

1F5 Series

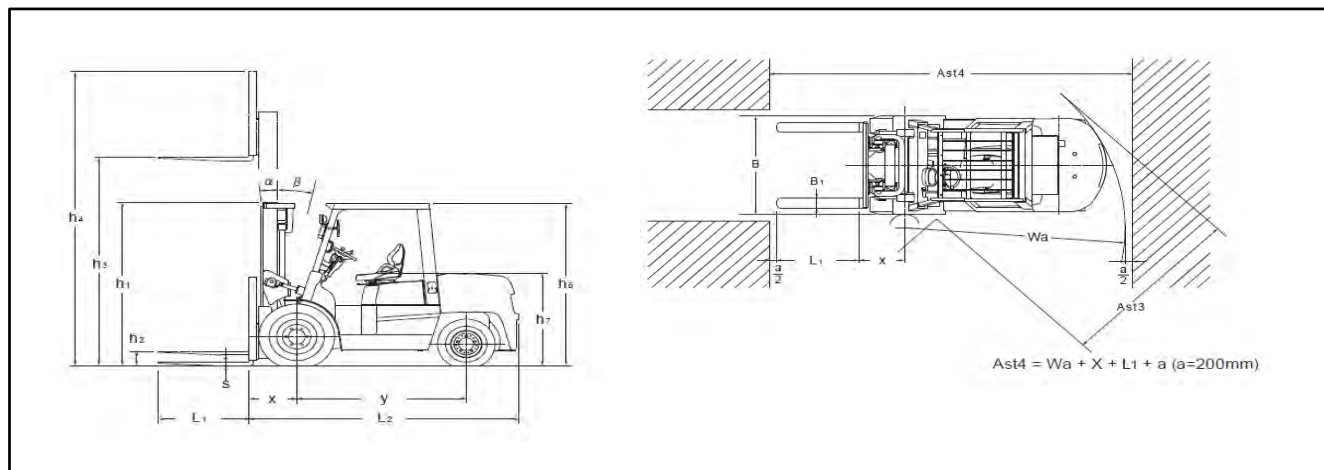
Diesel-powered Forklift / Specification Sheet

3.5-5.0 ton



Truck Dimensions & Mast Specifications

Truck Dimensions



Mast Specifications & Rated Capacities

D1F5F35U, D1F5F40U

Mast type	Mast name	Max. Fork Height	Tilt angle	Overall mast height		Rated capacity (LC 600mm)		Service weight	
				Lowered	Raised with backrest	D1F5F35U	D1F5F35U	D1F5F35U	D1F5F40U
		(mm)	(deg.)	(mm)	(mm)	(kg)	(kg)	(kg)	(kg)
Wide view mast	VM250	2500	6 / 10	1980	3765	3500	4000	6020	6450
	VM300	3000	6 / 12	2230	4265	3500	4000	6080	6510
	VM330	3300	6 / 12	2380	4565	3500	4000	6110	6540
	VM350	3500	6 / 12	2480	4765	3500	4000	6130	6560
	VM375	3750	6 / 6 * 6 / 12	2605	5015	3500	4000	6200	6630
	VM400	4000	6 / 6 * 6 / 12	2780	5265	3500	4000	6250	6680
	VM425	4250	6 / 6 * 6 / 12	2905	5515	3500	4000	6280	6710
	VM450	4500	6 / 6 * 6 / 12	3030	5765	3500	4000	6300	6730
	VM475	4750	6 / 6	3155	6015	3500	4000	6360	6790
	VM500	5000	6 / 6	3280	6265	3500	4000	6380	6810
	VM550	5500	3 / 6	3580	6765	2800 * 3300	3200 * 3900	6460	6890
	VM600	6000	3 / 6	3830	7265	2200 * 3200	2500 * 3700	6510	6940
Wide view full-free 2 stage mast (VFM)	VFM250	2500	6 / 12	1985	3765	3500	4000	6220	6650
	VFM300	3000	6 / 12	2185	4265	3500	4000	6270	6700
	VFM330	3300	6 / 12	2385	4565	3500	4000	6330	6760
	VFM350	3500	6 / 12	2485	4765	3500	4000	6350	6780
	VFM375	3750	6 / 6 * 6 / 12	2610	5015	3500	4000	6390	6820
	VFM400	4000	6 / 6 * 6 / 12	2785	5265	3500	4000	6510	6940
	VFM425	4250	6 / 6 * 6 / 12	2910	5515	3500	4000	6550	6980
	VFM450	4500	6 / 6 * 6 / 12	3035	5765	3500	4000	6580	7010
	VFM475	4750	6 / 6	3160	6015	3500	4000	6610	7040
	VFM500	5000	6 / 6	3285	6265	3500	4000	6650	7080
	VFM550	5500	3 / 6	3585	6765	2800 * 3300	3200 * 3900	6780	7210
	VFM600	6000	3 / 6	3835	7265	2200 * 3200	2500 * 3700	6840	7270
Wide view full-free 3 stage mast (VFHM)	VFHM360	3600	6 / 6	1900	4865	3500	4000	6370	6800
	VFHM400	4000	6 / 6	2035	5265	3500	4000	6420	6850
	VFHM435	4350	6 / 6	2150	5615	3500	4000	6460	6890
	VFHM480	4800	6 / 6	2300	6065	3500	4000	6510	6940
	VFHM500	5000	6 / 6	2400	6265	3400	4000	6540	6970
	VFHM540	5400	3 / 6	2525	6665	3100 * 3300	3300 * 3900	6590	7020
	VFHM600	6000	3 / 6	2750	7265	2200 * 3200	2400 * 3700	6730	7160
	VFHM650	6500	* 3 / 3	2970	7765	* 2800	* 3100	6800	7230
	VFHM700	7000	* 3 / 3	3135	8265	* 2400	* 2700	6850	7280

