



[www.doosan-iv.com](http://www.doosan-iv.com)

## 7 Series Forklifts

### Pneumatic Diesel 3.5 to 5.5 ton Series

EPA Tier-4 / Euro Stage 3B



*Lifting Your Dreams*

# About Doosan

## Values that drive our future growth

### **Trust in people is the foundation on which Doosan has built its century of success**

Doosan has always put 'People' first for the past 100 years, based on our management philosophies. - 'Business is not meant to make profits, but to help people grow.' (Late Too Pyung Park, First Chairman), and continues to spur corporate development with global competitiveness originated from human resources.

### **Doosan the oldest, but fastest growing company**

Doosan has recorded the longest business history since its inauguration in 1896, but has grown at its most rapid pace for the past 10 years.

### **Doosan-the global Infrastructure Support Business (ISB) company**

Doosan has created in excess of 90% of its sales within the ISB sector through vigorous reorganization of its business portfolio since 1998.

In the past, 70% of our business was concentrated on consumer goods, but we have successfully transformed our business DNA to the infrastructure support business that constructs and reinforces social infrastructure.

### **Doosan, surging as a global company**

Doosan has become the global ISB leader based on its world class products and services.

In addition, as a true global company, Doosan's overseas employees encompass 50% of its human resources, and overseas sales take more than over 60% of the total sales.





# Doosan Industrial Vehicle

Major global player in the infrastructure support business with a proud heritage

With a proud history dating back to 1937, when we first started out as Chosun Machinery, Doosan Industrial Vehicle has grown into Korea's largest machinery manufacturer, playing a leading role in the development of the industry in Korea.

Today, we are a global enterprise. We operate large-scale plants and sales subsidiaries both at home and overseas and maintain an operational network that spans continents.

## Committed To Innovation

We remain committed to the advancement of new technologies and development of talented individuals, positioning us to respond effectively to the rapid changes taking place in the 21st century. Our mission is to strengthen our global position and become the industry leader well into the future.

## Committed To Our Customers

We are committed to our customers, providing superior products and excellent services to go with them.

## Our Promise

Doosan Industrial Vehicles will be the partner you can count on, always putting our commitment to you first.

## Award-Winning Machines

Doosan currently holds a number of export, design & safety awards, including five Forklift Truck Association awards for Design Excellence.

## 7 Series Highlights..

- Meets and exceeds all EPA Tier 4 and Euro Stage 3B emission regulations without a Diesel Particulate Filter (DPF)
- No DPF means much lower cost of operation - better fuel economy, No regeneration needed every few hours, and No cleaning or additional maintenance is required.
- Superb Performance and high power output due to the new generation of Doosan's own G2 Diesel Engines.
- Rugged Reliability has been a major part of Doosan's ethos for all of its products and the new 7-Series is no different.
- A strong and rigid chassis frame along with more metal than plastic design ensures that Doosan is the best choice for all application.
- Reduced maintenance - extended service intervals means increased uptime and Reduced servicing costs.

### Well proven and reliable Doosan G2 engines and components

The powerful Doosan engine and components provides high-end torque at low engine rpm, reduced fuel consumption and meets all EPA Tier4 / Euro Stage 3B regulations without the need for a DPF.

### Doosan multi-engine performance mapping system

Doosan offers 2 performance engine maps, which gives you the choice between STD mode and Eco mode. Eco mode limits engine performance but can reduce the fuel consumption by approximately 5%.

### Well-tested load-sensing hydraulic system

All Doosan 7-Series models are equipped with a proven Load-sensing hydraulic system which provides increased fuel efficiency and better overall performance.



### Upgrade Cooling System

Thanks to a Large Capacity Radiator and a bigger fan, the cooling capacity has been improved compared to the previous model.

### Safety

OSS (Operator Sensing System)

- Truck will not move without an operator in the seat.
- Lift and Lower function disabled if the operator is not in the seat.
- Tilt function will be locked if no operator is in the seat.
- Alarm will sound if operator leaves the seat without applying parking brake.
- Seat belt warning light on dash to remind operator to fasten seat belt.

### Meet Emission Regulation (Tier4 & Stage 3B) with DOC System

Does NOT use DPF system, NO need for regeneration process.



