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A Lifetime of Trusted Value

TCM

# RELIABLE.
# POWERFUL.
# ENVIRONMENT-FRIENDLY.

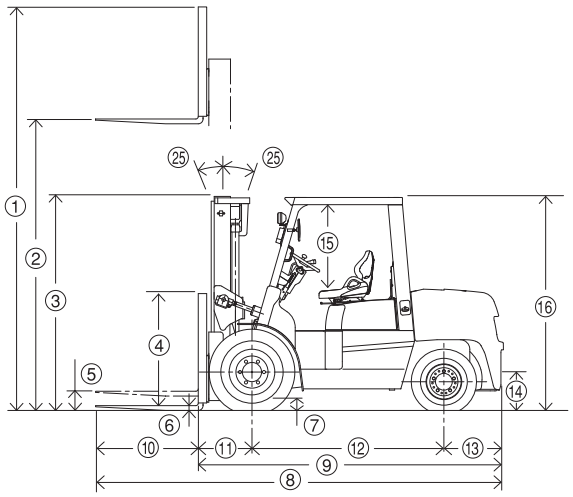



# 3.5-5t
## 3500-5000kg

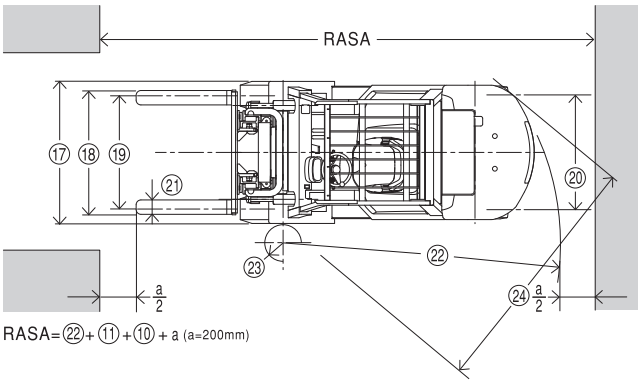
# DIESEL POWERED
## PNEUMATIC TIRE TRUCKS

| | | | |
|---|---|---|---|
| FD35T9·C9 \| 3500kg 600mm | FD40T9·C9 \| 4000kg 600mm | FD45T9·C9 \| 4500kg 600mm | FD50T9 \| 5000kg 600mm |

## 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 |




RASA=㉒+⑪+⑩+a (a=200mm)

### 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 | | |

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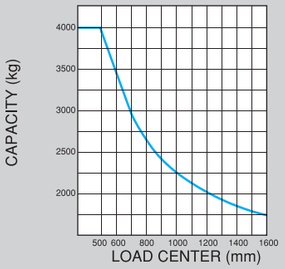
## STANDARD SPECIFICATIONS

