



**PRO5**  
SERIES

## 4 Wheels Electric Forklift Trucks

B20S / B25S / B30S / B32S-5  
BC20S / BC25S / BC25SE / BC30S-5  
2,000kg to 3,200kg Capacity



B20S / B25S / B30S / B32S-5  
2,000kg to 3,200kg Capacity  
Pneumatic Tire



BC20S / BC25S / BC25SE / BC30S-5  
2,000kg to 3,000kg Capacity  
Cushion Tire



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AUTHORIZED DEALER

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

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## A CUSTOMER-DRIVEN DESIGN **DOOSAN forklifts**



**PRODUCTIVITY COMES STANDARD**

### A Thorough Understanding of Customer NEEDS DOOSAN Electric Forklift Trucks, 4 Wheels

**B20/25/30/32S-5 Pneumatic Tire**

**BC20/25/30S-5 and BC25SE-5 Cushion Tire**

With lift capacity 2,000 to 3,200 kg Doosan PRO5 series, B(C)25S-5 series are built to handle any application you care to throw at them.

And they are strong and reliable enough to work in some of the most inhospitable environments known to man.

By introducing revolutionary 3-phase AC control technology, Doosan electric forklift trucks could have numerous 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 electric powered forklifts will meet the toughest challenges that customers throw at them including ramps, grades and rough underfoot conditions.

Whether loading stacks, packing racks or stuffing trucks, Doosan PRO 5 Series, B(C)20/25/30/32S-5 is guaranteed to impress both operators and operation's personnel with its Power, Performance and Economic Efficiency.

**DRIVE DOOSAN !**





**PRODUCTIVITY COME STANDARDS !**

**PRODUCTIVITY COMES STANDARD**

**ac power**  
**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 Heat Control :  
system self protects when overheating detected to correct temperature imbalance
- 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



● **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 DOOSAN !**



**OPERATOR FRIENDLY DESIGN**  
**....GUARANTEES FRIENDLY OPERATORS!**



**PRODUCTIVITY COMES STANDARD**

## **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.

### **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.

### **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.

### **Finger-tip Controlled Hydraulic Control Valve**

Permit 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.



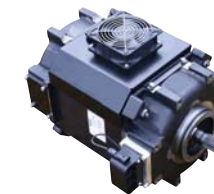
**DRIVE DOOSAN !**



**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 trucks 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, 16kw 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,B(C)25S-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.

- **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.



**PRODUCTIVITY COMES STANDARD**

**DRIVE DOOSAN !**



# 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.



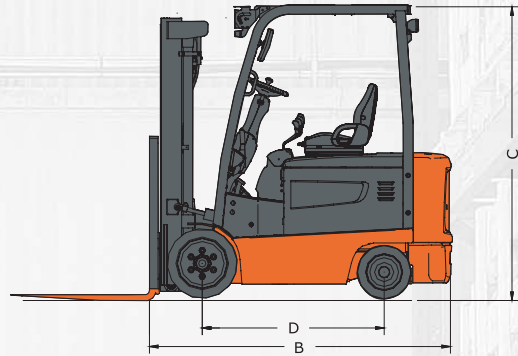
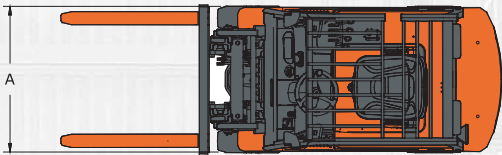
### AC CONTROLLER HAS POWER TO SPARE

The Command Center of the **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

PRODUCTIVITY COMES STANDARD



### Option Availability

Options	● : Standard	○ : Optional
Lift and Tilt Locking Hydraulic Control Valve	●	●
Finger Tip Control Hydraulic Valve	○	○
Pneumatic Tires	○	n/a
Non-marking Tires	○	○
Full Suspension Deluxe Seat - Vinyl	○	○
Full Suspension Deluxe Seat - Cloth	○	○
Drive in Rack Overhead Guard	n/a	○
Modular Operator Cabs	○	○
Mono-ped Foot Direction and Acceleration Control	○	○
Roll In & Out Battery Compartment	n/a	○
Emergency Switch	○	○
Cold Storage Package	○	○
Keyless Ignition Switch	○	○
Rear Grab Bar with Horn	n/a	○
Knob - Steering Wheel	○	○
Two Front and Rear Combination Lights	○	○
One Rear Flood Light	○	○
Back-up Alarm	○	○
Rear Strobe Light	○	○
Rear View Mirror	○	○
Auto Tilt Leveling	○	○
Integral Sideshifter	○	○
Integral Sideshifting Fork Positioner	○	○
Quad Mast	n/a	○
Hydraulic Accumulator	○	○
UL E, ES Rating	●	●
UL EE Rating	○	○

### Main Specification

● 4 Wheel Electric Counterbalanced ,Pneumatic Tire

Sales Model			B20S-5	B25S-5	B30S-5	B32S-5
Rated Load Capacity		kg	2,000	2,500	3,000	3,200
Load Center		mm	500	500	500	500
Truck Overall Width	(A)	mm	1,200	1,200	1,200	1,200
Overall Length to Fork Face	(B)	mm	2,196	2,226	2,377	2,407
Height to Overhead Guard	(C)	mm	2,220	2,220	2,220	2,220
Wheelbase	(D)	mm	1,400	1,400	1,550	1,550
Travel Speed, Loaded		kg/h	18.0	18.0	18.0	18.0
Lifting Speed, Loaded		mm/sec	440	390	340	320
Drive Motor (1 Hour rating)		kw	16	16	16	16
Hydraulic Motor (15% Duty)		kw	21	21	21	21
Battery Compartment Sizes(W x L x H)	mm	1036 x 896 x 530			1036 x 1046 x 530	
System Voltage	V	48	48	48	48	

● 4 Wheel Electric Counterbalanced ,Cushion Tire

Sales Model			BC20S-5		BC25S-5		BC25SE-5		BC30S-5	
Rated Load Capacity		kg	2,000		2,500		2,500		3,000	
Load Center		mm	500		500		500		500	
Truck Overall Width	(A)	mm	1,110		1,110		1,110		1,110	
Overall Length to Fork Face	(B)	mm	2,065		2,095		2,165		2,250	
Height to Overhead Guard	(C)	mm	2,210		2,210		2,210		2,210	
Wheelbase	(D)	mm	1,280		1,280		1,380		1,380	
Travel Speed, Loaded		kg/h	18.0	18.5	18.0	17.5	18.0		18.0	16.5
Lifting Speed, Loaded		mm/sec	460	480	400	440	400		350	410
Drive Motor (1 Hour rating)		kw	16		16		16		16	
Hydraulic Motor (15% Duty)		kw	21		21		21		21	
Battery Compartment Sizes(W x L x H)		mm	1017 x 776 x 590					1017 x 876 x 590		
System Voltage		V	48	80	48	80	48		48	80