigue of operator.
- This simple brake structure makes it less troublesome and reduces maintenance costs.





**IP43 dust and water protection Drive and Pump**

The new sealed controllers are rated to IP65 and the motors are rated to IP43 proven.

Enhanced safety features



Unlimited ramp hold (Auto parking brake)

The electro-magnetic auto parking brake (EPB) prevents the forklift from rolling back if the truck is stopped on a slope. Operators can dismount the truck easily without braking.



Automatic Speed Control

The angle sensing information controls the travel speed when turning sharply. It automatically reduces the travel speed to the optimal speed when cornering, reducing the risk of accidents or damage.



Large panoramic mirror

Provides the operator a clear view of the rear working area, improving working safety & efficiently.



LED lights

Brighter and last longer than traditional sealed beams or halogen lights



Safety light

Safety lights provide a visual warning by projecting a blue light on the floor to warn oncoming forklifts or pedestrians, helping prevent accidents in the workplace.



Rear grab handle with horn

Enhances safety, comfort and convenience when traveling in reverse.



Emergency switch

The operator can push the emergency switch with one hand on the steering wheel quickly.



GSS (Guardian Stability System)

- 1. Decrease of travel speed (up to 50%) when the mast is raised above the primary stage
- 2. Forward tilt is reduced by 2 degrees when the mast is raised above the primary stage
- 3. Alarm sounds when the mast is raised above the primary stage with the mast tilted more than 2 degrees

# Better serviceability



## Worldwide service network

- Head quarter
- Overseas offices and service centers



Doosan provides high-quality support, relying on its extensive dealer network. No matter where you are located, highly-skilled professionals are always ready to help you, guaranteeing maximum uptime.



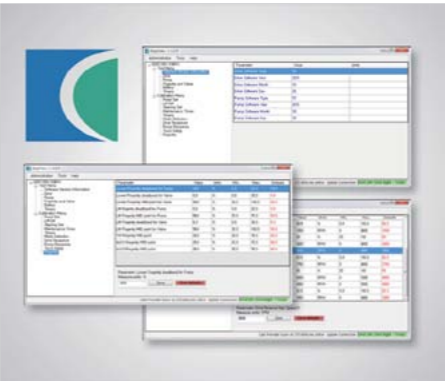
## Doosan Genuine Parts

The parts warehouse, supplies high quality Doosan parts to the dealer network.



## Easy to access controller room

No need to open the hood to access the controller to change settings or connecting the diagnostics tool



## Easy view

To examine the forklift and set the program with notebook only (without a special tool)



## Diagnostics tool

Thanks to the kvaser connector, the performance settings can quickly and easily be fine-tuned. The Easy Viewer software has been developed by Curtis, exclusively for Doosan for maximum control over your truck settings.

Additional features



**Low battery alarm**

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



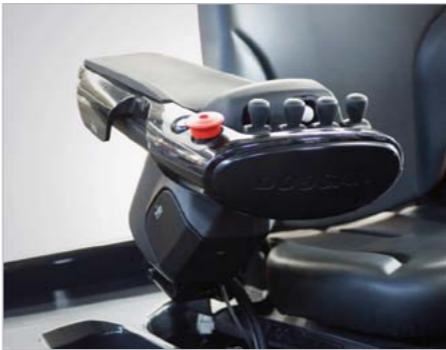
**OSS (Operator Sensing System)**

Whenever the operator leaves the seat, the truck travel and mast lifting functions will stop. This systems avoids any unintended forklift movements when the operator is not seated.



**Turtle mode**

By pushing the slow travel speed button when the truck operates in a warehouse, the truck travel speed will slow down to a predefined travel speed setting, without impacting the lifting speed. This mode ensures safely maneuvering in delicate operating situations.



**Finger tip controls**

Fast, precise and infinitely controllable fingertip control makes the 7 series effortless and efficient.



**Adjustable column**

The operator can adjust the position of the column for convenience and comfort.



**Adjustable seat**

The full suspension comfort seat is fully adjustable to accommodate every individual preference.



**Mast Lowering Inter-Lock & Tilt Lock (ISO3691) The hydraulic locking**

The hydraulic locking system prevents natural lowering and tilting. It safeguards the work array, the truck and the load even if the operator leaves the truck unattended.



