

A new dimension  
in forklift truck performance

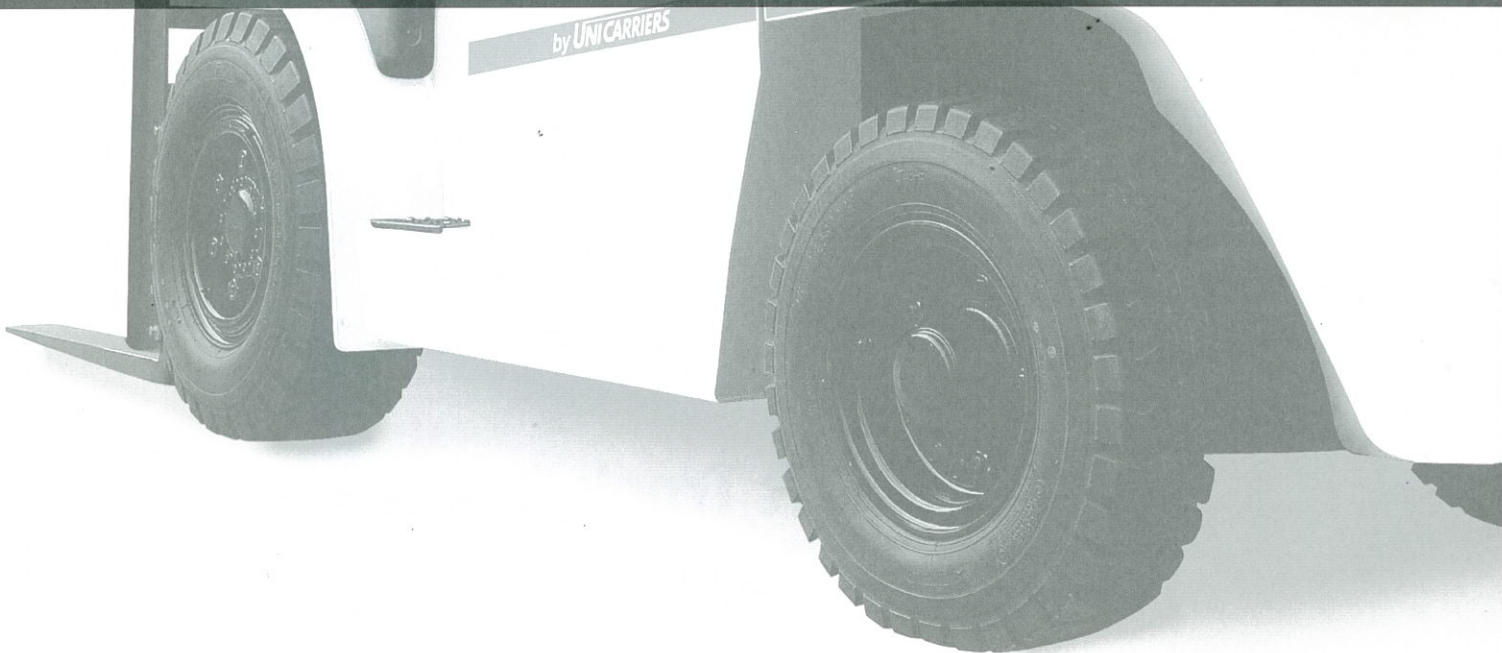


**Diesel &  
Gasoline Forklift Truck Series**  
**3.5-5.0 tons**



# ***FD·G Series***

**FD·G35 / FD·G40 / FD·G45 / FD·G50**



## Creating a new dimension in forklift truck performance with a full complement of standard features

The FD/G Series, with capacities from 3.5 to 5.0 tons, has introduced a variety of new features in response to users' needs, including an automatic 2-speed transmission and a class-leading lift speed for excellent **maneuverability**, a low-vibration 6-cylinder engine, easy-to-use switches and levers, and a safety-first operator's seat for enhanced **operator comfort** and **safety**, and an aluminum radiator and a torque converter with cooling fins for high **durability**. They combine to contribute to increased productivity and efficiency.

### Four innovative performances

MANEUVERABILITY

OPERATOR COMFORT

SAFETY

DURABILITY



# EXCELLENT MANEUVERABILITY



## 1 Fast lift speed

### Class-leading lift speed

The FD35 and FD40 Series offer a lift speed of 540 mm/s under load, the fastest lift speed in its class. When unloaded, the forks lower at a speed of 550 mm/s, substantially improving load handling efficiency.



