

ENGINE POWERED FORKLIFT TRUCKS

TCM PRO-CG

3,000 - 6,000 lbs.

Class 4 - Cushion Tire Type



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SPECIFICATIONS

STANDARD SPECIFICATIONS

Characteristics	1 Manufacturer				TCM				
	2 Model				FCG15-4	FCG20-4			
	3 Load Capacity			lbs (kg)	3000 (1350)	4000 (1800)			
	4 Load Center			in (mm)	24 (600)	24 (600)			
	5 Power Type				Gasoline	Gasoline			
	6 Operator Position				Seated	Seated			
	7 Tire Type		Front / Rear		Cushion tires	Cushion tires			
	8 Wheels (x = driven)		Front / Rear		2X / 2	2X / 2			
Dimensions	9 Maximum Fork Height			in (mm)	130.0 (3300)	130.0 (3300)			
	10 Free Lift			in (mm)	4.1 (105)	4.3 (110)			
	13 Fork Size		L X W X T	in	42.1 X 3.9 X 1.4	42.1 X 4.8 X 1.6			
				(mm)	(1070 X 100 X 35)	(1070 X 122 X 40)			
	Fork Spread (Outside)		Max. / Min.	in (mm)	31.5 (800) / 7.9 (200)	37.4 (950) / 9.6 (245)			
	14 Tilt Angle		Fwd. / Bwd.	deg	5 / 8	5 / 8			
	15 Length to Fork Face			in (mm)	83.9 (2130)	93.3 (2370)			
	16 Overall Width			in (mm)	38.0 (965)	41.9 (1065)			
	17 Mast Height Fork Lowered			in (mm)	83.1 (2110)	83.1 (2110)			
	18 Mast Height Fork Raised			in (mm)	179.1 (4550)	179.1 (4550)			
	19 Overhead Guard Height			in (mm)	80.7 (2050)	80.7 (2050)			
	20 Operator's Seat Height			in (mm)	40.7 (1035)	40.7 (1035)			
	21 Turning Radius (Outside)			in (mm)	72.4 (1840)	78.7 (2000)			
	22 Load Distance (Centerline of front axle to front face of forks)			in (mm)	15.4 (390)	17.1 (435)			
				in (mm)	20.5 (520)	17.5 (445)			
23 Basic Right Angle Stacking Aisle Width			in (mm)	137.8 (3500)	145.8 (3705)				
Performance	24		Travel, Max. (Fwd. / Rvs.)	Full Load	mph (km / h)	10.0 (16.0)	9.3 (15.0)		
				No Load	mph (km / h)	10.3 (16.5)	9.7 (15.5)		
			Lifting	Full Load	fpm (mm / s)	126.0 (640)	118.1 (600)		
				No Load	fpm (mm / s)	128.0 (650)	120.1 (610)		
			Lowering	Full Load	fpm (mm / s)	88.6 (450)	88.6 (450)		
				No Load	fpm (mm / s)	120.1 (610)	108.3 (550)		
	28 Max. Drawbar Pull			Full Load	lbs (kN)	3970 (17.7)	4180 (18.6)		
				No Load	lbs (kN)	1540 (6.9)	1980 (8.8)		
30 Max. Gradeability*			Full Load	%	32	25			
			No Load	%	14	18			
Weight	32 Total Weight			lbs (kg)	5950 (2700)	7300 (3310)			
	33 Weight Distribution		Full Load	Front	lbs (kg)	7720 (3500)	10070 (4560)		
				Rear	lbs (kg)	1230 (560)	1230 (560)		
No Load			Front	lbs (kg)	2260 (1025)	3130 (1420)			
			Rear	lbs (kg)	3690 (1675)	4170 (1890)			
Chassis & Wheels	35		Number	Front / Rear		2 / 2	2 / 2		
	36 Tires		Size	Front		21 X 6 X 15	21 X 7 X 15		
				Rear		14 X 4.5 X 8	16 X 6 X 10.5		
	38 Wheelbase			in (mm)	48.0 (1220)	56.1 (1425)			
	39 Tread		Front	in (mm)	31.5 (800)	34.5 (875)			
			Rear	in (mm)	31.5 (800)	33.7 (855)			
	Backrest Height			in (mm)	48.0 (1220)	48.0 (1220)			
	Overhead Guard Clearance			in (mm)	39.4 (1000)	39.4 (1000)			
	Counterweight Height			in (mm)	44.1 (1120)	44.1 (1120)			
	Drawbar Pin Center Height			in (mm)	17.7 (450)	17.7 (450)			
Step Height / Floor Height			in (mm)	15.7 (400) / 24.2 (615)	15.7 (400) / 24.2 (615)				
40 Underclearance		Min. with Load	in (mm)	3.0 (75)	3.0 (75)				
		Center of Wheelbase	in (mm)	4.3 (110)	4.3 (110)				
42 Brake		Service (Foot)			Hydraulic internal expansion duo-servo front wheel braking	Hydraulic internal expansion duo-servo front wheel braking			
		Parking			Mechanical internal expansion front wheel braking	Mechanical internal expansion front wheel braking			
Engine & Transmission	45 Battery		Voltage / Capacity (5HR)		V / AH	12 / 30	12 / 30		
	49 Internal Combustion Engine		Make / Model			NISSAN / K21	NISSAN / K21		
			Rated Output / r.p.m.		HP / rpm	51.9 / 2700	51.9 / 2700		
					kW / rpm	38.7 / 2700	38.7 / 2700		
					PS / rpm	52.6 / 2700	52.6 / 2700		
					lb•ft / rpm	109.9 / 2000	109.9 / 2000		
			Maximum Torque / r.p.m.		N•m / rpm	149 / 2000	149 / 2000		
					kgf•m / rpm	15.2 / 2000	15.2 / 2000		
					Number of Cylinder			4	4
			52		Piston Displacement		cu•in (liter)	126.4 (2.065)	126.4 (2.065)
					Alternator output		kW / Amp	0.60 / 50	0.60 / 50
	Fuel Tank Capacity Type				US gal (liter)	6.0 (23)	6.0 (23)		
	55 Transmission		Type			Power-Shift	Power-Shift		
			Stage	Fwd.-Rvs.		1 - 1	1 - 1		
	57 Operating Pressure		For Attachments		MPa (kg / cm ³)	17.7 (180)	17.7 (180)		

NOTE : * Computed values.

