9 SERIES FORKLIFTS
Electric 3,000 to 4,000 lbs capacity
Stand-up Rider

B15SU-9 / B18SU-9 / B20SU-9
Leading the way

The new 9 Series of Stand-up rider electric forklift truck, continue to follow the core Doosan tradition of delivering simple, powerful performance, whilst most of all, delivering the best possible value for our customers.

The specially designed ergonomic operator compartment keeps the operator in complete control at all times, improving productivity and reducing stress and fatigue. The new model offers the latest design in ergonomic hydraulic controls. Thanks to an improved durable design, Doosan’s new 9 Series electric trucks exceed the highest demands for safe operation.

The latest in AC control systems provide an unbeatable combination of power, performance and reliability. Each parameter is fully adjustable to perfectly match every your individual requirement, providing maximum control and accuracy for every function.

“Higher lifting and travel speed helps me to complete my job efficiently”

PRODUCTIVITY
- Excellent visibility
- Smooth driving sensitivity
- Ergonomic multifunctional control handle

“With the reassuring features of Doosan truck, operation is safe and comfortable”

SAFETY AND ERGONOMICS
- Anti roll back
- Operator sensing system (OSS)
- Automatic speed control
- ISO3691 Hydraulic locking

“Higher lifting and travel speed helps me to complete my job efficiently”

“We are the best in the industry”

“Serviceability
- Doosan service network coverage
- Quick service response
- Easy to fix design

“Higher lifting and travel speed helps me to complete my job efficiently”

“The Doosan service support network has never let me down”

“DURABILITY
- Reliable AC control
- Durable twin drive axle
- Hydraulic steer axle mechanism

“The robustness of the Doosan truck gets the toughest of jobs done”

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“High performance and durability”

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“High performance and durability”
Features overview

The Stand-up rider electric forklift truck has the features of the standing operator type with low step height, competitive turning radius and 18” size drive tire suitable for warehouse, narrow space work, container and uneven road. Power, excellent performance, driving comfort, durability, and outstanding Productivity will certainly satisfy you.

DURABILITY

Hydraulic steer axle mechanism
Reliable AC controller and motors
Robust frame & overhead guard
Rugged and durable twin drive axle

PRODUCTIVITY

Excellent visibility
Ergonomic multifunctional control handle
Small outside turning radius
Smooth and safe acceleration
18” large size drive tire

SERVICEABILITY

Doosan genuine parts
Easy to access major components and electric parts
Examine forklift program with ‘Easy view’
Worldwide service network

ENHANCED SAFETY

Anti roll back
Automatic speed control
Auto parking brake
ISO3691 Hydraulic locking
Emergency switch
GSS(Guardian stability system)
LED light
OSS(Operator sensing system)

EXCELLENT OPERATOR ENVIRONMENT

Adjustable height arm rest
Back rest and knee pad
Convenience devices
Easy and instinctive display
Floor plate suspension
8.5” Low step height
Durability
The 9 Series provide smooth and durable operation in various work applications.

With the reliable AC controller and the optimized design, Doosan’s new machine is able to deliver efficient operation.

Reliable AC controller
Curtis AC controllers provide an unbeatable combination of power, performance and functionality. IP 65 rated controller is very reliable and well proven in tough applications.

Rugged and Durable Twin Drive Axle
Twin drive axle is controlled by integrated drive controller and the twin drive axle effectively transfers the power and torque of the drive motor to the final drive for smooth and quite operation.

Reliable AC drive & hydraulic motors
Maintenance Free Electric Motors by eliminating motor brushes and commutators. To ensure durability under various applications, IP43 rated drive / pump motors are installed as standard.

Hydraulic steer axle mechanism
Quality of impact endurance benefits validated in the field for more than 10 years of the Doosan electric truck.
Productivity

Excellent visibility

The precise designed overhead guard profile with optimized bar thickness and arrangement provides a clear view upward whilst ensuring ultimate strength for safety.

