



## 3 Wheel Electric Forklift Trucks

B13R / 15R / 16R-5 (24V Rear Wheel Drive)

2,500lb to 3,200lb Capacity



**PRO5**  
SERIES





DRIVE THE DIFFERENCE...

# B13R / 15R / 16R-5

## REAR WHEEL DRIVE

Doosan Rear Wheel Drive Electric Forklifts  
Will surpass Customer expectations  
for Cost Efficiency, Performance and Productivity

**The B16R series combines a compact design with technological advances and operator enhancements to provide customers with both productive and cost effective material handling operations**

**Optimum comfort :** F.C.U. (Front Cockpit Unit) was ergonomically designed for comfortable driving and reduced effort operation of both the drive and hydraulic systems.

**Smooth control :** A.C.T. (Active Control Technology) has been incorporated into full AC Drive and Hydraulic.

**Greater productivity :** AC drive & hydraulic motors promote energy efficiency and reduce overall operating costs.

**Enhanced protection :** O.S.S. (Operator Sensing System) raises awareness of important operational conditions.

**Outstanding durability & reliability :** O.C.D.B. (Oil Cooled Disc Brake) is provided as standard equipment.

**DRIVE DOOSAN !**

**Comfort Comes Standard !**



**DRIVE THE DIFFERENCE..**

## *Operator Comfort and Operator Productivity Go Hand in Hand*

- **Easy to Access & Exit**

- **Low Entry Height**

Wide leg & head room, grab bar on O.H.G. rail & hood.

- **Easy to Drive**

- **Deluxe Suspension Seat (Optional) With OSS**

A comfortable deluxe suspension seat with OSS (Operator Sensing System), a large seatback angle, longer seat travel length and operator's weight resistance on front side allow multiple adjustments for optimum seating comfort.



- **Easy to Control**

- **Finger Tip (Optional)**

Permit precise controlled load movement by literally lifting only a finger to significantly reduce operator movement and excessive effort.



- **Easy to Operate**

- **Infinitely Adjustable Steering Column**

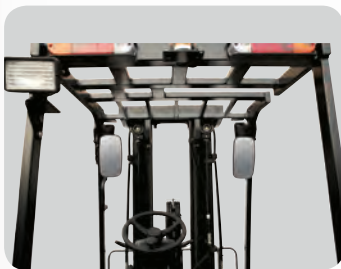
Readily adapts to size operator

- **Hydraulic Control Lever**

Low effort activation provides smooth response

- **Direction lever**

Easy to operate while turning steering wheel



- **Easy to See**

- **High Visibility Overhead Guard and Front-End**

Wider mast window, repositioned hydraulic hoses and flat bar style overhead guard optimize operator sight lines forward, up and to the load.

- **Easy to Service**

- **Side Roll in & Out Battery (Optional)**

Easy to service without efforts.

Tool free side panel, easy removal of floor plate and control valve cover.



**DRIVE DOOSAN!**

**Productive, Yet Energy Efficient !**



**DRIVE THE DIFFERENCE...**

## Energy Efficient B16R Series Makes Good Business Sense

Electric truck productivity is a delicate balance of speed, control & energy consumption - All achieved through several DOOSAN exclusive design innovation.

### • DOOSAN Exclusive ACT (Active Control Technology)

This innovative system provides several productivity advantages:



- Active Performance Control :  
self-adjusts performance criteria to changes in operating conditions
- Active Energy control :  
maintains consistent performance through 80% of battery charge life
- Active Comfort Control :  
customizes operating parameters to match driver's style for increased comfort, confidence & control
- Active Heat Control :  
system self protects when overheating detected to correct temperature imbalance

### • Operator-Centric Performance Selection

Operator controls the truck's performance capability and can optimize productivity and battery consumption rate to match application requirements.



- H-mode (High Performance)
- S-mode (Standard Performance)
- E-mode (Energy Efficient Performance)
- Turtle mode  
(Reduces Travel Speed while maintaining lift speed)

### • More Work per Battery Charge

Programmable operating functions customize truck performance for energy efficiency to achieve more run time per battery charge.

### • ITC (Intelligent Torque Control)

Closed-loop feedback system monitors loads on drive and hydraulic motors to maintain speed consistency whether the truck is empty or loaded.

It also provides :

- Responsive acceleration
- Excellent gradeability
- Full protection against short /open circuits
- Continuous temperature monitoring of panel and motors to maximize material handling productivity.

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# Operational Awareness is High Priority



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## The B16R Series Provides a Range of Tools For Monitoring Operational Readiness



### ● Pivoting Front Axle

Extends forward as mast tilts back providing longer wheelbase for better stability.

Retracts as mast tilts forward providing shorter wheelbase for better maneuverability.