TCM				
FCG25-4	FCG20-4H	FCG25-4H	FCG30-4H	
5000 (2250)	4000 (1800)	5000 (2250)	6000 (2700)	
24 (600)	24 (600)	24 (600)	24 (600)	
Gasoline	Gasoline	Gasoline	Gasoline	
Seated	Seated	Seated	Seated	
Cushion tires	Cushion tires	Cushion tires	Cushion tires	
2 × / 2	2 × / 2	2 × / 2	2 × / 2	
130.0 (3300)	130.0 (3300)	130.0 (3300)	126.0 (3200)	
4.3 (110)	4.3 (110)	4.3 (110)	4.5 (115)	
42.1 × 4.8 × 1.6	42.1 × 4.8 × 1.6	42.1 × 4.8 × 1.6	42.1X4.9X1.8	
(1070 × 122 × 40)	(1070 × 122 × 40)	(1070 × 122 × 40)	(1070X125X45)	
37.4 (950) / 9.6 (245)	37.4 (950) / 9.6 (245)	37.4 (950) / 9.6 (245)	40.6 (1030) / 9.8 (250)	
5 / 8	5 / 8	5 / 8	5 / 8	
93.3 (2370)	93.3 (2370)	93.3 (2370)	96.9 (2460)	
41.9 (1065)	41.9 (1065)	41.9 (1065)	43.5 (1105)	
83.1 (2110)	83.1 (2110)	83.1 (2110)	83.1 (2110)	
179.1 (4550)	179.1 (4550)	179.1 (4550)	175.6 (4460)	
80.7 (2050)	80.7 (2050)	80.7 (2050)	80.7 (2050)	
40.7 (1035)	40.7 (1035)	40.7 (1035)	40.7 (1035)	
81.1 (2060)	78.7 (2000)	81.1 (2060)	84.3 (2140)	
17.1 (435)	17.1 (435)	17.1 (435)	17.7 (450)	
20.1 (510)	17.5 (445)	20.1 (510)	23.0 (585)	
148.2 (3765)	145.8 (3705)	148.2 (3765)	152.0 (3860)	
9.3 (15.0)	10.0 (16.0)	10.0 (16.0)	10.0 (16.0)	
9.7 (15.5)	10.3 (16.5)	10.3 (16.5)	10.3 (16.5)	
118.1 (600)	120.1 (610)	120.1 (610)	100.4 (510)	
120.1 (610)	122.1 (620)	122.1 (620)	102.4 (520)	
88.6 (450)	88.6 (450)	88.6 (450)	88.6 (450)	
108.3 (550)	108.3 (550)	108.3 (550)	88.6 (450)	
4180 (18.6)	4630 (20.6)	4630 (20.6)	4630 (20.6)	
1980 (8.8)	1980 (8.8)	1980 (8.8)	1980 (8.8)	
21	31	27	24	
15	18	15	12	
8180 (3710)	7300 (3310)	8180 (3710)	9300(4220)	
11570 (5240)	10070 (4560)	11570 (5240)	13330(6045)	
1610 (730)	1230 (560)	1610 (730)	1970(895)	
2900 (1315)	3130 (1420)	2900 (1315)	2850(1295)	
5280 (2395)	4170 (1890)	5280 (2395)	6450(2925)	
2 / 2	2 / 2	2 / 2	2 / 2	
21 × 7 × 15	21 × 7 × 15	21 × 7 × 15	21 × 8 × 15	
16 × 6 × 10.5	16 × 6 × 10.5	16 × 6 × 10.5	16 × 6 × 10.5	
56.1 (1425)	56.1 (1425)	56.1 (1425)	56.1 (1425)	
34.5 (875)	34.5 (875)	34.5 (875)	35.4 (900)	
33.7 (855)	33.7 (855)	33.7 (855)	33.7 (855)	
48.0 (1220)	48.0 (1220)	48.0 (1220)	48.2 (1225)	
39.4 (1000)	39.4 (1000)	39.4 (1000)	39.4 (1000)	
44.1 (1120)	44.1 (1120)	44.1 (1120)	44.1 (1120)	
17.7 (450)	17.7 (450)	17.7 (450)	17.7 (450)	
15.7 (400) / 24.2 (615)	15.7 (400) / 24.2 (615)	15.7 (400) / 24.2 (615)	15.7 (400) / 24.2 (615)	
3.0 (75)	3.0 (75)	3.0 (75)	3.0 (75)	
4.3 (110)	4.3 (110)	4.3 (110)	4.3 (110)	
Hydraulic internal expansion duo-servo front wheel braking	Hydraulic internal expansion duo-servo front wheel braking	Hydraulic internal expansion duo-servo front wheel braking	Hydraulic internal expansion duo-servo front wheel braking	
Mechanical internal expansion front wheel braking	Mechanical internal expansion front wheel braking	Mechanical internal expansion front wheel braking	Mechanical internal expansion front wheel braking	
12 / 30	12 / 30	12 / 30	12 / 30	
NISSAN / K21	NISSAN / K25	NISSAN / K25	NISSAN / K25	
51.9 / 2700	61.7 / 2800	61.7 / 2800	61.7 / 2800	
38.7 / 2700	46.0 / 2800	46.0 / 2800	46.0 / 2800	
52.6 / 2700	62.5 / 2800	62.5 / 2800	62.5 / 2800	
109.9 / 2000	129.1 / 1600	129.1 / 1600	129.1 / 1600	
149 / 2000	175 / 1600	175 / 1600	175 / 1600	
15.2 / 2000	17.8 / 1600	17.8 / 1600	17.8 / 1600	
4	4	4	4	
126.4 (2.065)	151.8 (2.488)	151.8 (2.488)	151.8 (2.488)	
0.60 / 50	0.60 / 50	0.60 / 50	0.60 / 50	
10.0 (38)	10.0 (38)	10.0 (38)	10.0 (38)	
Power-Shift	Power-Shift	Power-Shift	Power-Shift	
1 - 1	1 - 1	1 - 1	1 - 1	
17.7 (180)	17.7 (180)	17.7 (180)	17.7 (180)	

