



## 7-Series Forklifts

Diesel 4.0 to 5.5 tonne capacity  
Euro Stage IIIB



Doosan Industrial Vehicle UK Ltd  
12 Kilvey Road,  
Brackmills Industrial Estate,  
Northampton  
NN4 7BQ  
Tel: 01604 825600  
Fax: 01604 825650  
Web: www.doosanforklifts.co.uk

AUTHORISED DEALER

2015 JAN

*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.

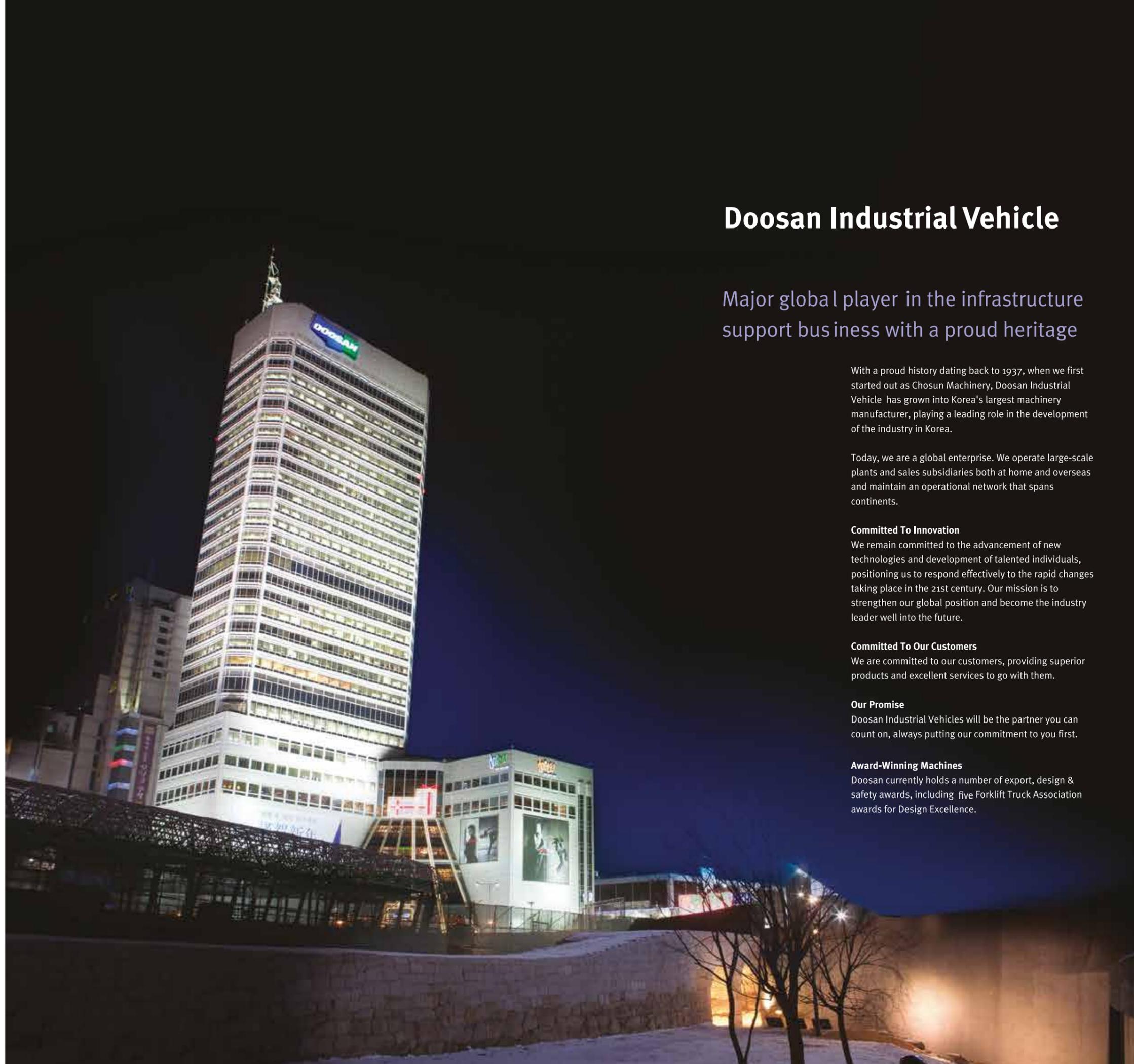
Doosan-the global Infrastructure Support Business (ISB) company

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 IIIB emission regulations without the need for a Diesel Particulate Filter (DPF)
- No DPF means much lower cost of operation: better fuel economy, no need for regeneration every few hours, no cleaning or additional maintenance required
- Improved fuel consumption: the Doosan G2 engines give greatly improved fuel consumption compared with previous models and competitors
- Superb performance and high power output from the new generation of Doosan's own G2 diesel engines
- 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 provide high-end torque at low rpm, reduced fuel consumption, and meet all Euro Stage IIIB regulations without the need for a DPF.