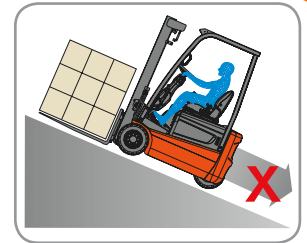
### ● OSS (Operator Sensing System)

Audible alarm will sound when operator leaves from seat without parking brake applied.

Truck stops moving with directional switch in either forward or reverse when operator leaves the truck without parking brake applied. Transmission automatically shifts into neutral.

### ● Anti Roll Back & Down

Holds truck in position when stopping on ramp.



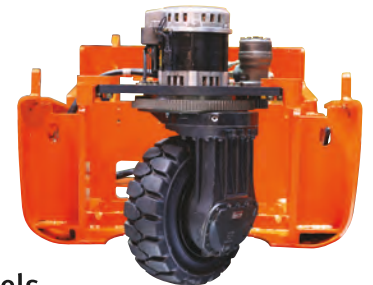
### ● Rear Grab Bar With Horn (Optional)

When operator drives in reverse, grab bar with horn button on rear-right O.H.G. rail will help safety of surrounding personnel.



### ● Steering Angle Sensing System

- The angle sensing information controls the travel speed when turning by slowing truck while cornering.



### ● Intelligent Instrument and Control Panels

The combination of LED displays and 7-digit graphic LCD display intelligently provides operators with all the details they need, including operational information, safety indicators, diagnostics and programmable settings.



Travel Speed Governor



Speedometer (km/h)



Power Mode Indicator



Parking Brake Indicator



Battery Charge Indicator



Hour Meter Display

DRIVE DOOSAN !

# Durability and Reliability Create Profitability !

DOOSAN's goal is to make your material handling business efficient and profitable. The durability and reliability of our trucks will aid in minimizing your truck down time and total cost of ownership.

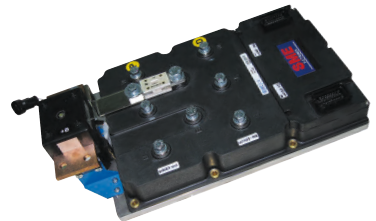
## AC drive and hydraulic controller & motor system



No brushes, no commutator and no directional contactors, there-by no maintenance.

AC controller permits programmable adjustments to operating functions for customized truck performance.

It provides both run-time and trouble shooting diagnostic technology.



## Doosan exclusive & innovative Oil cooled Disc Brake

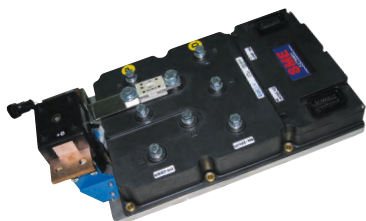


Virtually maintenance-free, ODB is standard equipment on the PRO5 Series, B16R-5. The enclosed brake system eliminates outside contamination significantly extending the brake life up to 5 times longer when compared to conventional shoe brakes.

## AC Controller has power to spare

The command center of the B16R PRO 5 series is our AC controller consisting of a main logic board and independent power modules with direct links to drive motor and the hydraulic motor to manage, direct and monitor every operating system on the truck.

This control unit regulates and monitors the following functions :



- Anti-Roll Back and Anti-Roll Down with adjustable ramp stop time
- Regenerative Braking
- Electrically Assisted Braking
- Static Return to Off (SRO)
- Drive Speed Compensation (Load/Unload)
- Drive Speed Acceleration/Deceleration/Reduction
- Continuous Lift Speed Control/ Pump Motor Speed Compensation
- Battery Discharge Indicator with Adjustable Reset Value
- Over Temperature Protection for power modules and Motors
- Low and High Voltage Limit
- Diagnostics and Stored Error Codes
- Power Line Fault Detection (Fuse/Contactor)
- Continuous Temperature Measuring (Controller, Motor)
- Full Protection against Short or Open Circuits

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■ **Option Availability**

● : Standard ○ : Optional

Options	B13R/15R-5	B16R-5
Finger Tip Control Hydraulic Valve	○	○
Pneumatic Tires	○	×
Non-marking Tires	○	○
Full Suspension Deluxe Seat - Vinyl	○	○
Full Suspension Deluxe Seat with Armrest	○	○
Keyless Ignition Switch	○	○
Two Front and Rear Combination Lights	○	○
One Rear Flood Light	○	○
Back-up Alarm	○	○
Rear Strobe Light	○	○
Rear View Mirror	○	○
Integral Sideshifter	○	○
Integral Sideshifting Fork Positioner	○	○
Hydraulic Accumulator	○	○
Battery Side Roll In Out	○	○



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# PRO5 SERIES



B13R-5 / B15R-5 / B16R-5  
2,500lb to 3,200lb Capacity  
24VOLT  
Pneumatic & Solid Tire

PSC0704A3USver3



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AUTHORIZED DEALER

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