Wide View Mast

Wide View Mast VM

Mast Model	Rated Capacity		Max. Fork Height		Overall Mast Height				Tilting Angle F/B	Service weight	
	FCG15-4 load center				Lowered		(1)Raised with Backrest			FCG15-4	
	24in(lbs)	600mm(kg)							in		
	VM270	3000	1350	106.3	2700	71.3	1810	155.5	3950	5-8	5880
VM300	3000	1350	118.1	3000	77.2	1960	167.3	4250	5-8	5930	2690
VM330	3000	1350	129.9	3300	83.1	2110	179.1	4550	5-8	5970	2710
VM350	3000	1350	137.8	3500	87	2210	187	4750	5-8	6000	2720
VM375	3000	1350	147.6	3750	91.9	2335	196.9	5000	3-6	6030	2735
VM400	3000	1350	157.5	4000	98.8	2510	206.7	5250	3-6	6140	2785
VM425	2800	1250	167.3	4250	103.7	2635	216.5	5500	3-6	6170	2800
VM450	2800	1250	177.2	4500	108.7	2760	226.4	5750	3-6	6190	2810
VM475	2600	1150	187	4750	113.6	2885	236.2	6000	3-6	6230	2825
VM500	2600	1150	196.9	5000	118.5	3010	246.1	6250	3-6	6260	2840

NOTE :(1) For height without backrest: -29.9in(-760mm)

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 F/B	Service weight	
	FCG15-4 load center				Lowered		(1)Raised with Backrest					FCG15-4	
	24in(lbs)	600mm(kg)	in	mm									
	VFM270	3000	1350	106.3	2700	71.3	1810	155.5	3950	23	585	5-8	5990
VFM300	3000	1350	118.1	3000	77.2	1960	167.3	4250	28.9	735	5-8	6030	2735
VFM330	3000	1350	129.9	3300	83.1	2110	179.1	4550	34.8	885	5-8	6070	2755
VFM350	3000	1350	137.8	3500	87	2210	187	4750	38.8	985	5-8	6100	2765
VFM375	3000	1350	147.6	3750	91.9	2335	196.9	5000	43.7	1110	3-6	6140	2785
VFM400	3000	1350	157.5	4000	98.8	2510	206.7	5250	50.6	1285	3-6	6170	2800
VFM425	2800	1250	167.3	4250	103.7	2635	216.5	5500	55.5	1410	3-6	6270	2845
VFM450	2800	1250	177.2	4500	108.7	2760	226.4	5750	60.4	1535	3-6	6310	2860
VFM475	2600	1150	187	4750	113.6	2885	236.2	6000	65.4	1660	3-6	6340	2875
VFM500	2600	1150	196.9	5000	118.5	3010	246.1	6250	70.3	1785	3-6	6380	2895

NOTE :(1) For height without backrest: -29.9in(-760mm)
(2) For free lift without backrest: +29.9in(+760mm)
Weight for without backrest: -67lbs(-30kg)

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 F/B	Service weight	
	FCG15-4				Lowered		(1)Raised with Backrest					FCG15-4	
	load center												
	24in(lbs)	600mm(kg)	in	mm	in	mm	in	mm	in	mm	deg	lbs	kg
VFHM360	2950	1300	141.7	3600	67.3	1710	190.9	4850	19.1	485	3-6	6180	2805
VFHM400	2850	1250	157.5	4000	72.2	1835	206.7	5250	24	610	3-6	6240	2830
VFHM435	2750	1200	171.3	4350	77.2	1960	220.5	5600	28.9	735	3-6	6280	2850
VFHM480	2600	1150	189	4800	83.1	2110	238.2	6050	34.8	885	3-6	6350	2880
VFHM500	2500	1100	196.9	5000	87	2210	246.1	6250	38.8	985	3-6	6380	2895
VFHM540	2300	950	212.6	5400	91.9	2335	261.8	6650	43.7	1110	3-6	6440	2920
VFHM550	2250	900	216.5	5500	93.5	2375	265.7	6750	45.3	1150	3-6	6450	2925
VFHM600	1600 *2300	650 *1000	236.2	6000	100.8	2560	285.4	7250	52.6	1335	3-6	6580	2985
VFHM650	*1300	*550	255.9	6500	109.3	2775	305.1	7750	61	1550	3-3	6680	3030
VFHM700	*700	*300	275.6	7000	117.9	2995	324.8	8250	69.7	1770	3-3	6770	3070

