



DOOSAN

9-SERIES FORKLIFTS

Pneumatic diesel 10.0 to 16.0 tonne capacity

D100S-9 / D120S-9 / D140S-9 /
D160S-9 / DV160S-9

Euro Stage V

LOW FUEL CONSUMPTION, POWERFUL PERFORMANCE

BUILT FOR OUTSTANDING PERFORMANCE IN HEAVY DUTY ENVIRONMENTS

The 10-16t diesel forklift series provide superb performance and high power output, thanks to Doosan's own award winning G2 Diesel Engines. The stage V compliant ultra low emission engine in this series offer increased combustion efficiency and two power modes (ECO / STD), allowing you to tailor the output to suit the needs of the application.

Featuring the rugged reliability, the strong and rigid chassis frame, designed mostly out of metal, ensures that Doosan is the best choice for all applications. The re-designed all-open cabin that provides the operator optimal visibility at any time from all angles. This enhances workability and safety.



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
- Guardian Stability System
- 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

- Integrated Vehicle Control Unit
- Electric tilting cabin
- Mud guard
- New steer axle equipped with taper roller bearing

05

GREAT SERVICEABILITY

- Extended service interval for key components
- Junction box

NEW FEATURES

- Doosan DL06V(P) Engine
- Closed Center Load Sensing (CCLS)
- Auto throttle up
- LED lights
- Rear object detection system
- Integrated type 7" multi-function display panel
- Convenient and easy-to-use heating, ventilation and air-conditioning (HVAC) system
- Centralized switches
- Significantly lower noise level
- Fan Driving System
- Junction Box
- Centralized Pressure Detection Port
- Cockpit tilting (Auto/Manual)
- Hood open angle
- Heavy duty steering axle
- Integrated type vehicle control unit (VCU)

Maximum Productivity

Doosan engine DL06V(P) Stage V

NEW

- Stage V conform
 - Exhaust ash cleaning solutions; DPF installed additionally
 - Automatic DPF regeneration
- Increased combustion efficiency and durability.
 - Fuel efficiency improved by 5%, heat decreased by 20%.
- Optimized fuel injection function ensures reliable ignition at low temperatures.
- Power modes (ECO/STD)



High-performance & high-efficiency ZF full automatic 3-speed 3WG171 transmission

- Large capacity ZF 3-Speed 3WG171 transmission
 - Improved power transmission efficiency by stator freewheel
 - Excellent driving and traction
 - 5% higher fuel efficiency compared to previous models
- Optimized power matching of the engine with the transmission
 - Excellent engine responsiveness, powerful performance and soft gearshift
- Providing efficient maintenance through the self-diagnosis system

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.





Closed Center Load Sensing (CCLS)

NEW

Uses only the necessary volume of oil depending- on the load, leading to lower fuel consumption and less heating during long-distance driving. This series performs excellently during driving and complex operations.

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.



Safety



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.





GSS(Guardian Stability System)

Doosan's unique safety system provides various safety functions including mast, actuator, light and camera, helping to prevent unexpected accidents.



Hill Start Assist (HSA)

Automatically activates the parking brake when stopping on a slope and deactivates it when the accelerator pedal is pressed, so that the machine does not roll back from a slope and driving stability is greatly improved.



LED lights OPTION



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.



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



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



Electric parking brake

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

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.



Optimal Ergonomics



1. 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



2. Fingertip controls **OPTION**

Ergonomically designed fingertip controller ensures accurate and fine control with less fatigue and improved efficiency.

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.



3. 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.

1

2

3

Sun visor



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

Air suspension seat **OPTION**

71dBA

*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



Fan Driving System

OPTION

NEW

The fan speed is variably controlled by the coolant and brake oil temperature to minimise energy loss. The fan reverse function facilitates cleaning of the radiator.



Junction Box

NEW

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



Centralized Pressure Detection Port

OPTION

NEW

The pump, brake, and steering pressure measurement ports are independently built-in and centralized for easier pressure checking.

Heavy duty steering axle

NEW

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





Cockpit tilting (Auto/Manual) NEW

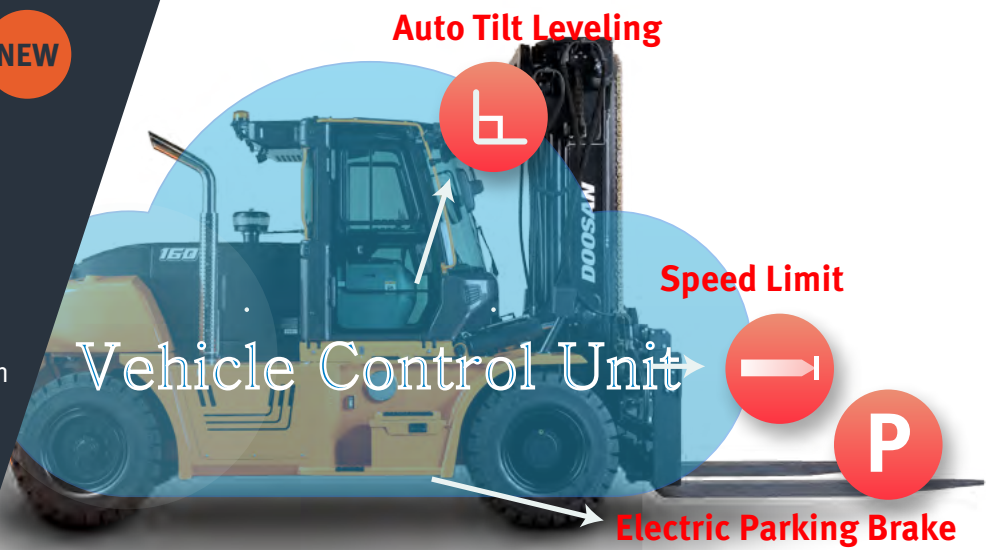
Automatic/manual cockpit tilt functions are available and the cabin can be opened to 60° with a simple switch, making inspection and maintenance quick and easy.

