

TCM



ENGINE POWERED FORKLIFT TRUCKS

TCM PRO-HG
TCM PRO-HD

3,000 - 3,500 lbs.

Class 5 - Pneumatic Tire Type

SPECIFICATIONS

STANDARD SPECIFICATIONS

				TCM		
				FHG15T3	FHG16T3	
Characteristics	1	Manufacturer				
	2	Model				
	3	Load Capacity		3000 (1350)	3500 (1550)	
	4	Load Center		24 (600)		
	5	Power Type		Gasoline		
	6	Operator Position		Seated		
	7	Tire Type	Front / Rear		Pneumatic	
	8	Wheels (x = driven)	Front / Rear		2 X / 2	
Dimensions	9	Maximum Fork Height		118.1 (3000)		
	10	Free Lift		6.1 (155)		
	13	Fork Size	L X W X T	in (mm)		36.2 X 3.9 X 1.4
				(mm)		(920 X 100 X 35)
		Fork Spread (Outside)	Max. / Min.	in (mm)		36.2 (920) / 7.9 (200)
	14	Tilt Angle	Fwd. / Bwd.	deg		6 / 12
	15	Length to Fork Face		in (mm)		88.4 (2245)
	16	Overall Width		in (mm)		42.1 (1070)
	17	Mast Height Fork Lowered		in (mm)		78.5 (1995)
	18	Mast Height Fork Raised		in (mm)		167.3 (4250)
	19	Overhead Guard Height		in (mm)		81.5 (2070)
	20	Operator's Seat Height		in (mm)		41.1 (1045)
	21	Turning Radius (Outside)		in (mm)		78 (1980)
	22	Load Distance (Centerline of front axle to front face of forks)		in (mm)		15.6 (395)
		Rear Overhang		in (mm)		16.7 (425)
23	Basic Right Angle Stacking Aisle Width (Add load length and clearance)		in (mm)		144.7 (3675)	
Performance	24	Travel, Max. (Fwd. / Rvs.)	Full Load	mph (km / h)	11.8 (19.0)	
			No Load	mph (km / h)	12.1 (19.5)	
			Full Load	fpm (mm / s)	118.1 (600)	
			No Load	fpm (mm / s)	133.9 (680)	
			Full Load	fpm (mm / s)	88.6 (490)	
			No Load	fpm (mm / s)	108.3 (550)	
	29	Max. Drawbar Pull		Full Load	lbs (kN)	3530 (15.7)
				No Load	lbs (kN)	1540 (6.9)
	30	Max. Gradeability*	Full Load	%		33
			No Load	%		18
Weight	32	Total Weight		lbs (kg)	5530 (2510)	
	33	Weight Distribution	Full Load	Front	lbs (kg)	7450 (3380)
				Rear	lbs (kg)	1080 (490)
			No Load	Front	lbs (kg)	2360 (1070)
				Rear	lbs (kg)	3170 (1440)
	34					
	Chassis & Wheels	35	Number		Front / Rear	
		36	Tires	Front		2 / 2
Rear				6.50-10-10PR		
37		Size	Front		5.00-8-8PR	
			Rear		5.00-8-8PR	
38		Wheelbase		in (mm)		56.1 (1425)
39		Tread	Front	in (mm)		35.0 (890)
			Rear	in (mm)		36.2 (920)
		Backrest Height		in (mm)		48.0 (1220)
		Overhead Guard Clearance		in (mm)		39.6 (1005)
		Counterweight Height		in (mm)		43.7 (1110)
		Drawbar Pin Center Height		in (mm)		19.5 (495)
	Step Height / Floor Height		in (mm)		16.5 (420) / 25.6 (650)	
40	Underclearance	Min. with Load		in (mm)		4.1 (105)
41		Center of Wheelbase		in (mm)		4.7 (120)
42	Brake	Service (Foot)				Hydraulic internal expansion duo-servo front wheel braking
43		Parking				Mechanical internal expansion front wheel braking
Engine & Transmission	45	Battery		Voltage / Capacity (5HR)		V / AH
	49	Make / Model		NISSAN / K21		
	50	Internal Combustion Engine	Rated Horsepower / r.p.m.		HP / rpm	51.9 / 2700
					kW / rpm	38.7 / 2700
					PS / rpm	52.6 / 2700
					N·m / rpm	149 / 2000
					lb·ft / rpm	109.9 / 2000
	51	Rated Torque / r.p.m.			kgf·m / rpm	15.2 / 2000
			Number of Cylinder		4	
	52	Piston Displacement		cu·in (liter)		126.4 (2.065)
		Alternator output		kW / Amp		0.60 / 50
		Fuel Tank Capacity		US gal (liter)		13.2 (50)
55	Transmission		Type		Power-Shift	
	Stage	Fwd.-Rvs.		1 - 1		
57	Operating Pressure		For Attachments		MPa (kg / cm ²)	
					17.7 (180)	

NOTE : * Computed values.