3 Post overhead guard

3 Post overhead guard with outer mast in-lined front legs improve the operator’s visibility and comfort operating position.

Wide mast view

Neatly arranged hydraulic hoses and chains provide clear front visibility through the wide view mast.

Auto tilt leveling

Return the mast to vertical position easily by tilt angle sensing, while both of mast forward and backward.

Ergonomic multifunctional control handle

Doosan’s instinctive multi-function control handle is ergonomically positioned and provides smooth proportional control of all functions. The ability to operate multiple functions simultaneously increases productivity.

Smooth and safe acceleration

Responsive and productive acceleration in early stage. Smooth acceleration in mid & high speed for safe & comfortable movement at narrow space.

ADVANCED ACCELERATION

Wide mast view

Neatly arranged hydraulic hoses and chains provide clear front visibility through the wide view mast.

Auto tilt leveling

Return the mast to vertical position easily by tilt angle sensing, while both of mast forward and backward.
Enhanced Safety

Tilt speed control
Reduce the forward and backward tilting speed to minimize the shaking and impact at the end point.

Automatic speed control
It automatically reduces the travel speed to the optimal speed when cornering, reducing the risk of accidents or damage.

Battery side gate interlock
The warning alarm sounds and the digital display offers an error message when the interlock function is open.

Anti roll back
The controller prevents the forklift from rolling back for 5 seconds when the truck is stopped on a slope.

GSS (Guardian Stability System)
- Decrease of travel speed (up to 50%) when the mast is raised above the primary stage.
- Forward tilt is reduced by 2 degrees when the mast is raised above the primary stage.
- Alarm sounds when the mast is raised above the primary stage with the mast tilted more than 2 degrees.

LED lights & Blue LED safety lights (Option)
Brighter and last longer than traditional sealed beams or halogen lights. To prevent accidents, a warning is given to pedestrians and other trucks by reflecting the blue lights forward or backward only / both.

Unlimited ramp hold (Auto parking brake)
The electro-magnetic auto parking brake (EPB) prevents the forklift from rolling back if the truck is stopped on a slope. Operators can dismount the truck easily without braking.

Mast lowering inter-lock & Tilt lock (ISO3691)
The hydraulic locking system prevents natural lowering and tilting. It safeguards the work array, the truck and the load even if the operator leaves the truck unattended.

OSS (Operator Sensing System)
Wherever the operator leaves the seat, the truck travel and mast lifting functions will stop. This system avoids any unintended forklift movements when the operator is not seated.
Better Serviceability

Doosan provides high-quality support, relying on its extensive dealer network. No matter where you are located, highly-skilled professionals are always ready to help you, guaranteeing maximum uptime.

Wide open covers
Easy removable dashboard, Tool-less front cover and knee pad cover provide convenient access to all major components speeding repair time and reducing downtime.

Doosan genuine parts
The parts warehouse, supplies high quality Doosan parts to the dealer network.

Worldwide service network
- Head quarter
- Overseas offices and service centers

Easy to access electric parts
Major electric parts are concentrated for easy maintenance.

Easy view
To examine the forklift and set the program with notebook only (without a special tool)
Excellent operator environment

1. Clipboard holder
2. Cup holder
3. Steer wheel with soft grip knob
   Power steering and ergonomic positioning
4. Key switch
5. Arm rest lifting button
6. Entry holder
7. Knee pad
8. Low step height
   8.5” Low step height helps easy to get on/off truck.
9. Foot pedal
   Pedal position is operable in operator’s various foot position.
10. Floor plate suspension
    Shock absorbing reduces the operator fatigue.

11. Extended back rest with entry bar
12. Easy and instinctive instrument panel
    The digital display offers an array of important information and operators can control the truck’s performance settings during operation, simply by navigating the instrument panel.
13. Switch panel
14. Emergency switch
15. Storage pocket
16. 5V USB port
17. 12V Power jack
18. Ergonomic multifunctional control handle
19. Adjustable height arm rest
    The adjustable arm rest accommodates operators of various sizes and allows the operator to vary driving positions for more comfort.
Global Leader

DOOSAN FORKLIFT
The best proposal for warehouse application

Doosan can provide you with the best proposal for your warehouse operation, from reach trucks to stackers, forklifts to pallet trucks and much more. Please contact Doosan to discuss your needs.