### Improved long-life oil-cooled disc brake system (ODB) and drive axle

The virtually maintenance free oil-cooled disc brake system now has enhanced friction discs, extending their life by over 100% compared to normal friction discs.

### Well-tested load-sensing hydraulic system (LSHS)

All G2 models are equipped with a proven load-sensing hydraulic system (LSHS), which provides increased fuel efficiency and better overall performance.

### Doosan multi-engine performance mapping system

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



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

Does NOT use DPF system, Does NOT need regeneration process.

## Greater durability and easier maintenance

Doosan's D34A electronic-controlled engine, powerful and delivering excellent fuel efficiency, is very successfully combined with an already proven transmission.

Doosan's unique and innovative Ultra-low Particulate Matter Combustion system, using only Diesel Oxidation Catalyst (DOC), ensures the most modern and reliable system is in place to comply with all emissions regulations.

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 both engines and components because they are developed and built in house. This also means we can guarantee the best supply of spare parts at the most competitive prices.

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

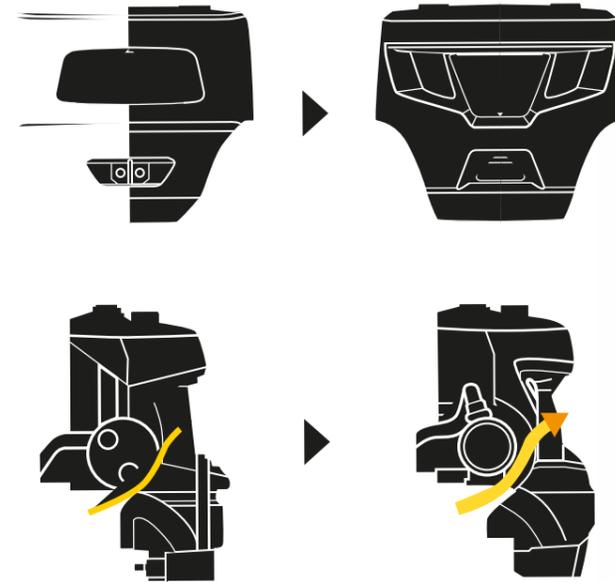
Virtually maintenance-free Oil-cooled Disc Brake system ensures maximum uptime, helps to prevent damage and reduces your maintenance costs.

Large drive wheels give the operator and your products a safer and more comfortable ride.

2 speed fully automatic transmissions in both forward and reverse ensures the best gear is always selected and extends the life-time of the drive train.

### Counterweight

Increased radiator capacity and an improved counterweight design, ensures the maximum air-flow is achieved by the cooling system thus maximising the engine's efficiency. The 7-Series counterweight also has a much improved dynamic and futuristic design.



**Multi Engine Map: Standard and Eco Mode**

We provide two engine settings: STD mode and ECO mode. Each customer can choose their own setting to suit different applications. STD mode gives the highest level of performance, whereas ECO mode reduces fuel consumption by an additional 5%.



**Easy to access**

Integrated electrical components. Wide hood opening range for best accessibility. Tool-less side cover and floor plate.



**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)**

Virtually maintenance free ODB equipment is standard on all 4,000kg - 5,500kg series forklifts. High quality friction material makes ODB a valuable choice with high durability, low wear and stable friction characteristics. Enhanced friction discs extend the brakes' life by over 100% compared with normal friction material discs.



**Locking type gas spring**

Safe access to the engine compartment is ensured thanks to the engine cover's locking function of the hydraulic spring. This means the hood cannot accidentally drop on to anyone working on the engine.



**Electronic Controlled Transmission (Optional)**

Electronic controlled transmission, tuned by Doosan, both minimises shifting shock and provides integrated control of driving and hydraulic system to optimise performance.