TCM						Manufacturer		1
FHD15T3	FHD16T3					Model		2
3000 (1350)	3500 (1550)	lbs (kg)				Load Capacity		3
24 (600)		in (mm)				Load Center		4
Diesel						Power Type		5
Seated						Operator Position		6
Pneumatic				Front / Rear		Tire Type		7
2 X / 2				Front / Rear		Wheels (x = driven)		8
118.1 (3000)		in (mm)				Maximum Fork Height		9
6.1 (155)		in (mm)				Free Lift		10
36.2 X 3.9 X 1.4 (920 X 100 X 35)		in (mm)		L X W X T		Fork Size		13
36.2 (920) / 7.9 (200)		in (mm)		Max. / Min.		Fork Spread (Outside)		
6 / 12		deg		Fwd. / Bwd.		Tilt Angle		14
88.4 (2245)	89.6 (2275)	in (mm)				Length to Fork Face		15
42.1 (1070)	43.3 (1100)	in (mm)				Overall Width		16
78.5 (1995)		in (mm)				Mast Height Fork Lowered		17
167.3 (4250)		in (mm)				Mast Height Fork Raised		18
81.5 (2070)		in (mm)				Overhead Guard Height		19
41.1 (1045)		in (mm)				Operator's Seat Height		20
78 (1980)	79.1 (2010)	in (mm)				Turning Radius (Outside)		21
15.6 (395)		in (mm)				Load Distance (Centerline of front axle to front face of forks)		22
16.7 (425)	17.9 (455)	in (mm)				Rear Overhang		
144.7 (3675)	145.9 (3705)	in (mm)				Basic Right Angle Stacking Aisle Width (Add load length and clearance)		23
11.8 (19.0)		mph (km / h)		Full Load		Travel, Max. (Fwd. / Rvs.)		24
12.1 (19.5)		mph (km / h)		No Load				
122.1 (620)		fpm (mm / s)		Full Load		Lifting		25
129.9 (660)		fpm (mm / s)		No Load				
88.6 (450)		fpm (mm / s)		Full Load		Lowering		26
108.3 (550)		fpm (mm / s)		No Load				
4180 (18.6)		lbs (kN)		Full Load		Max. Drawbar Pull		28
1540 (6.9)		lbs (kN)		No Load				
33	31	%		Full Load		Max. Gradeability*		30
18	17	%		No Load				
5780 (2620)	6120 (2780)	lbs (kg)				Total Weight		32
7540 (3420)	8250 (3740)	lbs (kg)		Front		Full Load		33
1240 (550)	1370 (620)	lbs (kg)		Rear				
2450 (1110)	2330 (1060)	lbs (kg)		Front		No Load		34
3330 (1510)	3790 (1720)	lbs (kg)		Rear				
2 / 2				Front / Rear		Number		35
6.50-10-10PR				Front		Size		36
5.00-8-8PR				Rear				
56.1 (1425)		in (mm)				Wheelbase		38
35.0 (890)	36.2 (920)	in (mm)		Front		Tread		39
36.2 (920)		in (mm)		Rear				
48.0 (1220)		in (mm)				Backrest Height		
39.6 (1005)		in (mm)				Overhead Guard Clearance		
43.7 (1110)		in (mm)				Counterweight Height		
19.5 (495)		in (mm)				Drawbar Pin Center Height		
16.5 (420) / 25.6 (650)		in (mm)				Step Height / Floor Height		
4.1 (105)		in (mm)				Underclearance		40
4.7 (120)		in (mm)						
Hydraulic internal expansion duo-servo front wheel braking						Center of Wheelbase		41
Mechanical internal expansion front wheel braking						Service (Foot)		42
						Parking		43
12 / 64		V / AH		Voltage / Capacity (SHR)		Battery		45
NISSAN DIESEL / TD27-II				Make / Model				49
55 / 2300		HP / rpm		Rated Horsepower / r.p.m.		Internal Combustion Engine		50
41 / 2300		kW / rpm						
55.7 / 2300		PS / rpm						
170 / 2300		N·m / rpm		Rated Torque / r.p.m.				51
125 / 2300		lb·ft / rpm						
17.3 / 2300		kgf·m / rpm						
4				Number of Cylinder				52
162.5 (2663)		cu·in (liter)		Piston Displacement				
0.72 / 60		kW / Amp		Alternator output				
13.2 (50)		US gal (liter)		Fuel Tank Capacity				55
Power-Shift				Type		Transmission		
1 - 1				Fwd.-Rvs.		Stage		
17.7 (180)		MPa (kg / cm ²)		For Attachments		Operating Pressure		57

NOTE : * Computed values.

