9 SERIES FORKLIFTS
Cushion Electric Stand-up Rider
3,000 lb. to 4,000 lb. Capacity

B15SU-9/B18SU-9/B20SU-9

www.DoosanLift.com
DOOSAN INDUSTRIAL VEHICLE AMERICA CORP.

Product Features Overview

Intelligent Design

Superior Productivity
- Excellent visibility
- Ergonomic multi-functional control handle
- Small outside turning radius
- Quick and safe acceleration
- Programmable performance parameters

Operator Comfort
- Adjustable height arm rest
- Back rest and knee pad
- Convenience devices
  - Cup holder
  - Clipboard holder
  - USB port
- Easy and instinctive display
- Floorplate suspension
- 8.5” low step height

Advanced Safety
- Unlimited ramp hold
- Automatic speed control
- Auto parking brake
- Emergency stop switch
- Guardian Stability System (GSS)
- LED lights standard
- Operator Sensing System (OSS)

Low Step Height
- Convenience and safety
- Part of the 3-Point Entry System

Integrated Entry Handle
- Safe entry/exit
- Part of the 3-Point Entry System
**Durability Assured**
- Heavy duty hydraulic steer axle
- Reliable AC controllers and motors
- Robust frame & overhead guard
- Rugged twin drive units

**Serviceability Simplified**
- Simple to program with ‘Easy View’ system
- Quick-open covers
- Easy to access maintenance points
- Worldwide service network

**Operator Compartment Features**
- Clipboard holder
- Cup holder
- Steer wheel w/ soft grip knob
- Key switch
- Arm rest lifting button
- 3-Point Entry System
- Knee pad
- Low step height
- Operator Sensing System
- Extended back rest with grab handle
- ‘Easy-read’ display
- Switch panel
- Emergency stop switch
- Storage tray
- 5V USB port
- 12V power jack
- Multi-functional control handle
- Adjustable arm rest

**Extended Back Rest**
- Contoured and padded
- Reduces operator fatigue
**Advanced Safety**

**Operator Confidence**

**Tilt Speed Control**
Reduces the forward and backward tilt speed in order to minimize shaking of the load.

**Doosan GSS (Guardian Stability System)**
- Reduces speed when cornering
- Decreases travel speed (up to 50%) when the mast is raised above the primary stage.
- Reduces forward tilt by 2 degrees when the mast is raised above the primary stage.
- Alarm sounds when mast is raised above the primary stage with the mast tilted more than 2 degrees.

**Battery Side Gate Interlock**
The alarm sounds and the digital display shows an error message should travel be attempted.

**Unlimited Ramp Hold (Auto Parking Brake)**
The electromagnetic auto parking brake (EPB) prevents the forklift from rolling back if the truck stops on a slope. Operators can step out of the truck without engaging a manual brake.

**Doosan OSS (Operator Sensing System)**
Whenever the operator leaves the truck, all travel and hydraulic functions stop. This system avoids any unintended forklift movements when the operator is not stepping on the presence pedal.

**Mast Lowering Interlock & Tilt Lock (ISO3691)**
The hydraulic locking system prevents natural lowering and tilting. It safeguards the work space, the truck and the load even if the operator leaves the truck unattended.

**LED Lights & Blue LED Safety Lights (Optional)**
LED lights are brighter and last longer than traditional sealed beams or halogen lights. Bright work lights and blue lights help prevent accidents, improving visibility and awareness of oncoming traffic, pedestrian warning and potential obstacles.
9-Series Electric Stand-up Rider Forklifts
3,000 lb. to 4,000 lb. Capacity

Productivity Multiplied

Excellent Visibility
The precisely designed overhead guard profile has an optimized bar thickness and arrangement, providing strength for safety and a clear view.

Responsive, Smooth Acceleration
- Quick & powerful acceleration
- Smooth & continuous travel

Ergonomic Multi-functional Joystick Control Handle
Doosan’s instinctive multi-function control handle provides smooth proportional control of all functions. The ability to operate multiple functions simultaneously increases overall productivity.

3-Post Overhead Guard
Outer mast aligned with front legs improve operator safety.

High Visibility Mast
Neatly arranged hydraulic hosing and strategic placement of chains provide excellent visibility.

Auto Tilt Leveling
Returns the mast back to vertical position via tilt angle sensor.
Durability Assured

**Reliable AC Drive & Hydraulic Motors**
All AC motors mean these motors are virtually maintenance free. Replacement of motor brushes and commutators is no longer necessary, saving hundreds of dollars in maintenance fees. Motors are IP43 rated for increased durability for any application.

**Hydraulic Steer Axle Mechanism**
Doosan’s heavy duty steer axle designs are all industry proven. The steer axles for the electric family are extremely robust and durable, providing long life and lower operating costs.

**Dependable AC Controllers**
Curtis AC controllers provide an unbeatable combination of power, performance and functionality. IP65 rated controller means they are fully protected from dust, debris and liquids.