NOTE: * Figures for double tires only.

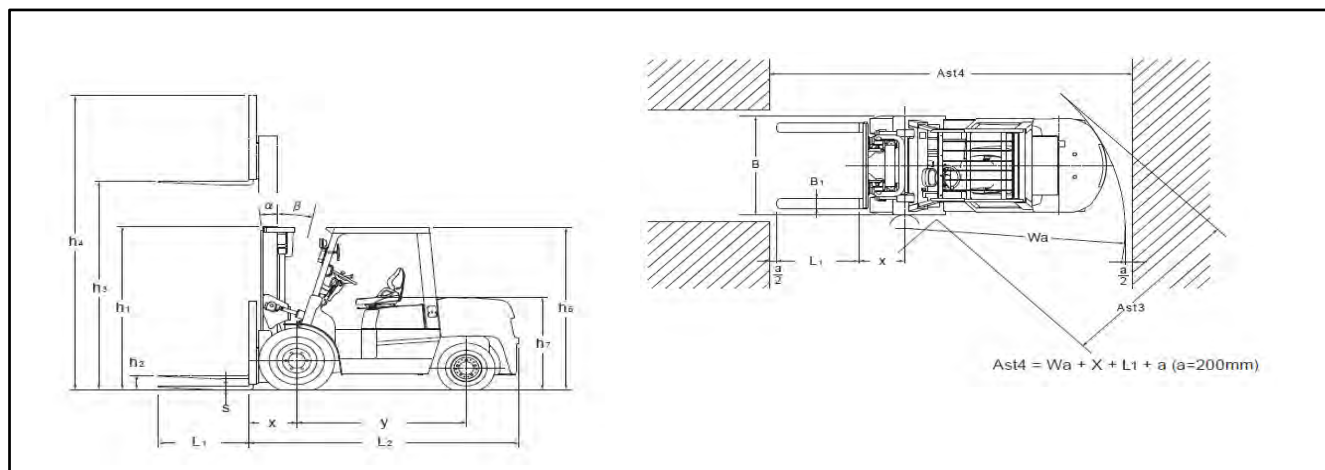
Main Truck Specifications

1	Manufacturer					UNICARRIERS		UNICARRIERS		
2	Model	Manufacturer's designation					D1F5F35U		D1F5F40U	
3	Capacity	Q	Rated Capacity			kg	3500 (4000)		4000 (4500)	
4	Load center	C	Distance			mm	600 (500)		600 (500)	
5	Power type	Electric (battery), diesel, gasoline					Diesel		Diesel	
6	Control type	Hand, pedestrian, stand-on, rider / seated					Rider / seated		Rider / seated	
7	Tire equipment	L=Pneumatic, V=Cushion			front / rear		L / L		L / L	
8	Wheel (x=driven)	Number			front / rear		2 x / 2		2 x / 2	
9	Lift telescopic	h3	Lift height			mm	3000		3000	
10		h2	Standard lift height			mm	150		150	
13	Fork size	L1	Length			mm	1070		1070	
		B1	Width			mm	150		150	
		S	Thickness			mm	50		50	
14	Tilt angle	α =Forward, β =Backward				°	6 / 12		6 / 12	
15	Overall dimensions	L2	Length to fork face			mm	3085		3135	
16		B	Width			mm	1480		1480	
17		h1	Height, upright lowered			mm	2230		2230	
18		h4	Height, upright extended			mm	4265		4265	
19		h6	Height, overhead guard			mm	2230		2230	
20		h7	Seat height			mm	1200		1200	
21	Turning radius	Wa					2730		2790	
22	Load distance	X	From center of front axle			mm	560		560	
23	Aisle width *	Ast3	Min. intersecting			mm	2500		2550	
		Ast4	Right angle stacking			mm	4715		4785	
24	Speed	Travel speed		Forward	km/h	26.0		26.0		
Reverse				km/h	19.5		19.5			
Lift speed		With load	mm/s	540		540				
