



4 Wheels Electric Forklift Trucks



DOOSAN **Doosan Infracore**

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

2,000kg to 3,200kg Capacity

technology

B20S B25S B30S B32S

BC20S **BC25S** BC25SE BC30S

A CUSTOMER-DRIVEN DESIGN **DOOSAN** Infracore

PRODUCTIVITY COMES STANDARD

DOOSA

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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 know to man.

> By introducing revolutionary 3-phase AC control technology, Doosan electric forklift trucks could have numerous advantages.

- time per battery charge

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.

Faster travel and lift **speeds** to ensure peak performance

• Energy consumption efficiency that translates into more run

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



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:



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



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

to maximize material handling productivity.

PRODUCTIVITY COMES STANDARD



Productivity Comes Standard

Active Heat Control :	
system self protects when overheating detected	ed
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

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

- Full protection against short /open circuits
- · Continuous temperature monitoring of panel and motors

DRIVE DOOSAN !

OPERATOR FRIENDLY DESIGNGUARANTEES FRIENDLY OPERATO

DOOSAN

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 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 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.

Designed for comfort, with enhanced pedal positions, an infinitely

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











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.





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.



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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 troughout 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.

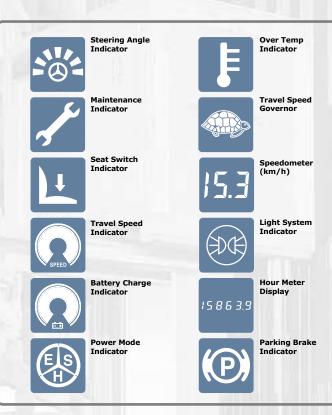
In addition all controller programming can be locked in to guard against tampering.



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.



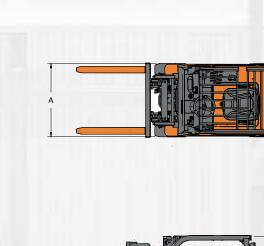
AC CONTROLLER HAS POWER TO SPARE

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





Main Specification

• 4 Wheel Electric Counterbalanced ,Pneumatic Tire

	Sales Mode	l B20S-5	B25S-5	B30S-5	B32S-5	
Rated Load Capacity	kg	2,000	2,500	3,000	3,200 500	
Load Center	mm	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 8	896 x 530	1036 x 1046 x 530		
System Voltage	v	48	48	48	48	

• 4 Wheel Electric Counterbalanced , Cushion Tire

	Sales	Model	BC2	DS-5	BC2	5S-5	BC25SE-5	BC3	0S-5
Rated Load Capacity		kg	2,000		2,500		2,500	3,0	000
Load Center		mm	500		500		500	500	
Truck Overall Width	(A)	mm	1,110		1,110		1,110		10
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		1,2	:80	1,380	1,3	80
Travel Speed, Loaded		kg/h	18.0	18.5	18.0	17.5	18.0	18.0	16.5
Lifting Speed, Loaded	1	nm/sec	460	480	400	440	400	350	410
Drive Motor (1 Hour rating)	kw		1	6	1	6	16	1	6
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

PRODUCTIVITY COMES STANDARD

Option Availability	• : Standa	rd (): Optiona
Options	B25S-5	BC25S-5
Lift and Tilt Locking Hydraulic Control Valve	•	•
Finger Tip Control Hydraulic Valve	0	0
Pneumatic Tires	0	n/a
Non-marking Tires	0	0
Full Suspension Deluxe Seat - Vinyl	0	0
Full Suspension Deluxe Seat - Cloth	0	0
Drive in Rack Overhead Guard	n/a	0
Modular Operator Cabs	0	0
Mono-ped Foot Direction and Acceleration Control	0	0
Roll In & Out Battery Compartment	n/a	0
Emergency Switch	0	0
Cold Storage Package	0	0
Keyless Ignition Switch	0	0
Rear Grab Bar with Horn	n/a	0
Knob - Steering Wheel	0	0
Two Front and Rear Combination Lights	0	0
One Rear Flood Light	0	0
Back-up Alarm	0	0
Rear Strobe Light	0	0
Rear View Mirror	0	0
Auto Tilt Leveling	0	0
Integral Sideshifter	0	0
Integral Sideshifting Fork Positioner	0	0
Quad Mast	n/a	0
Hydraulic Accumulator	0	0
UL E, ES Rating	•	•
UL EE Rating	0	0