



# DV 250S-7

Doosan 7.6litre diesel engine, 295PS  
Operational Weight : 25,000kg



Doosan Industrial Vehicle





## Welcome to Doosan

The values and philosophy that drives our future growth

### Welcome to Doosan

The Doosan Way is a unique set of corporate values and philosophy that has our growth. It is a systematic management philosophy for sustaining Doosan and raising our future competitive edge. The Doosan Way consists of two key parts: the Doosan Credo and a distinctive business system.

### The Doosan Credo

A resolute vision, the Doosan Credo unifies our employees worldwide, providing the direction in which we march together toward the future. Our shared aspiration is to be a global leader that provides world-class products and services that employees, customers, shareholders, and other stockholders can trust and take pride in. The Doosan Credo places the highest importance on people, integrity, innovation, and delivering value to our customers and partners.

### The Efficient Business System

Our core business system is comprised of human resources, strategy execution, and financial management. Through this system, we implement our "2G Strategy" a manifestation of our conviction that our business can only grow through the growth of our people. It binds and systematizes our strategy with our people, multiplying business results. The Doosan business system supports the performance-oriented culture of Doosan and paves the way for continuous growth and development.

## Doosan Industrial Vehicle

Established in 1968, Doosan Industrial Vehicle has been determined to meet customer's needs for quality materials handling supplies and services, and has become a pillar of Korean industries.

As a result of our dedication and hard work, we are the number one supplier in our domestic market, with an accumulated production volume in excess of 380,000 units.

All our machines are designed to offer simple, powerful performance as well as operator comfort and environmental friendliness that help you to get the most from your investment. As a result, we have won a number of awards:

The World Best Awards given to the most distinguished product in 2000, the Human Engineering Design Awards conferred to superior products in terms of the driver's convenience in 2005, and the Safety Awards for exceptional products that provide superior safety from the UK's Forklift Truck Association Awards.



# DV 250S-7



## In a nutshell...

**Superb productivity** – due to the use of a new generation engine and the excellent synchronisation of the drive train with the hydraulics system.

**Excellent ergonomics**, increased comfort and excellent all round visibility ensuring safe and pleasant working conditions.

**Rugged reliability** – through the use of higher performance new materials, the development of new computer-assisted structural design techniques and by intensive and systematic test programs. All combining to increase the life of vital components and reduce maintenance.

**Reduced maintenance**, increasing uptime and reducing operating costs.

## ✓ Key features

**01 Well selected components and engines** that deliver high torque at low rpm.  
– Powerful low emission **engines** provide high torque at low revs, reduce fuel consumption, and meet current environmental requirements.

**02** The trucks have **well-tested load-sensing hydraulics** that provide increased efficiency and better performance.

**03** The **cabins** of our trucks are probably the best on the market, with unbeatable comfort, visibility, and ergonomics.

**04 Box-type chassis and I-beam type steer axle** is the strongest in the market ; providing greater lifting capacity.

**05 Quick change system** for different forks, coil rams or attachments. Offers unique flexibility and greater efficiency, for all load types, including steel, wood, paper, and containers.

**06 Remote fan** which is able to reverse for cleaning the radiator core. Fan speed is controlled by oil temperature.



# A great place to work...

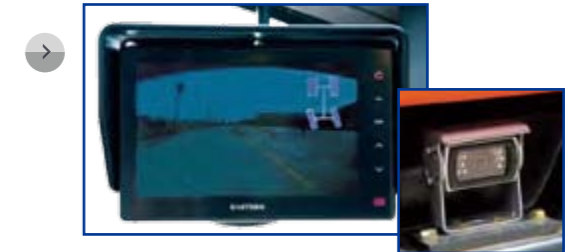


## Full-suspension leather seat



← A full-suspension heated leather seat reduces operator fatigue.

## Reverse rear camera & monitor



→ Superb rear vision is provided by the in-built rear camera and full colour LCD monitor.