		Without load	mm/s	580		580				
Lowering speed		With load	mm/s	500		500				
		Without load	mm/s	550		550				
27	Max. drawbar pull	With load			kN	33.3		33.3		
		Without load			kN	17.6		17.6		
29	Gradeability	With load			%	33		30		
		Without load			%	20		20		
32	Service weight					kg	6080		6510	
33	Axle loading	With load Load center 600mm		Front	kg	8480		9220		
Rear				kg	1100		1290			
34		Without load		Front	kg	2950		2900		
				Rear	kg	3130		3610		
35	Tires	Number			front / rear		2 / 2		2 / 2	
Size		Front		300-15-18PR(I)		300-15-18PR(I)				
		Rear		7.00-12-12PR(I)		7.00-12-12PR(I)				
38	Wheelbase	y			mm	2000		2000		
39	Tread	Center of tires		Front	mm	1180		1180		
				Rear	mm	1195		1195		
40	Ground clearance	At lowest point			mm	155		155		
41		Center of frame			mm	185		185		
42	Brakes	Mechanical / hydraulic / electronic					Hydraulic / mechanical		Hydraulic / mechanical	
43		Foot (pedal) / parking (hand)					Foot / parking		Foot / parking	
45	Battery	Number-volts / Ampere hours (capacity)				V-Ah	2-24 / 60		2-24 / 60	
49	Internal combustion engine	Manufacturer - model					MHI - S6S		MHI - S6S	
50		Rated output				kW	64.7		64.7	
		Rated rpm				rpm	2300		2300	
51		Torque				Nm/rpm	284 / 1600		284 / 1600	
52		Number of cylinders - Bore x stroke				mm	6 - 94 x 120		6 - 94 x 120	
		Displacement				cc	4996		4996	
55	Transmission	Type					Automatic		Automatic	
		Speed (forward/reverse)					2 / 1		2 / 1	
57	Working pressure	For attachment				MPa	17.7		17.7	