Hood open angle NEW

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

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.



Leading the way

The new world class 9-Series forklifts from Doosan



“
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 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.



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

SERVICEABILITY

- Doosan service network coverage
- Quick service response

“
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



Main Specifications

		D100S-9	D120S-9	D140S-9	D160S-9	DV160S-9
Engine manufacturer		Doosan	Doosan	Doosan	Doosan	Doosan
Engine type		DL06	DL06	DL06	DL06	DL06
Engine power according to DIN ISO1585	kW	128.7	128.7	128.7	128.7	139.7
Rated speed	min-1	2,100	2,100	2,100	2,100	2,100
Torque at 1/min	N•m	725.7	725.7	725.7	725.7	784.5
Travel speed, loaded/unloaded	km/h	36/41	35/40	30/35	29/34	34/39
Lift speed, loaded/unloaded	mm/s	460/490	450/490	410/460	400/460	390/460
Drawbar pull, loaded (@ 1.6km/h)	kg	11,544	11,474	12,534	12,464	12,504
Gradeability, loaded(@ 1.6km/h)	%	51	44	43	38	32.4
Fuel tank capacity	l	195	195	235	235	200
Sound level at the driver's ear (according to EN 12 053)	dB(A)	71	71	71	71	71
Height of cabin	mm	2,950	2,950	2,980	2,980	2,980
Ground clearance, loaded, below mast	mm	240	240	235	235	200
Ground clearance, center of wheelbase	mm	315	315	345	345	345
Load Distance: center of driveaxle to fork	mm	755	770	815	815	985
Wheelbase	mm	3,000	3,000	3,250	3,250	3,750
Service weight	kg	15,300	16,300	18,300	19,300	23,523
Height of seat	mm	1,800	1,800	1,830	1,830	1,830
Length to forkface	mm	4,490	4,500	4,830	4,830	5,555
Overall width	mm	2,350	2,350	2,490	2,490	2,540
Turning radius	mm	4,255	4,255	4,545	4,545	5,115

Standard Features and Optional Extras

SAFETY

Electric Parking Brake	Standard
Operator Sensing System (OSS)	Standard
Hill Start Assist (HSA)	Standard
Speed Limit	Standard
Rear view mirror (LH/RH)	Standard
Guardian Stability System (GSS)	Optional
Seat Belt Interlock	Optional
Safety light (always on or activated by gear)	Optional
4th lever interlock for attachment	Optional
Front camera, rear view camera	Optional
Weight indicator (hydraulic/load cell)	Optional
Auto tilt leveling	Optional
Rear object detection system with beep sound	Optional

ERGONOMICS

Full cabin	Standard
Suspension seat with arm rest	Standard
7" multi functional display (full color)	Standard
Telescopic steering column (with tilting)	Standard
Rear grab bar with horn	Standard
Power jack & USB port	Optional
Fingertip (3-way, 4-way, 5-way)	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.

Standard
Optional

PRODUCTIVITY

3-speed ZF transmission (Autoshift)	Standard
Closed Center Load Sensing (CCLS)	Standard
Auto Throttle up	Standard
Oil-cooled disc brakes	Standard
Multi torque mode (eco/STD)	Standard
Front and rear combination LED lights (with hazard switch)	Standard
Front 2 LED Light (on operator compartment)	Optional
Rear 2 LED Light (on operator compartment)	Optional
Additional 2 front LED lights (on mast)	Optional
Additional 1 Rear LED (on counterweight)	Optional
Strobe light (above/below)	Optional
Rotating strobe light (above, LED)	Optional




DURABILITY

Anti-moisture electric connectors	Standard
1/2" attachment hose	Standard
Under Protection (engine Guard)	Standard
Under protection (belly plate)	Optional
Mud guard (front/rear tires)	Optional

SERVICEABILITY

Junction box	Standard
Manual tilting	Standard
Automatic tilting	Standard
Battery disconnect switch	Standard
Hydraulic pressure check package	Optional
Tankless air compressor	Optional
Automatic reversible cooling fan	Optional



-  Production Subsidiary
-  Sales Subsidiary
-  Parts Depot Center

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Authorised Dealer