## WAREHOUSE SOLUTION



# The best proposal for warehouse application

Doosan can provide you with the best proposal for your warehouse operation, from reach trucks to stackers, forklifts to pallet trucks and much more. Please contact Doosan to discuss your needs.



## A Transport

Transporting is the process of moving product from one point to another. Distance travelled manoeuvrability requirements and the need for multi-tasking play a critical role in determining product selection.

## B Bulk Storage

Bulk storage areas allow for storage of large quantities of a similar product. Lift trucks used are typically no wider than the product being stored.

## C Order picking

Order picking is the process of fulfilling customer orders. The product size, weight and storage method will determine the appropriate lift truck.

## D Shelving

Full space utilisation of your warehouse also means effective use of steel and wire shelving. Small parts and similar sized materials can be stored efficiently.

## E Dock Work

Any application that requires loading and unloading products from a delivery vehicle and staging them for further handling is considered dock work. The particular recommended dock truck will depend on your specific demands and the characteristics of your shipping and receiving areas.

## F Rack Storage

Storage rack considerations determine effective vertical storage and product selectivity. The type of lift truck chosen for load handling will require specific aisle width and rack layout parameters.

## G Narrow-Aisle

Narrow aisles offer several benefits by providing better storage utilisation. Less space is required for lift trucks to operate, while productivity and organisational efficiencies also improve. Back-to-back racking allows product to be stored two deep.

## H Outdoor

Outdoor work can include tasks that require loading and unloading trucks and trailers, transporting loads and storing goods in racks and bulk locations. The surfaces may be improved but typically include rough terrain, gravel, pot holes, hills, and other obstacles.

Main Specifications

| MAJOR SPECIFICATION                            |      | B15T-7 PLUS      |          | B18T-7 PLUS |          | B20T-7 PLUS |          | B16X-7 PLUS      |  | B18X-7 PLUS |  | B20X-7 PLUS |  |
|--|------|------------------|----------|-------------|----------|-------------|----------|------------------|--|-------------|--|-------------|--|
| Classification                                 |      | 3 Wheel Electric |          |             |          |             |          | 4 Wheel Electric |  |             |  |             |  |
| Capacity                                       | kg   | 1500             | 1750     | 2000        | 1600     | 1800        | 2000     |                  |  |             |  |             |  |
| Load centre                                    | mm   | 500              |          |             |          |             |          |                  |  |             |  |             |  |
| Wheel base                                     | mm   | 1323             | 1423     | 1446        | 1495     | 1495        | 1495     |                  |  |             |  |             |  |
| Turning radius                                 | mm   | 1515             | 1615     | 1648        | 1886     | 1886        | 1886     |                  |  |             |  |             |  |
| Load moment centre                             | mm   | 376              | 376      | 381         | 376      | 376         | 381      |                  |  |             |  |             |  |
| Travel speed                                   | km/h | 17/17            | 17/17    | 17/17       | 17/17    | 17/17       | 17/17    |                  |  |             |  |             |  |
| Lift speed                                     | m/s  | 0.4/0.6          | 0.4/0.6  | 0.4/0.6     | 0.4/0.6  | 0.4/0.6     | 0.4/0.6  |                  |  |             |  |             |  |
| Lowering speed                                 | m/s  | 0.5/0.45         | 0.5/0.45 | 0.5/0.45    | 0.5/0.45 | 0.5/0.45    | 0.5/0.45 |                  |  |             |  |             |  |
| Max. Gradeability(at 1.6km/h, Loaded)          | %    | 26               | 25       | 24          | 26       | 25          | 24       |                  |  |             |  |             |  |
| Max. Drawbar pull(Loaded)                      | Kgf  | 1300             | 1300     | 1300        | 1300     | 1300        | 1300     |                  |  |             |  |             |  |
| Right angle stacking aisle width : 1000 x 1200 | mm   | 3216             | 3316     | 3354        | 3446     | 3466        | 3471     |                  |  |             |  |             |  |
| Right angle stacking aisle width : 800 x 1200  | mm   | 3341             | 3441     | 3479        | 3665     | 3665        | 3670     |                  |  |             |  |             |  |
| S/A Steering angle                             | deg. | 90               | 90       | 90          | 86       | 86          | 86       |                  |  |             |  |             |  |

