



## Pneumatic and Cushion Forklift Trucks

D35S / D40S / D45S-5 & D50C / D55C-5

D40SC / D45SC / D50SC-5 / D55SC-5

G35S / G40S / G45S-5 & G50C / G55C-5

G40SC / G45SC / G50SC-5 / G55SC-5

GC35S / GC40S / GC45S-5 & GC50C / GC55C-5

3,500kg to 5,500kg Capacity

# PRO5

SERIES

# PRO5

SERIES



GC35S / GC40S / GC45S-5  
GC50C / GC55C-5  
3,500kg 4,000kg 4,500kg  
5,000kg 5,500kg  
Cushion Tire

D35S / D40S / D45S-5 & D50C / D55C-5  
G35S / G40S / G45S-5 & G50C / G55C-5  
D40SC / D45SC / D50SC-5 / D55SC-5  
3,500kg 4,000kg 4,500kg  
5,000kg 5,500kg  
Pneumatic Tire



MAY, 2016



AUTHORIZED DEALER

Product and specifications are subject to improvement and change without notice.

**Field Proven and Endurance Tested...  
To Give You the Best Forklift Value on  
the Market.**

That's what Doosan has put into the design, development and production of the D/G/GC45S-5 series, to provide customers with:



- ✓ *Optimized Operator Comfort & Safety*
- ✓ *Proven and Durable Components*
- ✓ *High Powered and Fuel efficient Diesel and LPG Engines for High Performance including*
  - *Low Emissions and Minimal Vibration*
- ✓ *Enhanced Maintenance and Serviceability*
- ✓ *Virtually Maintenance-free Oil Cooled Disc Brakes*
- ✓ *2 Speed powershift Transmission*
- ✓ *Lift and Tilt Locking Hydraulic Control Valve*
- ✓ *OSS(Operator Sensing System)*
- ✓ *A Variety of Operator Friendly Features*

# Operator Comfort and Driver Efficiency is One of Doosan's Top Priorities

Doosan forklifts are designed to keep your operation and operators running at peak efficiency. Enhanced comfort features ensures operators do not experience fatigue or strain during everyday operation.

Designed to be simple, and easily adjusted, this operator compartment will make your driver feel right at home.

- **High Visibility Overhead Guard and Front-end**  
Wider mast window, repositioned hydraulic hoses and flat bar style overhead guard optimizes operator sight lines forward, up and to the load.
- **Integrated Instrument Panel**  
The centralized and easy-to-read instrument panel maximizes operator efficiency. Fuel gauge, engine hour meter, engine oil pressure, coolant and transmission temperature, mast interlock, transmission neutral, seat belt, brake oil level indicator keeps operator ever aware of all vehicle performance systems.
- **Convenience Tray**  
Easily handles refreshments, paperwork, small tools, etc for operator efficiency.
- **Auto Tilt Leveling (Optional)**  
Easily returns mast to upright vertical position with the simple push of a button
- **Deluxe Suspension Seat with OSS (Operator Sensing System)**  
A comfortable deluxe suspension seat with OSS(Operator Sensing System), a large seatback angle, longer seat travel length and operator's weight resistance on front side allow multiple adjustments for optimum seating comfort.
  - ✓ Parking alarm
  - ✓ Seat belt indicator
  - ✓ Neutral shift feature
- **Spacious Operator compartment**  
Wide open operator leg room, stepless tiltable steering column and ergonomically located operator pedals with a low cowl height facilitate ease of operation.
- **Optimum Pedal System(OPS)**  
This Optimum Pedal System will reduce the operators fatigue and provide best sense of drivability. Especially, the new electronic accelerator will provide the operator with secure and exact speed control.



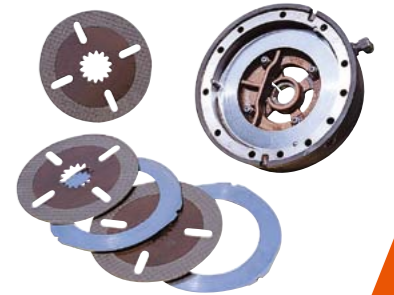
# Minimized Maintenance, Easy Serviceability.



**Doosan's Goal is to Make Your Material Handling Organization as Efficient and Reliable as Possible, by minimizing Down Time to Reduce Overall Maintenance Cost.**

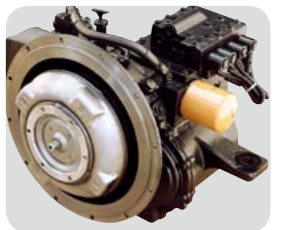
- **Oil- Cooled Disc Brakes(ODB)**

Oil cooled disc brakes are available as an option on all D,G(C)45S-5 series pneumatic and cushion forklifts and are especially recommended for applications in humid, abrasive or corrosive environments, or with ramp, loading and unloading applications. This enclosed brake system eliminates outside contamination, significantly extending brake life and decreasing maintenance costs. Oil cooled disc brakes have service intervals 5 times longer than conventional shoe brakes, and require little to no maintenance.



