



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

## 7-Series Forklifts

### Pneumatic Diesel 3.5 to 5.5 ton Series

Euro Stage IIIB / Euro Stage IV



*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

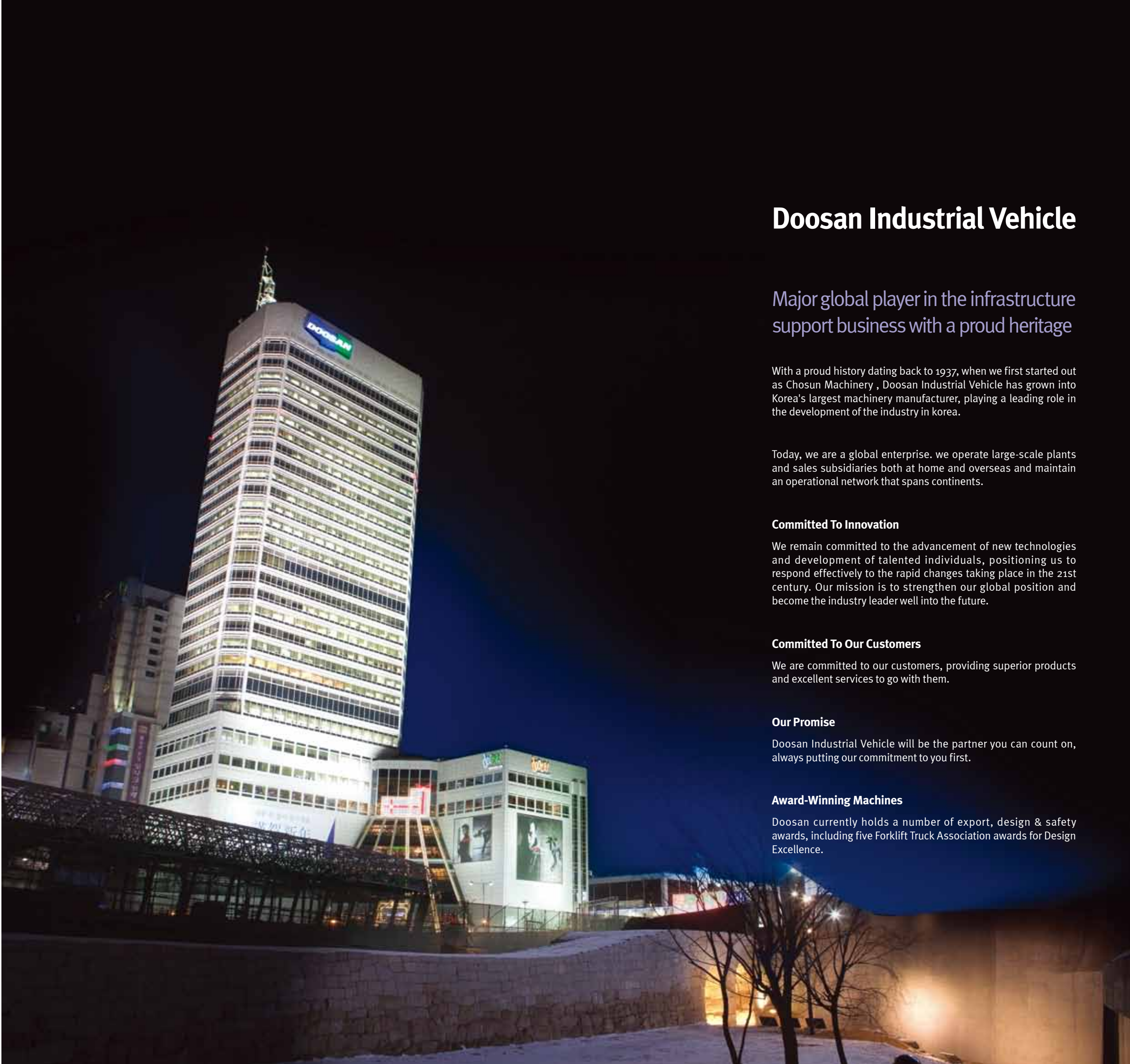
Doosan has recorded the longest business history since its inauguration in 1896, but has grown at its most rapid pace for the past 10 years.