| | | | | | | UNICARRIERS | | | |
|---|---|---|---|---|---|---|---|---|---|
| Characteristics | 1 | Manufacturer | | | | | | | |
| | 2 | Model | | | Power shift T/M | FD35T9 | FD40T9 | FD45T9 | FD50T9 |
| | | | | | Manual shift T/M | FD35C9 | FD40C9 | FD45C9 | ——— |
| | 3 | Load Capacity | | Load Center 500mm | kg | 4000 | 4500 | 5000 | 5000 |
| | | | | Load Center 600mm | kg | 3500 | 4000 | 4500 | 5000 |
| | 5 | Power Type | | | | Diesel | Diesel | Diesel | Diesel |
| | 6 | Operator Position | | | | Sit Down Rider Type | Sit Down Rider Type | Sit Down Rider Type | Sit Down Rider Type |
| | 7 | Tire Type | | Front / Rear | | Pneumatic | Pneumatic | Pneumatic | Pneumatic |
| | 8 | Wheels (X=driven) | | Front / Rear | | 2 X / 2 | 2 X / 2 | 2 X / 2 | 2 X / 2 |
| Dimensions | 9 | Maximum Fork Height | | | mm | 3000 | 3000 | 3000 | 3000 |
| | 10 | Free Lift | | | mm | 150 | 150 | 155 | 160 |
| | 13 | Fork Size | | L X W X T | mm | 1070 X 150 X 50 | 1070 X 150 X 50 | 1070 X 150 X 55 | 1220 X 150 X 60 |
| | | Fork Spread (Outside) | | Max. / Min. | mm | 1290 / 300 | 1290 / 300 | 1290 / 300 | 1290 / 300 |
| | 14 | Tilt Angle | | Fwd. / Bwd. | deg | 6 / 12 | 6 / 12 | 6 / 12 | 6 / 12 |
| | 15 | Length to Fork Face | | | mm | 3080 | 3110 | 3190 | 3390 |
| | 16 | Overall Width | | | mm | 1480 | 1480 | 1480 | 1480 |
| | 17 | Mast Height Fork Lowered | | | mm | 2230 | 2230 | 2235 | 2360 |
| | 18 | Mast Height Fork Raised | | | mm | 4265 | 4265 | 4265 | 4420 |
| | 19 | Overhead Guard Height | | | mm | 2250 | 2250 | 2250 | 2250 |
| | 21 | Turning Radius (Outside) | | | mm | 2790 | 2820 | 2860 | 3040 |
| | 22 | Load Distance (Centerline of front axle to front face of forks) | | | mm | 560 | 560 | 590 | 590 |
| | | Rear Overhamg | | | mm | 520 | 550 | 600 | 600 |
| | 23 | Basic Right Angle Stacking Aisle Width | | | mm | 4750 | 4780 | 4850 | 5030 |
| Performance | 24 | Speeds | Travel Max. | Power shift T/M fwd/rvs | km/h | 26.0 / 19.5 | 26.0 / 19.5 | 26.0 / 19.0 | 26.0 / 19.0 |
| | | | | Manual shift T/M fwd/rvs | km/h | 19.5 / 19.0 | 19.5 / 19.0 | 19.5 / 19.0 | ——— |
| | 25 | | Lifting | Full load | mm/sec | 540 | 540 | 480 | 480 |
| | | | | No load | mm/sec | 580 | 580 | 520 | 520 |
| | 26 | | Lowering | Full load | mm/sec | 500 | 500 | 450 | 450 |
| | | | | No load | mm/sec | 550 | 550 | 500 | 500 |
| | 28 | Max. Drawbar Pull | Power shift T/M | Full / No load | kN | 33.3 / 17.6 | 33.3 / 17.6 | 34.3 / 18.6 | 34.3 / 18.6 |
| | | | Manual shift T/M | Full / No load | kN | 21.1 / 17.6 | 21.1 / 17.6 | 21.6 / 18.6 | ——— |
| | 29 | Max. Gradeability* | Power shift T/M | Full / No load | % | 33 / 20 | 30 / 20 | 27 / 20 | 25 / 20 |
| | | | Manual shift T/M | Full / No load | % | 18 / 20 | 16 / 18 | 15 / 16 | ——— |
| Weight | 32 | Total Weight | Power shift T/M | | kg | 6100 | 6450 | 6960 | 7260 |
| | | | Manual shift T/M | | kg | 6060 | 6410 | 6920 | ——— |
| | 33 | Weight Distribution (Powershift T/M) | Full load | Front | kg | 8410 | 9140 | 10130 | 10980 |
