

FD/FG20-30T5C

INTERNAL COMBUSTION PNEUMATIC TYRE FORLIFT TRUCK

2.0 – 3.0 tons



BUILT FOR POWER ENGINEERED FOR PERFORMANCE

Presenting the all-star UniCarriers internal combustion forklifts, equipped with the most powerful engines in its league.

SUPERIOR ENGINE PERFORMANCE

Every UniCarriers forklift truck is equipped with a heavy-duty 44kW diesel-powered engine. Built for intensive applications, these engines reliably deliver high handling speeds and extra stacking reach. Our engines and transmission systems are engineered with cutting-edge precision and long-lasting durability.



Heavy-Duty Powertrains

Full floating powertrains reduce mechanical vibration, thereby enhancing operator comfort and reducing component wear and tear.

- ✔ Advanced powertrain systems ensure component durability
- ✔ Reduced mechanical stress on axle and transmission components
- ✔ High-grade K25 dual fuel engine, compatible with both gasoline and LPG

ENHANCED LIFTING CAPACITY

With UniCarriers forklift trucks, operators are afforded superb vehicle balance and lifting safety. The frame's low center of gravity provides better machine stability when steering and lifting. Its high-torque engine ensures uniform lift speed regardless of the load. The result is a larger load capacity, maximum stability and high productivity.



Excellent Maneuverability

Performing compact turning is a breeze with UniCarriers forklift trucks. A fully hydraulic power steering makes U-turns and the navigation of tight spaces an intuitive and effortless process.

Easy Navigation in Tight Workspaces

Right angle stacking aisle width: 4055mm (FD20T5C)

Impressive Climbing Capability

Maximum Gradeability (loaded): 40.4% (FD20T5C)

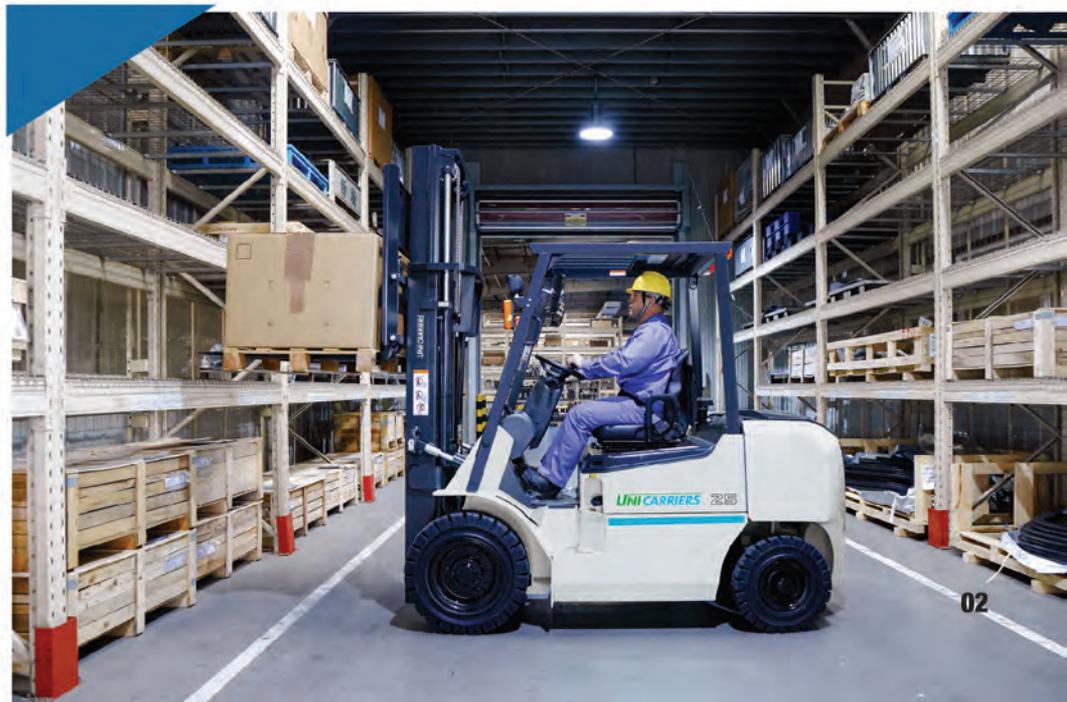
Remarkable Lifting Ability

Lift speed: (FD20T5C)

- ✔ 640mm/s (loaded)
- ✔ 670mm/s (unloaded)
- ✔ Capacity is maintained up to a height of 4 meters (2-stage mast).