Wide View Mast VM

Mast Model	Rated Capacity								Max. Fork Height		Overall Mast Height			
	FHG/HD15				FHG/HD18						Lowered		(1)Raised with Backrest	
	L/C 24in(lbs)		L/C 600mm(kg)		L/C 24in(lbs)		L/C 600mm(kg)		in	mm	in	mm	in	mm
	PNEUMATIC	UNIQUE/SE	PNEUMATIC	UNIQUE/SE	PNEUMATIC	UNIQUE/SE	PNEUMATIC	UNIQUE/SE						
VM250	3000	3000	1350	1350	3500	3500	1550	1550	98.4	2500	68.7	1745	139	3530
VM270	3000	3000	1350	1350	3500	3500	1550	1550	106.3	2700	72.6	1845	146.9	3730
VM300	3000	3000	1350	1350	3500	3500	1550	1550	118.1	3000	78.5	1995	158.7	4030
VM330	3000	3000	1350	1350	3500	3500	1550	1550	129.9	3300	84.4	2145	170.5	4330
VM350	3000	3000	1350	1350	3500	3500	1550	1550	137.8	3500	88.4	2245	178.3	4530
VM375	3000	3000	1350	1350	3500	3500	1550	1550	147.6	3750	93.3	2370	188.2	4780
VM400	3000	3000	1350	1350	3300	3300	1450	1450	157.5	4000	100.2	2545	198	5030
VM425	2800	2800	1250	1250	3000	3000	1350	1350	167.3	4250	105.1	2670	207.9	5280
VM450	2800	2800	1250	1250	3000	3000	1350	1350	177.2	4500	110	2795	217.7	5530
VM475	2000	2600	900	1150	2000	2600	900	1150	187	4750	115	2920	227.6	5780
VM500	2000	2400	900	1050	2000	2400	900	1050	196.9	5000	119.9	3045	237.4	6030
VM550	2400	2400	1050	1050	2850	2850	1250	1250	216.5	5500	131.7	3345	257.1	6530
VM600	1750	1750	750	750	2200	2200	950	950	236.2	6000	141.5	3595	276.8	7030

NOTE (1) Weight for diesel model: +245lbs(+110kg)(TD27)

Wide View Full Free 2-Stage Mast VFM

Mast Model	Rated Capacity								Max. Fork Height		Overall Mast Height			
	FHG/HD15				FHG/HD18						Lowered		(1)Raised with Backrest	
	L/C 24in(lbs)		L/C 600mm(kg)		L/C 24in(lbs)		L/C 600mm(kg)		in	mm	in	mm	in	mm
	PNEUMATIC	UNIQUE/SE	PNEUMATIC	UNIQUE/SE	PNEUMATIC	UNIQUE/SE	PNEUMATIC	UNIQUE/SE						
VFM250	3000	3000	1350	1350	3500	3500	1550	1550	98.4	2500	68.7	1745	139	3530
VFM270	3000	3000	1350	1350	3500	3500	1550	1550	106.3	2700	72.6	1845	146.9	3730
VFM300	3000	3000	1350	1350	3500	3500	1550	1550	118.1	3000	78.5	1995	158.7	4030
VFM330	3000	3000	1350	1350	3500	3500	1550	1550	129.9	3300	84.4	2145	170.5	4330
VFM350	3000	3000	1350	1350	3500	3500	1550	1550	137.8	3500	88.4	2245	178.3	4530
VFM375	3000	3000	1350	1350	3500	3500	1550	1550	147.6	3750	93.3	2370	188.2	4780
VFM400	3000	3000	1350	1350	3300	3300	1450	1450	157.5	4000	100.2	2545	198	5030
VFM425	2800	2800	1250	1250	3000	3000	1350	1350	167.3	4250	105.1	2670	207.9	5280
VFM450	2800	2800	1250	1250	3000	3000	1350	1350	177.2	4500	110	2795	217.7	5530
VFM475	2000	2600	900	1150	2000	2600	900	1150	187	4750	115	2920	227.6	5780
VFM500	2000	2400	900	1050	2000	2400	900	1050	196.9	5000	119.9	3045	237.4	6030
VFM550	2400	2400	1050	1050	2850	2850	1250	1250	216.5	5500	131.7	3345	257.1	6530
VFM600	1750	1750	750	750	2200	2200	950	950	236.2	6000	141.5	3595	276.8	7030

NOTE (1) For height without backrest: -18.5in(-470mm)
 (2) For free lift without backrest: +18.5in(+470mm)
 Weight for without backrest: -45lbs(-20kg)
 (3) Weight for diesel model: +245lbs(+110kg)(TD27)

Wide View Full Free 3-Stage Mast VFHM

Mast Model	Rated Capacity								Max. Fork Height		Overall Mast Height			
	FHG/HD15				FHG/HD18						Lowered		(1)Raised with Backrest	
	L/C 24in(lbs)		L/C 600mm(kg)		L/C 24in(lbs)		L/C 600mm(kg)		in	mm	in	mm	in	mm
	PNEUMATIC	UNIQUE/SE	PNEUMATIC	UNIQUE/SE	PNEUMATIC	UNIQUE/SE	PNEUMATIC	UNIQUE/SE						
VFHM360	3000	3000	1350	1350	3500	3500	1550	1550	141.7	3600	68.7	1745	182.3	4630
VFHM400	3000	3000	1350	1350	3500	3500	1550	1550	157.5	4000	73.6	1870	198	5030
VFHM435	2800	2800	1250	1250	3300	3400	1450	1500	171.3	4350	78.5	1995	211.8	5380
VFHM480	2700	2700	1200	1200	2900	3000	1300	1350	189	4800	84.4	2145	229.5	5830
VFHM500	2300	2600	1000	1150	2400	2800	1050	1250	196.9	5000	88.4	2245	237.4	6030
VFHM540	1800	2300	800	1000	1900	2300	850	1000	212.6	5400	93.3	2370	253.1	6430
VFHM600	1200	1600	500	700	1200	1600	500	700	236.2	6000	102.2	2595	276.8	7030
VFHM650	2000	2000	900	900	2400	2400	1050	1050	255.9	6500	110.6	2810	295.5	7530
VFHM700	1600	1600	700	700	1600	1600	700	700	275.6	7000	119.3	3030	316.1	8030