- **Transport**
  Transporting is the process of moving product from one point to another. Distance travelled manoeuvrability requirements and the need for multi-tasking play a critical role in determining product selection.

- **Bulk Storage**
  Bulk storage areas allow for storage of large quantities of a similar product. Lift trucks used are typically no wider than the product being stored.

- **Order Picking**
  Order picking is the process of fulfilling customer orders. The product size, weight and storage method will determine the appropriate lift truck.

- **Shelving**
  Full space utilisation of your warehouse also means effective use of steel and wire shelving. Small parts and similar sized materials can be stored efficiently.

- **Dock Work**
  Any application that requires loading and unloading products from a delivery vehicle and staging them for further handling is considered dock work. The particular recommended dock truck will depend on your specific demands and the characteristics of your shipping and receiving areas.

- **Rack Storage**
  Storage rack considerations determine effective vertical storage and product selectivity. The type of lift truck chosen for load handling will require specific aisle width and rack layout parameters.

- **Narrow-Aisle**
  Narrow aisles offer several benefits by providing better storage utilisation. Less space is required for lift trucks to operate, while productivity and organisational efficiencies also improve. Back-to-back racking allows product to be stored two deep.

- **Outdoor**
  Outdoor work can include tasks that require loading and unloading trucks and trailers, transporting loads and storing goods in racks and bulk locations. The surfaces may be improved but typically include rough terrain, gravel, pot holes, hills, and other obstacles.
## Main Specifications

<table>
<thead>
<tr>
<th>MAJOR SPECIFICATION</th>
<th>B15SU-9</th>
<th>B18SU-9</th>
<th>B20SU-9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Load capacity / rated load (lb/kg)</td>
<td>3,000 (1,360)</td>
<td>3,500 (1,580)</td>
<td>4,000 (1,810)</td>
</tr>
<tr>
<td>Load center distance (in/mm)</td>
<td>24 (610)</td>
<td>24 (610)</td>
<td>24 (610)</td>
</tr>
<tr>
<td>Load distance, center of drive axle to fork (in/mm)</td>
<td>12.6 (320)</td>
<td>12.6 (320)</td>
<td>12.6 (320)</td>
</tr>
<tr>
<td>Battery compartment (in/mm)</td>
<td>16.5 (419)</td>
<td>18.2 (462)</td>
<td>18.2 (462)</td>
</tr>
<tr>
<td>Wheelbase (in/mm)</td>
<td>43.9 (1,115)</td>
<td>45.6 (1,158)</td>
<td>45.6 (1,158)</td>
</tr>
<tr>
<td>Axle width for pallets 1000 x 1200 crossways (in/mm)</td>
<td>118 (3,009)</td>
<td>120 (3,052)</td>
<td>120 (3,052)</td>
</tr>
<tr>
<td>Axle width for pallets 800 x 1200 lengthways (in/mm)</td>
<td>123 (3,131)</td>
<td>125 (3,174)</td>
<td>127 (3,217)</td>
</tr>
<tr>
<td>Turning radius (in/mm)</td>
<td>53.5 (1,359)</td>
<td>55.2 (1,402)</td>
<td>55.2 (1,402)</td>
</tr>
<tr>
<td>Travel speed, loaded / unloaded (mph/km/h)</td>
<td>7.5 (12.0) / 7.5 (12.0)</td>
<td>7.5 (12.0) / 7.5 (12.0)</td>
<td>7.5 (12.0) / 7.5 (12.0)</td>
</tr>
<tr>
<td>Lift speed, loaded / unloaded (fpm/mm/s)</td>
<td>65 (330) / 60 (305) / 110 (560)</td>
<td>65 (330) / 60 (305) / 110 (560)</td>
<td>65 (330) / 60 (305) / 110 (560)</td>
</tr>
<tr>
<td>Lowering speed, loaded / unloaded (fpm/mm/s)</td>
<td>98 (500) / 88 (450)</td>
<td>98 (500) / 88 (450)</td>
<td>98 (500) / 88 (450)</td>
</tr>
<tr>
<td>Gradeability, loaded / unloaded (%) (deg)</td>
<td>15 (8.5) / 15 (8.5)</td>
<td>15 (8.5) / 15 (8.5)</td>
<td>15 (8.5) / 15 (8.5)</td>
</tr>
<tr>
<td>Battery voltage, nominal capacity (V/Ah)</td>
<td>36/930</td>
<td>36/1,085</td>
<td>36/1,085</td>
</tr>
</tbody>
</table>

