



Doosan Infracore  
Forklifts

**PRO5**  
SERIES

## 4 Wheel Electric Forklift Trucks

B15S/B18S-5

BC15S/BC18S-5 & BC20SC-5

1,500kg to 2,000kg Capacity



**B15S / B18S-5**  
1,500kg to 2,000kg Capacity  
48 VOLT  
Pneumatic Tire



**BC15S / BC18S-5 / BC20SC-5**  
1,500kg to 2,000kg Capacity  
36/48 VOLT  
Cushion Tire

**PRO5**  
SERIES



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Forklifts

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AUTHORIZED DEALER

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

## *A Customer-Driven Design... Aimed at Surpassing Customer Expectations*



*Our Doosan design team focused on performance, productivity and energy efficiency in developing our new B/BC18S PRO5 series.*

*By providing full AC control of both drive and hydraulic systems, these units provide the following productivity package advantages:*

- **Faster** travel and lift **speeds** to ensure peak performance
- **Energy** consumption **efficiency** that translates into more run time per battery charge
- Closed loop speed control system that maintains **consistent** operating **speeds** whether truck is loaded or not
- **Easily programmable** performance selection that optimizes productivity while conserving energy
- **Enhanced driver awareness** of all operating and performance characteristics of the machine to enable ongoing productive operation throughout the shift
- **Reduced operating costs** achieved by the elimination of motor brushes, commutators, directional & hydraulic contactors which reduces maintenance and increases uptime

These hard-working Doosan electrics will meet your toughest application challenges including ramps, grades and rough underfoot conditions, and provide you with a complete package of speed power and efficiency to meet your material handling needs.

# Productivity Comes Standard!



Productivity Comes Standard

The bottom line for evaluating a lift truck is PRODUCTIVITY... and that's where the Pro5 Series really stands out. Productivity of an electric truck is a combination of speed, control and energy consumption --- which have all been achieved through several exclusive Doosan design innovations.

## • 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 Travel Control : optical pulse steering angle sensor controls the travel speed while turning
- 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.



DRIVE THE DIFFERENCE...

DRIVE DOOSAN !

# Operator Friendly Design ....Guarantees Friendly Operators!



## A COMFORTABLE OPERATOR ENHANCES TRUCK PERFORMANCE

Our ergonomically designed and spacious operator compartment combined with a variety of operational enhancements will facilitate ease of operation and help boost output in any application.

Operator friendly features include:



### ● Intelligent Instrument and Control Panel

The combination of LED and LCD instrument display intelligently provides operators with the vehicle's operational readiness at a glance, including diagnostics and programmable settings.



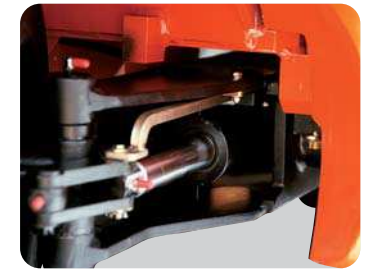
### ● Spacious Operator Compartment

Designed for comfort, with enhanced pedal positions, an infinitely adjustable steering column, deck mounted hydraulic levers, and increased foot room all add up to a more productive operator.



### ● High Visibility Overhead Guard and Front-end

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



### ● Steering Angle Sensor

Communicates information back to LCD display informing operator of steer axle angle and activates main logic to control drive motor speed. It informs the operator of steer wheel angle at all times and compensates truck travel speed through the differential drive during aggressive cornering.



### ● Deluxe Suspension Seat with OSS (Operator Sensing System)

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.



### ● Finger-tip Controlled Hydraulic Control Valve(Optional)

Permits precise controlled load movement by literally lifting only a finger to significantly reduce operator movement and expended effort. It is engaged with lift and tilt locking when the operator leaves seat or puts key in 'OFF' position.

**Designed to handle the toughest Applications without Compromising Serviceability ease.**



**A HALLMARK OF DURABILITY,  
RELIABILITY AND SERVICEABILITY**

Doosan's goal is to make your material handling organization as efficient and reliable as possible. The durability and reliability of our B/BC18S series will aid in minimizing your truck down time and will help reduce total maintenance cost.



- **Maintenance Free Electric Motors**  
Our innovative AC technology of drive and hydraulic motors eliminates motor brushes, commutators and directional contactors, thus reducing maintenance and decreasing overall operating costs. The large, 10kw drive motor provides outstanding power capability throughout the operating shift.



- **Run Time and Trouble shooting Diagnostics**  
Our truck talks to you ! The controller provides both run-time and trouble-shooting diagnostic capability to tell you the source of a problem so it can be corrected quickly and easily. In addition all controller programming can be locked in to guard against tampering.

- **Oil- Cooled Disc Brakes(ODB)**  
Virtually maintenance-free, ODB is standard equipment on the PRO5 Series,B(C)18S-5. The enclosed brake system eliminates outside contamination significantly extending the brake life up to 5 times longer when compared to conventional shoe brakes. That's why they come with our industry exclusive warranty.