| | | | | Rear | kg | 1190 | 1310 | 1330 | 1280 |
| | 34 | | No load | Front | kg | 2880 | 2820 | 2950 | 3270 |
| | | | | Rear | kg | 3220 | 3630 | 4010 | 3990 |
| | 33 | Weight Distribution (Manual shift T/M) | Full load | Front | kg | 8370 | 9100 | 10090 | ——— |
| | | | | Rear | kg | 1190 | 1310 | 1330 | ——— |
| | 34 | | No load | Front | kg | 2840 | 2780 | 2910 | ——— |
| | | | | Rear | kg | 3220 | 3630 | 4010 | ——— |
| Chassis & Wheels | 35 | Tires | Number | Front / Rear | | 2 / 2 | 2 / 2 | 2 / 2 | 2 / 2 |
| | 36 | | Size | Front | | 300-15-18PR (I) | 300-15-18PR (I) | 300-15-18PR (I) | 300-15-18PR (I) |
| | 37 | | | Rear | | 7.00-12-12PR (I) | 7.00-12-12PR (I) | 7.00-12-14PR (I) | 7.00-12-14PR (I) |
| | 38 | Wheelbase | | | mm | 2000 | 2000 | 2000 | 2200 |
| | 39 | Tread | | Front | mm | 1180 | 1180 | 1180 | 1180 |
| | | | | Rear | mm | 1195 | 1195 | 1195 | 1195 |
| | | Backest Height | | | mm | 1220 | 1220 | 1215 | 1370 |
| | | Overhead Guard Clearance | | | mm | 1020 | 1020 | 1020 | 1020 |
| | | Counterweigth Height | | | mm | 1320 | 1320 | 1320 | 1320 |
| | | Drawbar Pin Center Height | | | mm | 320 | 320 | 320 | 320 |
| | | Floor Height | | | mm | 845 | 845 | 845 | 845 |
| | 40 | Under clearance | Min Full Load | | mm | 155 | 155 | 140 | 140 |
| | 41 | | Center of wheelbase | | mm | 185 | 185 | 185 | 185 |
| | 42 | Brake | Service (Foot) | | | Hydraulic-Foot pedal | Hydraulic-Foot pedal | Hydraulic-Foot pedal | Hydraulic-Foot pedal |
| | 43 | | Parking | | | Mechanical - Hand lever | Mechanical - Hand lever | Mechanical - Hand lever | Mechanical - Hand lever |
| | 45 | Battery | Voltage / Capacity (5HR) | | V/AH | 2x 12V / 60AH | 2x 12V / 60AH | 2x 12V / 60AH | 2x 12V / 60AH |
| Engine & Transmission | 49 | Internal Combustion Engine | Make / Model | | | MITSUBISHI / S6S | MITSUBISHI / S6S | MITSUBISHI / S6S | MITSUBISHI / S6S |
| | 50 | | Rated Output / r.p.m | | | 64.7kW / 2300r.p.m. : 88PS / 2300r.p.m. | 64.7kW / 2300r.p.m. : 88PS / 2300r.p.m. | 64.7kW / 2300r.p.m. : 88PS / 2300r.p.m. | 64.7kW / 2300r.p.m. : 88PS / 2300r.p.m. |
| | 51 | | Max Torque / r.p.m. | | | 284N·m / 1600r.p.m. : 29kgf·m / 1600r.p.m. | 284N·m / 1600r.p.m. : 29kgf·m / 1600r.p.m. | 284N·m / 1600r.p.m. : 29kgf·m / 1600r.p.m. | 284N·m / 1600r.p.m. : 29kgf·m / 1600r.p.m. |
| | 52 | | Number of Cylinders | | Nm/r.&.m | 6 | 6 | 6 | 6 |
| | | | Displacement | | cc | 4996 | 4996 | 4996 | 4996 |
| | | | Fuel Tank Capacity | | liter | 115 | 115 | 115 | 115 |
| | 55 | Transmission | Number of Speed Fwd. / Rvs-Type | | Power shift T/M | 2/1 - Automatic Power-shift T/M | 2/1 - Automatic Power-shift T/M | 2/1 - Automatic Power-shift T/M | 2/1 - Automatic Power-shift T/M |
| | | | | | Manual shift T/M | 2/2 - Manual shift T/M | 2/2 - Manual shift T/M | 2/2 - Manual shift T/M | 2/2 - Manual shift T/M |
| | 57 | Operating Pressure | For Attachments | | $kg/cm^2$ | 180 | 180 | 180 | 180 |