NOTE :(1) For height without backrest: -29.9in(-760mm)
(2) For free lift without backrest: +29.9in(+760mm)
Weight for without backrest: -67lbs(-30kg)

NOTE :
Rated capacity with (*): Shows capacity with wide tread.
Lifting speed with VFM/VFHM mast: with VFM 94.5fpm(480mm/s) with load. 104.4fpm(530mm/s) without load.
with VFHM 110.3fpm(560mm/s) with load. 116.2fpm(590mm/s) without load.
Lowering speed with VFM/VFHM mast: 82.7fpm(420mm/s) with load. 72.9fpm(370mm/s) without load.
Overall vehicle length with VFHM mast: +0.4in(+10mm) longer than of standard model with VM/VFM mast.

Wide View Mast

Wide View Mast VM

Mast Model	Rated Capacity				Max. Fork Height		Overall Mast Height				Tilting Angle F/B	Service weight			
	FCG20-4		FCG25-4				Lowered		(1)Raised with Backrest			FCG20-4		FCG25-4	
	load center														
	24in(lbs)	600mm(kg)	24in(lbs)	600mm(kg)			in	mm	in	mm	in	mm	deg	lbs	kg
VM270	4000	1800	5000	2250	106.3	2700	71.3	1810	155.5	3950	5-8	7200	3265	8080	3665
VM300	4000	1800	5000	2250	118.1	3000	77.2	1960	167.3	4250	5-8	7240	3285	8120	3685
VM330	4000	1800	5000	2250	129.9	3300	83.1	2110	179.1	4550	5-8	7300	3310	8180	3710
VM350	4000	1800	5000	2250	137.8	3500	87	2210	187	4750	5-8	7330	3325	8210	3725
VM375	4000	1800	5000	2250	147.6	3750	91.9	2335	196.9	5000	3-6	7370	3345	8260	3745
VM400	4000	1800	5000	2250	157.5	4000	98.8	2510	206.7	5250	3-6	7510	3405	8390	3805
VM425	3850	1700	4850	2150	167.3	4250	103.7	2635	216.5	5500	3-6	7550	3425	8430	3825
VM450	3850	1700	4850	2150	177.2	4500	108.7	2760	226.4	5750	3-6	7580	3440	8470	3840
VM475	3750	1700	4700	2100	187	4750	113.6	2885	236.2	6000	3-6	7630	3460	8510	3860
VM500	3750	1700	4700	2100	196.9	5000	118.5	3010	246.1	6250	3-6	7670	3480	8550	3880
VM550	*3500	*1550	*4500	*2000	216.5	5500	130.3	3310	365.7	6750	3-6	7840	3555	8720	3955
VM600	*3400	*1500	*4300	*1950	236.2	6000	140.2	3560	285.4	7250	3-6	7930	3595	8810	3995

NOTE :(1) For height without backrest: -24.8in(-630mm)

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 F/B	Service weight			
	FCG20-4		FCG25-4				Lowered		(1)Raised with Backrest					FCG20-4		FCG25-4	
	load center																
	24in(lbs)	600mm(kg)	24in(lbs)	600mm(kg)	in	mm	in	mm	in	mm	in	mm	deg	lbs	kg	lbs	kg
VFM270	4000	1800	5000	2250	106.3	2700	71.3	1810	155.5	3950	23.2	590	5-8	7340	3330	8220	3730
VFM300	4000	1800	5000	2250	118.1	3000	77.2	1960	167.3	4250	29.1	740	5-8	7400	3355	8280	3755
VFM330	4000	1800	5000	2250	129.9	3300	83.1	2110	179.1	4550	35	890	5-8	7450	3380	8330	3780
VFM350	4000	1800	5000	2250	137.8	3500	87	2210	187	4750	39	990	5-8	7480	3395	8370	3795
VFM375	4000	1800	5000	2250	147.6	3750	91.9	2335	196.9	5000	43.9	1115	3-6	7530	3415	8410	3815
VFM400	4000	1800	5000	2250	157.5	4000	98.8	2510	206.7	5250	50.8	1290	3-6	7660	3475	8540	3875
VFM425	3850	1700	4850	2150	167.3	4250	103.7	2635	216.5	5500	55.7	1415	3-6	7720	3500	8600	3900
VFM450	3850	1700	4850	2150	177.2	4500	108.7	2760	226.4	5750	60.6	1540	3-6	7760	3520	8640	3920
VFM475	3750	1700	4700	2100	187	4750	113.6	2885	236.2	6000	65.6	1665	3-6	7800	3540	8690	3940
VFM500	3750	1700	4700	2100	196.9	5000	118.5	3010	246.1	6250	70.5	1790	3-6	7850	3560	8730	3960
VFM550	*3500	*1550	*4500	*2000	216.5	5500	130.3	3310	365.7	6750	82.3	2090	3-6	8020	3640	8910	4040
VFM600	*3400	*1500	*4300	*1950	236.2	6000	140.2	3560	285.4	7250	92.1	2340	3-6	8110	3680	8990	4080

NOTE :(1) For height without backrest: -24.8in(-630mm)
(2) For free lift without backrest: +24.8in(+630mm)
Weight for without backrest: -80lbs(-35kg)