*\*Available as an option*

## Hydraulic control levers



The DV250 offers the latest hydraulic control levers, including the facility to add attachment control at no extra cost. The added pilot button gives the hydraulic control lever a more natural, soft feel and allows the operator more accurate control of the sideshift function.

Added safety is provided by ensuring hydraulic function is not possible if an operator departs from the seat for 3 seconds or more, or when the engine has stopped.

## Front/rear & upper/lower adjustable steering wheel



The steering wheel is adjustable forward or backward, upward or downward allowing the operator to find the most comfortable position.



## → Comfortable & Convenient Operator Compartment

Designed to provide greater rigidity and comfort, the new Zeus Cabin offers an clear dashboard and high quality interior, along with excellent heating and cooling ability. In addition to several features intended to reduce noise and vibration, increase productivity and ease of operation, superb options, such as a rear camera and LCD screen, or onboard electronic weighing scale, means the operator has everything they need at their fingertips.





# “High powered, fuel efficient performance”

Powerful and delivering excellent fuel efficiency, Doosan's DL08 electronic-controlled engine, combined with the full-automatic 3-Gear transmission, load-sensing hydraulic system and oil-cooled disc brakes (ODB) provide excellent levels of productivity, durability and value for money.



## ENGINE PERFORMANCE

**High Powered & Fuel Efficient Engine**  
The 7.6 Litre DL08 engine is one of the most powerful and fuel efficient ever produced by Doosan.

Designed to meet all Tier 3 legislation requirements for exhaust gas emissions, this 295 PS powerhouse is designed and built to rigorous standards and is already utilized in heavy duty Doosan construction equipment across the globe.

### Long lasting endurance drive axle



A Kevlar disc means our long lasting drive axle is not only quieter and heat resistant, it is also more durable and resistant to harsh environments. Combined with our signature semi-permanent heat treated oil cooled disc brakes, we are able to improve component efficiency and dramatically cut the cost of maintenance.

### Load detection system



By detecting the presence of the load, we are able to channel additional power to the drivetrain to ensure a smooth and efficient operation. Not only is the system economically cost efficient, (a BOSCH-REXROTH piston pump with CCLS – Closed Center Load Sensing–technology is applied for energy saving) but it also provides greater comfort for long distance travelling. It also increases the durability of the engine and hydraulic systems.

### Automatic 3-gear transmission



The transmission is smooth with the gear ratios optimised for heavy lifting. There are no shocks, resulting in an appreciable level of comfort for the operator. The traction force is optimum under all working conditions, thanks to CANbus information exchange technology. The combination of these characteristics enables the truck to maintain high speed under all conditions.



# Greater durability and easier maintenance



### Automatic tilting



Electric Tilting



Manual Tilting

Enabling clear and safe access to the key drivetrain components, the cabin will electronically tilt and lock at up to 65 degrees.

### Durable Steering Axle



The use of an I-beam structured steering axle adds greater strength, whilst bearings in the steering axle increase rigidity, increases durability and truck stability.

### Easy Access Steering Axle Grease Inlet



The steering axle grease-inletting hole is located in a central position, ensuring accessibility and ease of grease injection.

### Large-capacity transmission oil cooler



Enables the transmission system to maintain optimum temperature and operate at peak performance.

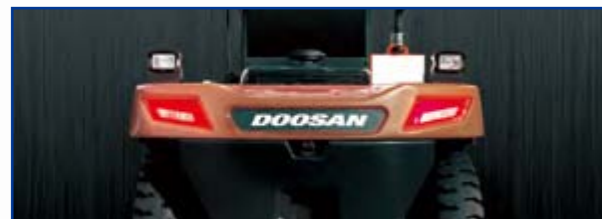
### Fan drive system



Onboard sensors are able to monitor critical coolant and brake oil temperatures. When required, the fan drive system varies the fan speed, minimising energy loss and ensuring the radiator remains free of contaminants. The system also has the added benefit of being simple to check and maintain.



# For your Convenience and Safety



## LED brake lamp

LED side and brake lights provide greater visibility at night, as well as increased durability



## Battery switch

An emergency switch interrupting the main power of the battery is provided to prevent potential damage to electronic parts during maintenance. The switch also allows the prevention of battery discharging when the machine is parked for a long period of time.