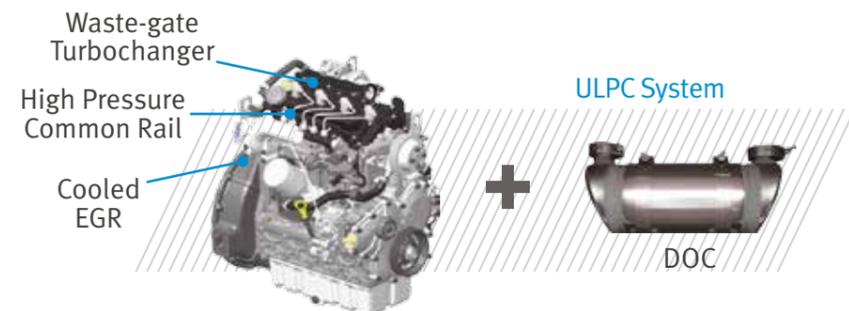
## High powered, fuel efficient performance

Powerful and delivering excellent fuel efficiency, Doosan's D34A electronic controlled engine, combined with already proven transmission and oil-cooled disc brakes (ODB), provides excellent levels of productivity, durability and value for money.



### After Treatment System

Doosan's ULPC (Ultra Low PM Combustion) system optimises combustion characteristics. By optimising piston bowl, injector and cylinder head swirl the engine uses as much air as possible to reduce particulate matter (PM). With no need for regeneration cycles or soot cleaning, it reduces total operation cost.



### ENGINE PERFORMANCE

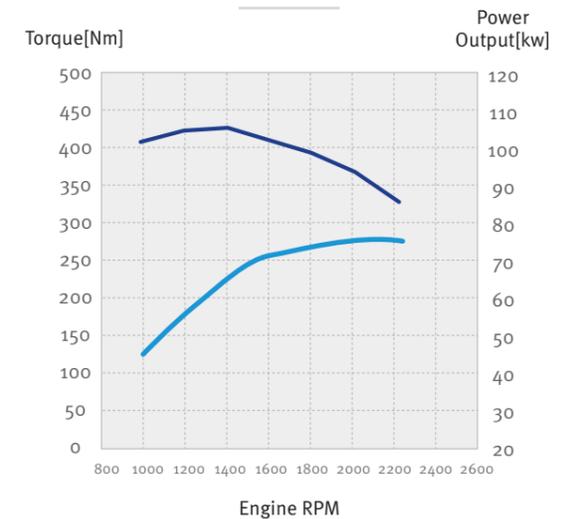
The new Doosan D34A 3.4 litre diesel engine provides excellent powerful performance, delivering high torque at low rpm or at low engine speed, reducing fuel consumption, and meeting Euro Stage IIIB regulations.

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



Category	Unit	Doosan
Model	-	D45SC-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 authorised local or national factory-trained dealer, backed by Doosan's own customer service centre.

And Doosan provides 100% parts inventory to ensure any downtime is minimised.

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 optional extras

Safety	Standard	Option
Oil-cooled Disc Brakes (ODB)	●	
Operator Sensing System (OSS)	●	
Hydraulic Interlock System	●	
Rear Grab Handle with Horn	●	
ELR Type Orange Seat Belt	●	
Flashing Beacon	●	
Reverse Alarm	●	
LED Front Spotlights	●	
Auto-shift Controller	●	
LED Road Lighting		○
Speed Limiter		○
Auto-tilt Levelling System		○
Weight Scales		○
Productivity	Standard	Option
High Performance Doosan G2 Engine	●	
Electronically Controlled TCI (Turbo-Charged Inter-cooler)	●	
Conventional Pedal Layout (Accelerator / Brake / Inching)	●	
Excellent Travel and Lift Speeds	●	
Anti-slip Low Entry / Exit Step	●	
Entry Grab Handle	●	
Heavy Duty Cooling		○
Electronic Controlled Transmission (ECT)		○
Operator Comfort	Standard	Option
Full Suspension Seat	●	
Adjustable Steering Column	●	
Integrated and Illuminated Instrument Panel	●	
Semi Weather Guard Canopies		○
Full Steel Cabin with Heaters/Air-Conditioning		○
Sound Suppression Kit		○
Easy to Service	●	
- Tool-less Side Covers and Footplate	●	
- Wide Engine Cover Opening with Safety Lock	●	
- Easy to Access Service Components	●	
Durability	Standard	Option
High Stiffness Chassis Frame	●	
Enclosed Electronic Control Unit (ECU)	●	
Sealed Connectors	●	
Dual Element Air Filter	●	
Full Floating Drive Axle	●	
High Level Pre-Cleaner		○
Radiator Screen		○
Environment	Standard	Option
No DPF - only DOC	●	
ISO 9001 / ISO 14001	●	
Emission Regulations Euro Stage IIIB	●	
Ultra-low PM Combustion System	●	
Eco and Standard Modes	●	

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