



D60S-9/D70S-9/D80S-9/D90S-9

# 9-SERIES FORKLIFTS

Pneumatic Diesel 6.0 to 9.0 ton capacity

Euro Stage V



## Features overview

Customer satisfaction is important to us, and with the new 9 series internal combustion forklifts, satisfaction is guaranteed. They provide great power, excellent performance, driving comfort, reliability and outstanding fuel efficiency.

### MAXIMUM PRODUCTIVITY

- Fuel-efficient engine
- Multi torque mode
- Oil-cooled disc brakes
- Auto throttle up

### SAFETY

- Excellent visibility
- Electric parking brake
- LED lights
- Rear object detection system

### OPTIMAL ERGONOMICS

- Significantly lower noise level
- Centralized ergonomically positioned switches for all functions
- Large 7" full color display
- Heater and full automatic air conditioning

### EXCELLENT RELIABILITY

- Reinforced high durability steering axle
- Electric tilting cabin
- Mud guard
- Integrated Vehicle Control Unit

### GREAT SERVICEABILITY

- Extended service interval for key components
- Ease-of-access to all main components





## Maximum Productivity



image can include optional equipment



### Doosan engine DM03V(A) Stage V

**NEW**

- Automatic DPF regeneration
- Increased engine torque  
- 55kw (360Nm → **400 Nm**)  
- 81 kw (375 Nm → **460 Nm**)
- High durability Bosch common rail fuel system
- 3 power modes (eco/STD/high)
- Extended engine oil change interval
- Auto-adjust for intake & exhaust valve clearance (maintenance-free)
- Auto-adjust fan belt (low maintenance costs)

### Strong and durable drive axle

The use of the heavy duty front axle in combination with the electric parking brake enhances the durability and safety. The oil-cooled disc brakes (OCDB) ensure reliable braking at very low maintenance costs.



### Auto throttle up

**NEW**

By using any hydraulic function, engine RPM is increased allowing for a smoother hydraulic function without the need of increased use of the accelerator.



### Electronic controlled 3-speed transmission (ZF-3WG-94)

- Proportionally controlled gear shift for excellent gear transition  
- Torque converter stator freewheel with excellent power efficiency
- Improved fuel-efficiency while driving long distance or working for long hours
- Optimized power matching of the engine with the transmission  
- Excellent engine responsiveness, powerful performance and soft gearshift
- Diagnostic system integrated in the display



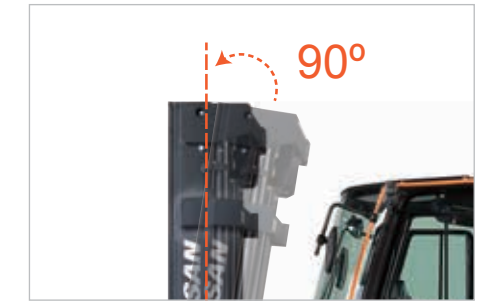


# Safety



### Electric parking brake **NEW**

The parking brake can be operated by a switch and is automatically activated.



### Auto tilt leveling **OPTION**

By pressing a button on the tilting handle, the mast will automatically move to an upward position.



### Rear object detection system **OPTION** **NEW**

When a pedestrian or object is detected in the operating area of the truck, a beeping sound will alert the operator and the pedestrians.



### LED lights **OPTION** **NEW**

LED headlight for low beam/high beam is applied for the first time in the industry and guarantees a complete LED lamp installation. This contributes to clear visibility and efficiency whilst working in areas with reduced lighting. This helps to reduce maintenance costs and prevent hazards/accidents.

image can include optional equipment

### Front/rear view camera **OPTION**

Workplace safety is ensured by maximizing front/rear visibility.



### Blue safety light **OPTION**

Projects a blue spot on the floor to alert pedestrians.



### Excellent visibility **NEW**

The re-designed all-open cabin that provides the operator optimal visibility at any time from all angles. This enhances workability and safety.



image can include optional equipment



# Optimal Ergonomics



## Integrated type 7" multi-function display panel **NEW**

The largest mounted display in its class provides excellent operability and visibility.

- Front and rear view camera **OPTION**
- PIN code
- Integrated maintenance management program
- Weight indicator **OPTION**
- Diagnostic function
- Located on A-pillar for optimal view



## Big anti slip step plate **NEW**

Low height of the 1st and 2nd steps to allow the operator to get on and off the truck easily and safer.

## Convenient and easy-to-use heating, ventilation and air-conditioning (HVAC) system **NEW**

This system offers integrated heating/cooling/ventilation control, allowing automatic heating/cooling temperature control (full automatic temperature control). The all-in-one heating/air conditioning system with its twin evaporators provides excellent performance.



image can include optional equipment



## Centralized switches **NEW**

All control switches are arranged in one place, making the machine more convenient. In addition, each control switch includes a status indicator to show the actual function status. Next, double USB ports and a power jack is standard available.