Outstanding Steering Control

Minimum turning radius:
2300mm (FD20T5C)



EXTREME DURABILITY

UniCarriers forklift trucks are assembled in-house with exceptional precision using the best components and techniques. The frames and chassis are intricately machine-welded mechanically and finished by hand to provide extra strength and endurance against high load factors.

Through rigorous testing and stringent quality control, we consistently deliver durable machines that ensure smooth, uninterrupted operations.



Full-welding for frames and chassis

The frames and chassis on UniCarriers forklift trucks are fully welded, so that they do not twist or strain under larger loads



ERGONOMIC COMFORT

UniCarriers forklift trucks employ a human-centric design concept to provide unparalleled comfort. Additional systems are implemented to ensure the safety of operators and mitigate risks of injury or damage:

✔ **Tilting Steering Column**

Fitted with an adjustable seat and a tilting steering column, the forklift trucks accommodate operators of all sizes and build.

✔ **Neutral Safety Start**

The Neutral Safety Start system requires the gear to be positioned in neutral before an engine starts. This prevents trucks from starting while in gear.

✔ **Integrated Digital Monitor**

The integrated digital monitor is ergonomically placed and easily accessible to the operator.

✔ **Enhanced All-Around Visibility**

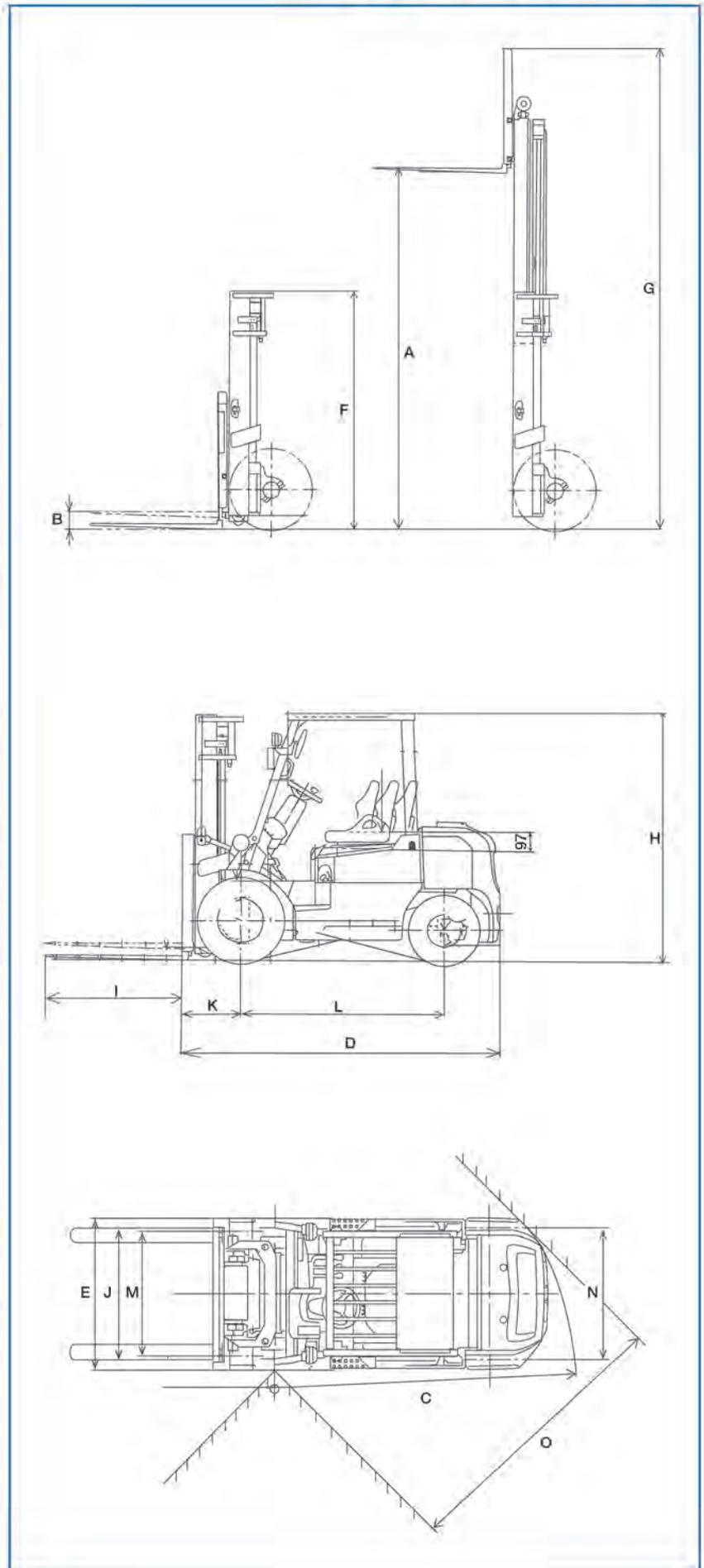
Besides boasting ample legroom and headroom, the roomy operator compartment and its overhead guard design also offer excellent forward and rear visibility.