## 2 Powerful, smooth acceleration and starting

### 2-speed automatic transmission is standard on all models of trucks with an automatic transmission

The 2-speed automatic transmission automatically selects the appropriate forward gear based on accelerator pedal effort. You do not have to change gears manually, which makes starting and acceleration smoother and improves work efficiency. The new FD/G Series deliver excellent maneuverability for load handling at a variety of work sites, including ports and container terminals.

#### ●Maximum FD40 traction when loaded:

Existing model: 29.4 kN → New model: 33.3 kN

## 3 Optimal gearshift pattern is selectable

### Trucks with an automatic transmission come with a three-mode selection switch

You can select the automatic transmission gearshift pattern according to your working conditions with the flick of the switch.



**D** ▶ Normal mode  
**1** ▶ Gradient mode  
**Dopt** ▶ High-speed mode

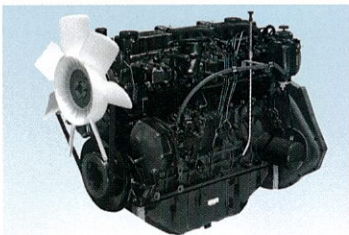


# ENHANCED OPERATOR COMFORT

## 1 Clean, powerful engine

### Low-vibration, low-cost, 6-cylinder S6S engine

The environmental friendly engine complies with worldwide Tier 2 emissions requirements. Its new pre-chamber combustion system offers cleaner exhaust emissions while giving the truck extra power and speed.



Rated output:  
64.7 kW(88 PS) at 2300 r.p.m.  
Maximum torque:  
284 N·m(29 kgf·m) at 1600 r.p.m.

## 2 Smooth starting

### Auto-glow system (Diesel engine trucks)

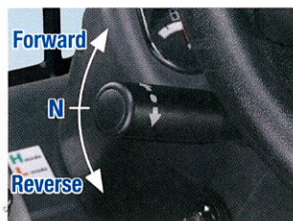
When the starter switch is turned to ON, the glow indicator turns on and the engine is automatically preheated. When the engine has been preheated sufficiently, the glow indicator goes out on the instrument panel to inform the operator that the engine can be started.



## 3 Fingertip control reduces operator fatigue

### Electric shift lever (trucks with an automatic transmission)

The electric shift control lever provides easy selection of forward or reverse with a single touch of the lever.



## 4 Light switch is integral with the turn signal lever

### The light switch is combined in the turn signal lever

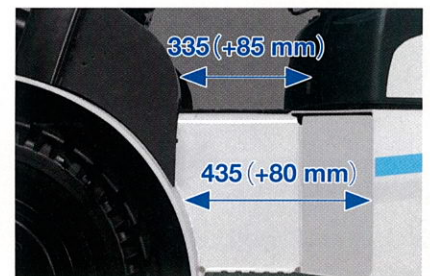
The light switch is built into the turn signal lever, for greater convenience. Also, the turn signal lever automatically returns to neutral when the steering wheel is returned to the straight-ahead position.



## 5 Expanded leg space

### Tilt cylinders are equipped with covers

The entrance to the operator's seat and the safety step have been widened and enlarged for easier entry and exit. The tilt cylinders are covered so that the foot well is neat and trim.



# GREATER SAFETY

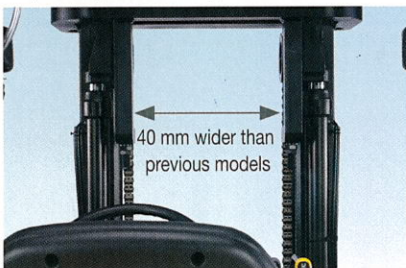


## 1 Excellent visibility

### Forward visibility has been improved 10%

(3.5 – 4 ton trucks with a standard mast when compared with our previous models)

The wide mast, with wider lift chain spacing, makes the view forward less cluttered, to enhance safety and improve productivity.



## 2 Safe starting

### Neutral safety mechanism

The neutral safety mechanism prevents the engine from being started unless the directional control lever is in the neutral position. This prevents the truck from moving abruptly when the starter switch is turned on. The neutral safety mechanism is standard on both automatic and manual transmission trucks.

## 3 Outstanding visibility from the rear

### High-mount stop lamps

The stop lamps are installed at the rear on the top of the overhead guard to provide improved visibility to nearby workers or other vehicles behind the truck, thus offering added safety in the workplace.