# Greater durability and easier maintenance.

Powerful and delivering excellent fuel efficiency, Doosan's D34A electronic controlled engine, combined with already proven transmission.

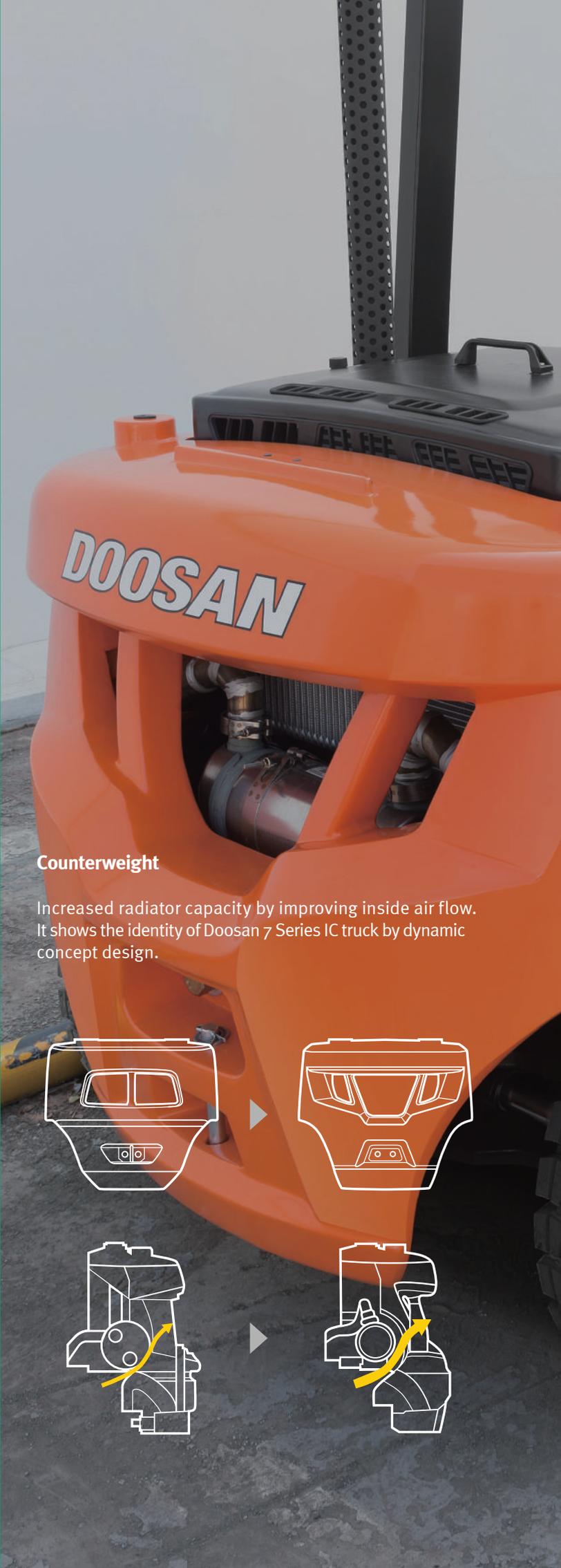
Doosan's unique and innovative Ultra-low Particulate Matter Combustion system using only Diesel Oxidation Catalyst (DOC) ensures the most modern but reliable system is fitted to ensure all emission regulations are met.

No Diesel Particulate Filter means maximum up-time, no regeneration cycles, no cleaning or changing and no additional maintenance costs for you.

Doosan can guarantee the highest quality of engines and its components because we use our own engines, which also means we can also guarantee the best supply of spare parts at the most competitive prices.

Robust chassis design and heavy duty build quality ensure that Doosan's 7-series is tough enough for any application.

