



D35S-9 / D40S-9 / D45S-9 / D50C-9 / D55C-9  
D40SC-9 / D45SC-9 / D50SC-9 / D55SC-9

## 9-SERIES FORKLIFTS

**Pneumatic Diesel 3.5 to 5.5 ton capacity**

Euro Stage V



# Leading the way

The new world class 9-Series forklifts from Doosan

The new 9-Series forklifts continue to follow the core Doosan tradition of delivering simple, powerful performance whilst most of all, delivering the best possible value for you.

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 improved visibility and the latest design in ergonomic hydraulic controls. Thanks to an improved durable design and an additional stability system, Doosan's new 9-Series exceed the highest demands for safe operation.

Extended maintenance intervals and advanced technology components reduce the overall cost of maintenance. The new engine provides an unbeatable combination of power, performance and reliability. Each parameter is fully adjustable to match every individual requirement perfectly, providing maximum control and accuracy for every function.

“ Higher lifting and travel speed helps me to reach optimal efficiency in my job ”

### PRODUCTIVITY

- Efficient performance
- Optimized steering angle
- Excellent visibility



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

### SERVICEABILITY

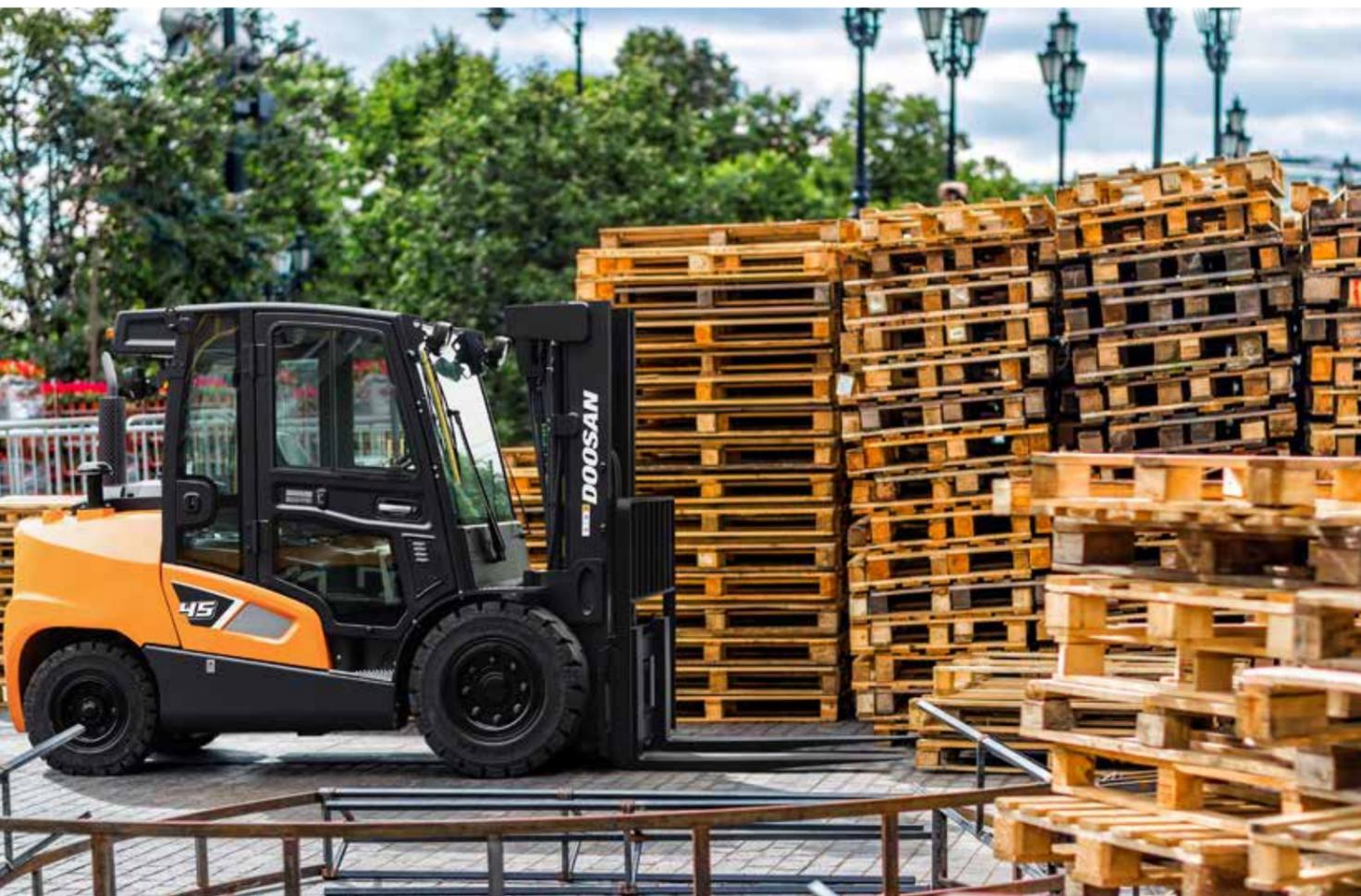
- Doosan service network coverage
- Quick service response
- Easy to fix design