- **Monitoring and maintenance are based on a User friendly interface with service program windows.**
  - Calibration of power
  - Test menu section
  - Data logging
  - Flash programming
  - Troubleshooting

- **Rugged and Durable Transaxle**  
A full floating drive axle combines with the rugged AC drive motor to form a highly efficient transaxle. This rugged and durable design is made to handle high impact loading without damage. The transaxle effectively transfers the power and torque of the drive motor to the final drive for both smooth and quiet operation.



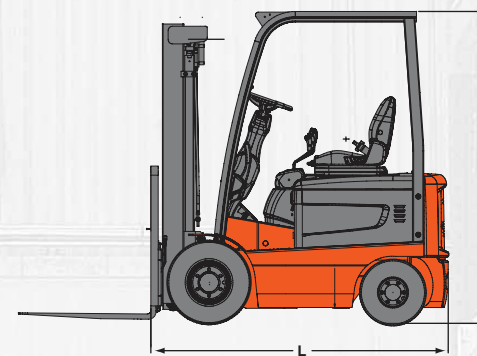
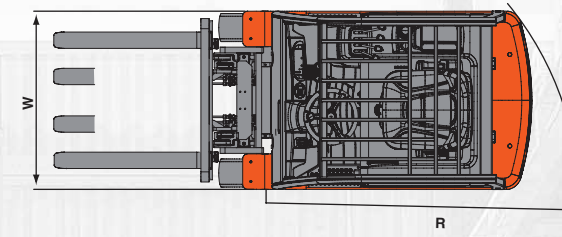
# Intelligent Instrument and Control Panels

## ... at the head of the class !



The combination of LED displays and 7-digit graphic LCD display intelligently provides operators with all the details they need, including operational information, diagnostics, and programmable settings. The 4 display buttons offers a choice of four power modes; heavy duty, standard duty, economic duty and slow travel speed mode. Standard instrument images are displayed at the right.

	Steering Angle Indicator		Over Temp Indicator
	Maintenance Indicator		Travel Speed Governor
	Seat Switch Indicator		Speedometer (km/h)
	Travel Speed Indicator		Light System Indicator
	Battery Charge Indicator		Hour Meter Display
	Power Mode Indicator		Parking Brake Indicator



### Option Availability

● : Standard ○ : Optional

Options	B15/18S-5	BC15/18/20SC-5
Emergency Switch	X	○
Cold Storage Package	○	○
Non-Marking Tires	○	○
Mono Ped Foot Direction and Acceleration Control	○	○
Roll In & Out Battery Compartment	X	○
Operator Cabin	○	○
Heater	○	○
Finger Tip Control	X	○
Finger Tip Arm Rest & Front, Rear Lever	X	○
Drive in Rack Overhead Guard	X	○
Lift and Tilt Locking Hydraulic Control Valve	●	●
Auto Tilt Leveling	○	○
Multi Function Switch	○	○
Direction Lever	○	○
Rear Grab Bar with Horn	X	○
Pneumatic Tire	○	X
UL E,ES Rating	X	●

### Main Specification

Sales Model		B15S-5	B18S-5
Rated Load Capacity	kg	1,500	1,750
Load Center	mm	500	500
Truck Overall Width	W mm	1,090	1,090
Overall Length to Fork Face	L mm	1,970	2,020
Height of Overhead Guard	H mm	2,120	2,120
Minimum Turning Radius	R mm	1,825	1,855
Wheelbase	mm	1,250	1,250
Travel Speed, Loaded	kg/h	17.0	17.0
Lifting Speed, Loaded	mm/sec	400	400
Drive Motor (1 Hour rating)	kw	10	10
Hydraulic Motor (15% Duty)	kw	12	12
Battery Compartment Sizes(W x L x H)	mm	1010 x 727 x 470	1010 x 727 x 470
System Voltage	V	48	48

### AC Controller has power to spare

The Command Center of the B/BC18S 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 :



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

Sales Model		BC15S-5		BC18S-5		BC20SC-5	
Rated Load Capacity	kg	1,500		1,750		2,000	
Load Center	mm	500		500		500	
Truck Overall Width	W mm	945		945		991	
Overall Length to Fork Face	L mm	1,933		1,973		2,028	
Height of Overhead Guard	H mm	2,207		2,207		2,207	
Minimum Turning Radius	R mm	1,760		1,778		1,808	
Wheelbase	mm	1,220		1,220		1,220	
Travel Speed, Loaded	kg/h	14.0	17.0	14.0	17.0	14.0	17.0
Lifting Speed, Loaded	mm/sec	370	400	340	400	320	400
Drive Motor (1 Hour rating)	kw	10		10		10	
Hydraulic Motor (15% Duty)	kw	12		12		12	
Battery Compartment Sizes(W x L x H)	mm	909 x 695 x 613					
System Voltage	V	36	48	36	48	36	48