## Digital LCD instrument panel



The on-board digital LCD display shows both engine rpm and transmission information. By pressing 'UP', the readout converts to the electronic scale.

*\*Requires Zeus cabin*

## All-in-one electronic Inching & braking



A new development all-in-one pedal enables you to manoeuvre precisely while maintaining high engine revs for the hydraulic functions. The red button control means you can seamlessly regulate the speed with the brake pedal while lifting at full power.

## Fully exposed safe steps



Wide open steps and anti-slip safety mats make sure convenient and safe footing during riding or leaving.

## Creative positioning of air compressor



Enables optimum cooling, allowing the truck to stay at optimum levels of performance for longer.

*\*Available as an option*



## Application of roller bearing cage type

The roller bearing mounted cage type makes sure quick transfer of fork as well as swift attaching/detaching of various attachments, in which hydraulic driving concept is incorporated to achieve the same speed in left and right forks. (dual operation of shaft type and hook on type forks)



## Clear lighting

To improve visibility and efficiency in working at night the DV250S-7 comes complete with 10 working lights (6 front spotlights, 4 rear lights)





### Worldwide Locations

The location and contact information of Doosan Industrial Vehicle's Global subsidiary office and R&D Center can be found.

Country	State	Company
South Korea	Seoul	Doosan Industrial Vehicle Co., Ltd.
South Korea	Incheon	Doosan Industrial Vehicle Co., Ltd.
China	Beijing	Doosan Industrial Vehicle Yantai Co., Ltd.(Beijing Branch)
China	Yantai	Doosan Industrial Vehicle Yantai Co., Ltd.
China	Zhongshan	Doosan Industrial Vehicle Yantai Co., Ltd.(shanghai office)
Germany	Bersteland	Doosan Logistics Europe GmbH
Germany	Essen	Doosan Industrial Vehicle Europe (Germany)
Belgium	Sint-Niklaas	Doosan Industrial Vehicle Europe N.V.
United Kingdom	Northampton	Doosan Industrial Vehicle UK Ltd
Italy	Lissone	Doosan Industrial Vehicle Europe (Italy)
France	Elancourt	Doosan Industrial Vehicle Europe (France)
United States	OH	Doosan Industrial Vehicle America Corp. (Cleveland)
United States	GA	Doosan Industrial Vehicle America Corp.

### Specifications

Main specifications			
1	Manufacturer		DOOSAN
2	Model		DV250S-7
3	Capacity	At rated load center	kg 25000
4	Load center	Distance	mm 1200
5	Power type	Electric, diesel, LPG	Diesel
6	Operator type	Stand-on, rider-seated	Rider-seated
7	Tire	C=cushion, P=pneumatic	P
8	Wheel	Pcs (front/rear)	4/2
General specifications			
9	Lift with 2-stage mast	Max fork height	mm 4000
10		Free lift height	mm 0
11	Fork	Thickness x Width x Length	mm 110x250x2400
12		Forkspacing (min - max)	mm 800-2600
13	Tilt of mast	Forward/backward	Degree 12/10
14	Dimensions	Length (without forks)	mm 6350
15		Width	mm 3050
16		Mast lowered height	mm 3850
17		Mast extended height	mm 5810
18		Overhead guard height (cabin height)	mm 3310
19		Seat height	mm 2150
20	Outside turning radius		mm 5950
21	LMC		mm 1120
22	90° stacking aisle		mm 9670
	90° intersecting aisle		mm 5460
Performance			
23	Speeds	Travel: loaded/unloaded	km/h 23/28
24		Lift: loaded/unloaded	mm/s 310/340
25		Lowering: loaded/unloaded	mm/s 400/350
26	Nominal drawbar pull		kg 22240
27	Gradeability	Loaded	%(degree) 34.6(19.1)
28	Total weight	Unloaded	kg 38150
29	Axle load	With load (front/rear)	kg 58000/51500
30		Without load (front/rear)	kg 19350/18800
Chassis			
31	Number (front/rear)		4/2
32	Tire	Size: front	
33		Size: rear	14.00x24" -28PR
34	Wheel base		mm 4250
35	Tread	Front/rear	mm 2200/2140
36	Ground clearance	Loaded (at the lowest point)	mm 290
37		Loaded (at the center of wheelbase)	mm 380
38	Service Brakes		Foot / ODB
39	Parking Brakes		Electric / Hydraulic
Drive			
40	Battery	Voltage/current-time	V/AH 24/150
41	Engine	Manufacturer/model	DIC/DL08(T-3)
42		Rated output (DIN)	ps/rpm(kW) 295/2100(217)
43		Max torque	kg · m/rpm 114/1400
44		Cycle/cylinders/displacement	cc 4/6/7640
45		Fuel tank	ℓ 400
46	Transmission	Type	AUTOMATIC
47		Number of speeds (forward/reverse)	3/3
48	Operating pressure	System/attachment	bar 230/220