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

### SAFETY AND ERGONOMICS

- Electronic parking brake (EPB)
- Operator sensing system (OSS)
- New designed operator compartment
- New instrument panel



## Features overview

Keeping you happy is our main focus, and this is guaranteed by our 9-Series internal combustion forklifts. They provide great power, excellent performance, driving comfort, durability and outstanding fuel efficiency.

### MAXIMUM PRODUCTIVITY

- Fuel efficient engine
- Multi torque mode
- ODB - Oil cooled disc brakes

### SAFETY

- Improved visibility
- LED lights
- Panoramic mirror
- Electronic parking brake
- Reverse lock



### OPTIMAL ERGONOMICS

- Spacious leg room
- Full color LCD Display
- Air conditioner and heater (optional)

### EXCELLENT RELIABILITY

- Upgraded cooling performance
- IP65 Connector
- Full floating cabin

### GREAT SERVICEABILITY

- Doosan Genuine Parts
- Easy to access service components
- Service notifications
- Tool-less removable side panel and floor plate

## Maximum Productivity



## “Boost your productivity with Doosan”



### Improved productivity

The Doosan 9-Series has an excellent driving/travel speed, drawbar pull and gradeability compared to competitors. This allows you to work very fast and efficient.

### High powered, fuel efficient engine

The G2 Doosan-built diesel engine provides high torque at low RPM and is specially designed for industrial vehicles. It effectively improves forklift acceleration, drive and climb performance. It meets Euro Stage V with a DPF.



### Multi torque mode

Doosan offers 3 performance engine maps. The 9-Series gives you the opportunity to select the mode to suits your working environment the best.

1. **ECO mode**  
Eco mode gives you the chance to save fuel by increasing the efficiency of fuel consumption. The truck's power is monitored to minimize fuel consumption caused by unnecessary acceleration.
2. **Standard mode**  
In this mode, output is not controlled.
3. **High mode**  
This mode is useful for heavy duty work. The output of the truck is increased. High mode is recommended for rental applications as it improves the workability of the truck.

ECO

STD

High

### ODB (Oil cooled Disk Brakes)

There are 3 to 5 double sided discs per wheel. Discs are submerged in oil, keeping them cool and limiting wear. The Doosan ODB system is completely enclosed and sealed from outside contaminants protecting the inner workings of the brake system from dirt, water, shrink wrap and broken pallets. Oil cooled disc brakes have a 5 times longer service interval than conventional shoe brakes, and are virtually maintenance free.



# Safety



### Improved visibility

The 9-Series have even better visibility for the operator to work safely and comfortably. The large rounded glass and cowl design provide better front and upper visibility. For even better front visibility, you can opt for the FFT wide view mast.



### Operator sensing system (OSS)

Whenever the operator leaves the seat, the truck travel and mast lifting functions will stop. This systems avoids any unintended forklift movements when the operator is not seated.



### Electronic parking brake (EPB)

The parking brake helps preventing safety accidents. When you stop working and get off the truck, the parking brake is automatically activated.



### Automatic deceleration

If you are unable to step on the acceleration pedal while driving, it automatically decelerates quickly to the minimum speed.



### Reverse lock

Changing from moving forward to reverse is only possible if the truck speed is below 3 km/h.



### Speed limit

It is possible to set a speed limit, a different limit can be set up for forward and reverse.



### Seat belt sequence interlock

The seat belt needs to be fastened when the operator is seated in order to operate the truck.



### LED lights

Brighter and last longer than traditional sealed beams or halogen lights.



### Large panoramic mirror **OPTION**

Provides the operator with a clear view of the rear working area, improving working safely & efficiently.

# Optimal ergonomics



### Air conditioner and heater OPTION

You can work comfortably without being affected by the external environment.

- Ergonomically designed air vent layout
- Internal/external air circulation control
- Air filter to prevent dust inflow
- Air volume control (air conditioner)
- Compressor on/off control (air conditioner)



### Operator comfort

The stepless steering column can be adjusted depending on the operator's driving posture, takes up less space and makes it easy for the operator to get in/out of the truck. The compact steering wheel makes driving the forklift more comfortable.



### Convenience features

The document clip board and USB port are located within the reach of the operator. Other options such as a cup holder and room light are also available.



### Easy Entry Grab Bar and Anti Slip Step Plate

Enables easy entry and exit. The wide anti slip step plate keeps the operator safe in every weather condition.