## 4 Improved comfort and lessened fatigue

### Safety seat with side supports

The safety seat, with suspension and reclining functions, features high sides and back to hold and balance the operator's body securely when working on steep grades or side slopes and it also serves also as a grip when mounting and dismounting. The seat belt has an emergency locking retractor (ELR) function for enhanced safety. The seat also has a convenient document pocket on the rear of the seat back.



## 5 Safe inspection and servicing

### Engine hood with an automatically-locked stay damper

The engine hood has an automatically-locked, gas-spring stay damper to allow the operator open and close the hood easily. This fail-safe stopper prevents the hood from closing unexpectedly, ensuring safe inspection of components under the hood.





# HIGH DURABILITY

## 1 High rigidity and durability at all times

### Rigid differential and axles

Rigid differential and axles ensure excellent operating performance under severe working conditions. Their strength and durability are well suited to heavy-duty work in a variety of tough working conditions, including ports.



## 2 Durable hydraulics

### Oil-filled lift cylinders

The lift cylinder piston rods are filled with hydraulic oil to improve the durability of the lift cylinders.

## 3 Improved durability from multi-disc clutch packs

### Torque converter with cooling fins (trucks with an automatic transmission)

The torque converter oil is cooled more efficiently by the cooling fins, to improve the durability of the clutch packs.

## 4 Longer clutch disc service life

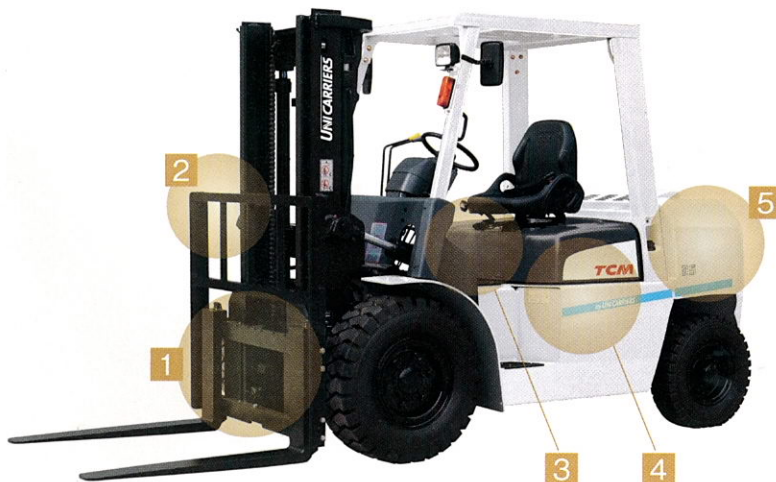
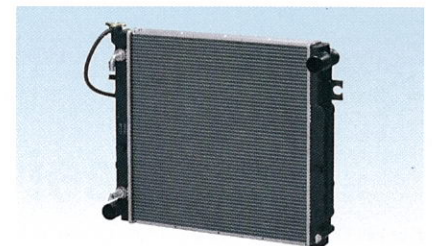
### Oil-filled clutch is standard (trucks with a manual transmission)

The clutch disc is cooled by oil from a pump, to reduce clutch disc wear.

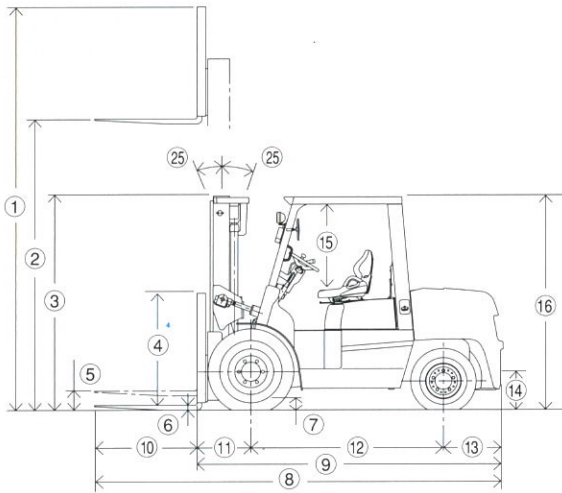
## 5 High cooling performance for better durability