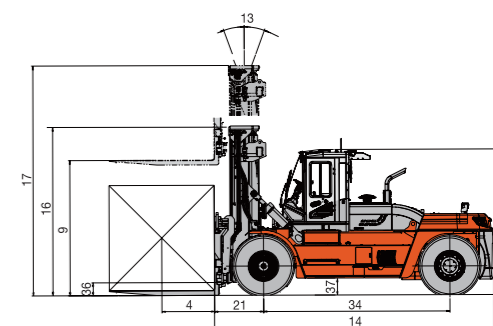
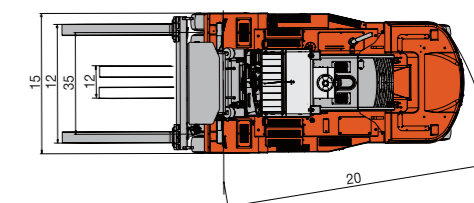
※ Specifications and dimensions of vehicles may change without notice for quality improvement, and images shown in this catalog may differ with actual ones.

### Mast Specifications

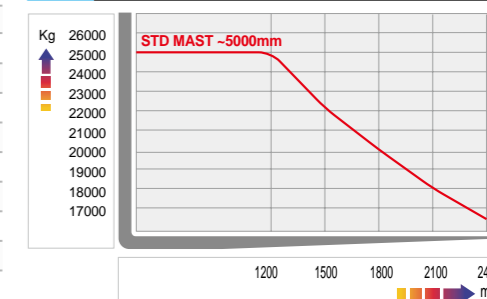
Type of mast	Max fork lift (mm)	Fully lowered height (mm)	Fully extended height (mm)		Free lift height (mm)	Tilt angle (degree)	Rated load capacity (Kg)	Self weight (Kg)
			W/LBR	W/LBR				
STD (SHAFT TYPE)	3500	3600	5310	5310	0	12/10	25000	37600
	4000	3850	5810	5810	0	12/10	25000	38150
	5000	4350	6810	6810	0	12/10	25000	39050

※ Other specifications excepting for STD 4000mm should be order after consultation with sales team.

### Outside view



### Load curve



### Option availability

Options	DV250S-7
5 Section Valve	●
Tilting Operator's Cell	●
Overhead Guard	●
Cabin	○
Air Conditioner (only for Cabin)	○
Heater (only for Cabin)	○
Rear Red Strobe Light	○
Rear Amber Strobe Light	○
Rear Rotating Strobe Light	○
Rear View Camera & Monitor	○
Rear Flood Light	○
Steering Wheel Knob	○
Air Compressor	○
Tool	○