### Spacious leg room

The knee clearance is widened and the tilt cylinder is removed from the floor plate, creating more leg room.



### More headroom

The floor plate is lowered, which increases the torso clearance (+26mm). The operator has more space above the head.



### Full color LCD display

5-inch is standard, 7-inch is optional. The bright and clear panel is very visible outdoors and keeps the operator informed about the conditions of the machine.



### Wide seat (Sears & Grammer)

The Sears & Grammer seats are very comfortable, even if you have to operate the forklift for a long time.

**“Infinite adjustability, optimized controllability and exceptional reliability makes the new Doosan 9-Series, the operator's first choice.”**

# Excellent reliability & Cost savings



### Upgraded cooling performance

The Doosan 9-Series have a great cooling capacity. They are designed to withstand harsh environments. In addition, there are several suitable options for heavy duty applications:

- The fan speed has been increased so that the inside heat can be cooled down quickly.
- The vented side panel ensures that the indoor air is properly circulated.

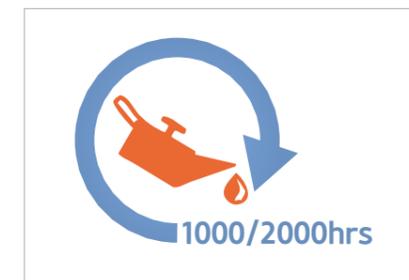
### IP 65 connector

The connector is rated IP65: the quality of the electronic components has been improved and durability has been increased.

### Full floating full cabin

The full floating full cabin reduces noise and vibration to a minimum. The 9-Series forklifts are very reliable and long lasting.

	D45S-7		D45S-9
Engine oil change		➔	
Drive axle oil change			
Transmission oil change			
Adjusting tension fan belt			
Adjusting valves			
<b>TOTAL</b>	35 service jobs	<b>-71%</b>	10 service jobs
<b>(5 years, 5,000 hours)</b>	10 service visits	<b>-50%</b>	5 service visits



### Longer Service Interval

- Engine oil : 500hr → 1,000hr
- Drive axle oil : 500hr → 2,000hr
- Transmission oil : 1,000hr → 2,000hr

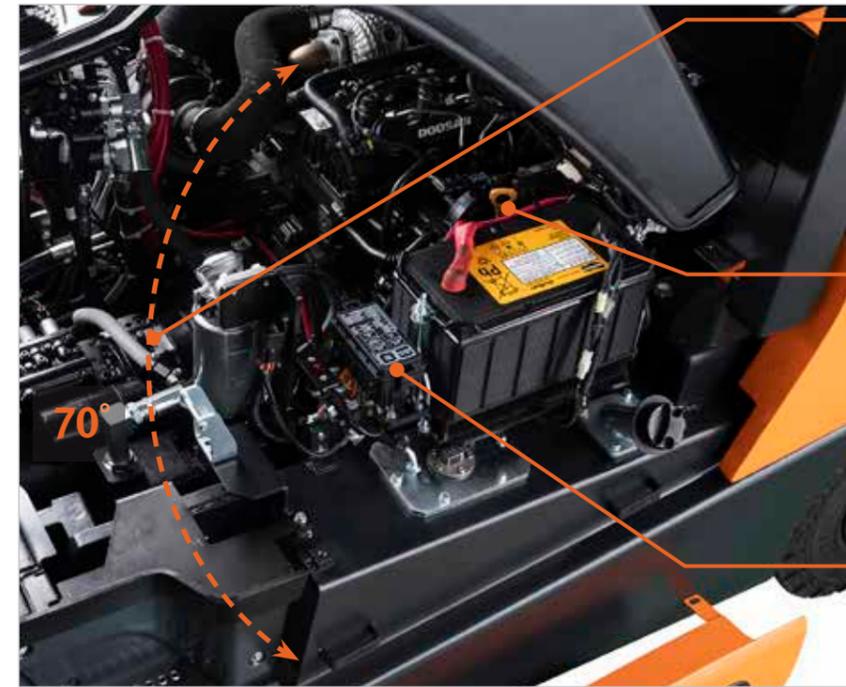
→ Total 5 years of total cost of ownership (TCO) is reduced by 71%



### Maintenance free engine

- Adjusting clearance intake & exhaust valve: 1,000hr → No adjusting (Auto)
- Adjusting tension of fan belt : 1,000hr → No adjusting (Auto)
- Bosch fuel injector applied

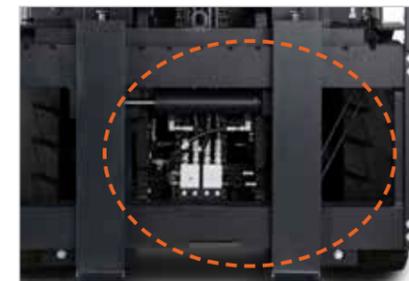
# Great serviceability



**Hood open angle**  
The hood angle is increased to 70° to make it more comfortable to service the truck.

**Transmission oil filter and pressure check**  
The transmission oil filter and pressure check port are placed on top of the transmission for easy inspection and maintenance.