NOTE (1) For height without backrest: -18.5in(-470mm)
 (2) For free lift without backrest: +18.5in(+470mm)
 Weight for without backrest: -45lbs(-20kg)
 (3) Weight for diesel model: +245lbs(+110kg)(TD27)

NOTE :
 Rated capacity with (*): Shows capacity with front dual tires.
 Service weight of VM/VFM550-600 and of VFHM650-700 represents the weight of vehicles equipped with "special dual tires".
 Lifting speed with VFM/VFHM mast: with VFM FHG 94.5ipm(480mm/s) with load, 110.3ipm(580mm/s) without load.
 with VFHM FHD 100.4ipm(510mm/s) with load, 106.3ipm(540mm/s) without load.
 VFHM FHS 106.3ipm(540mm/s) with load, 122.1ipm(620mm/s) without load.
 FHD 110.3ipm(560mm/s) with load, 116.1ipm(600mm/s) without load.
 Lowering speed with VFM/VFHM mast: 82.7ipm(420mm/s) with load, 72.9ipm(370mm/s) without load.
 Overall vehicle length with VFM mast: +0.4in(+10mm) longer than of standard model with VM mast.
 with VFHM mast:+1in(+25mm) longer than of standard model with VM mast.

Tilting Angle F/B	(3) Service weight								Mast Model	
	FHG15				FHG18					
	S		SDD		S		SDD			
deg	lbs	kg	lbs	kg	lbs	kg	lbs	kg		
8-10	5460	2475	5700	2585	5810	2635	6020	2730		VM250
6-10	5490	2490	5730	2600	5840	2650	6050	2745		VM270
6-12	5530	2510	5780	2620	5890	2670	6100	2765		VM300
6-12	5570	2525	5810	2635	5920	2685	6130	2780		VM330
6-12	5600	2540	5840	2650	5950	2700	6160	2795		VM350
6-6										
*6-12	5630	2555	5880	2665	5990	2715	6190	2810		VM375
6-6										
*6-12	5720	2595	5960	2705	6070	2755	6280	2850		VM400
6-6										
*6-12	5770	2615	6010	2725	6120	2775	6330	2870		VM425
6-6										
*6-12	5790	2625	6030	2735	6140	2785	6350	2880		VM450
6-6										
*6-6	5820	2640	6060	2750	6170	2800	6380	2895		VM475
6-6										
*6-6	5860	2660	6110	2770	6220	2820	6430	2915		VM500
*3-6	5990	2715	6230	2825	6340	2875	6550	2970		VM550
*3-6	6050	2745	6290	2855	6400	2905	6610	3000		VM600

Free lift with Backrest		Tilting Angle F/B	(3) Service weight								Mast Model
			FHG15				FHG18				
			S		SDD		S		SDD		
in	mm	deg	lbs	kg	lbs	kg	lbs	kg	lbs	kg	
29.1	740	6-10	5530	2510	5780	2620	5890	2670	6100	2765	VFM250
33.1	840	6-10	5570	2525	5810	2635	5920	2685	6130	2780	VFM270
39	990	6-12	5610	2545	5850	2655	5960	2705	6170	2800	VFM300
44.9	1140	6-12	5650	2565	5900	2675	6010	2725	6220	2820	VFM330
48.8	1240	6-12	5680	2575	5920	2685	6030	2735	6240	2830	VFM350
		6-6									
53.7	1365	*6-12	5710	2590	5950	2700	6060	2750	6270	2845	VFM375
		6-6									
60.6	1540	*6-12	5820	2640	6060	2750	6170	2800	6380	2895	VFM400
		6-6									
65.6	1665	*6-12	5860	2660	6110	2770	6220	2820	6430	2915	VFM425
		6-6									
70.5	1790	*6-12	5900	2675	6140	2785	6250	2835	6460	2930	VFM450
		6-6									
75.4	1915	*6-6	5930	2690	6170	2800	6280	2850	6490	2945	VFM475
		6-6									
80.3	2040	*6-6	5960	2705	6210	2815	6320	2865	6530	2960	VFM500
		6-6									
92.1	2340	*3-6	6100	2765	6340	2875	6450	2925	6660	3020	VFM550
102	2590	*3-6	6170	2800	6420	2910	6530	2960	6740	3055	VFM600

