



9-SERIES FORKLIFTS

Pneumatic diesel 6.0 to 9.0 tonne capacity

D60S-9/D70S-9/D80S-9/D90S-9 Euro Stage V

BUILT TO MEET THE NEEDS OF DEMANDING INDUSTRIAL ENVIRONMENTS

The Doosan 9-Series internal combustion forklifts is designed to handle the toughest most demanding environments requiring heavy lifting; providing great power, excellent performance, driving comfort, reliability and outstanding fuel efficiency.

Fitted with a Doosan fuel efficient engine running with the ULFCT*, this series can handle demanding lifting requirements in the most efficient way whilst enhancing productivity.



* Ultra Low Fuel Consumption Technology

ALL NEW 9 SERIES DIESEL FORKLIFT

01

MAXIMUM PRODUCTIVITY

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

02

SAFETY

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

03

OPTIMAL ERGONOMICS

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

04

EXCELLENT RELIABILITY

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

05

GREAT SERVICEABILITY

- Extended service interval for key components
- Easy-to-access all main components

NEW FEATURES

- Doosan 3.4L engine
- New design cabin
- HVAC1 system (2-in-1 air-conditioner)
- 7" Multi-function full colour display panel
- Comfortable full suspension seat
- Significantly lower noise level
- VCU (Vehicle control Unit)
- Auto throttle up
- Full LED lamp
- Highly durable steer axle
- IP67 connector
- Mud guard (Optional)
- Fan belt auto-tensioner
- Maintenance-free for valve clearance
- Fan belt auto-tensioner
- Lin-Q (Doosan Telematics System)

Built for Maximum Productivity



Strong and durable drive axle

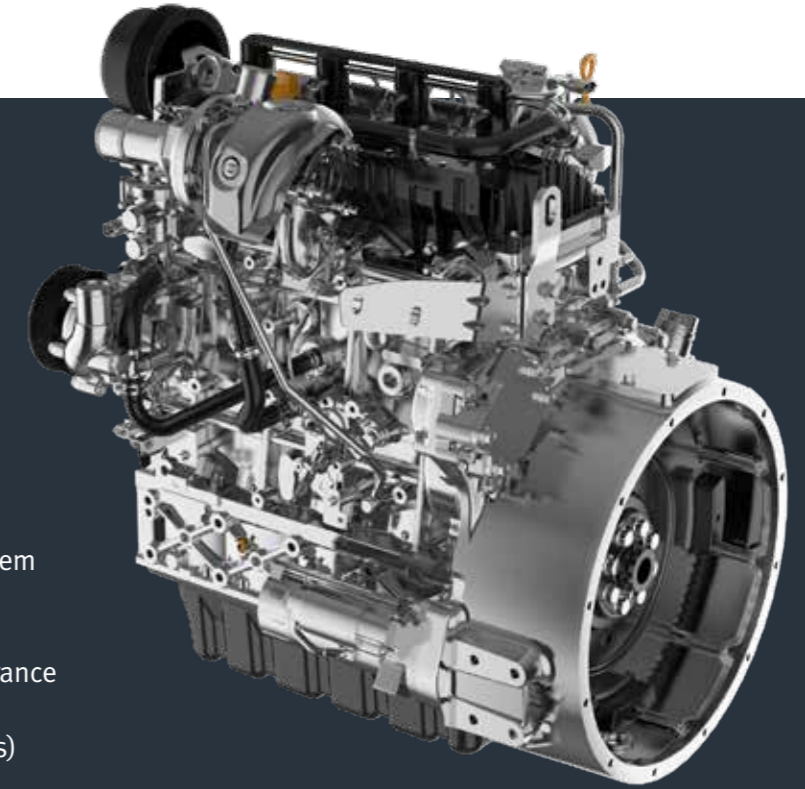
The use of the heavy duty front axle in combination with the electric parking brake enhances durability and safety. The oil cooled disc brakes (ODB) ensure reliable braking at very low maintenance costs.



Image may include optional equipment

Doosan Engine **NEW** DM03V(A) Stage V

- 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)



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

Auto throttle up **NEW**

By activating a hydraulic function, the engine idle speed will be increased automatically in order to offer a fine response of the hydraulic system.



Built for Safety



Image may include optional equipment



Electric parking brake **NEW**

The parking brake can be operated by a switch and is automatically activated when the speed is below 3 km/h.



Auto tilt leveling **OPTION**

At the touch of a button, 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.

Front/rear view camera **OPTION**

Workplace safety is ensured by maximizing front/rear visibility.



Blue safety light **OPTION**

Projects blue spot on the floor to alert pedestrians.