Standard Features and  
Optional Extras

| SAFETY & STABILITY, GUARDIAN STABILITY SYSTEM (GSS)   |  |
|---|--|
| OSS (Operator sensing system)   |  |
| Neutral position for start  |  |
| Unlimited ramp hold   |  |
| Low battery warning alarm   |  |
| Seat belt indicator   |  |
| (ISO 3691) Mast lowering inter-lock & tilt lock   |  |
| Emergency stop switch   |  |
| Rear grab bar with horn switch  |  |
| Auto tilt leveling  |  |
| Guardian stability system : option  |  |
| 1. Forward tilt is reduced by 2 degrees when the mast is raised above the primary stage<br>2. Alarm sounds when the mast is raised above the primary stage with the mast tilted more than 2 degrees |  |

- Standard features
- Optional extras

| OPERATOR COMFORT (ERGONOMIC)   |  |
|--|--|
| Entry grip entry bar & large entry step with anti-slip pattern         |  |
| Large & angled floor plate (leg room) with rubber cushion              |  |
| Rounded design battery hood cover                                      |  |
| Easy to read instrument panel  |  |
| Adjustable tilt steering column & easy grip ( 280 size) steering wheel |  |
| Hydraulic control lever with direction switch                          |  |
| Large cup holder, usb port & 12v electric jack, clip board             |  |
| New finger-tip control   |  |
| Power grip knob  |  |
| Premium seats : Grammer msg65 series                                   |  |
| Panoramic mirror   |  |
| LED Lights   |  |
| Special height overhead guards   |  |
| Mono pedals  |  |
| Modular cabins   |  |

| PRODUCTIVITY  |  |
|---|--|
| Full ac system chassis                                      |  |
| Rounded design counterweight                                |  |
| IP65 Rated curtis controller                                |  |
| IP43 Rated PAL enclosed type motors                         |  |
| 86° (BX)/ 90° (BT) Steer axle clamp angle                   |  |
| Electro-magnetic automatic parking brake (EPB)              |  |
| Hydraulic cushioned valve in secondary cylinder (FFL & FFT) |  |
| Accessory for DIN type battery installation                 |  |
| Battery lift in and out system                              |  |
| Cooling options : Fans & Fin type controller                |  |
| Application packages : Cold & Freezer, Beverage, Fishery    |  |

| DURABILITY & SERVICEABILITY                              |  |
|--|--|
| E-motor foor brake                                       |  |
| Robust frame structure & strong structure overhead guard |  |
| Easy to access controller & motors room                  |  |
| Wide open battery hood cover                             |  |
| Tool-less side cover with air ventilation                |  |
| Durable heat-resisting(38”SQ)cables                      |  |

\* Remark : This list is based on factory data. Standard or optional can vary for specific countries.

# About Doosan

Values that drive our future growth

## Trust in people is the foundation on which Doosan has built its century of success

Doosan has always put ‘People’ first for the past 100 years, based on our management philosophies.- ‘Business is not meant to make profits, but to help people grow.’ (Late Too Pyung Park, First Chairman), and continues to spur corporate development with global competitiveness originated from human resources.

## Doosan the oldest, but fastest growing company

Doosan has recorded the longest business history since its inauguration in 1896, but has grown at its most rapid pace for the past 10 years.

## Doosan-the global Infrastructure Support Business (ISB) company

Doosan has created in excess of 90% of its sales within the ISB sector through vigorous reorganisation of its business portfolio since 1998. In the past, 70% of our business was concentrated on consumer goods, but we have successfully transformed our business DNA to the infrastructure support business that constructs and reinforces social infrastructure.

## Doosan, surging as a global company

Doosan has become the global ISB leader based on its world class products and services. In addition, as a true global company, Doosan’s overseas employees encompass 50% of its human resources, and overseas sales take more than over 60% of the total sales.