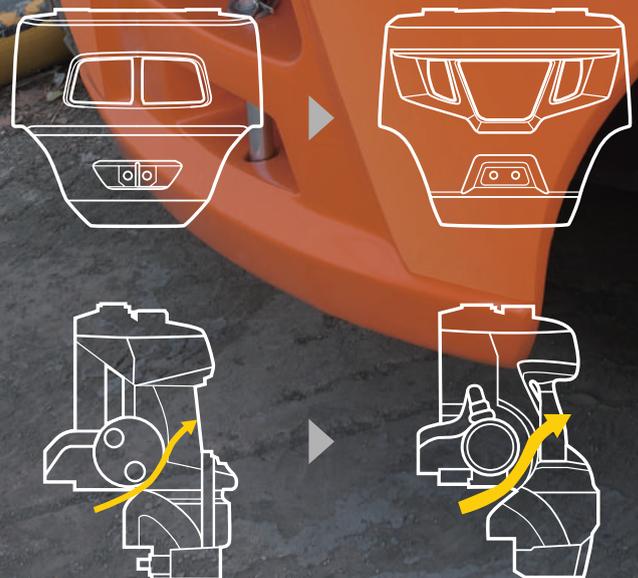
Maintenance-free Oil-cooled Disc Brake system ensures maximum up-time, less damage, no maintenance and zero costs for you.



**DOOSAN**

## Counterweight

Increased radiator capacity by improving inside air flow. It shows the identity of Doosan 7 Series IC truck by dynamic concept design.



## 7 SERIES FORKLIFTS

2.5 to 3.5 Ton Series

### Multi Engine Map : Standard Mode / Eco Mode

We provide two engine settings - STD mode and ECO mode. Each customer can choose his own setting to suit different applications.



### Easy to access

Integrated Electrical Components.  
Wide hood opening range for best accessibility.  
Tool-less side cover and floor plate.  
Great location of fuel filter for serviceability.



### New Air Cleaner

The increased capacity of the Dual Element Air Filters makes the new 7-series more durable. The integrated MAF sensor (Mass Air Flow) provides exact monitoring and is easy to access.



### Oil- Cooled Disc Brakes (ODB)

Oil cooled disc brakes are available as a standard on all D45S-7 Series.

This enclosed Brake system eliminates outside contamination, significantly extending brake life and decreasing maintenance cost.

Oil cooled disc brakes have service interval 5 times longer than conventional shoe brakes, and virtually maintenance free.



### LED lights (Optional)

LED lights give greater visibility in darker conditions and last much longer than conventional light bulbs.



### Locking type gas spring for Hood

Improve operator's safety and convenience with locking function.



### Instrument Panel

The centralized and easy-to-read instrument panel with LED back lights maximizes operator's efficiency.

Fuel gauge, engine hour meter, engine oil pressure, coolant and transmission temperature, mast interlock, transmission neutral, seat belt, brake oil level indicator keep operator ever aware of all vehicle performance system.

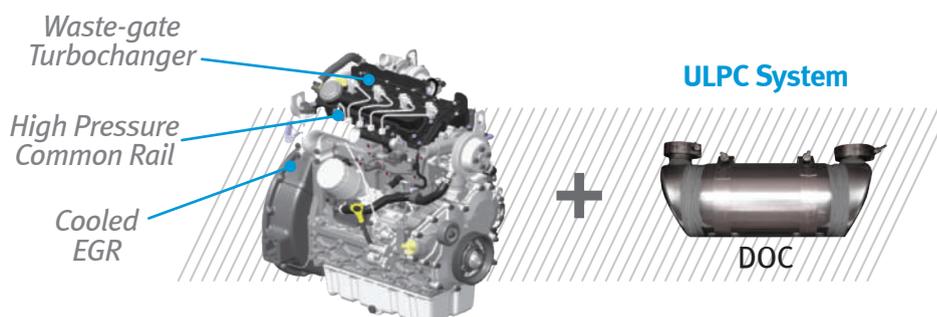


# High Powered, Fuel efficient performance.

Powerful and delivering excellent fuel efficiency, Doosan's D24A electronic controlled engine, combined with already proven transmission and oil-cooled disc brakes (ODB) provide excellent levels of productivity, durability and value for money.