○ : Option ● : Standard





Oil Cooled Disc Brakes  
Operator Sensing System  
**EQUIPPED**



Doosan Industrial Vehicle





# 7 Series Forklifts

## Heavy Forklift 18 to 25 ton Series

EPA Tier IV / Euro Stage IV



*Lifting Your Dreams*

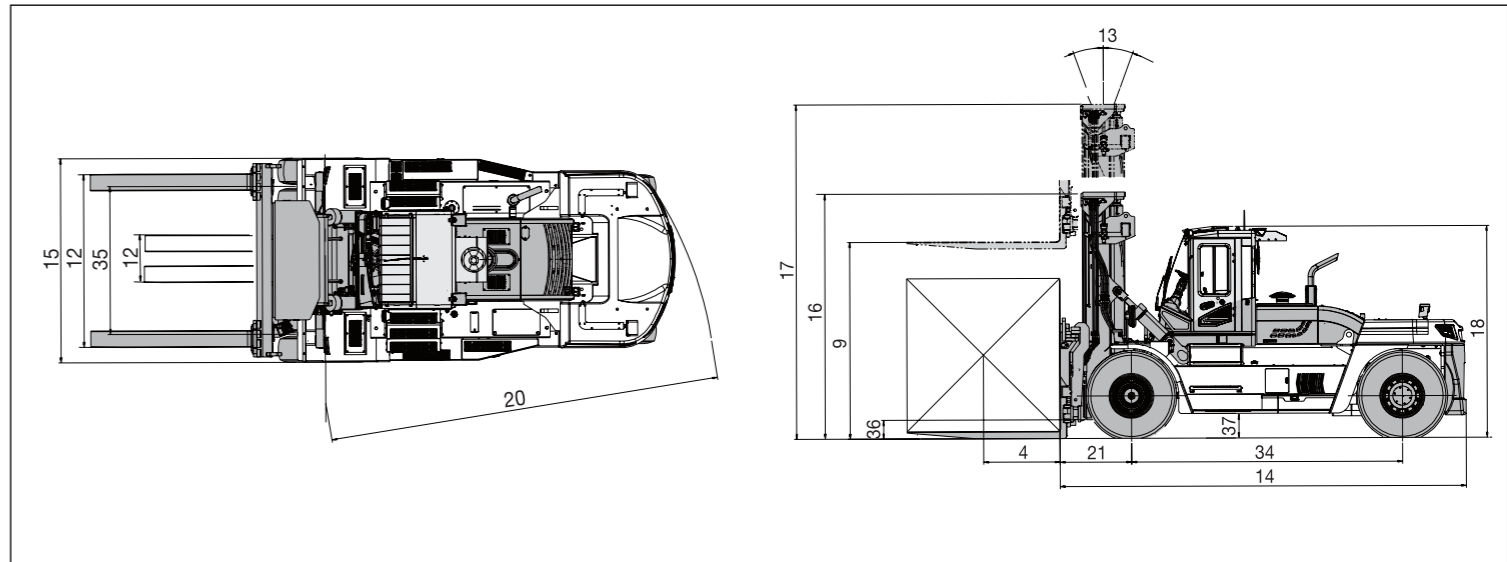


# GENERAL SPECIFICATION

CHARACTERISTICS					
2	Model		DV180S-7	DV250S-7	
3	Capacity	at rated load center	kg	18,000	25,000
4	Load center	distance	mm	1,200	1,200
5	Power type	electric, diesel, gasoline, lp-gas		Diesel	Diesel
6	Operator type	stand-on, rider-seated		Rider-seated	Rider-seated
7	Tire	c=cushion, p=pneumatic		p	p
8	Wheels(x=driven)	number, front/rear		x4/2	x4/2
DIMENSIONS					
9	Lift with STD two-stage mast	maximum fork height	mm	3,500	4,000
10		free lift	mm	0	0
11	Forks	thickness x width x length	mm	100x250x2,400	110x250x2,400
12		forkspacing (minimum x maximum)		710-2,394	800-2,600
13	Tilt of mast	forward/backward	deg	10/9	12/10
14	Overall dimensions	length to fork face	mm	5,595	6,350
15		width	mm	2,540	3,050
16		mast lowered height	mm	3,485	3,850
17		mast extended height	mm	5,205	5,810
18		cab Height	mm	2,930	3,310
19		seat height	mm	1,800	2,150
20	Minimum outside turning radius		mm	5,120	5,950
21	Load moment constant		mm	1,000	1,120
22	90°stacking aisle	2400x2400	mm	8,720	9,670
	90°intersecting aisle		mm	4,690	5,460
PERFORMANCE					
23	Speed	travel, loaded/unloaded	km/h	39/42	37/40
24		lift, loaded/unloaded	mm/s	380/410	310/340
25		lowering, loaded/unloaded	mm/s	400/350	400/350
26	Drawbar pull	at 1.6km/h, loaded	kg	15,399/14,650	23,516/22,708
27	Gradeability	at 1.6km/h, loaded	%	35.6	36.0
WEIGHT					
28	Total weight	unloaded	kg	26,400	38,500
29	Axle load	with loaded, front/rear	kg	41,210/3,190	57,897/5,603
30		without loaded, front/rear	kg	12,650/13,750	19,250/19,250
CHASSIS					
31	Tires	number of front/rear		4/2	4/2
32		size, front single		12.00 R20	14.00-24"-28PR
33		size, rear		12.00 R20	14.00-24"-28PR
34	Wheel base		mm	3,750	4,250
35	Tread	front/rear	mm	1,858/1,976	2,200/2,140