Doosan Bobcat - Skid-steer Loader

**Committed To Innovation**

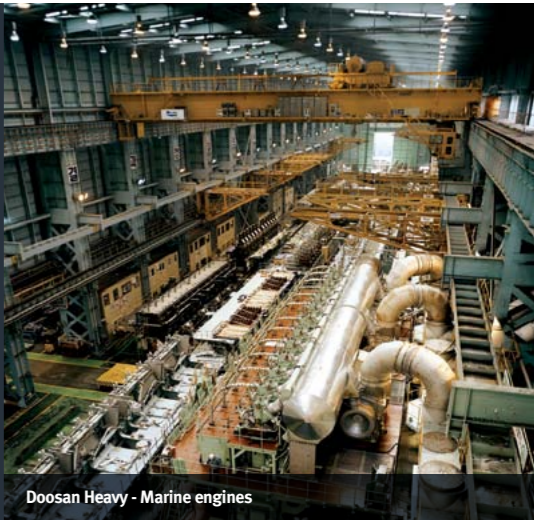
We remain committed to the advancement of new technologies and development of talented individuals, positioning us to respond effectively to the rapid changes taking place in the 21<sup>st</sup> century. Our mission is to strengthen our global position and become the industry leader well into the future.



Doosan Robotics  
Doosan Robotics - H Series

**Committed To Our Customers**

We are committed to our customers, providing superior products and excellent services to go with them into the future.



Doosan Heavy - Marine engines



**Doosan Way**

The Doosan Way is our unique way of doing business; the philosophy and culture that will guide us to become the “Proud Global Doosan.”

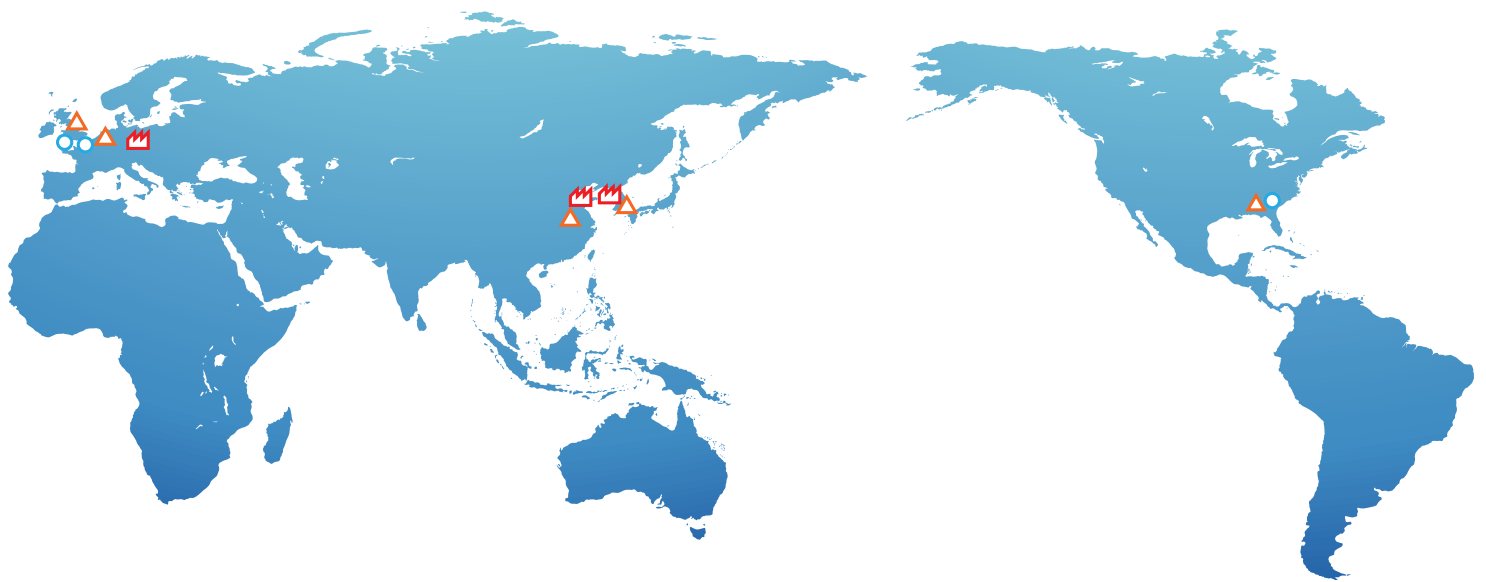





## Our Promise

Doosan will be the partner you can count on, always putting our commitment to you first.



Doosan Heavy - Seawater desalination plants



-  Production Subsidiary
-  Sales Subsidiary
-  Parts Depot Center



2021 July

Authorized Dealer



Doosan Industrial Vehicle  
Web site: [www.doosan-iv.com](http://www.doosan-iv.com)