* Pallet size W: 1200mm L: 1200mm C: 200mm

Truck Dimensions & Mast Specifications

Truck Dimensions



Mast Specifications & Rated Capacities

D1F5M35U, D1F5M40U

Mast type	Mast name	Max. Fork Height	Tilt angle	Overall mast height		Rated capacity (LC 600mm)		Service weight	
				Lowered	Raised with backrest	D1F5M35U	D1F5M35U	D1F5M35U	D1F5M40U
		(mm)	(deg.)	(mm)	(mm)	(kg)	(kg)	(kg)	(kg)
Wide view mast	VM250	2500	6 / 10	1980	3765	3500	4000	5980	6410
	VM300	3000	6 / 12	2230	4265	3500	4000	6040	6470
	VM330	3300	6 / 12	2380	4565	3500	4000	6070	6500
	VM350	3500	6 / 12	2480	4765	3500	4000	6090	6520
	VM375	3750	6 / 6 * 6 / 12	2605	5015	3500	4000	6160	6590
	VM400	4000	6 / 6 * 6 / 12	2780	5265	3500	4000	6210	6640
	VM425	4250	6 / 6 * 6 / 12	2905	5515	3500	4000	6240	6670
	VM450	4500	6 / 6 * 6 / 12	3030	5765	3500	4000	6260	6690
	VM475	4750	6 / 6	3155	6015	3500	4000	6320	6750
	VM500	5000	6 / 6	3280	6265	3500	4000	6340	6770
	VM550	5500	3 / 6	3580	6765	2800 * 3300	3200 * 3900	6420	6850
	VM600	6000	3 / 6	3830	7265	2200 * 3200	2500 * 3700	6470	6900
Wide view full-free 2 stage mast (VFM)	VFM250	2500	6 / 12	1985	3765	3500	4000	6180	6610
	VFM300	3000	6 / 12	2185	4265	3500	4000	6230	6660
	VFM330	3300	6 / 12	2385	4565	3500	4000	6290	6720
	VFM350	3500	6 / 12	2485	4765	3500	4000	6310	6740
	VFM375	3750	6 / 6 * 6 / 12	2610	5015	3500	4000	6350	6780
	VFM400	4000	6 / 6 * 6 / 12	2785	5265	3500	4000	6470	6900
	VFM425	4250	6 / 6 * 6 / 12	2910	5515	3500	4000	6510	6940
	VFM450	4500	6 / 6 * 6 / 12	3035	5765	3500	4000	6540	6970
	VFM475	4750	6 / 6	3160	6015	3500	4000	6570	7000
	VFM500	5000	6 / 6	3285	6265	3500	4000	6610	7040
	VFM550	5500	3 / 6	3585	6765	2800 * 3300	3200 * 3900	6740	7170
	VFM600	6000	3 / 6	3835	7265	2200 * 3200	2500 * 3700	6800	7230
Wide view full-free 3 stage mast (VFHM)	VFHM360	3600	6 / 6	1900	4865	3500	4000	6330	6760
	VFHM400	4000	6 / 6	2035	5265	3500	4000	6380	6810
	VFHM435	4350	6 / 6	2150	5615	3500	4000	6420	6850
	VFHM480	4800	6 / 6	2300	6065	3500	4000	6470	6900
	VFHM500	5000	6 / 6	2400	6265	3400	4000	6500	6930
	VFHM540	5400	3 / 6	2525	6665	3100 * 3300	3300 * 3900	6550	6980
	VFHM600	6000	3 / 6	2750	7265	2200 * 3200	2400 * 3700	6690	7120
	VFHM650	6500	* 3 / 3	2970	7765	* 2800	* 3100	6760	7190
	VFHM700	7000	* 3 / 3	3135	8265	* 2400	* 2700	6810	7240

NOTE: * Figures for double tires.