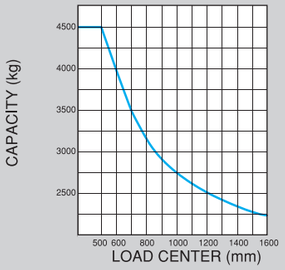
**NOTE :** * Computed Values & subject to load condition

## LOAD CHART

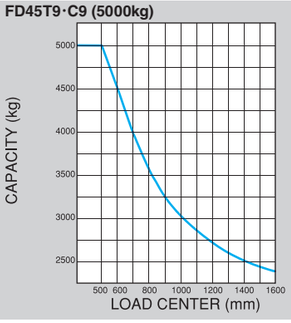
**FD35T9·C9 (4000kg)**



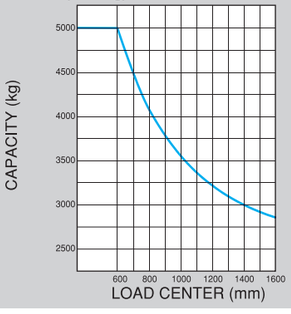

**FD40T9·C9 (4500kg)**




**FD45T9·C9 (5000kg)**




**FD50T9 (5000kg)**




**NOTE :**

Capacities shown are computed with upright in vertical position.
Load center are determined front face of forks.
Capacities are based on a 1000mm cube load configuration with the center of gravity (C.G.) at the true center of the cube, and standard forks.
Truck capacities with upright in forward tilt position will be less.
Long forks, and unusually wide or tall loads may also reduce capacity.
Contact TCM representative for capacity information on irregular loads.
Specific capacities are shown on truck nameplates.
UniCarriers Corporation Industrial Trucks are equipped with certain safety devices as standard equipment.
TCM will not assume any liability for injuries or damage arising from or caused by the removal of any safety devices from any of its products.

## STANDARD SPECIFICATIONS

### ■ Wide View Mast VM

| Mast Model | Rated Capacity | | | | | | | Max. Fork Height | Overall Mast Height | | | | | Tilting Angle | Service Weight | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FD35T9・C9 | | FD40T9・C9 | | FD45T9・C9 | | FD50T9 | | Lowered | | | Raised with Backrest | | | | | | |
| | Load Center | | Load Center | | Load Center | | Load Center | | FD35T9・C9 FD40T9・C9 | FD45T9・C9 | FD50T9 | FD35T9・C9 FD40T9・C9 FD45T9・C9 | FD50T9 | F/B | FD35T9(C9) | FD40T9(C9) | FD45T9(C9) | FD50T9 |
| | 500mm | 600mm | 500mm | 600mm | 500mm | 600mm | 500mm/600mm | | | | | | | | | | | |
| | kg | kg | kg | kg | kg | kg | kg | mm | mm | mm | mm | mm | mm | deg | kg | kg | kg | kg |
| VM250 | 4000 | 3500 | 4500 | 4000 | 5000 | 4500 | 5000 | 2500 | 1980 | 1985 | 2110 | 3765 | 3920 | 6/10 | 6040 (6000) | 6390 (6350) | 6890 (6850) | 7190 |
| VM300 | 4000 | 3500 | 4500 | 4000 | 5000 | 4500 | 5000 | 3000 | 2230 | 2235 | 2360 | 4265 | 4420 | 6/12 | 6100 (6060) | 6450 (6410) | 6960 (6920) | 7260 |
| VM330 | 4000 | 3500 | 4500 | 4000 | 5000 | 4500 | 5000 | 3300 | 2380 | 2385 | 2510 | 4565 | 4720 | 6/12 | 6130 (6090) | 6480 (6440) | 7000 (6960) | 7300 |
| VM350 | 4000 | 3500 | 4500 | 4000 | 5000 | 4500 | 5000 | 3500 | 2480 | 2485 | 2610 | 4765 | 4920 | 6/12 | 6150 (6110) | 6500 (6460) | 7020 (6980) | 7320 |
| VM375 | 4000 | 3500 | 4500 | 4000 | 5000 | 4500 | 5000 | 3750 | 2605 | 2610 | 2735 | 5015 | 5170 | 6/6 *6/12 | 6220 (6180) | 6570 (6530) | 7060 (7020) | 7360 |
| VM400 | 4000 | 3500 | 4500 | 4000 | 5000 | 4500 | 5000 | 4000 | 2780 | 2785 | 2910 | 5265 | 5420 | 6/6 *6/12 | 6270 (6230) | 6620 (6580) | 7160 (7120) | 7460 |
| VM425 | 4000 | 3500 | 4500 | 4000 | 5000 | 4500 | 5000 | 4250 | 2905 | 2910 | 3035 | 5515 | 5670 | 6/6 *6/12 | 6300 (6260) | 6650 (6610) | 7190 (7150) | 7490 |
| VM450 | 4000 | 3500 | 4500 | 4000 | 5000 | 4500 | 5000 | 4500 | 3030 | 3035 | 3160 | 5765 | 5920 | 6/6 *6/12 | 6320 (6280) | 6670 (6630) | 7210 (7170) | 7510 |
| VM475 | 3500 *4000 | 3500 | 4000 *4500 | 4000 | 4800 | 4500 | 5000 | 4750 | 3155 | 3160 | 3285 | 6015 | 6170 | 6/6 | 6380 (6340) | 6730 (6690) | 7250 (7210) | 7550 |
| VM500 | 3500 *3700 | 3500 | 4000 *4300 | 4000 | 4500 *4600 | 4500 | 5000 | 5000 | 3280 | 3285 | 3410 | 6265 | 6420 | 6/6 | 6400 (6360) | 6750 (6710) | 7280 (7240) | 7580 |
| VM550 | 2800 *3300 | 2800 *3300 | 3200 *3900 | 3200 *3900 | 4000 *4400 | 4000 *4400 | 4000 *4800 | 5500 | 3580 | 3585 | 3710 | 6765 | 6920 | 3/6 | 6480 (6440) | 6830 (6790) | 7420 (7380) | 7720 |
| VM600 | 2200 *3200 | 2200 *3200 | 2500 *3700 | 2500 *3700 | 3350 *4000 | 3350 *4000 | 3350 *4000 | 6000 | 3830 | 3835 | 3960 | 7265 | 7420 | 3/6 | 6530 (6490) | 6880 (6840) | 7480 (7440) | 7780 |

