

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 SPECIFICATIONS

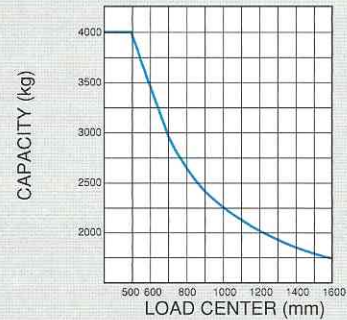
Characteristics	1	Manufacturer					
	2	Model		Power shift T/M	FD35T9		
				Manual shift T/M	FD35C9		
	3	Load Capacity	Load Center 500mm	kg	4000		
			Load Center 600mm	kg	3500		
	5	Power Type			Diesel		
6	Operator Position			Sit Down Rider Type			
7	Tire Type	Front / Rear			Pneumatic		
8	Wheels (X=driven)	Front / Rear			2 X / 2		
Dimensions	9	Maximum Fork Height		mm	3000		
	10	Free Lift		mm	150		
	13	Fork Size	L X W X T	mm	1070 X 150 X 50		
		Fork Spread (Outside)	Max. / Min.	mm	1290 / 300		
	14	Tilt Angle	Fwd. / Bwd.	deg	6 / 12		
	15	Length to Fork Face		mm	3080		
	16	Overall Width		mm	1480		
	17	Mast Height Fork Lowered		mm	2230		
	18	Mast Height Fork Raised		mm	4265		
	19	Overhead Guard Height		mm	2250		
	21	Turning Radius (Outside)		mm	2790		
22	Load Distance (Centerline of front axle to front face of forks)		mm	560			
	Rear Overhang		mm	520			
23	Basic Right Angle Stacking Aisle Width		mm	4750			
Performance	24		Travel Max.	Power shift T/M fwd/rvs	km/h	26.0 / 19.5	
			Manual shift T/M fwd/rvs	km/h	19.5 / 19.0		
	25	Speeds	Lifting	Full load	mm/sec	540	
			No load	mm/sec	580		
	26	Lowering	Full load	mm/sec	500		
			No load	mm/sec	550		
28	Max. Drawbar Pull	Power shift T/M	Full / No load	kN	33.3 / 17.6		
		Manual shift T/M	Full / No load	kN	21.1 / 17.6		
29	Max. Gradeability*	Power shift T/M	Full / No load	%	33 / 20		
		Manual shift T/M	Full / No load	%	18 / 20		
Weight	32	Total Weight	Power shift T/M	kg	6100		
			Manual shift T/M	kg	6060		
	33	Weight Distribution (Powershift T/M)	Full load	Front	kg	8410	
			Rear	kg	1190		
	34	No load	Front	kg	2880		
			Rear	kg	3220		
	33	Weight Distribution (Manual shift T/M)	Full load	Front	kg	8370	
			Rear	kg	1190		
34	No load	Front	kg	2840			
		Rear	kg	3220			
Chassis & Wheels	35		Number	Front / Rear		2 / 2	
	36		Tires	Front		300-15-18PR (I)	
	37		Size	Rear		7.00-12-12PR (I)	
	38	Wheelbase		mm	2000		
	39	Tread	Front	mm	1180		
			Rear	mm	1195		
		Backrest Height		mm	1220		
		Overhead Guard Clearance		mm	1020		
		Counterweigh Height		mm	1320		
		Drawbar Pin Center Height		mm	320		
	Floor Height		mm	845			
40	Underclearance	Min Full Load		mm	155		
41		Center of wheelbase		mm	185		
42	Brake	Service (Foot)			Hydraulic-Foot pedal		
43		Parking			Mechanical - Hand lever		
Engine & Transmission	45	Battery	Voltage / Capacity (5HR)		V/AH	2x 12V / 60AH	
	49	Internal Combustion Engine	Make / Model			MITSUBISHI / S6S	
	50		Rated Output / r.p.m			64.7kW / 2300r.p.m. : 88PS / 2300r.p.m.	64.7
	51		Max Torque / r.p.m.			284N·m / 1600r.p.m. : 29kgf·m / 1600r.p.m.	284
	52		Number of Cylinders		Nm/r.&m	6	
			Displacement		cc	4996	
		Fuel Tank Capacity		liter	115		
55	Transmission	Number of Speed Fwd. / Rvs-Type		Power shift T/M	2/1 - Automatic Power-shift T/M		
				Manual shift T/M	2/2 - Manual shift T/M		
57	Operating Pressure	For Attachments		kg/cm ²	180		