1F5 Series

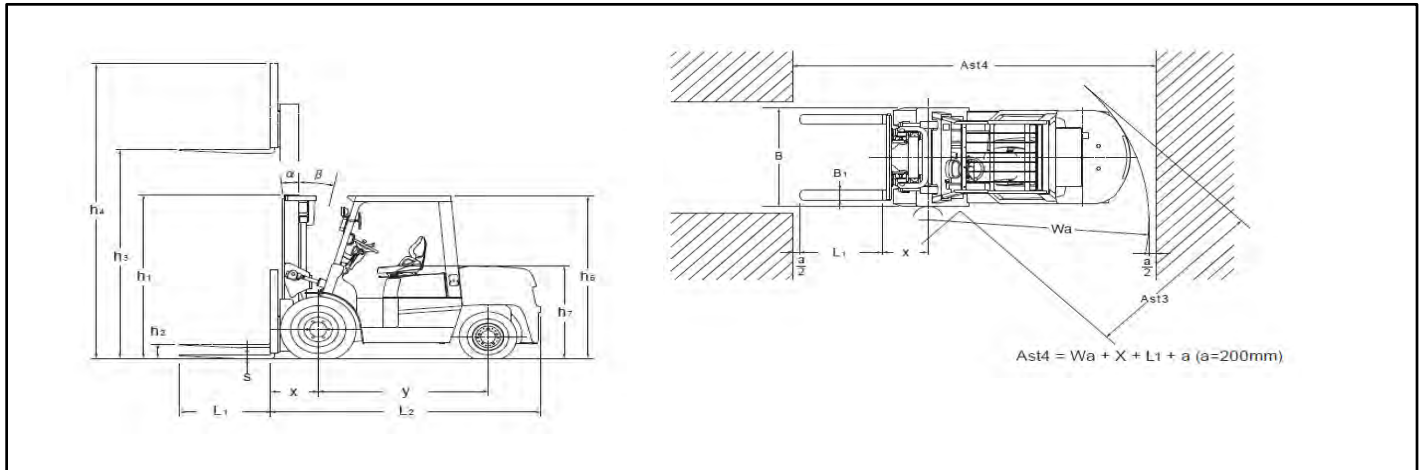
Main Truck Specifications

1	Manufacturer					UNICARRIERS	UNICARRIERS
2	Model	Manufacturer's designation				D1F5M35U	D1F5M40U
3	Capacity	Q	Rated Capacity		kg	3500 (4000)	4000 (4500)
4	Load center	C	Distance		mm	600 (500)	600 (500)
5	Power type	Electric (battery), diesel, gasoline				Diesel	Diesel
6	Control type	Hand, pedestrian, stand-on, rider / seated				Rider / seated	Rider / seated
7	Tire equipment	L=Pneumatic, V=Cushion		front / rear		L / L	L / L
8	Wheel (x=driven)	Number		front / rear		2 x / 2	2 x / 2
9	Lift telescopic	h3	Lift height		mm	3000	3000
10		h2	Standard lift height		mm	150	150
13	Fork size	L1	Length		mm	1070	1070
		B1	Width		mm	150	150
		S	Thickness		mm	50	50
14	Tilt angle	α =Forward, β =Backward			°	6 / 12	6 / 12
15	Overall dimensions	L2	Length to fork face		mm	3085	3135
16		B	Width		mm	1480	1480
17		h1	Height, upright lowered		mm	2230	2230
18		h4	Height, upright extended		mm	4265	4265
19		h6	Height, overhead guard		mm	2230	2230
20		h7	Seat height		mm	1200	1200
21	Turning radius	Wa				2730	2790
22	Load distance	X	From center of front axle		mm	560	560
23	Aisle width *	Ast3	Min. intersecting		mm	2500	2550
		Ast4	Right angle stacking		mm	4715	4785
24	Speed	Travel speed		Forward	km/h	19.5	19.5
Reverse				km/h	19.0	19.0	
Lift speed		With load	mm/s	540	540		
		Without load	mm/s	580	580		
Lowering speed		With load	mm/s	500	500		
		Without load	mm/s	550	550		
27	Max. drawbar pull	With load			kN	21.1	21.1
		Without load			kN	17.6	17.6
29	Gradeability	With load			%	18	16
		Without load			%	20	18
32	Service weight				kg	6040	6470
33	Axle loading	With load Load center 600mm		Front	kg	8440	9180
				Rear	kg	1100	1290
Without load		Front	kg	2910	2860		
		Rear	kg	3130	3610		
35	Tires	Number front / rear				2 / 2	2 / 2
Size		Front		300-15-18PR(I)	300-15-18PR(I)		
		Rear		7.00-12-12PR(I)	7.00-12-12PR(I)		
38	Wheelbase	y			mm	2000	2000
39	Tread	Center of tires		Front	mm	1180	1180
				Rear	mm	1195	1195
40	Ground clearance	At lowest point			mm	155	155
41		Center of frame			mm	185	185
42	Brakes	Mechanical / hydraulic / electronic				Hydraulic / mechanical	Hydraulic / mechanical
43		Foot (pedal) / parking (hand)				Foot / parking	Foot / parking
45	Battery	Number-volts / Ampere hours (capacity)			V-Ah	2-24 / 60	2-24 / 60
49	Internal combustion engine	Manufacturer - model				MHI - S6S	MHI - S6S
50		Rated output			kW	64.7	64.7
		Rated rpm			rpm	2300	2300
51		Torque			Nm/rpm	284 / 1600	284 / 1600
52		Number of cylinders - Bore x stroke			mm	6 - 94 x 120	6 - 94 x 120
		Displacement			cc	4996	4996
55	Transmission	Type				Manual shift	Manual shift
		Speed (forward/reverse)				2 / 2	2 / 2
57	Working pressure	For attachment			MPa	17.7	17.7