Excellent visibility **NEW**

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



Image may include optional equipment

Built for 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 at 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 comfortably.

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.



Centralized switches **NEW**

All control switches are arranged in one place, making the machine more accessible to the operator. 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.



74dBA*

Significantly reduced noise level
*Perceived noise level depending on the model

Image may include optional equipment



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

Sun visor



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

Air suspension seat **OPTION**

Built for Excellent Reliability



Highly durable steer 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 quick and easy.



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 wheel nut cover is also provided to prevent damage to the nut by external impact.



Cockpit tilting (Auto/Manual)

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

The increased hood angle from 30° to 50° makes it more comfortable to service the truck.

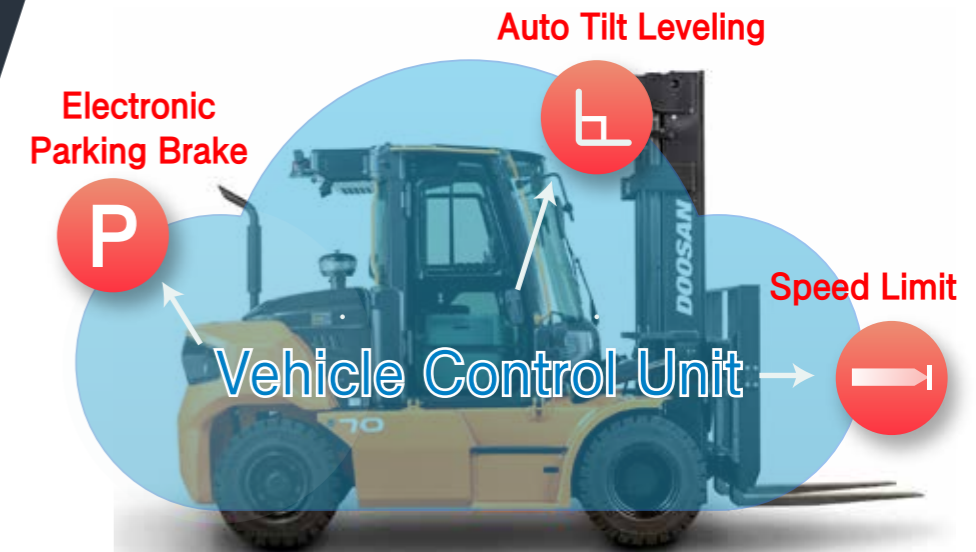


Mud guard **OPTION**

Keeps the vehicle clean.

Integrated type vehicle control unit (VCU)

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.



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

Standard
Optional

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/activated by gear)	Optional
4th lever interlock for attachment	Optional
Rear view camera	Optional
Front & rear view camera	Optional
Weight indicator (hydraulic/load cell)	Optional
Auto tilt leveling	Optional
Anti-surge function	Optional
Siren & Microphone	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

PRODUCTIVITY

3-speed ZF transmission (Autoshift)	Standard
Oil-cooled disc brakes	Standard
Front LED light	Standard
Multi torque mode (eco/STD/power)	Standard
Rear 2 LED lights	Optional
Additional 2 front LED lights (on cabin or on mast)	Optional
Combination LED lights (with hazard switch)	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

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 complete my job efficiently ”

PRODUCTIVITY

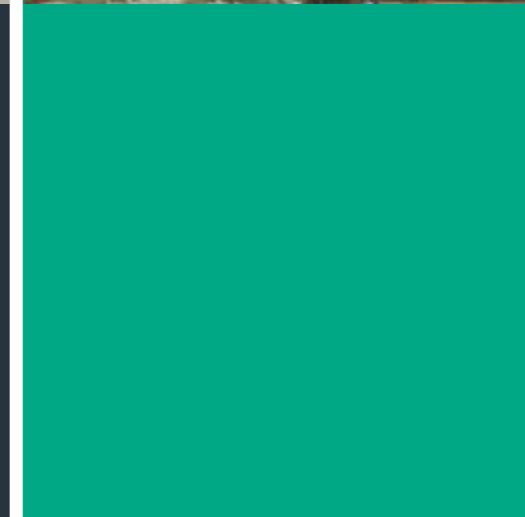
- Strong and durable drive axle
- Euro Stage V engine
- 3 stages of speed transmission



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

SAFETY AND ERGONOMICS

- Electric parking brake (EPB)
- Excellent visibility
- New designed operator compartment
- New instrument panel






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

SERVICEABILITY

- Doosan service network coverage
- Quick service response





-  Production Subsidiary
-  Sales Subsidiary
-  Parts Depot Center

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Authorised Dealer



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