

## High Capacity Forklift DV200S-7



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AUTHORIZED DEALER

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# Welcome to Doosan

## The values and philosophy that drives our future growth

Welcome to Doosan

In a nutshell...

Introducing the DV200S-7

Key Features

Key Components

More than the sum of its parts

Specifications

The Doosan Way is a unique set of corporate values and philosophy that has guided 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 stakeholders 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 customers’ needs for quality materials handling supplies and services, and has become a pillar of Korean industry.

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.



Group activities cover a wide range of industrial activities, including infrastructure development, Bobcat utility vehicles, power generation, Moxy articulating vehicles, water desalination and construction equipment



Doosan Tower, Seoul.



## 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.

## Introducing the DV200S-7

# A Champion Heavyweight



Four years in the making and designed with the toughest applications in mind, the new DV200S-7 is a new class leading heavy forklift



# Introducing the DV200S-7

A hallmark of comfort and reliability

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The new DV200S-7 from Doosan builds on our success in developing large capacity forklifts that are durable, reliable and offer excellent value for money.

Low emissions, high comfort and fuel efficiency are at the forefront of all our designs and using our own **Doosan built engines** means we have the power for even the toughest application.

For our latest series, we've developed a number of superb features, including **tilting cabins**, energy efficient **LED lights**, **reversing cameras** and **high comfort operating space**.

An integral feature of the DV180S-7 is the new **'Zeus' cabin** design. The floor baseplate and chassis are one single construction, reinforced to provide greater rigidity and stability.

**Electronic scales** come as standard, providing reassurance and improved levels of safety level, whilst a high quality interior with excellent heating control and reduced vibration provide a pleasant interior space.

**Large capacity air conditioning** provides the driver's seat and the other compartments with excellent hot/cold heating performance and works as well during winter to remove windscreen fogging.

Doosan researchers discovered that the traditional mechanical type hydraulic control valve, found in most big forklift trucks, caused operators undue fatigue in their arm and shoulders, from repeated use.

Doosan offers a simple solution. The **valve system** is supported by hydraulic power of 30 bar pressure taken from the normal 235 bar hydraulic operating system. With the additional support, the levers require less stroke and less force to operate, allowing you to take it even easier.

A rear mounted camera, securely located in the recessed counterweight, works in tandem with a full colour display above the operator's eyeline, giving superb visibility, and an automotive-style dashboard with clear instrumentation completes the picture.





# Key Features

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- 1) **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.
- 2) The trucks have **well-tested load-sensing hydraulics** that provide increased efficiency and better performance.
- 3) The **cabins** of our trucks are probably the best on the market, with unbeatable comfort, visibility, and ergonomics.
- 4) **Box-type chassis and I-beam type steer axle** is the strongest in the market ; providing greater lifting capacity.
- 5) **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.
- 6) **Remote fan** which is able to reverse for cleaning the radiator core. Fan speed is controlled by oil temperature.



**\* Zeus Cabin Option**  
The spacious and high specification operator compartment has been designed to provide practical comfort and reduce fatigue.



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## Key Components

### High Powered & Fuel Efficient Engine

The 7.6 Litre Doosan DLo8 engine is one of the most powerful and fuel efficient we've ever produced.

Designed to meet all Tier 3 legislation requirements for exhaust gas emissions, this 254 HP powerhouse is designed and built to rigorous standards and is already utilised in heavy duty Doosan construction equipment across the globe.

### Long Lasting Endurance Drive Axle

A kevlar-based polycarbonate 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.

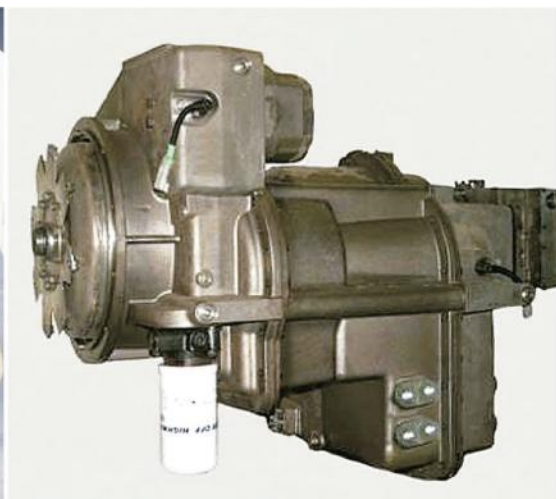
### Load Detection System

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 and increases the durability of the engine and hydraulic systems.

### Supporting Floor Mat

The high quality floor mat has an ankle support installed, capable of reducing the vibrations from the framework of the vehicle, as well as reduce operator tiredness when driven for a long period of time.



### Automatic 3-Gear Transmission

The transmission is particularly smooth and the gear ratios are 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.

### 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, minimizing energy loss and ensuring the radiator remains free of contaminants. The system also has the added benefit of being simple to check and maintain.

### Clear Lighting

To improve visibility and efficiency in working at night the DV200S-7 comes complete with 9 working lights (6 front spotlights, 3 rear lights), plus an interior work task light.

### 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.



# Designing a forklift that's more than the sum of its parts



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



**Efficient Lighting**  
9 highly efficient spotlights, including 3 LED rear lights, improve visibility with longer-lasting bulb life.