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 F/B	Service weight			
	FCG20-4		FCG25-4				Lowered		(1)Raised with Backrest					FCG20-4		FCG25-4	
	load center																
	24in(lbs)	600mm(kg)	24in(lbs)	600mm(kg)	in	mm	in	mm	in	mm	in	mm	deg	lbs	kg	lbs	kg
VFHM360	4000	1800	5000	2250	141.7	3600	67.3	1710	190.9	4850	19.3	490	3-6	7510	3405	8390	3805
VFHM400	3850	1700	4850	2150	157.5	4000	72.2	1835	206.7	5250	24.2	615	3-6	7570	3435	8450	3835
VFHM435	3750	1700	4750	2150	171.3	4350	77.2	1960	220.5	5600	29.1	740	3-6	7640	3465	8520	3865
VFHM480	3650	1650	4600	2050	189	4800	83.1	2110	238.2	6050	35	890	3-6	7720	3500	8600	3900
VFHM500	3550	1600	4550	2050	196.9	5000	87	2210	246.1	6250	39	990	3-6	7770	3525	8650	3925
VFHM540	3400	1400	4100	1650	212.6	5400	91.9	2335	261.8	6650	43.9	1115	3-6	7840	3555	8720	3955
	*3500	*1550	*4400	*1950													
VFHM550	3350	1350	4000	1550	216.5	5500	93.5	2375	265.7	6750	45.5	1155	3-6	7860	3565	8740	3965
	*3400	*1500	*4350	*1950													
VFHM600	2200	900	2400	1000	236.2	6000	100.8	2560	285.4	7250	52.8	1340	3-6	8040	3645	8920	4045
	*3200	*1450	*4200	*1900													
VFHM650	*2900	*1300	*3800	*1700	255.9	6500	109.3	2775	305.1	7750	61.2	1555	3-3	8170	3705	9050	4105
VFHM700	*2000	*900	*2000	*900	275.6	7000	117.9	2995	324.8	8250	69.9	1775	3-3	8280	3755	9160	4155

Wide View Mast

Wide View Mast VM

Mast Model	Rated Capacity				Max. Fork Height		Overall Mast Height				Tilting Angle F/B	Service weight			
	FCG20-4H		FCG25-4H				Lowered		(1)Raised with Backrest			FCG20-4H		FCG25-4H	
	load center														
	24in(lbs)	600mm(kg)	24in(lbs)	600mm(kg)	in	mm	in	mm	in	mm	deg	lbs	kg	lbs	kg
VM270	4000	1800	5000	2250	106.3	2700	71.3	1810	155.5	3950	5-8	7260	3295	8150	3695
VM300	4000	1800	5000	2250	118.1	3000	77.2	1960	167.3	4250	5-8	7310	3315	8190	3715
VM330	4000	1800	5000	2250	129.9	3300	83.1	2110	179.1	4550	5-8	7360	3340	8250	3740
VM350	4000	1800	5000	2250	137.8	3500	87	2210	187	4750	5-8	7400	3355	8280	3755
VM375	4000	1800	5000	2250	147.6	3750	91.9	2335	196.9	5000	3-6	7440	3375	8320	3775
VM400	4000	1800	5000	2250	157.5	4000	98.8	2510	206.7	5250	3-6	7570	3435	8450	3835
VM425	3850	1700	4850	2150	167.3	4250	103.7	2635	216.5	5500	3-6	7620	3455	8500	3855
VM450	3850	1700	4850	2150	177.2	4500	108.7	2760	226.4	5750	3-6	7650	3470	8530	3870
VM475	3750	1700	4700	2100	187	4750	113.6	2885	236.2	6000	3-6	7690	3490	8580	3890
VM500	3750	1700	4700	2100	196.9	5000	118.5	3010	246.1	6250	3-6	7740	3510	8620	3910
VM550	*3500	*1550	*4500	*2000	216.5	5500	130.3	3310	365.7	6750	3-6	7900	3585	8790	3985
VM600	*3400	*1500	*4300	*1950	236.2	6000	140.2	3560	285.4	7250	3-6	7990	3625	8870	4025

NOTE :(1) For height without backrest: -24.8in(-630mm)

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 F/B	Service weight			
	FCG20-4H		FCG25-4H				Lowered		(1)Raised with Backrest					FCG20-4H		FCG25-4H	
	load center																
	24in(lbs)	600mm(kg)	24in(lbs)	600mm(kg)	in	mm	in	mm	in	mm	in	mm	deg	lbs	kg	lbs	kg
VFM270	4000	1800	5000	2250	106.3	2700	71.3	1810	155.5	3950	23.2	590	5-8	7410	3360	8290	3760
VFM300	4000	1800	5000	2250	118.1	3000	77.2	1960	167.3	4250	29.1	740	5-8	7460	3385	8340	3785
VFM330	4000	1800	5000	2250	129.9	3300	83.1	2110	179.1	4550	35	890	5-8	7520	3410	8400	3810
VFM350	4000	1800	5000	2250	137.8	3500	87	2210	187	4750	39	990	5-8	7550	3425	8430	3825
VFM375	4000	1800	5000	2250	147.6	3750	91.9	2335	196.9	5000	43.9	1115	3-6	7590	3445	8480	3845
VFM400	4000	1800	5000	2250	157.5	4000	98.8	2510	206.7	5250	50.8	1290	3-6	7730	3505	8610	3905
VFM425	3850	1700	4850	2150	167.3	4250	103.7	2635	216.5	5500	55.7	1415	3-6	7780	3530	8660	3930
VFM450	3850	1700	4850	2150	177.2	4500	108.7	2760	226.4	5750	60.6	1540	3-6	7830	3550	8710	3950
VFM475	3750	1700	4700	2100	187	4750	113.6	2885	236.2	6000	65.6	1665	3-6	7870	3570	8750	3970
VFM500	3750	1700	4700	2100	196.9	5000	118.5	3010	246.1	6250	70.5	1790	3-6	7910	3590	8800	3990
VFM550	*3500	*1550	*4500	*2000	216.5	5500	130.3	3310	365.7	6750	82.3	2090	3-6	8090	3670	8970	4070
VFM600	*3400	*1500	*4300	*1950	236.2	6000	140.2	3560	285.4	7250	92.1	2340	3-6	8180	3710	9060	4110