Free lift with Backrest		Tilting Angle F/B	(3) Service weight								Mast Model
			FHG15				FHG18				
			S		SDD		S		SDD		
in	mm	deg	lbs	kg	lbs	kg	lbs	kg	lbs	kg	
29.1	740	6-6	5810	2635	6050	2745	6160	2795	6370	2890	VFHM360
34.1	865	6-6	5860	2660	6110	2770	6220	2820	6430	2915	VFHM400
39	990	6-6	5920	2685	6160	2795	6270	2845	6480	2940	VFHM435
		*6-6									
44.9	1140	6-6	5970	2710	6220	2820	6330	2870	6540	2965	VFHM460
		*6-6									
48.8	1240	6-6	6020	2730	6260	2840	6370	2890	6580	2985	VFHM500
		*6-6									
53.7	1365	3-6									
		*3-6	6060	2750	6310	2860	6420	2910	6620	3005	VFHM540
		6-6									
62.6	1590	3-6									
		*3-6	6210	2815	6450	2925	6560	2975	6770	3070	VFHM600
		6-6									
71.1	1805	*3-3	6310	2860	6550	2970	6660	3020	6870	3115	VFHM650
79.7	2025	*3-3	6390	2900	6640	3010	6750	3060	6960	3155	VFHM700

Wide View Mast VM

Mast Model	Rated Capacity								Max. Fork Height		Overall Mast Height			
	FHG/HD15				FHG/HD18						Lowered		(1)Raised with Backrest	
	L/C 24in(lbs)		L/C 600mm(kg)		L/C 24in(lbs)		L/C 600mm(kg)		in	mm	in	mm	in	mm
	PNEUMATIC	UNIQUE/SE	PNEUMATIC	UNIQUE/SE	PNEUMATIC	UNIQUE/SE	PNEUMATIC	UNIQUE/SE						
VM250	3000	3000	1350	1350	3500	3500	1550	1550	98.4	2500	68.7	1745	139	3530
VM270	3000	3000	1350	1350	3500	3500	1550	1550	106.3	2700	72.6	1845	146.9	3730
VM300	3000	3000	1350	1350	3500	3500	1550	1550	118.1	3000	78.5	1995	158.7	4030
VM330	3000	3000	1350	1350	3500	3500	1550	1550	129.9	3300	84.4	2145	170.5	4330
VM350	3000	3000	1350	1350	3500	3500	1550	1550	137.8	3500	88.4	2245	178.3	4530
VM375	3000	3000	1350	1350	3500	3500	1550	1550	147.6	3750	93.3	2370	188.2	4780
VM400	3000	3000	1350	1350	3300	3300	1450	1450	157.5	4000	100.2	2545	198	5030
					3500	3500	1550	1550						
VM425	2800	2800	1250	1250	3000	3000	1350	1350	167.3	4250	105.1	2670	207.9	5280
	3000	3000	1350	1350	3500	3500	1550	1550						
VM450	2800	2800	1250	1250	3000	3000	1350	1350	177.2	4500	110	2795	217.7	5530
					3300	3300	1450	1450						
VM475	2000	2600	900	1150	2000	2600	900	1150	187	4750	115	2920	227.6	5780
	2700	2700	1200	1200	3100	3100	1400	1400						
VM500	2000	2400	900	1050	2000	2400	900	1050	196.9	5000	119.9	3045	237.4	6030
	2700	2700	1200	1200	3100	3100	1400	1400						
VM550	2400	2400	1050	1050	2850	2850	1250	1250	216.5	5500	131.7	3345	257.1	6530
VM600	1750	1750	750	750	2200	2200	950	950	236.2	6000	141.5	3595	276.8	7030

NOTE : (1) Weight for diesel model: +245lbs(+110kg)(TD27)

Wide View Full Free 2-Stage Mast VFM

Mast Model	Rated Capacity								Max. Fork Height		Overall Mast Height			
	FHG/HD15				FHG/HD18						Lowered		(1)Raised with Backrest	
	L/C 24in(lbs)		L/C 600mm(kg)		L/C 24in(lbs)		L/C 600mm(kg)		in	mm	in	mm	in	mm
	PNEUMATIC	UNIQUE/SE	PNEUMATIC	UNIQUE/SE	PNEUMATIC	UNIQUE/SE	PNEUMATIC	UNIQUE/SE						
VFM250	3000	3000	1350	1350	3500	3500	1550	1550	98.4	2500	68.7	1745	139	3530
VFM270	3000	3000	1350	1350	3500	3500	1550	1550	106.3	2700	72.6	1845	146.9	3730
VFM300	3000	3000	1350	1350	3500	3500	1550	1550	118.1	3000	78.5	1995	158.7	4030
VFM330	3000	3000	1350	1350	3500	3500	1550	1550	129.9	3300	84.4	2145	170.5	4330
VFM350	3000	3000	1350	1350	3500	3500	1550	1550	137.8	3500	88.4	2245	178.3	4530
VFM375	3000	3000	1350	1350	3500	3500	1550	1550	147.6	3750	93.3	2370	188.2	4780
VFM400	3000	3000	1350	1350	3300	3300	1450	1450	157.5	4000	100.2	2545	198	5030
					3500	3500	1550	1550						
VFM425	2800	2800	1250	1250	3000	3000	1350	1350	167.3	4250	105.1	2670	207.9	5280
	3000	3000	1350	1350	3500	3500	1550	1550						
VFM450	2800	2800	1250	1250	3000	3000	1350	1350	177.2	4500	110	2795	217.7	5530
					3300	3300	1450	1450						
VFM475	2000	2600	900	1150	2000	2600	900	1150	187	4750	115	2920	227.6	5780
	2700	2700	1200	1200	3100	3100	1400	1400						
VFM500	2000	2400	900	1050	2000	2400	900	1050	196.9	5000	119.9	3045	237.4	6030
	2700	2700	1200	1200	3100	3100	1400	1400						
VFM550	2400	2400	1050	1050	2850	2850	1250	1250	216.5	5500	131.7	3345	257.1	6530
VFM600	1750	1750	750	750	2200	2200	950	950	236.2	6000	141.5	3595	276.8	7030