36	Ground clearance	loaded, at the lowest point	mm	210	290
37		loaded, at center of wheelbase	mm	325	380
38	Brake	service		Disc	Disc
39		parking		Mechanical	Mechanical
DRIVE					
40	Battery	voltage/ampere-hour	V/AH	24(12x2) / 150	
41	Engine	manufacturer/model		Doosan / DL08P	
42		rated output (DIN)	ps(kW)/rpm	250(183.7) / 2,100	290(213.3) / 2,100
43		max. torque	Nm/rpm	1,157/1,300	1,236/1,300
44		cycle/cylinders/displacement	cc	4/6/7,640	
45		Fuel Tank	l	300	400
46	DEF(AdBlue)	l	30	30	
47	Transmission	manufacturer/model		ZF / 4WG211	ZF / 4WG211
48		Transmission Type		Full Autoshift	Full Autoshift
49		No. of speeds forward/reverse		4/3	4/3
50	Driveaxle			Kessler D81	Kessler D91
51	Operating pressure	system/attachment	bar	235/185	230/220

Note : Specification values quoted in this specification sheet has been rounded. Performance may vary due to operation conditions. Products and specifications are subject to improvement and change without prior notices.

# DIMENSIONAL DRAWING



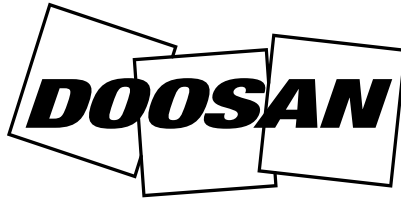
# MAST SPECIFICATIONS and RATED CAPACITIES

## DV180/250S-7

Model	Mast Type	Max. Fork Height		Mast Lowered Height		Extended Height w/ Load Backrest		Free Lift w/ Load Backrest		Rated Load Capacities			
		mm	in	mm	in	mm	in	mm	in	Tilt Angle		LC 1200mm	LC 48in
										Fwd deg	Bwd deg		
DV180S-7	STD	3000	118	3235	127	4705	185	0	0	10	10	18000	40000
		3500	138	3485	137	5205	205	0	0	10	10	18000	40000
		4500	177	3985	157	6205	244	0	0	10	10	18000	40000
		5000	197	4235	167	6705	264	0	0	10	10	18000	39500
	FFT	4500	138	2930	115	5920	233	1550	61	10	10	17000	37500
		5000	157	3100	122	6430	253	1720	68	10	10	17000	37500
DV250S-7	STD	4000	157	3600	142	5310	209	0	0	12	10	25000	55000
		4500	177	3850	152	5810	229	0	0	12	10	25000	55000
		5000	197	4350	171	6810	268	0	0	12	10	25000	55000
		6000	236	4650	183	7410	292	0	0	12	10	25000	54600

Note : Mast Specifications & Rated Capacities are based on standard chassis with dual pneumatic tire and without side shifter.





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