**Rugged and Durable Twin Drive Units**
Individually controlled drive motors and drive units allow for precise handling during turns, wet, slippery or uneven surfaces.

Better Serviceability Peace of Mind

**Wide Opening Covers**
Easily removable dashboard, tool-free front cover and knee pad cover provide quick access to all major components reducing downtime.

**Easy to Access Electronics**
All major electronics are placed for easy maintenance.

**Easy View**
Use ‘Easy View’ for detailed performance parameter optimization and diagnostics requiring just your laptop.
9-Series Electric Stand-up Rider Forklifts
3,000 lb. to 4,000 lb. Capacity

**Major Specifications**

<table>
<thead>
<tr>
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<th>B15SU-9</th>
<th>B18SU-9</th>
<th>B20SU-9</th>
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</thead>
<tbody>
<tr>
<td>Load Capacity/Rated Load</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</td>
<td>24 (610)</td>
<td>24 (610)</td>
<td>24 (610)</td>
</tr>
<tr>
<td>Load Center, Drive Axle to Fork</td>
<td>12.6 (320)</td>
<td>12.6 (320)</td>
<td>12.6 (320)</td>
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<tr>
<td>Battery Compartment</td>
<td>16.5 (419)</td>
<td>18.2 (462)</td>
<td>18.2 (462)</td>
</tr>
<tr>
<td>Wheelbase</td>
<td>43.9 (1,115)</td>
<td>45.6 (1,158)</td>
<td>45.6 (1,158)</td>
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<tr>
<td>Aisle Width for Pallets 40&quot; x 48&quot;, Crossways*</td>
<td>111.7 (2,837)</td>
<td>113.4 (2,880)</td>
<td>113.4 (2,880)</td>
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<tr>
<td>Aisle Width for Pallets 32&quot; x 48&quot;, Lengthways*</td>
<td>117.7 (2,890)</td>
<td>119.4 (3,033)</td>
<td>119.4 (3,033)</td>
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<tr>
<td>Turning Radius</td>
<td>53.5 (1,360)</td>
<td>55.2 (1,402)</td>
<td>55.2 (1,402)</td>
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<tr>
<td>Travel Speed, Loaded/Unloaded</td>
<td>7.5 (12.0)</td>
<td>7.5 (12.0)</td>
<td>7.5 (12.0)</td>
</tr>
<tr>
<td>Lift Speed, Loaded/Unloaded</td>
<td>65 (330)/110 (560)</td>
<td>60 (305)/110 (560)</td>
<td>55 (280)/110 (560)</td>
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<tr>
<td>Lowering Speed, Loaded/Unloaded</td>
<td>98 (500)/89 (450)</td>
<td>98 (500)/89 (450)</td>
<td>98 (500)/89 (450)</td>
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<tr>
<td>Grade-ability, Loaded/Unloaded</td>
<td>15 (8.5)</td>
<td>15 (8.5)</td>
<td>15 (8.5)</td>
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<tr>
<td>Battery Voltage, Amp Hour Capacity</td>
<td>36/930</td>
<td>36/1,085</td>
<td>36/1,240</td>
</tr>
</tbody>
</table>

**Standard Features**

**Safety & Stability**
- Auto Parking Brake/Unlimited Ramp Hold
- Travel & Tilt Speed Control
- Battery Side Gate Interlock
- Doosan GSS (Guardian Stability System)
- ISO 3691 Mast Lowering Interlock & Tilt Lock
- LED Lights
- Doosan OSS (Operator Sensing System)
- Hydraulic Weight Scale (Dash Display)
- Blue LED Safety Lamp

**Operator Comfort**
- Low Step Height
- Floor Plate Suspension
- Extended Back Rest w/ Entry Bar
- Knee Pads
- Adjustable Arm Rest
- Easy & Instinctive Instrument Panel
- Operator Convenience Package
- Storage Pocket
- Key-less Start
- LED Operator Lamp & Fan
- Reverse Steering

**Productivity**
- Large 18" Drive Tire
- Auto Tilt Leveling
- Ergonomic Multifunctional Control Handle
- Excellent Visibility
- Smooth Acceleration & Travel
- 84.5" (2,146mm) Low OHG Height
- Bottlers Tilt & Narrow Carriage
- Cold Storage Package
- Quick Disconnect Hydraulic Connector

**Durability & Serviceability**
- All AC Drive & Hydraulic Electrical System
- Robust Frame & High Visibility OHG
- Rugged and Durable Twin Drive Axle
- IP43 Rated Drive & Hydraulic Motors
- IP65 Rated Curtis Controller
- ’Easy View’ Programmable Performance
- Toolless Covers
- Easy to Access Electronics
- Cushion Poly Tire
- Upper Drive Motor Protector

*Remark: Standard features & available options may vary by country. Please contact your local dealer for more information. Aisle width calculated using the standard ITA method.*
Doosan’s North American Dealer Network
Doosan provides the best material handling solutions for your specific needs. From energy efficient electrics to robust internal combustion forklifts, Doosan is your full-line provider.