### Aluminum radiator

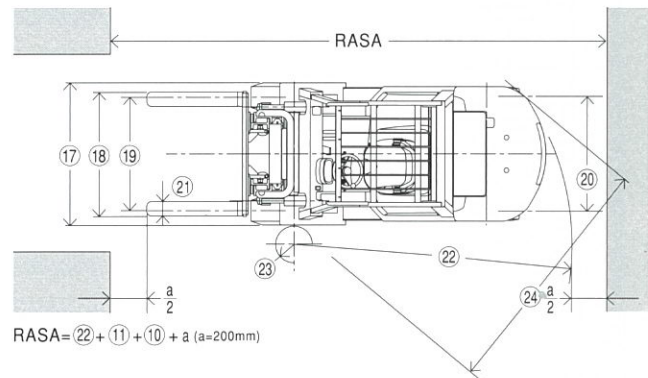
The one-piece molded aluminum radiator offers substantially improved cooling efficiency and higher joint reliability, contributing to better performance and improved durability of the engine.



## STANDARD DIMENSIONS



GROUND CLEARANCE	FD35T9 · C9	FD40T9 · C9	FD45T9 · C9	FD50T9
	mm	mm	mm	mm
Mast	155	155	140	140
Frame	185	185	185	185
Front axle	185	185	185	185
Rear axle	195	195	195	195
Counter weight	205	205	205	205



## STANDARD DIMENSIONS

Model	FD35T9 · C9	FD40T9 · C9	FD45T9 · C9	FD50T9
	mm	mm	mm	mm
① Overall height, fork raised (with backrest)	4265	4265	4265	4420
② Maximum fork height	3000	3000	3000	3000
③ Mast height, fork lowered	2230	2230	2235	2360
④ Backrest height	1220	1220	1215	1370
⑤ Free lift	150	150	155	160
⑥ Fork thickness	50	50	55	60
⑦ Minimum ground clearance	155	155	140	140
⑧ Overall length (with forks)	4150	4180	4260	4610
⑨ Length to fork face	3080	3110	3190	3390
⑩ Fork length	1070	1070	1070	1220
⑪ Load distance	560	560	590	590
⑫ Wheelbase	2000	2000	2000	2200
⑬ Rear overhang	520	550	600	600
⑭ Drawbar Pin Center Height	320	320	320	320
⑮ Overhead guard clearance (from face of seat)	1020	1020	1020	1020
⑯ Overall height (overhead guard)	2250	2250	2250	2250
⑰ Overall width	1480	1480	1480	1480
⑱ Fork spread (outside)	300~1290	300~1290	300~1290	300~1290
⑲ Tread (front)	1180	1180	1180	1180
⑳ Tread (rear)	1195	1195	1195	1195
㉑ Fork width	150	150	150	150
㉒ Outside turning radius	2790	2820	2860	3040
㉓ Inside turning radius	200	200	200	200
㉔ Minimum intersecting aisle	2650	2650	2700	2850
㉕ Tilt angles (forward-backward)	6°- 12°	6°- 12°	6°- 12°	6°- 12°

## DIMENSIONS WITH FRONT DUAL DRIVE WHEELS (option)

Model	FD35T9 · C9	FD40T9 · C9	FD45T9 · C9	FD50T9
Tire size (front dual)	7.50-16-8PR	7.50-16-8PR	7.50-16-8PR	7.50-16-8PR
Service weight	+20kg	+20kg	+20kg	+20kg
	mm	mm	mm	mm
⑰ Overall width	1830	1830	1830	1830
⑲ Tread (front)	1340	1340	1340	1340
㉒ Outside turning radius	2890	2950	2950	3125
㉓ Inside turning radius	200	200	200	200
㉔ Minimum intersecting aisle	2600	2600	2600	2750
Tire size (front dual)	8.25-15-14PR	8.25-15-14PR		
Service weight	+80kg	+80kg		
	mm	mm		
③ Mast height, fork lowered	2245	2245		
⑰ Overall width	1950	1950		
⑲ Tread (front)	1435	1435		
㉒ Outside turning radius	2920	2950		
㉓ Inside turning radius	200	200		
㉔ Minimum intersecting aisle	2600	2650		



# ***FD·G Series***

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- UniCarriers Corporation retains the right to change these products and specifications without incurring any obligation relating to such changes.
- These products and specifications are subject to change without notice.
- Photos and illustrations may or may not include optional equipment and accessories.
- Features and specifications may vary depending on markets.
- Performance data and dimensions are nominal and subject to tolerances.
- Produced in ISO certified factory.