Sun visor



Steering wheel providing fore-/backwards and up/down adjustment

Air suspension seat **OPTION**

# 74dBA\*

\*noise level at driver's ear, depending on model



## Significantly lower noise level **NEW**

The over-pressurized cabin ensures that no dust can enter.

- 2 large air filters clean the supplied air
- Very low noise and vibration level inside the cabin for high driving comfort

image can include optional equipment



## Excellent reliability & serviceability



### Heavy duty steering axle

**NEW**

Equipped with tapered rollers and spherical bearings to ensure the highest durability at any time.



### Junction Box

**NEW**

The electronic components are centralized so service can be done quickly and easily.



### Same wheels applied to the front/rear wheel

**NEW**

**OPTION**

This helps to minimize the amount of spare tires required, reducing inventory costs while allowing them to be easily carried for emergency use or tire replacement. The rear wheel nut covers are also provided to prevent damage to the nut by external impact.



### Cockpit tilting (Auto/Manual)

**NEW**

Automatic/manual cockpit tilt functions are available and the cabin can be opened to 60° with a simple switch, making inspection and maintenance quick and easy.

### Hood open angle

**NEW**

The wide open angle make it more convenient to service the truck.

image can include optional equipment

STANDARD

OPTION

### Mud guard

**OPTION**

**NEW**

Keeps the vehicle clean.

### Integrated type vehicle control unit (VCU)

**NEW**

This smart, innovative system offers the integrated control of various decentralized control units in combination with CAN communication, enabling vehicle diagnostics and management as well as various safety and comfort functions on demand. The system can be updated when new functions are available.

### Auto Tilt Leveling



### Speed Limit



### Vehicle Control Unit



### Electric Parking Brake





# LIFTING YOUR DREAMS



## Main Specifications

		D60S-9	D70S-9
Engine manufacturer		Doosan	Doosan
Engine type		DM03	DM03
Engine power according to DIN ISO1585	kW	55.4	
Rated speed	min-1	2,300	2,300
Torque at 1/min	N•m	400	400
Travel speed, loaded/unloaded	km/h	30.7/34.7	28.6/34.5
Lift speed, loaded/unloaded	mm/s	470/530	410/470
Drawbar pull, loaded (@ 1.6km/h)	kg	5,009	4,997
Gradeability, loaded(@ 1.6km/h)	%	34.8	31
Fuel tank capacity	l	160	160
Sound level at the driver's ear (according to EN 12 053)	dB(A)	72	72
Height of cabin	mm	2,535	2,535
Ground clearance, loaded, below mast	mm	196	196
Ground clearance, center of wheelbase	mm	214	214
Load Distance: center of driveaxle to fork	mm	632	632
Wheelbase	mm	2,300	2,300
Service weight	kg	9,435	10,100
Height of seat	mm	1,455	1,455
Length to forkface	mm	3,618	3,697
Overall width	mm	2,156	2,156
Turning radius	mm	3,380	3,430

	D60S-9	D70S-9	D80S-9	D90S-9
Engine manufacturer	Doosan	Doosan	Doosan	Doosan
Engine type	DM03	DM03	DM03	DM03
Engine power according to DIN ISO1585	80.9			
Rated speed	2,300	2,300	2,300	2,300
Torque at 1/min	460	460	460	460
Travel speed, loaded/unloaded	30.8/34.3	30.2/34.2	30/35	30/35
Lift speed, loaded/unloaded	500/540	440/480	430/480	430/480
Drawbar pull, loaded (@ 1.6km/h)	6,210	6,161	6,541	5,793
Gradeability, loaded(@ 1.6km/h)	45	39	35	28
Fuel tank capacity	160	160	255	255
Sound level at the driver's ear (according to EN 12 053)	74	74	74	74
Height of cabin	2,535	2,535	2,771	2,771
Ground clearance, loaded, below mast	196	196	283	283
Ground clearance, center of wheelbase	214	214	329	329
Load Distance: center of driveaxle to fork	632	632	725	725
Wheelbase	2,300	2,300	2,500	2,500
Service weight	9,435	10,100	11,330	11,980
Height of seat	1,455	1,455	1,526	1,526
Length to forkface	3,618	3,697	4,014	4,040
Overall width	2,156	2,156	2,230	2,230
Turning radius	3,380	3,430	3,650	3,680