NOTE : (1) For height without backrest: -18.5in(-470mm)
 (2) For free lift without backrest: +18.5in(+470mm)
 Weight for without backrest: 45lbs(+20kg)
 (3) Weight for diesel model: +245lbs(+110kg)(TD27)

Wide View Full Free 3-Stage Mast VFHM

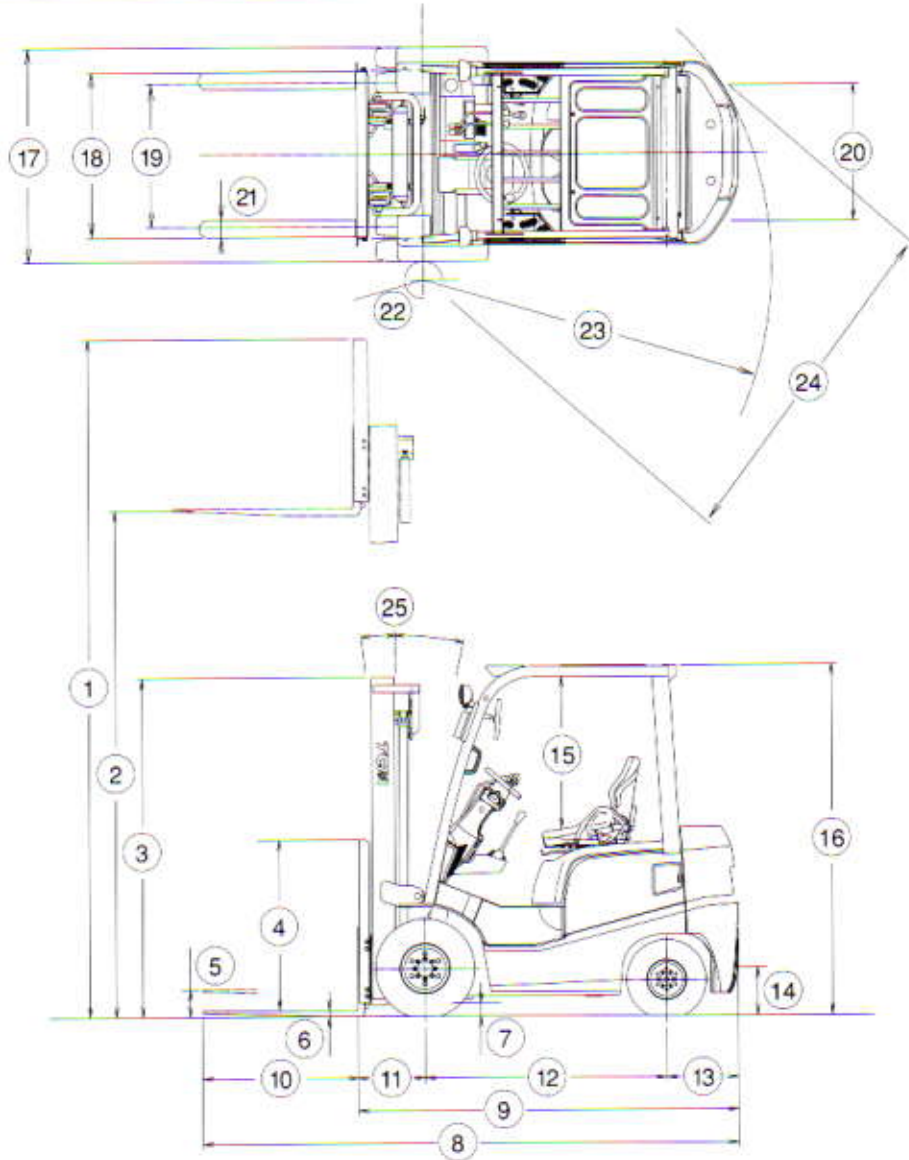
Mast Model	Rated Capacity								Max. Fork Height		Overall Mast Height			
	FHG/HD15				FHG/HD18						Lowered		(1)Raised with Backrest	
	L/C 24in(lbs)		L/C 600mm(kg)		L/C 24in(lbs)		L/C 600mm(kg)		in	mm	in	mm	in	mm
	PNEUMATIC	UNIQUE/SE	PNEUMATIC	UNIQUE/SE	PNEUMATIC	UNIQUE/SE	PNEUMATIC	UNIQUE/SE						
VFHM360	3000	3000	1350	1350	3500	3500	1550	1550	141.7	3600	68.7	1745	182.3	4630
VFHM400	3000	3000	1350	1350	3500	3500	1550	1550	157.5	4000	73.6	1870	198	5030
VFHM435	2800	2800	1250	1250	3300	3400	1450	1500	177.3	4350	78.5	1995	211.8	5380
	3000	3000	1350	1350	3500	3500	1550	1550						
VFHM480	2700	2700	1200	1200	2900	3000	1300	1350	189	4800	84.4	2145	229.5	5830
	2900	2900	1300	1300	3200	3200	1450	1450						
VFHM500	2300	2600	1000	1150	2400	2800	1050	1250	196.9	5000	88.4	2245	237.4	6030
	2800	2800	1250	1250	3100	3100	1400	1400						
VFHM540	1800	2300	800	1000	1900	2300	850	1000	212.6	5400	93.3	2370	253.1	6430
	2650	2650	1200	1200	3000	3000	1350	1350						
VFHM600	1200	1600	500	700	1200	1600	500	700	236.2	6000	102.2	2595	276.8	7030
	2300	2300	1000	1000	2700	2700	1200	1200						
VFHM650	2000	2000	900	900	2400	2400	1050	1050	255.9	6500	110.6	2810	296.5	7530
VFHM700	1600	1600	700	700	2100	2100	900	900	275.6	7000	119.3	3030	316.1	8030