### ■ Wide View Full-Free 2-stage Mast VFM

| Mast Model | Rated Capacity | | | | | | | Max. Fork Height | Overall Mast Height | | | | | (2) Free lift with Backrest | | | Tilting Angle | Service Weight | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FD35T9・C9 | | FD40T9・C9 | | FD45T9・C9 | | FD50T9 | | Lowered | | | (1) Raised with Backrest | | | | | | | | | |
| | Load Center | | Load Center | | Load Center | | Load Center | | FD35T9・C9 FD40T9・C9 | FD45T9・C9 | FD50T9 | FD35T9・C9 FD40T9・C9 FD45T9・C9 | FD50T9 | FD35T9・C9 FD40T9・C9 | FD45T9 FD45C9 | FD50T9 | F/B | FD35T9(C9) | FD40T9(C9) | FD45T9(C9) | FD50T9 |
| | 500mm | 600mm | 500mm | 600mm | 500mm | 600mm | 500mm/600mm | | | | | | | | | | | | | | |
| | kg | kg | kg | kg | kg | kg | kg | mm | mm | mm | mm | mm | mm | mm | mm | mm | deg | kg | kg | kg | kg |
| VFM250 | 4000 | 3500 | 4500 | 4000 | 5000 | 4500 | 5000 | 2500 | 1985 | 1985 | 2110 | 3765 | 3920 | 765 | 765 | 740 | 6/10 | 6240 (6200) | 6590 (6550) | 6970 (6930) | 7280 |
| VFM300 | 4000 | 3500 | 4500 | 4000 | 5000 | 4500 | 5000 | 3000 | 2185 | 2235 | 2360 | 4265 | 4420 | 960 | 1015 | 990 | 6/12 | 6290 (6250) | 6640 (6600) | 7040 (7000) | 7350 |
| VFM330 | 4000 | 3500 | 4500 | 4000 | 5000 | 4500 | 5000 | 3300 | 2385 | 2385 | 2510 | 4565 | 4720 | 1160 | 1165 | 1140 | 6/12 | 6350 (6310) | 6700 (6660) | 7080 (7040) | 7390 |
| VFM350 | 4000 | 3500 | 4500 | 4000 | 5000 | 4500 | 5000 | 3500 | 2485 | 2485 | 2610 | 4765 | 4920 | 1260 | 1265 | 1240 | 6/12 | 6370 (6330) | 6720 (6680) | 7110 (7070) | 7420 |
| VFM375 | 4000 | 3500 | 4500 | 4000 | 5000 | 4500 | 5000 | 3750 | 2610 | 2610 | 2735 | 5015 | 5015 | 1390 | 1390 | 1365 | 6/6 *6/12 | 6410 (6370) | 6760 (6720) | 7140 (7100) | 7450 |
| VFM400 | 4000 | 3500 | 4500 | 4000 | 5000 | 4500 | 5000 | 4000 | 2785 | 2785 | 2910 | 5265 | 5420 | 1560 | 1565 | 1540 | 6/6 *6/12 | 6530 (6490) | 6880 (6840) | 7270 (7230) | 7550 |
| VFM425 | 4000 | 3500 | 4500 | 4000 | 5000 | 4500 | 5000 | 4250 | 2910 | 2910 | 3035 | 5515 | 5670 | 1690 | 1690 | 1665 | 6/6 *6/12 | 6570 (6530) | 6920 (6880) | 7300 (7260) | 7580 |
| VFM450 | 4000 | 3500 | 4500 | 4000 | 5000 | 4500 | 5000 | 4500 | 3035 | 3035 | 3160 | 5765 | 5920 | 1810 | 1815 | 1790 | 6/6 *6/12 | 6600 (6560) | 6950 (6910) | 7330 (7290) | 7620 |
| VFM475 | 3500 *4000 | 3500 | 4000 *4500 | 4000 | 4800 | 4500 | 5000 | 4750 | 3160 | 3160 | 3285 | 6015 | 6170 | 1940 | 1940 | 1915 | 6/6 | 6630 (6590) | 6980 (6940) | 7370 (7330) | 7650 |
| VFM500 | 3500 *3700 | 3500 | 4000 *4300 | 4000 | 4500 *4600 | 4500 | 5000 | 5000 | 3285 | 3285 | 3410 | 6265 | 6420 | 2065 | 2065 | 2040 | 6/6 | 6670 (6630) | 7020 (6980) | 7400 (7360) | 7690 |
| VFM550 | 2800 *3300 | 2800 *3300 | 3200 *3900 | 3200 *3900 | 4000 *4400 | 4000 *4400 | 4000 *4800 | 5500 | 3585 | 3585 | 3710 | 6765 | 6920 | 2365 | 2365 | 2340 | 3/6 | 6800 (6760) | 7150 (7110) | 7530 (7490) | 7820 |
| VFM600 | 2200 *3200 | 2200 *3200 | 2500 *3700 | 2500 *3700 | 3350 *4000 | 3350 *4000 | 3350 *4000 | 6000 | 3835 | 3835 | 3960 | 7265 | 7420 | 2615 | 2615 | 2590 | 3/6 | 6860 (6820) | 7210 (7170) | 7600 (7560) | 7890 |