## Standard Features and Optional Extras

### SAFETY & STABILITY
- Anti roll back
- Automatic driving and tilt speed control
- Battery side gate interlock
- GSS (Guardian Stability System)
- ISO 3691 Mast lowering inter-lock & tilt lock
- LED Lights
- OSSi(Operator sensing system)
- Blue LED safety lamp
- Hydraulic weight scale

### OPERATOR COMFORT (ERGONOMICS)
- Adjustable height arm rest
- Easy and instinctive instrument panel
- Extended back rest with entry bar and Kee pad
- Floor plate suspension
- Large cup holder, 5v usb port & 12v power jack, clip board holder
- Storage pocket
- Key-less start
- LED operator lamp and fan
- Reverse steering

### PRODUCTIVITY
- 18" Large size drive tire
- Auto tilt leveling
- Ergonomic multifunctional control handle
- Excellent visibility
- Smooth and safe acceleration
- 84.5"(2,146mm) Low overhead guard height
- Bollter tilt and narrow carriage
- Cold storage
- Quick disconnect hydraulic connectors

### DURABILITY & SERVICEABILITY
- Easy to access electric parts
- Easy view program (Parameter tuning)
- Full AC system
- IP43 Rated drive and hydraulic motors
- IP65 Rated Curtis controller
- Robust frame structure and strong structure overhead guard
- Rugged and durable twin drive axle
- Tool-less front and knee pad covers
- Cushion poly tire
- Drive motor upper protector

*Remark:* This list is based on factory data. Standard or optional can vary for specific countries.
Committed to innovation
We remain committed to the advancement of new technologies and development of talented individuals, positioning us to respond effectively to the rapid changes taking place in the 21st century. Our mission is to strengthen our global position and become the industry leader well into the future.

Doosan Way
The Doosan Way is our unique way of doing business, the philosophy and culture that will guide us to become the "Proud Global Doosan."

About Doosan
Values that drive our future growth
Trust in people is the foundation on which Doosan has built its century of success
Doosan has always put ‘People’ first for the past 100 years, based on our management philosophies: ‘Business is not meant to make profits, but to help people grow.’ (Late Too Pyung Park, First Chairman), and continues to spur corporate development with global competitiveness originated from human resources.

Doosan the oldest, but fastest growing company
Doosan has recorded the longest business history since its inauguration in 1896, but has grown at its most rapid pace for the past 10 years.

Doosan the global Infrastructure Support Business (ISB) company
Doosan has created in excess of 90% of its sales within the ISB sector through vigorous reorganisation of its business portfolio since 1998. In the past, 70% of our business was concentrated on consumer goods, but we have successfully transformed our business DNA to the infrastructure support business that constructs and reinforces social infrastructure.

Doosan, surging as a global company
Doosan has become the global ISB leader based on its world class products and services. In addition, as a true global company, Doosan’s overseas employees encompass 50% of its human resources, and overseas sales take more than over 60% of the total sales.

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ONLINE INQUIRY
Doosan will be the partner you can count on, always putting our commitment to you first.