### 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 Vehicle 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

- Superb performance and high power output, thanks 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 applications .
- Reduced maintenance-extended service intervals means increased uptime and reduced servicing costs.
- 55kW Engine installed models
  - Meets and exceeds Euro Stage IIIB emission regulations without a Diesel Particular Filter (DPF).
  - Any additional maintenance such as regeneration or ash cleaning is not required.
- 73.6 kW Engine installed models
  - Meets and exceeds Euro Stage IV emission regulations by the Diesel Oxidation Catalyst (DOC) and Selective Catalytic Reduction (SCR).
  - Regeneration and ash cleaning are not required.



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

The powerful Doosan engine and components provides high-end torque at low engine rpm and reduced fuel consumption. Doosan turbo charged engine delivers great performance and reliability.

### Doosan multi-engine performance mapping system

Doosan offers 2 performance engine maps, which gives you the choice between standard 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 with a G2 engine are equipped with a proven load-sensing hydraulic system, which provides increased fuel efficiency and better overall performance.

### Upgraded cooling system

Optimal cooling, thanks to a large capacity radiator and a bigger fan.

### Safety

- OSS (Operator Sensing System)
- The truck will not move without an operator in the seat.
  - Lift and Lower function are disabled if the operator is not in the seat.
  - Tilt function will be locked if no operator is in the seat.
  - An alarm will sound if operator leaves the seat without applying the parking brake.
  - Seat belt warning light on the dashboard to remind operator to fasten the seat belt.

### Meets the latest emission regulations

The Doosan 3.4L diesel engine (D34) meets the latest emission regulations by using advanced technologies, including cooled exhaust gas recirculation, charged air cooling, diesel oxydation catalyst and selective catalytic reduction.





# Greater durability and easier maintenance

The powerful Doosan's D34 electronic controlled engine, which delivers excellent fuel efficiency, is combined with proven transmission and driveaxle technology.

This combination provides great productivity and durability for Doosan diesel forklifts.

Doosan's unique and innovative Ultra-low Particulate Matter Combustion system, using Diesel Oxydation Catalyst and Selective Catalytic Reduction (73.6 kW only), is the most modern and reliable system to meet all the latest emission regulation.

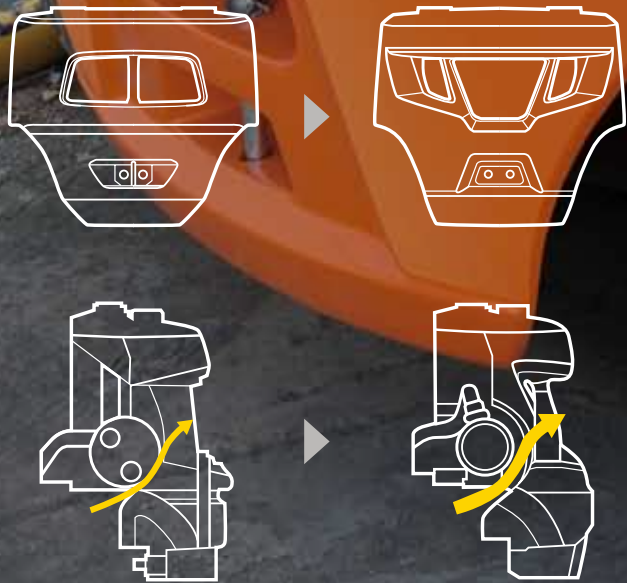
Doosan guarantees the highest quality of engines and components. We use our own engines, which means that we can also guarantee the best supply of spare parts at the most competitive prices.

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

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

## Counterweight

Increased radiator capacity by improving inside air flow. The contemporary dynamic design represents the identity of the Doosan 7-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.



## 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.



## 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, and brake oil level indicator keep the operator ever aware of the vehicle's complete performance system.



## SCR Guard (73.6 kW only)

The SCR Guard will protect the SCR device from external impacts, also protect people from the high temperature of the SCR device surface.



## Oil-cooled Disc Brakes

Oil-cooled Disc Brakes (ODB) are standard on all 7-Series. This enclosed brake system eliminates outside contamination, significantly extending brake life and decreasing maintenance costs. Oil-cooled Disc Brakes have a service interval that is 5 times longer than conventional shoe brakes, and are virtually maintenance free.



## Easy to access

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



## Premium Seat (optional)

Designed with a low-profile mechanical suspension that significantly reduces vibrations, it helps you stay comfortable, no matter how rough the day gets.



## 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 the operator's safety and convenience with the locking function.