NOTE : (1) For height without backrest: -18.5in(-470mm)
 (2) For free lift without backrest: +18.5in(+470mm)
 Weight for without backrest: 45lbs(+20kg)
 (3) Weight for diesel model: +245lbs(+110kg)(TD27)

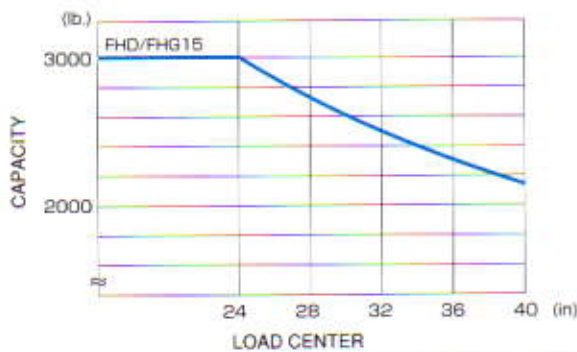
NOTE :
 Rated capacity with (*) : Shows capacity with front dual tires.
 Service weight of VM/VFM550-600 and of VFHM650-700 represents the weight of vehicles equipped with "special dual tires".
 Lifting speed with VFM/VFHM mast: with VFM FHG 94.3ipm(480mm/s) with load, 110.3ipm(560mm/s) without load.
 with VFHM FHD 100.4ipm(510mm/s) with load, 106.3ipm(540mm/s) without load.
 FHD 106.3ipm(540mm/s) with load, 132.1ipm(620mm/s) without load.
 FHD 110.3ipm(560mm/s) with load, 118.1ipm(600mm/s) without load.
 Lowering speed with VFM/VFHM mast: 82.7ipm(420mm/s) with load, 72.8ipm(370mm/s) without load.
 Overall vehicle length with VFM mast: +0.4in(+10mm) longer than of standard model with VM mast.
 with VFHM mast: +1in(+25mm) longer than of standard model with VM mast.

GROUND CLEARANCE

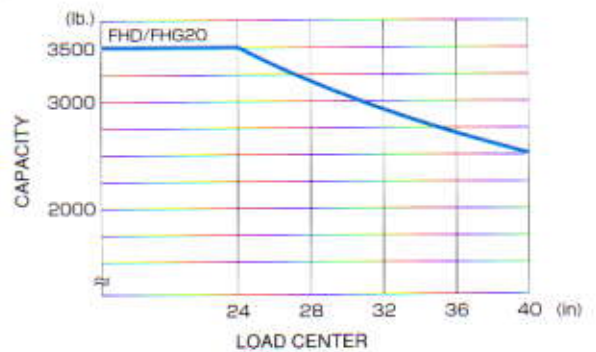
GROUND CLEARANCE	FHD / FHG15	FHD / FHG18
	in (mm)	in (mm)
Mast	4.3 (110)	4.3 (110)
Frame	4.1 (105)	4.1 (105)
Front axle	4.9 (125)	4.9 (125)
Rear axle	4.9 (125)	4.9 (125)
Counter weight	5.3 (135)	5.3 (135)



LOAD CHART 3,000 lb.



LOAD CHART 3,500 lb.



STANDARD DIMENSIONS
STANDARD DIMENSIONS

Model	FHD / FHG15	FHD / FHG18
	in (mm)	
① Overall height, fork raised (with backrest)	167.3 (4250)	
② Maximum fork height	118.1 (3000)	
③ Mast height, fork lowered	78.5 (1995)	
④ Backrest height (from upper face of forks)	48.0 (1220)	
⑤ Free lift	6.1 (155)	
⑥ Fork thickness	1.4 (35)	
⑦ Minimum ground clearance	4.1 (105)	
⑧ Overall length (with forks)	124.6 (3165)	125.8 (3195)
⑨ Length to fork face	88.4 (2245)	89.6 (2275)
⑩ Fork length	36.2 (920)	
⑪ Load distance	15.6 (395)	
⑫ Wheelbase	56.1 (1425)	
⑬ Rear overhang	16.7 (425)	17.9 (455)
⑭ Drawbar Pin Center Height	19.5 (495)	
⑮ Overhead guard clearance (from face of seat)**	39.6 (1005)	
⑯ Overall height (overhead guard)**	81.5 (2070)	
⑰ Overall width	42.1 (1070)	43.3 (1100)
⑱ Fork spread (outside)	7.9 (200)-36.2 (920)	
⑲ Tread (front)	35 (890)	36.2 (920)
⑳ Tread (rear)	36.2 (920)	
㉑ Fork width	3.9 (100)	
㉒ Inside turning radius	4.3 (110)	3.7 (95)
㉓ Outside turning radius	78 (1980)	79.1 (2010)
㉔ Minimum intersecting aisle	70.1 (1780)	70.9 (1800)
㉕ Tilt angle (forward-backward)	6° - 12°	