* Pallet size W: 1200mm L: 1200mm C: 200mm

Truck Dimensions & Mast Specifications

Truck Dimensions



Mast Specifications & Rated Capacities

D1F5F45U, D1F5M45U, D1F5F50U

Mast type	Mast name	Max. Fork Height	Tilt angle	Overall mast height				Rated capacity (LC 600mm)		Service weight		
				Lowered		Raised with backrest		D1F5F45U/ D1F5M45U	D1F5F50U	D1F5F45U	D1F5M45U	D1F5F50U
				D1F5F45U/ D1F5M45U	D1F5F50U	D1F5F45U/ D1F5M45U	D1F5F50U					
		(mm)	(deg.)	(mm)	(mm)	(mm)	(mm)	(kg)	(kg)	(kg)	(kg)	(kg)
Wide view mast	VM250	2500	6 / 10	1985	2110	3765	3920	4500	5000	6970	6930	7270
	VM300	3000	6 / 12	2235	2360	4265	4420	4500	5000	7040	7000	7340
	VM330	3300	6 / 12	2385	2510	4565	4720	4500	5000	7080	7040	7380
	VM350	3500	6 / 12	2485	2610	4765	4920	4500	5000	7100	7060	7400
	VM375	3750	6 / 6 * 6 / 12	2610	2735	5015	5170	4500	5000	7140	7100	7440
	VM400	4000	6 / 6 * 6 / 12	2785	2910	5265	5420	4500	5000	7240	7200	7540
	VM425	4250	6 / 6 * 6 / 12	2910	3035	5515	5670	4500	5000	7270	7230	7570
	VM450	4500	6 / 6 * 6 / 12	3035	3160	5765	5920	4500	5000	7290	7250	7590
	VM475	4750	6 / 6	3160	3285	6015	6170	4500	5000	7330	7290	7630
	VM500	5000	6 / 6	3285	3410	6265	6420	4500	5000	7360	7320	7660
	VM550	5500	3 / 6	3585	3710	6765	6920	4000 * 4400	4000 * 4800	7500	7460	7800
	VM600	6000	3 / 6	3835	3960	7265	7420	3550 * 4000	3350 * 4000	7560	7520	7860
Wide view full-free 2 stage mast (VFM)	VFM250	2500	6 / 12	1985	2110	3765	3920	4500	5000	7050	7010	7360
	VFM300	3000	6 / 12	2235	2360	4265	4420	4500	5000	7120	7080	7430
	VFM330	3300	6 / 12	2385	2510	4565	4720	4500	5000	7160	7120	7470
	VFM350	3500	6 / 12	2485	2610	4765	4920	4500	5000	7190	7150	7500
	VFM375	3750	6 / 6 * 6 / 12	2610	2735	5015	5015	4500	5000	7220	7180	7530
	VFM400	4000	6 / 6 * 6 / 12	2785	2910	5265	5420	4500	5000	7350	7310	7630
	VFM425	4250	6 / 6 * 6 / 12	2910	3035	5515	5670	4500	5000	7380	7340	7660
	VFM450	4500	6 / 6 * 6 / 12	3035	3160	5765	5920	4500	5000	7410	7370	7700
	VFM475	4750	6 / 6	3160	3285	6015	6170	4500	5000	7450	7410	7730
	VFM500	5000	6 / 6	3285	3410	6265	6420	4500	5000	7480	7440	7770
	VFM550	5500	3 / 6	3585	3710	6765	6920	4000 * 4400	4000 * 4800	7610	7570	7900
	VFM600	6000	3 / 6	3835	3960	7265	7420	3550 * 4000	3350 * 4000	7680	7640	7970
Wide view full-free 3 stage mast (VFHM)	VFHM360	3600	6 / 6	1970	2050	4865	5020	4500	4800	7260	7220	7580
	VFHM400	4000	6 / 6	2105	2185	5265	5420	4500	4800	7310	7270	7630
	VFHM435	4350	6 / 6	2220	2300	5615	5770	4500	4800	7350	7310	7670
	VFHM480	4800	6 / 6	2370	2450	6065	6220	4500	4800	7400	7360	7720
	VFHM500	5000	6 / 6	2470	2550	6265	6420	4400	4700	7430	7390	7760
	VFHM540	5400	3 / 6	2595	2675	6665	6820	3300 * 4300	3500 * 4600	7480	7440	7800
	VFHM600	6000	3 / 6	2820	2900	7265	7420	2400 * 3900	2500 * 4200	7620	7580	7920
	VFHM650	6500	* 3 / 3	3040	3120	7765	7920	* 3300	* 3600	7700	7660	8030
	VFHM700	7000	* 3 / 3	3205	3285	8265	8420	* 2900	* 3000	7760	7720	8100

NOTE: * Figures for double tires.