**NOTE :** (1) For height without backrest : [FD35T9・C9・40T9・C9]-460㎜ [FD45T9・C9]-385㎜ [FD50T9]-465㎜ (2) For free lift without backrest : [FD35T9・C9・40T9・C9]+460㎜ [FD45T9・C9]+385㎜ [FD50T9]+465㎜ Weight for without backrest : [FD35T9・C9・40T9・C9・45T9・C9]-30kg [FD50T9]-45kg

### ■ Wide View Full-Free 3-stage Mast VFHM

| Mast Model | Rated Capacity | | | | | | | Max. Fork Height | Overall Mast Height | | | | | (2) Free lift with Backrest | | | Tilting Angle | Service Weight | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FD35T9・C9 | | FD40T9・C9 | | FD45T9・C9 | | FD50T9 | | Lowered | | | (1) Raised with Backrest | | | | | | | | | |
| | Load Center | | Load Center | | Load Center | | Load Center | | FD35T9・C9 FD40T9・C9 | FD45T9・C9 | FD50T9 | FD35T9・C9 FD40T9・C9 FD45T9・C9 | FD50T9 | FD35T9・C9 FD40T9・C9 | FD45T9 FD45C9 | FD50T9 | F/B | FD35T9(C9) | FD40T9(C9) | FD45T9(C9) | FD50T9 |
| | 500mm | 600mm | 500mm | 600mm | 500mm | 600mm | 500mm/600mm | | | | | | | | | | | | | | |
| | kg | kg | kg | kg | kg | kg | kg | mm | mm | mm | mm | mm | mm | mm | mm | mm | deg | kg | kg | kg | kg |
| VFHM360 | 3900 | 3500 | 4400 | 4000 | 4900 | 4500 | 4800 | 3600 | 1900 | 1970 | 2050 | 4865 | 5020 | 675 | 750 | 680 | 6/6 | 6390 (6350) | 6740 (6700) | 7180 (7140) | 7500 |
| VFHM400 | 3900 | 3500 | 4400 | 4000 | 4900 | 4500 | 4800 | 4000 | 2035 | 2105 | 2185 | 5265 | 5420 | 810 | 885 | 815 | 6/6 | 6440 (6400) | 6790 (6750) | 7230 (7190) | 7550 |
| VFHM435 | 3800 | 3500 | 4300 | 4000 | 4700 | 4500 | 4800 | 4350 | 2150 | 2220 | 2300 | 5615 | 5770 | 925 | 1000 | 930 | 6/6 | 6480 (6440) | 6830 (6790) | 7270 (7230) | 7590 |
| VFHM480 | 3500 *3700 | 3500 | 4000 *4200 | 4000 | 4600 | 4500 | 4800 | 4800 | 2300 | 2370 | 2450 | 6065 | 6220 | 1075 | 1150 | 1080 | 6/6 | 6530 (6490) | 6880 (6840) | 7320 (7280) | 7640 |
| VFHM500 | 3400 *3600 | 3400 | 4000 *4100 | 4000 | 4500 | 4400 | 4700 | 5000 | 2400 | 2470 | 2550 | 6265 | 6420 | 1175 | 1250 | 1180 | 6/6 | 6560 (6520) | 6910 (6870) | 7350 (7310) | 7680 |
| VFHM540 | 3100 *3400 | 3100 *3300 | 3300 *3900 | 3300 *3900 | 3400 *4300 | 3300 *4300 | 3500 *4600 | 5400 | 2525 | 2595 | 2675 | 6665 | 6820 | 1300 | 1375 | 1305 | 3/6 | 6610 (6570) | 6960 (6920) | 7400 (7360) | 7720 |