✔ **Mast Lock**

An integral mast interlock system locks mast movement when the key switch is turned off, preventing accidental operator injury due to complacency.

| | | | | | | DIESEL ENGINE TRUCK | | |
|----|--|------------------------------------|----------|--------|---|-----------------------|-------------|--------------|
| 1 | Type of Truck | | | | | FD20T5C | FD25T5C | FD30T5C |
| 2 | Model | | | | | | | |
| 3 | Loading Capacity | | | Kg | | 2000 | 2500 | 3000 |
| 4 | Load Center | | | mm | | 500 | | |
| 5 | Maximum Fork Height | | | mm | A | 3000 | 3000 | 3000 |
| 6 | Free Fork Height | | | mm | B | 140 | 140 | 145 |
| 7 | Speeds | Lifting | Loaded | mm/s | | 640 | 640 | 510 |
| | | | Unloaded | mm/s | | 670 | 670 | 545 |
| | | Lowering | Loaded | mm/s | | 500 | 500 | 530 |
| | | | Unloaded | mm/s | | 500 | 500 | 500 |
| 8 | Tilt | Mast | Forward | deg | | 6 | | |
| | | | Backward | deg | | 10 | | |
| 9 | Speeds | Traveling | Loaded | km/h | | 19 | 19 | 19 |
| | | | Unloaded | km/h | | 19.5 | 19.5 | 19.5 |
| 10 | Maximum Drawbar Pull | stationary on slope | Loaded | N | | 20000 | 19700 | 19400 |
| | Drawbar Pull | at 1.6km/h | Loaded | N | | 17800 | 17600 | 17200 |
| 11 | Maximum Gradeability | stationary on slope | Loaded | % | | 40.4 | 34.2 | 27.7 |
| | Gradeability | at 1.6km/h | Loaded | % | | 35.6 | 30.2 | 24.5 |
| 12 | Turning Radius | | | mm | C | 2300 | 2325 | 2415 |
| 13 | Practical Intersecting Aisle Width | | | mm | O | 2230 | 2240 | 2335 |
| 14 | Practical Aisle for Right Angle Stacking | | | mm | | 4055 | 4085 | 4210 |
| 15 | Overall Length to Fork Face | | | mm | D | 2525 | 2560 | 2690 |
| 16 | Width | with Standard Tires | | mm | E | 1165 | 1165 | 1285 |
| 17 | Height | with Lowered Mast | | mm | F | 1990 | 1990 | 2015 |
| | | with Extended Mast (with backrest) | | mm | G | 4055 | 4055 | 4055 |
| | | to top of Overhead Guard | | mm | H | 2075 | 2075 | 2095 |
| 18 | Forks (Thickness x Width x Length) | | | mm | I | 45X100X920 | 45X100X1070 | 45X122X1070 |
| 19 | Forks Spread (Out-to-out Minimum/ Maximum) | | | mm | J | 244/1000 | | 285/1000 |
| 20 | Front Overhang (Center of Front Axle to Fork Face) | | | mm | K | 455 | 460 | 495 |
| 21 | Wheelbase | | | mm | L | 1650 | 1650 | 1670 |
| 22 | Tread Width | Front, standard Tires | | mm | M | 960 | 960 | 1060 |
| | | Rear, Tires | | mm | N | 980 | 980 | 980 |
| 23 | Ground Clearance | at Lowest point mast | | mm | | 115 | 115 | 135 |
| | | at Center of Wheelbase | | mm | | 165 | 165 | 185 |
| 24 | Tire Size | Front | | mm | | 7.00-12-12PR | | 28X9-15-12PR |
| | | Rear | | mm | | 6.00-9-10PR | | 6.50-10-10PR |
| 25 | Machine Weight | | | kg | | 3373 | 3665 | 4300 |
| 26 | Service Brake Type | | | | | Hydraulic | | |
| 27 | Parking Brake Type | | | | | Hand Operated | | |
| 28 | Engine | Model | | | | S4S Tier 2 | | |
| | | Max. Rated Power/rpm to DIN70020 | | kW/rpm | | 44/2300 | | |
| | | Max. Rated Torque/rpm to DIN70020 | | Nm/rpm | | 183/1800 | | |
| | | Displacement | | cc | | 3331 | | |
| | | Fuel Tank Capacity | | L | | 66 | | |
| 29 | Transmission | Type | | | | ATM(TORQUE CONVERTER) | | |
| | | Forward | | | | 1 | | |
| | | Backward | | | | 1 | | |
| 30 | Relief of Pressure | For Attachments | | Mpa | | 18.1 | | |