## High Powered, Fuel efficient performance

Powerful and delivering excellent fuel efficiency, Doosan's D34 electronic controlled engine, combined with already proven transmission and oil-cooled disc brakes (ODB) provide excellent levels of productivity, durability and value for money.

### Doosan Compact Diesel Engine

The Doosan Compact Diesel Engine offers high power output and maximum torque. It maintains the highest performance level, even for the most challenging conditions in the most challenging applications.

- Advanced fuel injection system : The advanced fuel injection system enables accurate fuel injection control thanks to its high pressure (1,800 bar) of the common rail.
- The unique technology of Doosan Compact Diesel Engine improves performance and fuel efficiency, while reducing emissions, noise and vibration.
- Turbo Charger : The wastegate type turbo charger with an intercooler helps to realize the best level performance.

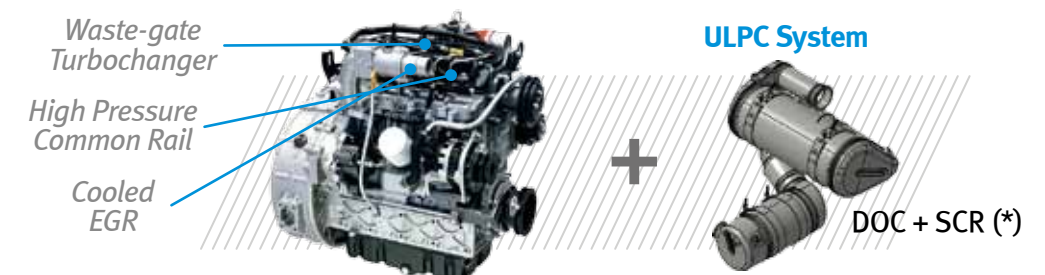
Specifications:

Category	Unit	Doosan	
Model	-	D35/40/45S/50/55C-7, D40/45/50/55SC-7	
Engine	-	D34NAP	D34P
Rated Output	kW/rpm	55 / 2,300	73.6 / 2,300
Max. Torque	Nm/rpm	330 / 1,400	335 / 1,600
No. of Cylinders	-	4	
No. of Cycle	-	4	
Displacement	cc	3,409	



### After Treatment System

- ULPC (Ultra Low Particulate Matter 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 Particulate Matter.
- Diesel Oxidation Catalyst (DOC) : The primary functions are oxidation of CO, unburned hydrocarbons, and NO, while active hydrocarbon oxidation can also be used to generate exotherms required for downstream components.
- SCR System : Technology that uses a Diesel Exhaust Fluid (DEF) and a catalytic converter to significantly reduce NOx emissions.



\* Needs SCR cleaning process every 200 hrs / SCR Cleaning can be done anytime, when it suits best for you.