- **Power Reversal Transmission**

Top mounted control valve on the transmission precisely modulates clutch oil pressure for smooth forward / reverse directional changes, permitting on-the-go shifting up to 5mph.



- **Hydrostatic Steering System**

No mechanical connections between steering wheel and steer axle for reduced maintenance.  
Easy Access grease fittings for proper lubrication.  
Sealed tapered roller bearings offer protection against contamination and in high impact applications.  
Provides low effort steering with quick steering response.



- **Air Cleaner**

A large capacity, dual element air cleaner permits long service intervals. The primary filter can be washed and re-used up to 5 times.  
A high air intake on the overhead guard is standard, and aids in drawing clean, cool air into the engine intake system.

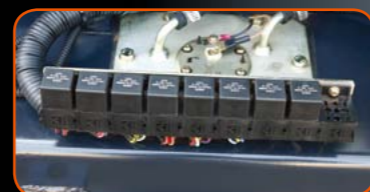


- **Full Floating Drive Axle**

Strong one-piece cast housing keeps axle components aligned. High tensile strength alloy steel axle shafts extends axle life while splined side gear & drive wheel hub gears transmit high torque to the drive wheels.



- **Tool - less Side Cover and Floor Plate facilitates Serviceability**



- **Integration of Electrical Components for Easy Maintenance**  
Fuse and relay box located in front of the engine simplifies servicing

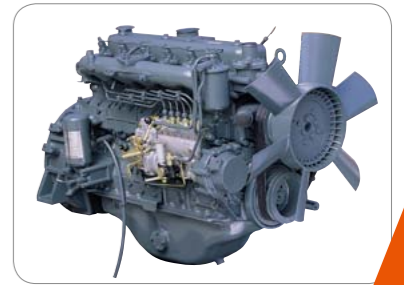
# A Hallmark of Durability and Reliability



**High powered and fuel - efficient diesel and LPG engines provide high performance levels and insure long term power plant efficiency.**

● **Doosan DB58S (68kW) - Tier II**

This powerful 6-cylinder 5.8L diesel engine delivers excellent power to meet the needs of the most demanding applications. DB58S diesel engines comply with EPA Tier II emission regulations.



● **D439E 3.9L (68kW) - Tier III & Stage IIIA**

This 3.9 Liters Common Rail turbo-intercooler (air cooler) Diesel engine complies with EPA Tier III and Stage IIIA emission regulation. The electric governed engine control system provides high performance and supplies easy diagnostic system. Four cylinders, Common Rail Direct Injection, full range electrical governor and a heavy duty fuel filter with water separator, all add up to a powerful and efficient power plant which keeps its strong performance even in high altitude working environments.



● **PSI 4.3L (70kW) - LPG**

Superior engine performance is driven by an ECU that intergrates and coordinates all critical functions including: governor, variable ignition timing, air-fuel ratio control and engine protection.

- Improved Fuel consumption : By using roller valve lifters for reduced friction and improved fuel economy
- Increased Durability : Nodular iron crankshaft has undercut & rolled fillets
- Less Vibration and Low Noise : Counter-rotating balance shaft / Composite rocker arm cover and front cover
- High Voltage Switch (HVS) ignition distributor and coil standard
- Cast aluminum oil pan for increased strength & noise reduction
- Emission Certified with EPA and CARB



DRIVE THE DIFFERENCE...

DRIVE DOOSAN !

**Proven Quality,  
Responsive Service and  
A Reliable Partner....**

After sales service of Doosan forklifts is available from your authorized local dealers backed by Doosan's own customer service center. And 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.



■ Main Specification

Sales Model		D35S-5	D40S-5	D45S-5	D50C-5	D55C-5			
Rated Load Capacity	kg	3,500	4,000	4,500	5,000	5,500			
Load Center	mm	600	600	600	600	600			
Overall Length of Fork Face	L mm	3,100	3,150	3,265	3,300	3,350			
Truck Overall Width	W mm	1,372	1,451	1,451	1,451	1,451			
Height of Overhead Guard	H mm	2,225	2,230	2,230	2,230	2,230			
Minimum Turning Radius	R mm	2,770	2,820	2,865	2,930	2,990			
Travel Speed, Loaded	km/h	24 / 25	24 / 25	24 / 25	24 / 25	24 / 25			
Lifting Speed, Loaded	mm/s	520 / 540	540 / 575	520 / 540	535 / 575	520 / 540	525 / 575	470 / 540	520 / 575
Wheel Base	mm	2,000	2,000	2,100	2,100	2,100			
Engine Models		DB58S	D439E	DB58S	D439E	DB58S	D439E	DB58S	D439E
Rated Power of Engine	kW/rpm	68.0/2,200	68/2,300	68.0/2,200	68/2,300	68.0/2,200	68/2,300	68.0/2,200	68/2,300
Max. Torque	N•m/rpm	324/1,600	324/1,600	324/1,600	324/1,600	324/1,600	324/1,600	324/1,600	324/1,600
Cylinders / Displacements	cc	5,785	3,900	5,785	3,900	5,785	3,900	5,785	3,900