## After Treatment System

- ULPC (Ultra Low Pm Combustion) : Doosan's own system which optimizes combustion characteristics.
  - › Optimizing piston bowl, injector and cylinder head swirl to use air as much as possible for reducing PM.
- Reduce total operation cost : No regeneration / No ash cleaning





**ENGINE PERFORMANCE**

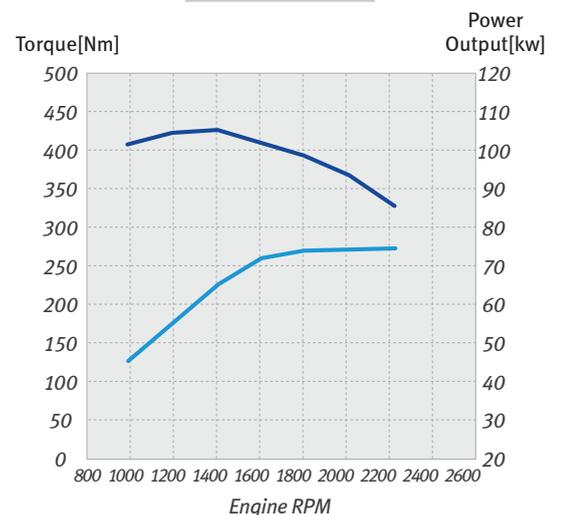
The new Doosan D34 3.4 Litre diesel engine provides excellent performance. The powerful Doosan engine provides high torque at low rpm or at low engine speed, reduces fuel consumption, and meets Tier-4 / Stage 3B Regulation

- D34 Tier 4/Stage3B Electronic Controlled ENGINE
- 4 cylinders, 4 cycles, 3,400 cc
- High torque at low rpm. : 325 Nm @1,600 rpm



Category	Unit	Doosan
Model	-	D45S-7
Engine	-	Doosan D34(G2)
Rated output	kw / rpm	55 / 2,400
Max. torque	N.m / rpm	325 / 1,600
Displacement	cc	3,400

**PERFORMANCES**



# Proven Quality, Service and A Reliable Partner.

You will receive the best after-sales service from your authorized local or national factory-trained dealer, backed by Doosan's own customer service center.

Doosan provides 100% parts inventory to insure any downtime is minimized.

When you own a Doosan forklift, our high quality, responsive customer support team comes with it.

The Doosan network starts with your local dealer and ends with a national team of highly qualified and experienced personnel standing ready to support all your material handling needs.



# Standard features and Option Availability

Safety	Standard	Option
Direction Lever Function	⊙	
Mast Lowering Interlock	⊙	
Operation Sensing System	⊙	
ELR Type Orange Seat Belt	⊙	
Combination Lamps (LED)		⊙
Spark Arrester		⊙
Weight Scale		⊙
Autotilt Leveling		⊙
Autoshift Controller		⊙
Emergency Switch		⊙
Back-up buzzer		⊙
Productivity	Standard	Option
Electric Controlled TCI (Turbo Charged Intercooler) Doosan Engines	⊙	
Pedal Location (Accelerator, Brake and Inching)	⊙	
Inching Pedal	⊙	
Rear Grab Bar (w/ Horn)		⊙
Heavy Duty Cooling		⊙
Comfort	Standard	Option
Adjustable Steering column	⊙	
Integrated Instrument Panel	⊙	
Easy to Service	⊙	
- Integrated Electric Components (Relays and Fuses)		
- Tool-less Side Cover and Footplate		
- Wide Hood Open Range		
Cigar and Power Jack (12V)	⊙	
Full Cabin with Heater or Air-conditioner		⊙
Rear View Camera		⊙
Seat - Suspension		⊙
Low Noise Level		⊙
Mono-Ped Steering Knob		⊙
Durability	Standard	Option
Electronic Control Units (ECU) Cover	⊙	
Use waterproof connectors	⊙	
Dual Element Air Cleaner	⊙	
Full Floating Driveaxle (w/ ODB)	⊙	
Radiator Screen		⊙
Pre-Cleaner		⊙
Environment	Standard	Option
Emission Regulation (EPA Tier4 and Euro Stage 3B)	⊙	
Ultra Low PM Combustion (ULPC) System (w/ DOC)	⊙	
ISO 9001 / ISO 14001	⊙	
2 Operation Mode (STD / ECO Mode)	⊙	
Homologation	Standard	Option
UL		⊙
CE		⊙

\* Other options are also available. Please ask your local Doosan representative for more details.



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