



4 Wheel Electric Forklift Trucks

BC15S / BC18S-5 & BC20SC-5

3,000lb to 4,000lb Capacity



PRO5
SERIES



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



DRIVE THE DIFFERENCE...

DOOSAN

P205

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EXTRA EQUIPMENT
STANDARD EQUIPMENT

Our Doosan design team focused on performance, productivity and energy efficiency in developing our new 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!



DRIVE THE DIFFERENCE.

Oil-cooled Disc Brakes
Active Control Technology
EQUIPPED

205
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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.



Operator Friendly Design ...Guarantees Friendly Operators!



DRIVE THE DIFFERENCE...

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.



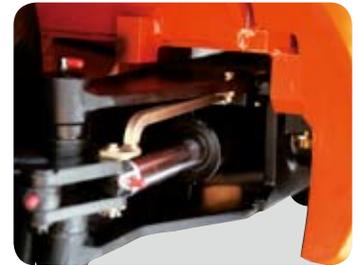
● Spacious Operator Compartment

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.



DRIVE THE DIFFERENCE...

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 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.



Oil- Cooled Disc Brakes(ODB)

Virtually maintenance-free, ODB is standard equipment on the PRO5 Series, BC18S-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 5year / 10,000 hour warranty.

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.

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.

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

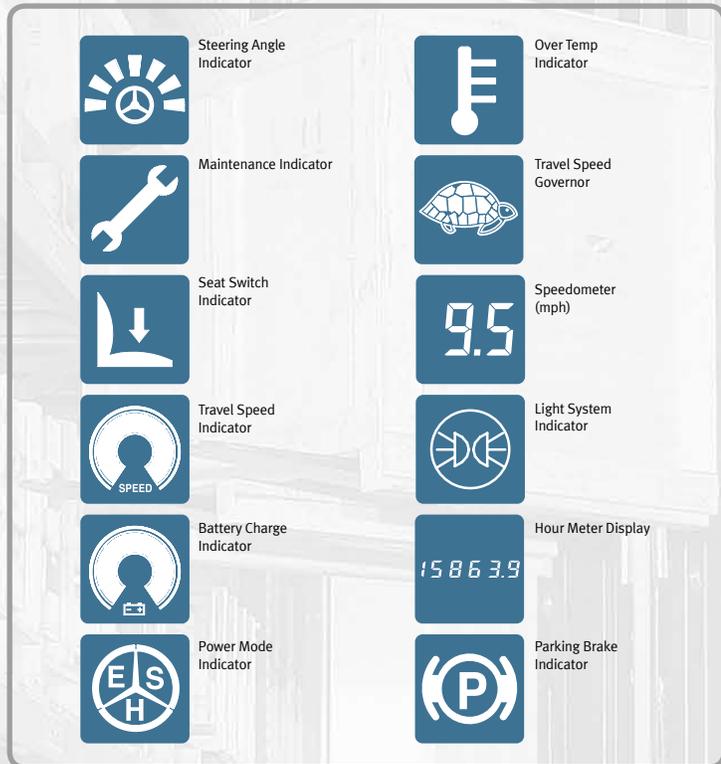


Intelligent Instrument and Control Panels

... at the head of the class !



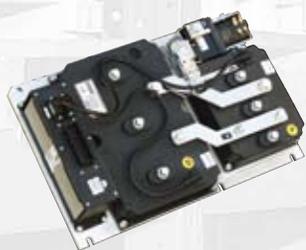
The combination of LED displays and 7-digit graphic LCD display intelligently provides operators with all the details they need, including operational information, diagnostics, and programmable settings. The 4 display buttons offers a choice of four power modes; heavy duty, standard duty, economic duty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



AC Controller has power to spare

The Command Center of the 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.

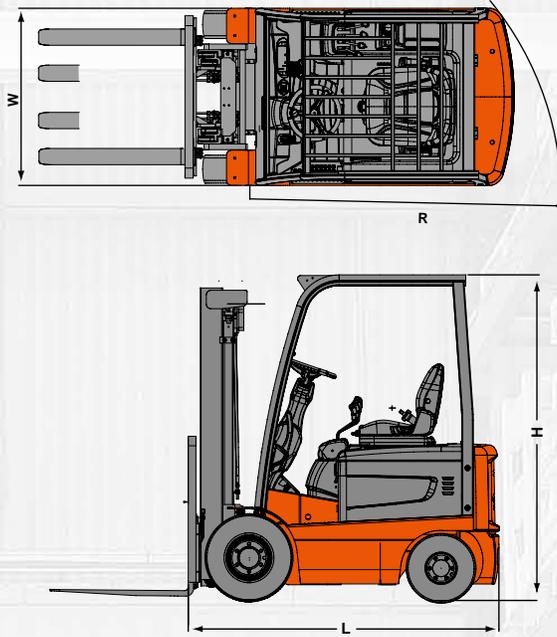
This control unit regulates and monitors the following functions :



- 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

Option Availability

● : Standard ○ : Optional



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

Main Specification

Sales Model		BC15S-5		BC18S-5		BC20SC-5	
Rated Load Capacity	lb(kg)	3,000(1,500)		3,500(1,750)		4,000(2,000)	
Load Center	in(mm)	24 (500)		24 (500)		24 (500)	
Truck Overall Width	W in(mm)	37.2 (945)		37.2 (945)		39 (991)	
Overall Length to Fork Face	L in(mm)	76.1 (1,933)		77.7 (1,973)		79.9 (2,028)	
Height of Overhead Guard	H in(mm)	86.8 (2,207)		86.8 (2,207)		86.8 (2,207)	
Minimum Turning Radius	R in(mm)	48.0 (1,220)		48.0 (1,220)		48.0 (1,220)	
Wheelbase	in(mm)	69.3 (1,760)		70.0 (1,778)		71.2 (1,808)	
Travel Speed, Loaded	mph(km/h)	8.7 (14)	10.6(17)	8.7 (14)	10.6(17)	8.7 (14)	10.6(17)
Lifting Speed, Loaded	fpm(mm/s)	73 (370)	79(400)	69 (370)	79(400)	63 (320)	79(400)
Drive Motor (1 Hour rating)	HP(kW)	13.4 (10)		13.4 (10)		13.4 (10)	
Hydraulic Motor (15% Duty)	HP(kW)	16.1 (12)		16.1 (12)		16.1 (12)	
Battery Compartment Sizes(W x L x H)	in(mm)	35.8 x 27.4 x 24.1 (909 x 695 x 613)					
System Voltage	V	36	48	36	48	36	48

DRIVE DOOSAN !



PRO5 SERIES



BC15S / BC18S-5 / BC20SC-5
3,000lb(1,500kg) to 4,000lb(2,000kg)
Capacity
36/48 VOLT
Cushion Tire

Full Product Line

Doosan offers a full line of lift trucks from 3,000lb(1,500kg) to 36,000lb(16,000kg) pounds to fill all your material handling needs. Contact your dealer for specific information on our various models and configurations.

Complete Distribution Network

Doosan lift trucks are sold and serviced by 95 dealers at over 200 locations in the U.S and Canada. Call us at 770-831-2200 for the location of a dealer near you, or visit us at www.doosanlift.com

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AUTHORIZED DEALER

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