Sales Model		D40SC-5	D45SC-5	D50SC-5	D55SC-5		
Rated Load Capacity	kg	4,000	4,500	5,000	5,500		
Load Center	mm	500	500	500	500		
Overall Length of Fork Face	L mm	3,100	3,150	3,265	3,300		
Truck Overall Width	W mm	1,372	1,451	1,451	1,451		
Height of Overhead Guard	H mm	2,225	2,230	2,230	2,230		
Minimum Turning Radius	R mm	2,770	2,820	2,865	2,930		
Travel Speed, Loaded	km/h	24 / 25	24 / 25	24 / 25	24 / 25		
Lifting Speed, Loaded	mm/s	520 / 540	540 / 575	520 / 540	530 / 575	470 / 540	525 / 575
Wheel Base	mm	2,000	2,000	2,100	2,100		
Engine Models		DB58S	D439E	DB58S	D439E	DB58S	D439E
Rated Power of Engine	kW/rpm	68.0/2,200	68/2,300	68.0/2,200	68/2,300	68.0/2,200	68/2,300
Max. Torque	N•m/rpm	324/1,600	324/1,600	324/1,600	324/1,600	324/1,600	324/1,600
Cylinders / Displacements	cc	5,785	3,900	5,785	3,900	5,785	3,900

Sales Model		G35S-5	G40S-5	G45S-5	G50C-5	G55C-5
Rated Load Capacity	kg	3,500	4,000	4,500	5,000	5,500
Load Center	mm	600	600	600	600	600
Overall Length of Fork Face	L mm	3,100	3,150	3,265	3,300	3,350
Truck Overall Width	W mm	1,372	1,451	1,451	1,451	1,451
Height of Overhead Guard	H mm	2,225	2,230	2,230	2,230	2,230
Minimum Turning Radius	R mm	2,770	2,820	2,865	2,930	2,990
Travel Speed, Loaded	km/h	20/21	19.5/20.5	19.5/20.5	19.5/20.5	19.5/20.5
Lifting Speed, Loaded	mm/s	500/540	500/540	500/540	490/540	470/540
Wheel Base	mm	2,000	2,000	2,100	2,100	2,100
Engine Models		PSI 4.3L	PSI 4.3L	PSI 4.3L	PSI 4.3L	PSI 4.3L
Rated Power of Engine	kW/rpm	70.0/2,500	70.0/2,500	70.0/2,500	70.0/2,500	70.0/2,500
Max. Torque	N•m/rpm	283.9/1,800	283.9/1,800	283.9/1,800	283.9/1,800	283.9/1,800
Cylinders / Displacements	cc	4,294	4,294	4,294	4,294	4,294

■ Option Availability

● : Standard ○ : Optional

Options	D35/D40/D45S-5 & D50/D55C-5 D40SC / D45SC / D50SC / D55SC-5	G35/G40/G45S-5 & G50/G55C-5	GC35S / GC40S / GC45S-5 & GC50C / GC55C-5
Fuel Cap with Key	○	n/a	n/a
Precleaner	○	○	n/a
Vertical Exhaust Tube	●	○	n/a
Modular Operator Cabin Type A/B/C	○	○	n/a
Full Operator Cabin Type D	○	○	n/a
Air Conditioner	○	○	n/a
Non Marking Tire(Solid)	○	○	○
Spark Arrestor(w/o Cabin)	○	n/a	n/a
Mono Ped Foot Direction and Acceleration Control	○	○	n/a
AutoShift (Single,Dual Tire)	○	○	○
Engine Shutdown	○	●	●
Swingdown LP MTG	n/a	○	○
Lift and Tilt Locking Hydraulic Control Valve	●	●	●
Auto Tilt Leveling	○	○	n/a
Rear Grab Bar with Horn	○	○	○
Hydraulic Accumulator	○	○	○
Integral Side Shifting Fork Positioner	○	○	○
Hook on Sideshifter	○	○	○
UL LPS,DS Rating	○	○	○

