



**PRO5**  
SERIES

## 3 Wheel Electric Forklift Trucks

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

1,250kg to 1,600kg Capacity



**B13R-5 / B15R-5 / B16R-5**  
1,250kg to 1,600kg Capacity  
24VOLT  
Pneumatic & Solid Tire

**PRO5**  
SERIES



PSC0704B1 (June.2011)

AUTHORIZED DEALER

**BROAGER  
TRUCK SERVICE**

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





## **B13R / 15R / 16R-5**

### **REAR WHEEL DRIVE**

New Electric Forklifts of Efficiency & Productivity  
Doosan Rear Wheel Drive Electric Forklifts  
Surpass Customer Expectation  
for Cost Efficiency, Performance and Productivity

*Rear wheel drive electric forklifts(B16R Series)  
provide a great operating delight.  
As well as high performance, compact design is  
suitable for application of enclosed space,  
such as containers, wagons or lorries.*

For optimum comfort, F.C.U. (Front Cockpit Unit) was ergonomically designed for comfortable driving and anti-fatigue even in multi-shift operations helping stylish appearance together with optional deluxe suspension seat.

For smooth control, A.C.T. (Active Control Technology) has been incorporated into full AC (Drive and Hydraulic) system .

For greater productivity, AC drive & hydraulic motors promote energy efficiency and reduce overall operating costs.

For industry best safety, O.S.S. (Operator Sensing System) makes drive happy due to protect operator from any risk.

For outstanding durability & reliability, O.C.D.B. (Oil Cooled Disc Brake) was equipped in all Doosan electric trucks.





# Satisfaction Comes Standard !

*Ergonomic Design  
Guarantees Stable Operation  
and Provides Enhanced Truck Performance*

## ● 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, 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

Although compact truck, infinitely adjustable steering column fully adjusts to driver's height.

### - Hydraulic Control Lever

Low efforts but, high and smooth performance.

### - Direction lever

Easy to operate while turning wheel thanks to FCU.



## ● 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 THE DIFFERENCE...

DRIVE DOOSAN



# Productive, But Energy Efficient !



DRIVE THE DIFFERENCE...

## B16R Series Will Be Energy for Your Business.

Productivity of Electric Truck, represented by the combination of speed, control and energy consumption, is 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.





Safety Comes First !



DRIVE THE DIFFERENCE...

DOOSAN's Superb Operator Sensing System will minimize the risk of accidents.



- **Moving Front Axle**  
**When extended (by tilting backward),**  
Safer driving due to larger wheel base, which provides better stability.  
  
**When Shortened (by tilting forward),**  
More excellent maneuverability due to extremely compact.

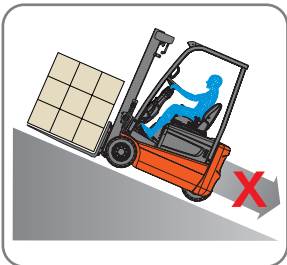
● **OSS (Operator Sensing System)**

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

Truck is not moving with directional switch in either forward or reverse when operator leaves the truck without parking brake applied. (automatically return to neutral position)

● **Anti Roll Back & Down**

Stop on ramp, anti roll back & down system protects truck's slip.



● **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 at turning operation. It automatically reduces the travel speed to the optimum speed at the 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 B16R-5

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 :



- fAnti-Roll Back and Anti-Roll Down with adjustable ramp stop time
- fRegenerative Braking
- fElectrically Assisted Braking
- fStatic Return to Off (SRO)
- fDrive Speed Compensation (Load/Unload)
- fDrive Speed Acceleration/Deceleration/Reduction
- fContinuous Lift Speed Control/ Pump Motor Speed Compensation
- fBattery Discharge Indicator with

- Adjustable Reset Value
- fOver Temperature Protection for power modules and Motors
- fLow and High Voltage Limit
- fDiagnostics and Stored Error Codes
- fPower Line Fault Detection (Fuse/Contactor)
- fContinuous Temperature Measuring (Controller, Motor)
- fFull Protection against Short or Open Circuits

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	○	○
Mono-ped Foot Direction and Acceleration Control	○	○
Emergency Switch	○	○
Cold Storage Package	○	○
Keyless Ignition Switch	○	○
Knob - Steering Wheel	○	○
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	○	○