1F5 Series

Main Truck Specifications

1	Manufacturer					UNICARRIERS	UNICARRIERS	UNICARRIERS
2	Model	Manufacturer's designation				D1F5F45U	D1F5M45U	D1F5F50U
3	Capacity	Q	Rated Capacity		kg	4500 (5000)	4500 (5000)	5000 (5000)
4	Load center	C	Distance		mm	600 (500)	600 (500)	600 (500)
5	Power type	Electric (battery), diesel, gasoline				Diesel	Diesel	Diesel
6	Control type	Hand, pedestrian, stand-on, rider / seated				Rider / seated	Rider / seated	Rider / seated
7	Tire equipment	L=Pneumatic, V=Cushion		front / rear		L / L	L / L	L / L
8	Wheel (x=driven)	Number		front / rear		2 x / 2	2 x / 2	2 x / 2
9	Lift telescopic	h3	Lift height		mm	3000	3000	3000
10		h2	Standard lift height		mm	155	155	160
13	Fork size	L1	Length		mm	1070	1070	1220
		B1	Width		mm	150	150	150
		S	Thickness		mm	55	55	60
14	Tilt angle	α =Forward, β =Backward			°	6 / 12	6 / 12	6 / 12
15	Overall dimensions	L2	Length to fork face		mm	3215	3215	3415
16		B	Width		mm	1480	1480	1480
17		h1	Height, upright lowered		mm	2235	2235	2360
18		h4	Height, upright extended		mm	4265	4265	4420
19		h6	Height, overhead guard		mm	2230	2230	2230
20		h7	Seat height		mm	1200	1200	1200
21	Turning radius	Wa				2825	2825	3040
22	Load distance	X	From center of front axle		mm	590	590	590
23	Aisle width *	Ast3	Min. intersecting		mm	2550	2550	2700
		Ast4	Right angle stacking		mm	4820	4820	5040
24	Speed	Travel speed		Forward	km/h	26.0	19.5	26.0
Reverse				km/h	19.0	19.0	19.0	
Lift speed		With load	mm/s	480	480	480		
		Without load	mm/s	520	520	520		
Lowering speed		With load	mm/s	450	450	450		
		Without load	mm/s	450	450	450		
27	Max. drawbar pull	With load			kN	34.3	21.6	34.3
		Without load			kN	18.6	18.6	18.6
29	Gradeability	With load			%	27	15	25
		Without load			%	20	16	20
32	Service weight				kg	7040	7000	7340
33	Axle loading	With load Load center 600mm		Front	kg	10220	10180	11060
Rear				kg	1320	1320	1280	
34		Without load		Front	kg	3040	3000	3355.0
Rear				kg	4000	4000	3985	
35	Tires	Number		front / rear		2 / 2	2 / 2	2 / 2
36		Size		Front		300-15-18PR(I)	300-15-18PR(I)	300-15-18PR(I)
37				Rear		7.00-12-14PR(I)	7.00-12-14PR(I)	7.00-12-14PR(I)
38	Wheelbase	y			mm	2000	2000	2200
39	Tread	Center of tires		Front	mm	1180	1180	1180
				Rear	mm	1195	1195	1195
40	Ground clearance	At lowest point			mm	140	140	140
41		Center of frame			mm	185	185	185
42	Brakes	Mechanical / hydraulic / electronic				Hydraulic / mechanical	Hydraulic / mechanical	Hydraulic / mechanical
43		Foot (pedal) / parking (hand)				Foot / pedal	Foot / pedal	Foot / pedal
45	Battery	Number-volts / Ampere hours (capacity)			V-Ah	2-24 / 60	2-24 / 60	2-24 / 60
49	Internal combustion engine	Manufacturer - model				MHI - S6S	MHI - S6S	MHI - S6S
50		Rated output			kW	64.7	64.7	64.7
		Rated rpm			rpm	2300	2300	2300
51		Torque			Nm/rpm	284 / 1600	284 / 1600	284 / 1600
52		Number of cylinders - Bore x stroke			mm	6 - 94 x 120	6 - 94 x 120	6 - 94 x 120
		Displacement			cc	4996	4996	4996
55	Transmission	Type				Automatic	Manual shift	Automatic
		Speed (forward/reverse)				2 / 1	2 / 2	2 / 1
57	Working pressure	For attachment			MPa	17.7	17.7	17.7

* Pallet size W: 1200mm L: 1200mm C: 200mm