NOTE :(1) For height without backrest: -24.8in(-630mm)
(2) For free lift without backrest: +24.8in(+630mm)
Weight for without backrest: -80lbs(-35kg)

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 F/B	Service weight			
	FCG20-4H		FCG25-4H				Lowered		(1)Raised with Backrest					FCG20-4H		FCG25-4H	
	load center																
	24in(lbs)	600mm(kg)	24in(lbs)	600mm(kg)	in	mm	in	mm	in	mm	in	mm	deg	lbs	kg	lbs	kg
VFHM360	4000	1800	5000	2250	141.7	3600	67.3	1710	190.9	4850	19.3	490	3-6	7570	3435	8450	3835
VFHM400	3850	1700	4850	2150	157.5	4000	72.2	1835	206.7	5250	24.2	615	3-6	7640	3465	8520	3865
VFHM435	3750	1700	4750	2150	171.3	4350	77.2	1960	220.5	5600	29.1	740	3-6	7710	3495	8590	3895
VFHM480	3650	1650	4600	2050	189	4800	83.1	2110	238.2	6050	35	890	3-6	7780	3530	8660	3930
VFHM500	3550	1600	4550	2050	196.9	5000	87	2210	246.1	6250	39	990	3-6	7840	3555	8720	3955
VFHM540	3400	1400	4100	1650	212.6	5400	91.9	2335	261.8	6650	43.9	1115	3-6	7900	3585	8790	3985
	*3500	*1550	*4400	*1950													
VFHM550	3350	1350	4000	1550	216.5	5500	93.5	2375	265.7	6750	45.5	1155	3-6	7930	3595	8810	3995
	*3400	*1600	*4350	*1950													
VFHM600	2200	900	2400	1000	236.2	6000	100.8	2560	285.4	7250	52.8	1340	3-6	8100	3675	8980	4075
	*3200	*1550	*4200	*2000													
VFHM650	*2900	*1500	*3800	*1700	255.9	6500	109.3	2775	305.1	7750	61.2	1555	3-3	8230	3735	9120	4135
VFHM700	*2000	*900	*2000	*900	275.6	7000	117.9	2995	324.8	8250	69.9	1775	3-3	8340	3785	9230	4185

NOTE :(1) For height without backrest: -24.8in(-630mm)
(2) For free lift without backrest: +24.8in(+630mm)
Weight for without backrest: -80lbs(-35kg)

NOTE :
Rated capacity with (*): Shows capacity with wide tread.
Lifting speed with VFM/VFHM mast: with VFM 104.4fpm(530mm/s) with load. 110.3fpm(560mm/s) without load.
with VFHM 110.3fpm(560mm/s) with load. 114.2fpm(580mm/s) without load.
Lowering speed with VFM/VFHM mast: 78.8fpm(400mm/s) with load. 68.9fpm(350mm/s) without load.
Overall vehicle length with VFHM mast: +1.4in(+35mm) longer than of standard model with VM/VFM mast.