## Standard Features and Optional Extras

### SAFETY

Electric Parking Brake	Standard
Speed Limit	Standard
Rear view mirror (LH/RH)	Standard
Panoramic mirror	Standard
Vehicle control unit (VCU)	Standard
Seat Belt Interlock	Optional
Safety light (always on or activated by gear)	Optional
4th lever interlock for attachment	Optional
Rear object detection system with beep sound	Optional
Front camera, rear view camera	Optional
Weight indicator (hydraulic/load cell)	Optional
Auto tilt leveling	Optional
Anti-surge function	Optional

### ERGONOMICS

7" multi functional display (full color)	Standard
Telescopic steering column (with tilting)	Standard
Power jack & USB port	Standard
Rear grab bar with horn	Standard
Suspension seat with arm rest	Standard
Grammer, air suspension, arm rest, heating	Optional
Full cabin	Optional
Heater & air conditioner	Optional
Audio (DAB type Radio, MP3)	Optional

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

### PRODUCTIVITY

3-speed ZF transmission (Autoshift)	Standard
Oil-cooled disc brakes	Standard
Front LED light	Standard
Multi torque mode (eco/STD/power)	Standard
2 Rear LED lights	Optional
Additional 2 front LED lights (on cabin or on mast)	Optional
Combination LED lights (with hazard switch)	Optional
Push button to start with pin code	Optional
Strobe light (above/below)	Optional
Rotating strobe light (above, LED)	Optional
Radial tires	Optional

### RELIABILITY

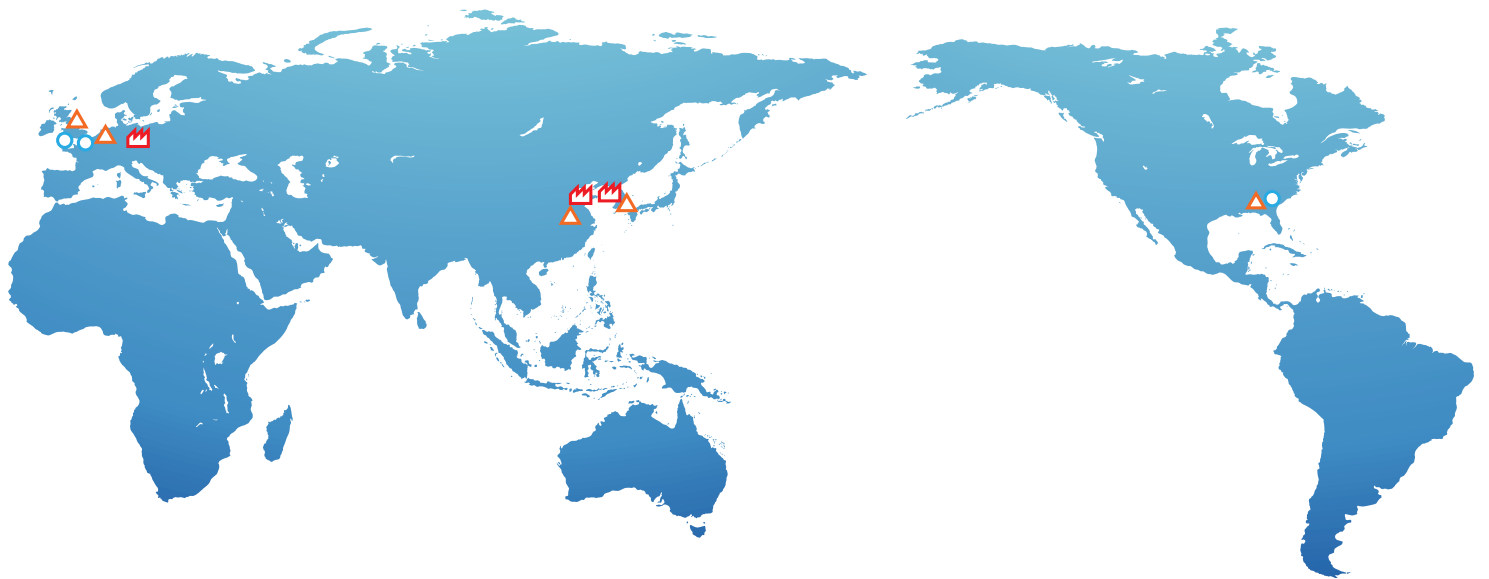
Anti-moisture electric connectors	Standard
Additional cooler (hydraulic/transmission oil)	Optional
Radiator screen	Optional
Under protection (belly plate)	Optional
Pre-fuel filter	Optional
Mud guard (rear tire)	Optional




### SERVICEABILITY

Junction box	Standard
Manual tilting	Standard
Automatic tilting	Optional
Tankless air compressor	Optional
Steer axle common wheel (with wheel nut cover)	Optional

Standard  
Optional





-  Production Subsidiary
-  Sales Subsidiary
-  Parts Depot Center

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Authorized Dealer



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