**Reverse Rear Camera**  
Superb rear vision is provided by the in-built rear camera and full colour LCD monitor.  
\*As an option



**Oil Cooled Disc Brakes**  
Oil-cooled disc brake has a 5 times longer service than that of conventional shoe brake.



**Three Speed Transmission**  
Electronically controlled automatic 3 gear DANA transmission provides excellent torque and speed.



**Powerful Engine**  
The high-output, fuel efficient 7.6 litre Doosan engine gives excellent performance at all travel speeds.



**High Comfort Cabin**  
Quiet and peaceful cabin with CD/MP3 player, comfortable interior & air conditioning.  
\*Required Zeus Cabin



**Sideshifting Fork Positioner**  
Quick and easy lateral adjustments can be made with the superb sideshifting fork positioner.



**Easy Access**  
Three steps with quartz grips provide safe and easy cabin access.



**Knows You're There**  
Operator Sensing System puts the truck into neutral if the operator exits whilst in gear.

## Key Features

High performance cooling management



Economic feasibility



High quality



Easier operating & driving controls



Easier maintenance



Our products have become a preferred product for many blue chip consumers and have helped us secure a place as one of the leading material handling brands in the world's market.

We can promise that Doosan will continuously endeavour to meet the high standards our customers demand and offer the best value for money products available.



# Specifications

## Main vehicle

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1	Manufacturer			DOOSAN
2	Model			DV200S-7
3	Capacity	at rated load center	kg	20000
4	Load center	distance	mm	900
5	Power type	electric, diesel, gasoline, lp-gas		Diesel
6	Operator type	stand-on, rider-seated		Rider-seated
7	Tire type			Pneumatic
8	Wheels(x=driven)	number, front/rear		2x2/2
<b>Dimensions</b>				
9	Lift with STD	max fork height with rated load	mm	3500 (STD)
10	two-stage mast	free lift	mm	Zero
11	Forks	thickness x width x length	mm	100x250x2400
12	Forkspacing	minimum x maximum	mm	700-2394
13	Tilt of mast	forward/backward	deg	10/10
14	Overall	length without forks	mm	5580
15	dimensions	width	mm	2540
16		mast lowered height	mm	3485
17		mast extended height	mm	3500
18		overhead guard height	mm	2930
19		seat height	mm	1800
20	Outside turning radius		mm	5120
21	LMC (from center of front wheel to fork face)		mm	1000
22	90°stacking aisle	add load length and clearance	mm	8720
22a	90°intersecting aisle		mm	4690
<b>Performance</b>				
23	Speeds	travel, loaded/unloaded	km/hr	32/38
24		lift, loaded/unloaded	mm/s	380/410
25		lowering, loaded/unloaded	mm/s	400/350
26	Nom.drawbar pull	at 1.6 km/h, loaded	kg	14528
27	Gradeability	at 1.6 km/h, loaded	%	31
<b>Weight</b>				
28	Total weight	unloaded	kg	25838
29	Axle load	with load (front/rear)	kg	40705/3133
30		without load (front/rear)	kg	12145/13693
<b>Chassis</b>				
31	Tires	number of front/rear		4/2
32		size: front		12.00X20
33		size: rear		12.00X20
34	Wheel base		mm	3750
35	Tread	front/rear	mm	1858/1976
36	Ground clearance	Loaded at the lowest point	mm	210
37		Loaded at the center of wheelbase	mm	325
38	Brakes	service brake		Foot/ODB
39		parking brake		Electric/Hydraulic
<b>Drive</b>				
40	Battery	voltage/capacity	V/AH	24(12X2)/100
41	Engine	manufacturer/model		Doosan/DLo8
42		rated output (at rpm)	ps/rpm	254 /2100
43		max. torque (at rpm)	kg.m/rpm	102/1400
44		cylinders/cycle/displacement	cc	6/4/7640
45		Fuel Tank	ℓ	270
46	Transmission	type		AUTOMATIC
47		no. speeds forward/reverse		3/3
48	Operating pressure	system/attachment	bar	235/180

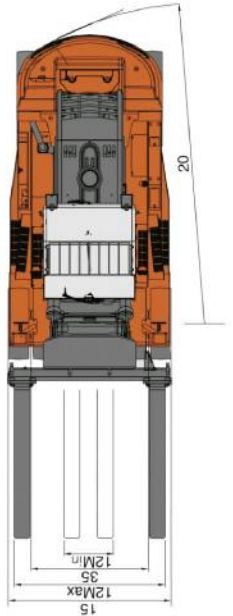
## Mast Specifications

### Standard Masts

Maximum Fork Height	3000 mm	3500 mm	4500 mm	5000 mm
Fully Lowered Height - with LBR	3235 mm	3485 mm	3985 mm	4235 mm
Fully Extended Height- with LBR	4705 mm	5205 mm	6205 mm	6705 mm
Free Lift	0 mm	0 mm	0 mm	0 mm

### Rated Load Capacities

Tilt Angle - FWD	10 degrees	10 degrees	10 degrees	10 degrees
Tilt Angle - BWD	10 degrees	10 degrees	10 degrees	10 degrees
1200mm LC	20000 kgs	20000 kgs	20000 kgs	20000 kgs



## Option availability

### Options

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	○

( ● Standard , ○ Option )

### DV200S-7