NOTE : **European (EXE) and Scandinavian export trucks (EXN): +60mm

DIMENSIONS WITH FRONT DUAL DRIVE WHEELS (option)

Model	FHD / FHG15	FHD / FHG18
	4 X 6.50 -10-10PR JL	
Tire size (front dual Type: SDD)	in (mm)	
⑰ Overall width	59.6 (1512)	
⑱ Tread (front)	43.7 (1110)	
㉒ Inside turning radius	3.5 (90)	
㉓ Outside turning radius	82.5 (2095)	83.5 (2120)
㉔ Minimum intersecting aisle	76.4 (1940)	77.2 (1960)

STANDARD EQUIPMENT AND ACCESSORIES**[Equipment]**

- Asbestos-free brake shoe material
- Donaldson dry type cyclopac air-cleaner
- Radiator coolant reservoir
- Cylinder type bonnet latch with locking function
- Operator restrain seat with seat belt
- Drawbar device
- Engine auto glow system (Diesel)
- Fuel water sedimenter (Diesel)
- Full hydrostatic power steering
- Durable overhead guard
- High -visibility, wide-view mast (VM)
- Hydraulic oil dipstick
- ITA Class II carriage
- J-lug pneumatic industrial tires
- Lift circuit cut-off valve
- Load backrest
- Flow control valve
- Return hydraulic filter
- Suction hydraulic strainer
- Tilt lock valve
- Transmission oil dipstick
- Transmission oil filter
- 36in (920mm) forks
- 3-spool control valve with pressure relief
- 3-way catalytic muffler (Gasoline)
- Travel interlock system
- Key lock anti-restart ignition switch

[Controls]

- Electric shift control lever
- Lift and tilt levers
- Multi-function switch lever with self-canceling mechanism (Lighting & turn-signal)
- Parking brake lever with inter-lock
- Tilt adjustable steering post
- Neutral safety mechanism

[Accessories]

- Back-up buzzer
- Back-up lights
- Deluxe floor mat
- Pen/ Cup holder
- Electric horn
- Access-assisted hand grip
- Front combination lights (turn signal, clearance)
- Detachable and portable glove box
- Head lights - traffic purpose
- High-mounted rear combination lights
- Side view mirrors

[Instruments and Switch]

- Charge indicator
- Engine check indicator
- Engine oil pressure warning indicator
- Fuel gauge (Gasoline & Diesel only)
- Glow indicator (Diesel)
- Hourmeter
- Ignition key engine stop (Diesel)
- Neutral safety switch
- Fuel water sedimenter indicator (Diesel)
- Water temperature gauge

OPTIONAL LOADING ATTACHMENT

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

OPTIONAL EQUIPMENT AND ACCESSORIES**[Equipment]**

- Auxiliary hydraulic valve modules
- Central greasing system (CL)
- Color tire (white)
- Drive soft-mode torque control (DSC), (Gasoline & LPG models)
- Front dual drive wheels
- LPG exclusive / Dual fuel (LPG - Gasoline) package
- Unique cushion tires (SE)
- Windshield wiper
- Muffler with a diffusion tail pipe (Gasoline & LPG)
- Plate fin type radiator (RAD PF)
- Full open cabine (AW 061)
- Radiator dust screen (fine, medium)
- Overhead guard / High profile 83.9in (2130mm)
- Fishery industry package (FC)
- Lift lock mechanism (VLL)
- Interlock system (load / unload)
- Travel speed limiter switch (TSL10), (Gasoline & LPG models)

[Accessories]

- Custom paint-work
- Overhead guard canvas
- Fire extinguisher (FE)
- Rear working light (RWL)
- Strobe light
- Tilt cylinder boots (TLB)

[Instruments and Switch]

- Ammeter (AM)
- Speedometer (SM)
- Torque converter oil pressure gauge (TPM)
- Torque converter oil temperature gauge

Others on request

NOTE :

- Meets following major standards and code:
 - ISO 1074 Counter Balanced Lift Trucks, Stability & Safety Test (Int'l)
 - JIS D6001 Industrial Lift Trucks (Japan)
 - ANSI B56.1 Low & High Lift Trucks (U.S.A.)
- Overhead guard meets ISO 6055, JIS 6021
- Insurance classifications
 - Underwriter's Laboratories requirements as to fire hazard only for G, LP, LPS, GLP, D

ENGINE POWERED FORKLIFT TRUCKS
TCM PRO
3,000 - 3,500 lbs.
Class 5 - Pneumatic Tire Type

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