| VFHM600 | 2200 *3200 | 2200 *3200 | 2400 *3700 | 2400 *3700 | 2500 *4000 | 2400 *3900 | 2500 *4200 | 6000 | 2750 | 2820 | 2900 | 7265 | 7420 | 1525 | 1600 | 1530 | 3/6 | 6750 (6710) | 7100 (7060) | 7540 (7500) | 7840 |
| VFHM650 | *2800 | *2800 | *3200 | *3100 | *3400 | *3300 | *3600 | 6500 | 2970 | 3040 | 3120 | 7765 | 7920 | 1745 | 1820 | 1750 | *3/3 | 6820 (6780) | 7170 (7130) | 7620 (7580) | 7950 |
| VFHM700 | *2500 | *2400 | *2800 | *2700 | *3000 | *2900 | *3000 | 7000 | 3135 | 3205 | 3285 | 8265 | 8420 | 1910 | 1985 | 1915 | *3/3 | 6870 (6830) | 7220 (7180) | 7680 (7640) | 8020 |

**NOTE :** (1) For height without backrest : [FD35T9・C9・40T9・C9]-475㎜ [FD45T9・C9]-395㎜ [50T9]-495㎜ (2) For free lift without backrest : [FD35T9・C9・40T9・C9]+475㎜ [FD45T9・C9]+395㎜ [50T9]+495㎜ Weight for without backrest : [FD35T9・C9・40T9・C9・45T9・C9]-30kg [FD50T9]-45kg

**NOTE :** Rated capacity with(*) : Shows capacity with front dual tires. Service weight with dual tires : +20kg
Lifting speed with VFM/VFHM mast : with VFM [FD35T9・C9・40T9・C9]420㎜/s [FD45T9・C9・50T9]400㎜/s with load.
with VFHM [FD35T9・C9・40T9・C9]470㎜/s [FD45T9・C9・50T9]400㎜/s with load.
Overall vehicle length with VFHM mast : [FD35T9・C9・40T9・C9・45T9・C9]+40㎜ [FD50T9]+45㎜ longer than of standard model with VM/VFM mast.

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## STANDARD EQUIPMENT AND ACCESSORIES

### [Equipment]
- Asbestos-free brake shoe material
- Centrifugal air cleaner
- Coolant recovery system
- Cylinder type bonnet latch with locking function
- Deluxe suspension seat with seat-belt
- Drawbar device
- Engine after glow system
- Engine auto glow system
- Fuel water sedimenter
- Full hydraulic power steering
- Heavy duty overhead guard
- Hi-visibility, wide view mast (VM300)
- Hydraulic oil dipstick
- ITA Class Ⅲ & Ⅳ carriage
- J-lug long life tires
- Lift circuit cut-off valve
- Load backrest
- Overhead air intake system
- Power-assisted brake
- Power-assisted oil clutch (manual shift T/M)
- Retaining rollers
- Return hydraulic filter
- Suction hydraulic strainer
- Tilt lock valve
- Transmission oil dipstick (power shift T/M)
- Transmission oil filter (power shift T/M)
- 1070mm forks (1220mm for 5 ton)
- 2-spool control valve with pressure relief