Wide View Mast

Wide View Mast VM

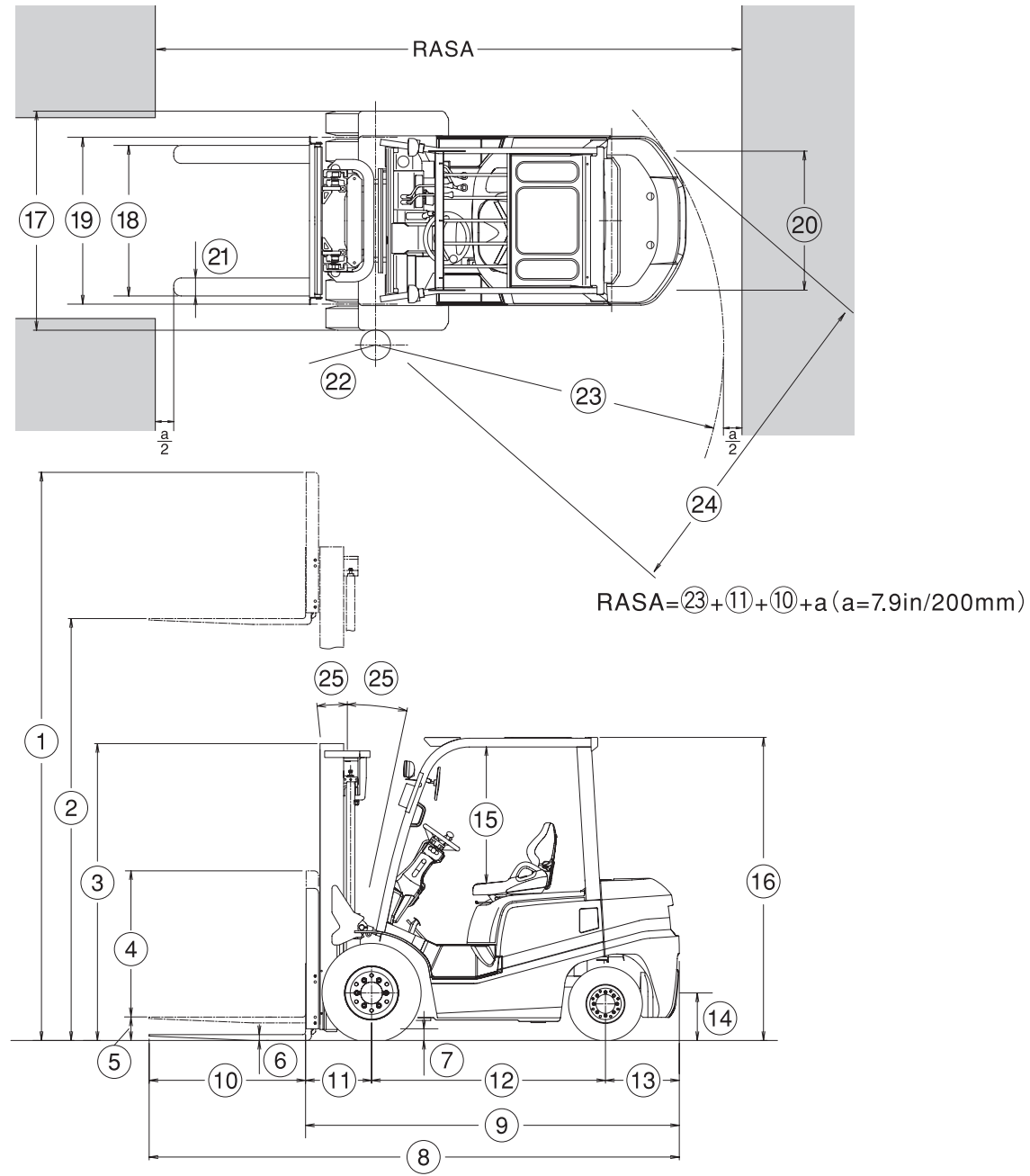
Mast Model	Rated Capacity		Max. Fork Height		Overall Mast Height				Tilting	Service weight	
	FCG30-4H				Lowered		(1)Raised with Backrest	Angle F/B	FCG30-4H		
	load center										
	24in(lbs)	600mm(kg)	in	mm	in	mm	in	mm	deg	lbs	kg
VM270	6000	2700	106.3	2700	73.2	1860	155.9	3960	5-8	9190	4170
VM300	6000	2700	118.1	3000	79.1	2010	167.7	4260	5-8	9250	4195
VM320	6000	2700	126	3200	83.1	2110	175.6	4460	5-8	9280	4210
VM350	6000	2700	137.8	3500	89	2260	187.4	4760	5-8	9340	4235
VM375	6000	2700	147.6	3750	93.9	2385	197.2	5010	3-6	9380	4255
VM400	6000	2700	157.5	4000	100.8	2560	207.1	5260	3-6	9510	4315
VM425	5850	2650	167.3	4250	105.7	2685	216.9	5510	3-6	9560	4335
VM450	5850	2650	177.2	4500	110.6	2810	226.8	5760	3-6	9610	4360
VM475	5700	2550	187	4750	115.6	2935	236.6	6010	3-6	9630	4370
VM500	5700	2550	196.9	5000	120.5	3060	246.5	6260	3-6	9710	4405
VM550	*5400	*2400	216.5	5500	132.3	3360	266.1	6760	3-6	9870	4475
VM600	*5200	*2350	236.2	6000	142.1	3610	285.8	7260	3-6	9950	4515

NOTE :(1) For height without backrest: -23.0in(-585mm)