# 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.

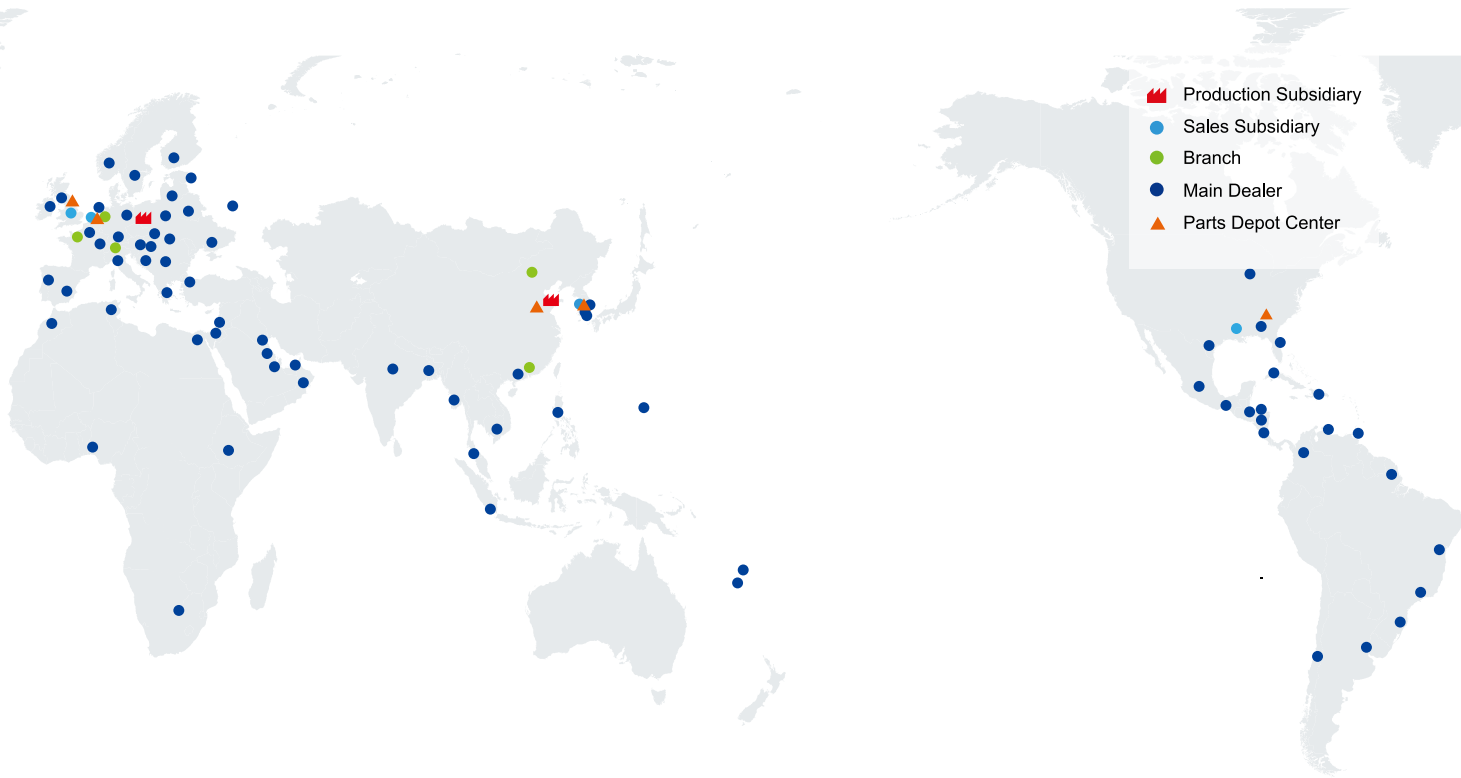
The Doosan network starts with your local dealer and ends with a national team of highly qualified and experienced personnel standing ready to support all your material handling needs.



## Standard features and Option Availability

Safety	Standard	Option
Direction Lever Function	⦿	
Mast Lowering Interlock	⦿	
Operator Sensing System	⦿	
ELR Type Orange Seat Belt	⦿	
Combination Lamps (LED)		⦿
Spark Arrestor		⦿
Weight Scale		⦿
Autotilt Leveling		⦿
Autoshift Controller		⦿
Emergency Switch		⦿
Back-up buzzer		⦿
Productivity	Standard	Option
Electronic Controlled TCI (Turbo Charged Intercooler) Doosan Engines	⦿	
Pedal Location (Accelerator, Brake and Inching)	⦿	
Inching Pedal	⦿	
Rear Grab Bar (with Horn)		⦿
Heavy Duty Cooling		⦿
Comfort	Standard	Option
Adjustable Steering Column	⦿	
Integrated Instrument Panel	⦿	
5" Color LCD Display (73.6 kW only)	⦿	
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		⦿
Suspension Seat		⦿
Sound Suppression		⦿
Mono Pedal		⦿
Steering Wheel with Knob		⦿
Durability	Standard	Option
Engine Control Unit (ECU) Cover	⦿	
Use waterproof connectors	⦿	
Dual Element Air Cleaner	⦿	
Full Floating Driveaxle (with ODB)	⦿	
Radiator Screen		⦿
Pre-Cleaner		⦿
Environment	Standard	Option
Emission Regulation	⦿	
Ultra Low PM Combustion (ULPC) System	⦿	
ISO 9001 / ISO 14001	⦿	
2 Operation Modes (STD / ECO Mode)	⦿	
Homologation	Standard	Option
UL		⦿
CE	⦿	

\* Other options are also available. Please ask your local Doosan representative for more details.  
Remark: This list is based on factory data. Standard or optional options can vary for specific countries.



**Doosan Industrial Vehicle Europe nv**

Europark-Noord 36A  
 9100 Sint-Niklaas  
 Belgium

Tel.: +32 3 760 09 87  
 Fax: +32 3 760 09 89  
 Website: [www.doosan-iv.eu](http://www.doosan-iv.eu)

EUD4557-160314v3EN (MARCH 2016)

AUTHORIZED DEALER