| GASOLINE ENGINE TRUCK | | |
|-----------------------|-------------|--------------|
| FG20T5C | FG25T5C | FG30T5C |
| 2000 | 2500 | 3000 |
| 500 | | |
| 3000 | 3000 | 3000 |
| 140 | 140 | 145 |
| 580 | 580 | 460 |
| 660 | 660 | 530 |
| 500 | 500 | 530 |
| 500 | 500 | 500 |
| 6 | | |
| 10 | | |
| 19 | 19 | 19 |
| 19.5 | 19.5 | 19.5 |
| 18600 | 18400 | 18300 |
| 16200 | 16000 | 15800 |
| 38.1 | 32.2 | 26.5 |
| 32.8 | 27.8 | 22.8 |
| 2300 | 2325 | 2415 |
| 2230 | 2240 | 2335 |
| 4055 | 4085 | 4210 |
| 2525 | 2560 | 2690 |
| 1165 | 1165 | 1285 |
| 1990 | 1990 | 2015 |
| 4055 | 4055 | 4055 |
| 2075 | 2075 | 2095 |
| 45X100X920 | 45X100X1070 | 45X122X1070 |
| 244/1000 | | 285/1000 |
| 455 | 460 | 495 |
| 1650 | 1650 | 1670 |
| 960 | 960 | 1060 |
| 980 | 980 | 980 |
| 115 | 115 | 135 |
| 165 | 165 | 185 |
| 7.00-12-12PR | | 28X9-15-12PR |
| 6.00-9-10PR | | 6.50-10-10PR |
| 3266 | 3557 | 4193 |
| Hydraulic | | |
| Hand Operated | | |
| K25 | | |
| 40/2200 | | |
| 186/1600 | | |
| 2488 | | |
| 66 | | |
| ATM(TORQUE CONVERTER) | | |
| 1 | | |
| 1 | | |
| 18.1 | | |





UNICARRIERS

http://www.unicarriers.co.jp/os_products/

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Note:

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.

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