



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



image can include optional equipment



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 **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.

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.

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

Sun visor



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

OPTION

NEW

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

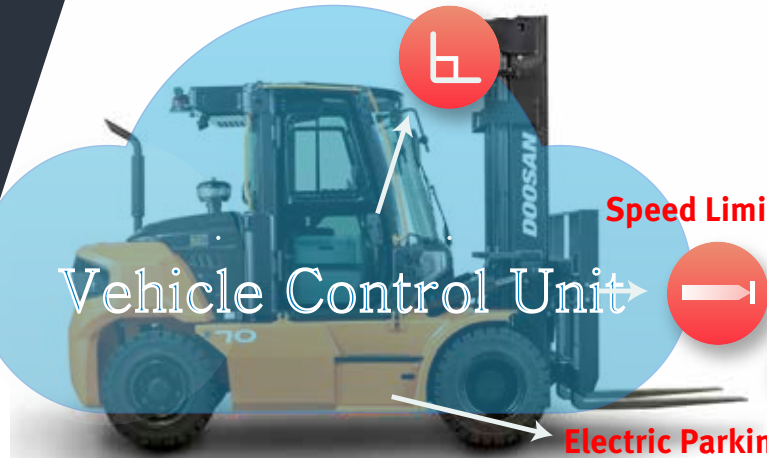


Speed Limit



Electric Parking Brake

Vehicle Control Unit



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	
Doosan		Doosan		Doosan		Doosan	
DM03		DM03		DM03		DM03	
80.9							
2,300		2,300		2,300		2,300	
460		460		460		460	
30.8/34.3		30.2/34.2		30/35		30/35	
500/540		440/480		430/480		430/480	
6,210		6,161		6,541		5,793	
45		39		35		28	
160		160		255		255	
74		74		74		74	
2,535		2,535		2,771		2,771	
196		196		283		283	
214		214		329		329	
632		632		725		725	
2,300		2,300		2,500		2,500	
9,435		10,100		11,330		11,980	
1,455		1,455		1,526		1,526	
3,618		3,697		4,014		4,040	
2,156		2,156		2,230		2,230	
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	Optional
Manual tilting	Standard
Automatic tilting	Standard
Tankless air compressor	Optional
Steer axle common wheel (with wheel nut cover)	Optional



-  Production Subsidiary
-  Sales Subsidiary
-  Parts Depot Center

EUD70S9-210906v1EN (August 2021)

Authorized Dealer



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