NOTE : * Computed Values & subject to load condition

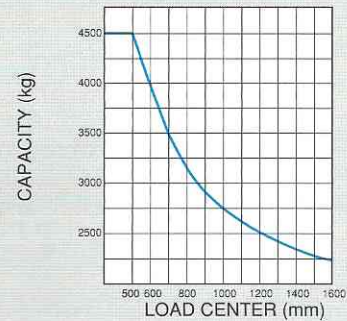
LOAD CHART

UNICARRIERS		
FD40T9 FD40C9	FD45T9 FD45C9	FD50T9
4500	5000	5000
4000	4500	5000
Diesel	Diesel	Diesel
Sit Down Rider Type	Sit Down Rider Type	Sit Down Rider Type
Pneumatic	Pneumatic	Pneumatic
2 X / 2	2 X / 2	2 X / 2
3000	3000	3000
150	155	160
1070 X 150 X 50	1070 X 150 X 55	1220 X 150 X 60
1290 / 300	1290 / 300	1290 / 300
6 / 12	6 / 12	6 / 12
3110	3190	3390
1480	1480	1480
2230	2235	2360
4265	4265	4420
2250	2250	2250
2820	2860	3040
560	590	590
550	600	600
4780	4850	5030
26.0 / 19.5	26.0 / 19.0	26.0 / 19.0
19.5 / 19.0	19.5 / 19.0	
540	480	480
580	520	520
500	450	450
550	500	500
33.3 / 17.6	34.3 / 18.6	34.3 / 18.6
21.1 / 17.6	21.6 / 18.6	
30 / 20	27 / 20	25 / 20
16 / 18	15 / 16	
6450	6960	7260
6410	6920	
9140	10130	10980
1310	1330	1280
2820	2950	3270
3630	4010	3990
9100	10090	
1310	1330	
2780	2910	
3630	4010	
2 / 2	2 / 2	2 / 2
300-15-18PR (I)	300-15-18PR (I)	300-15-18PR (I)
7.00-12-12PR (I)	7.00-12-14PR (I)	7.00-12-14PR (I)
2000	2000	2200
1180	1180	1180
1195	1195	1195
1220	1215	1370
1020	1020	1020
1320	1320	1320
320	320	320
845	845	845
155	140	140
185	185	185
Hydraulic-Foot pedal	Hydraulic-Foot pedal	Hydraulic-Foot pedal
Mechanical - Hand lever	Mechanical - Hand lever	Mechanical - Hand lever
2x 12V / 60AH	2x 12V / 60AH	2x 12V / 60AH
MITSUBISHI / S6S	MITSUBISHI / S6S	MITSUBISHI / S6S
64.7kW / 2300r.p.m.	64.7kW / 2300r.p.m.	64.7kW / 2300r.p.m.
284N·m / 1600r.p.m.	284N·m / 1600r.p.m.	284N·m / 1600r.p.m.
6	6	6
4996	4996	4996
115	115	115
2/1 - Automatic Power-shift T/M	2/1 - Automatic Power-shift T/M	2/1 - Automatic Power-shift T/M
2/2 - Manual shift T/M	2/2 - Manual shift T/M	2/2 - Manual shift T/M
180	180	180

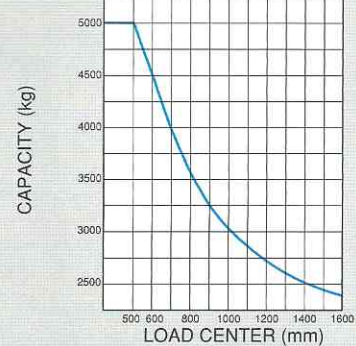
FD35T9·C9 (4000kg)



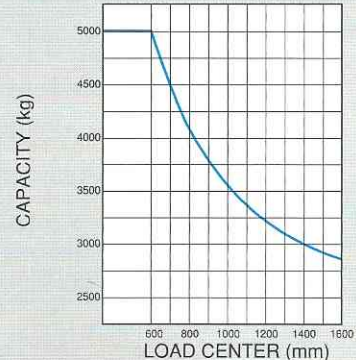
FD40T9·C9 (4500kg)



FD45T9·C9 (5000kg)



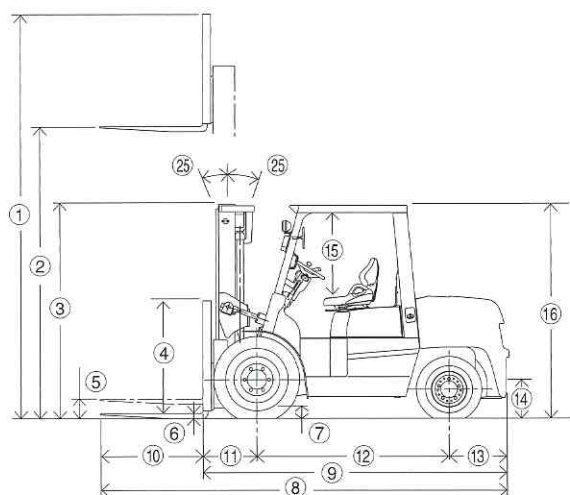
FD50T9 (5000kg)



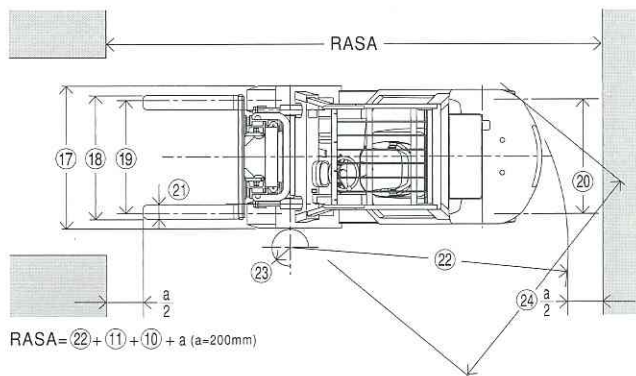
NOTE :

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 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		

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 traffic 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 pre-cleaner (CAKB)
- Exhaust purify catalytic 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:

- ISO 22915-2 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.