### [Controls]
- Electric shift control lever (power shift T/M)
- Lift and tilt levers
- Multi-function switch lever (lighting and turn-signal) with self-cancelling mechanism
- Parking brake lever with inter-lock
- Tilt adjustable steering post

### [Accessories]
- Access-assisted hand grip
- Back-up alarm buzzer
- Back-up lights
- Deluxe non-slip floor mat
- Documents clip
- Documents holder
- Electric horn
- Front combination lights (turn signal, clearance)
- Glove compartment / Pen holder
- Head lights trafic purposes
- High-mounted rear combination lights (tail, brake, back-up, turn signal and reflector)
- Operator tool kit
- Overhead guard canvas
- Side view mirrors
- Tilt cylinder covers

### [Instruments and Switch]
- Charge indicator
- Engine oil pressure warning indicator
- Fuel gauge
- Fuel sedimenter indicator
- Glow indicator
- Hourmeter
- Ignition key engine stop
- Neutral safety switch
- Water temperature gauge

## OPTIONAL LOADING ATTACHMENT

- Alternative fork lengths
- Bale clamp
- Carton clamp (on request)
- Crane arm (on request)
- Drum clamp (on request)
- Fork clamp (on request)
- Fork extension sleeves
- Fork positioner (hydraulic type)
- Fork positioner (manual type)
- High, wide type load backrest
- Hinged forks, bucket
- Load push-pull (on request)
- Load stabilizer (on request)
- Ram
- Rotating bale clamp
- Rotating forks (hook-on, integral type)
- Rotating paper roll clamp (hook-on, integral type)
- Side shift
- Sleeve-in hook (on request)
- Wide type fork carriage
- Wide view full free 2-stage (VFM) mast
- Wide view full free 3-stage (VFHM) mast

## OPTIONAL EQUIPMENT AND ACCESSORIES

### [Equipment]
- Air-conditioner (steel cabin) (SCBAC)
- Auxiliary hydraulic valve modules
- Central greasing system (CL)
- Color tire (white, green) (TUW・G)
- Dual element aircleaner (ADE)
- Engine air precleaner (CAKB)
- Exhaust purify catalystic muffler (EPM)
- Front dual drive wheels (DD/SDD)
- Heater (HR)
- Heater & defroster (steel cabin) (DEF)
- High profile overhead guard (2400mm) (HGH)
- Hydraulic oil cooler (CRH)
- Low profile overhead guard (2130mm) (HGL)
- Overhead exhaust system (TUE)
- Plate fin radiator (RAD PF)
- Radiator dust screen (fine, medium mesh) (DSR)
- Semi-integral type power steering
- Smoke reduction/spark arrester muffler (CBM)
- Solid tires (Unique cushion tires) (SE)
- Steel cabin (SCB001)
- Windshield with wiper (AW071)

### [Accessories]
- Custom paint-work
- Fire extinguisher (FE)
- Rear working light (RWL)
- Rotating warning light (Beacon) (RLY/RLR)
- Steering cylinder boot (PSB)
  (This applies to the semi-integral type power steering only.)
- Tilt cylinder covers (TLB)

### [Instruments and Switch]
- Air cleaner clogging warning indicator
- Ammeter (AM)
- O.K. monitor (OKM)
  (battery electrolyte level, coolant level, parking brake, air-cleaner)
- Speedometer (SM)
- Torque converter oil pressure gauge (TPM)
- Torque converter oil temperature gauge (TTM)
  (power shift T/M)

Others on request

**NOTES :** ●Meets following major standards and code:
ISO22915-2 Counter Balanced Lift Trucks, Stability & Safety Test (Int'l)
JIS D6001 Industrial Lift Trucks (Japan)
ISO D6011 Stability & Safety Test (Japan)
●Overhead guard meets ISO 6055, JIS D6021

# FD Series

**FD35 / FD40 / FD45 / FD50**

- 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.

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