**Junction box**  
The electronic components are centralized so you can inspect them all at the same time.



**Attachment hose**  
The attachment hose of the front end can be replaced individually by separating the primary/secondary section, which reduces the costs.



**Service notification**  
Truck breakdown and consumable replacement cycles are notified on the display. You can easily get the service information.



**Easy Diagnosis**  
When something goes wrong with the truck, you can easily diagnose the truck's condition with just a cable and a laptop.



**Toolless removal**  
The floor plate and side panel can be easily detached without tools which makes inspection easier.



**Radiator check**  
The cover on the counter weight is easy to attach and detach, making it easy to check the radiator.



**Doosan Genuine Parts**  
The parts warehouse supplies high quality Doosan parts to your local dealer.

# LIFTING YOUR DREAMS



## Main Specifications

		D35S-9	D40S-9	D45S-9	D50C-9
Load Capacity	kg	3,500	4,000	4,500	5,000
Load Center	mm	600	600	600	600
Load Distance	mm	560	560	560	570
Wheelbase	mm	2,015	2,015	2,115	2,115
Height, Mast lowered	mm	2,225	2,230	2,230	2,230
Free Lift	mm	160	160	160	170
Lift	mm	3,000	3,000	3,000	3,050
Height, Mast Extended	mm	4,265	4,270	4,420	4,470
Height of Overhead Guard	mm	2,225	2,230	2,230	2,230
Height of Seat	mm	1,220	1,225	1,225	1,225
Overall Length	mm	4,160	4,200	4,480	4,530
Length to Forkface	mm	2,995	3,000	3,260	3,300
Overall Width	mm	1,370	1,455	1,455	1,455
Turning Radius	mm	2,755	2,800	2,850	2,870

	D55C-9	D40SC-9	D45SC-9	D50SC-9	D55SC-9
	5,500	4,000	4,500	5,000	5,500
	600	500	500	500	500
	570	560	560	560	570
	2,115	2,015	2,015	2,115	2,115
	2,230	2,225	2,230	2,230	2,230
	170	160	160	160	170
	3,050	3,000	3,000	3,000	3,050
	4,470	4,265	4,270	4,420	4,470
	2,230	2,225	2,230	2,230	2,230
	1,225	1,220	1,225	1,225	1,225
	4,560	4,160	4,200	4,480	4,530
	3,340	2,995	3,000	3,260	3,300
	1,455	1,370	1,455	1,455	1,455
	2,900	2,755	2,800	2,850	2,870

## Standard Features and Optional Extras

### SAFETY & STABILITY

Operator Sensing System	Standard features
Auto shift controller	Standard features
Electronic parking brake	Standard features
Automatic acceleration	Standard features
Large rear view mirror	Standard features
Reverse lock	Standard features
LED combination lights	Optional extras

### ERGONOMICS

Spacious Leg Room	Standard features
Small Steering Wheel	Standard features
Large Entry Grip Bar	Standard features
Anti-slip step Plate	Standard features
Adjustable steering column	Standard features
Modular Cabin - Type A,B,C	Optional extras
Rear Grab Bar with Horn	Optional extras
Full Cabin	Optional extras

### PERFORMANCE AND PRODUCTIVITY

High Powered, Fuel Efficient Engine	Standard features
Multi Torque Mode	Standard features
Emission Regulation Stage V	Standard features
Electronic Transmission	Standard features

### DURABILITY & SERVICEABILITY

Dual element air cleaner	Standard features
Heavy duty radiator	Standard features
Tool-less side panel / floor plate	Standard features
Radiator cover on the counterweight	Standard features
Easy diagnosis	Standard features
Easy to access the components	Standard features
Service notification	Standard features
High speed fan	Standard features
Pre cleaner	Optional extras
Vented side panel	Optional extras

■ Standard features  
■ Optional extras

\* Remark : This list is based on factory data. Standard or optional can vary for specific countries.



-  Production Subsidiary
-  Sales Subsidiary
-  Parts Depot Center

EUD45S9-200730v1EN (July 2020)

Authorized Dealer



Doosan Industrial Vehicle Europe nv

Europark-Noord 36A  
9100 Sint-Niklaas  
Belgium

Tel.: +32 3 760 09 87  
Fax: +32 3 760 09 89  
Website: [www.doosan-iv.eu](http://www.doosan-iv.eu)