Wide View Full Free 2-Stage Mast VFM

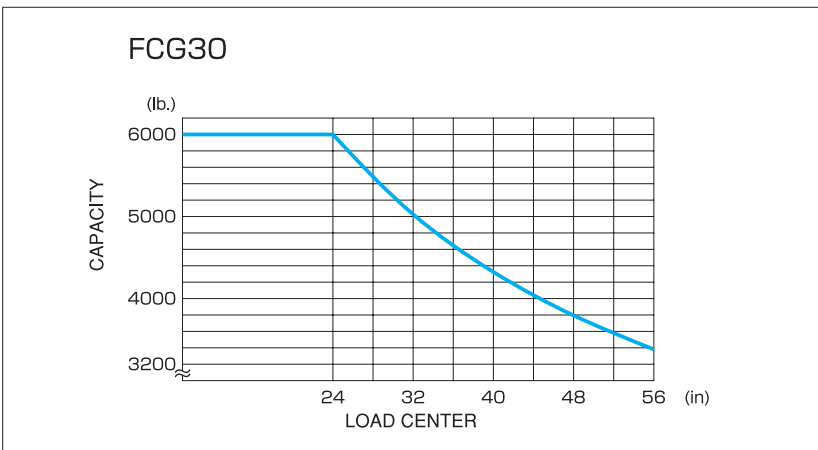
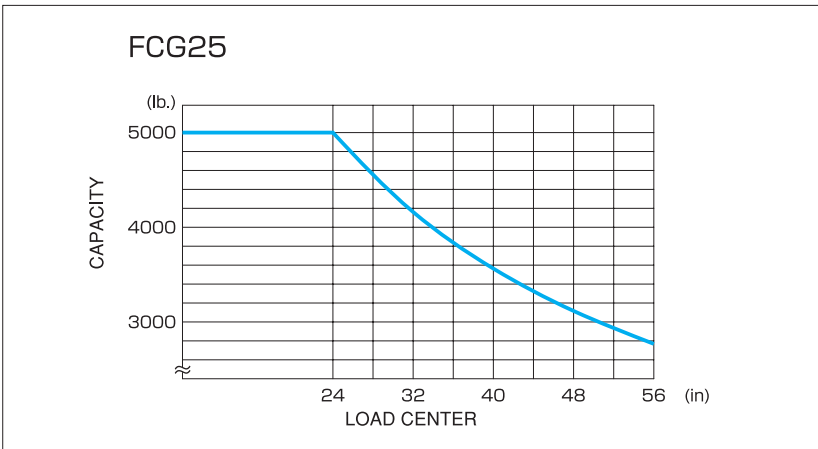
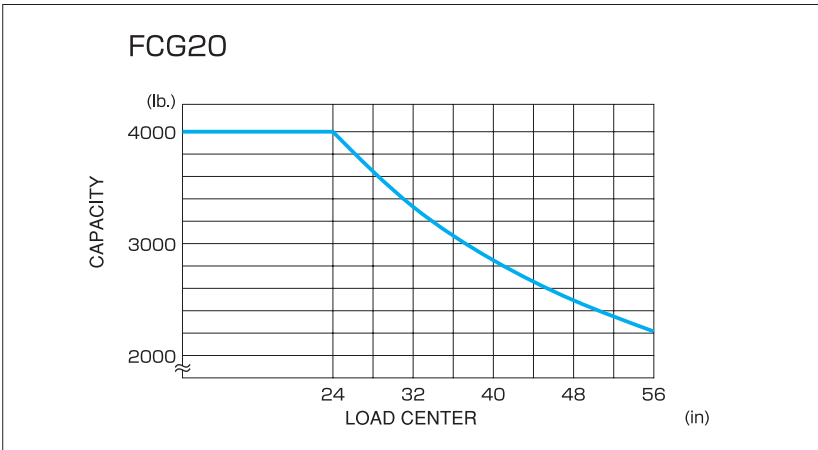
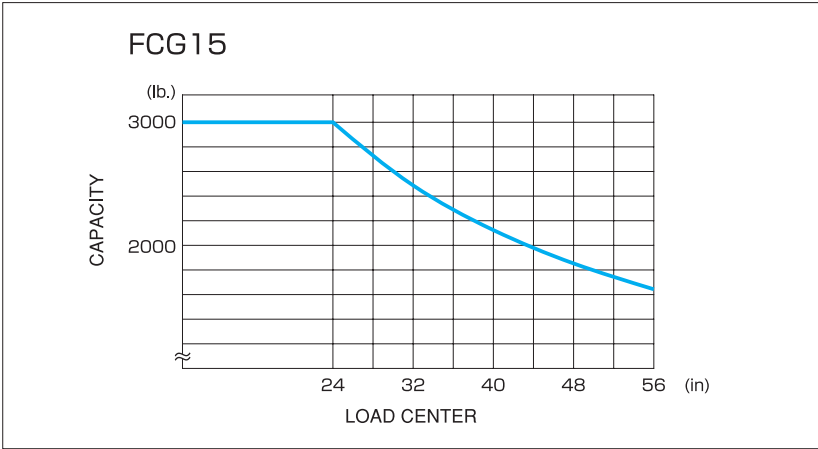
Mast Model	Rated Capacity		Max. Fork Height		Overall Mast Height				(2)Free lift with Backrest		Tilting Angle F/B	Service weight	
	FCG30-4H load center				Lowered		(1)Raised with Backrest					FCG30-4H	
	24in(lbs)	600mm(kg)	in	mm	in	mm	in	mm	in	mm	deg	lbs	kg
VFM270	6000	2700	106.3	2700	73.2	1860	155.9	3960	25	635	5-8	9330	4230
VFM300	6000	2700	118.1	3000	79.1	2010	167.7	4260	30.9	785	5-8	9390	4260
VFM320	6000	2700	126	3200	83.1	2110	175.6	4460	36.4	925	5-8	9420	4275
VFM350	6000	2700	137.8	3500	89	2260	187.4	4760	40.7	1035	5-8	9490	4305
VFM375	6000	2700	147.6	3750	93.9	2385	197.2	5010	45.7	1160	3-6	9530	4325
VFM400	6000	2700	157.5	4000	100.8	2560	207.1	5260	52.6	1335	3-6	9680	4390
VFM425	5850	2650	167.3	4250	105.7	2685	216.9	5510	57.5	1460	3-6	9720	4410
VFM450	5850	2650	177.2	4500	110.6	2810	226.8	5760	62.4	1585	3-6	9780	4435
VFM475	5700	2550	187	4750	115.6	2935	236.6	6010	67.3	1710	3-6	9820	4455
VFM500	5700	2550	196.9	5000	120.5	3060	246.5	6260	72.2	1835	3-6	9880	4480
VFM550	*5400	*2400	216.5	5500	132.3	3360	266.1	6760	84.1	2135	3-6	10050	4560
VFM600	*5200	*2350	236.2	6000	142.1	3610	285.8	7260	93.9	2385	3-6	10150	4605

GROUND CLEARANCE	FCG15	FCG20 / 25 / 30
	in (mm)	in (mm)
Mast	3.0 (75)	
Frame	3.5 (90)	
Front axle	4.3 (110)	
Rear axle	3.2 (80)	
Counter weight	4.3 (110)	



STANDARD DIMENSIONS

Model		FCG15	FCG20	FCG25	FCG30
		in (mm)	in (mm)	in (mm)	in (mm)
①	Overall height, fork raised (with backrest)	179.1 (4550)	179.1 (4550)	179.1 (4550)	175.6 (4460)
②	Maximum fork height	130.0 (3300)	130.0 (3300)	130.0 (3300)	126 (3200)
③	Mast height, fork lowered	83.1 (2110)	83.1 (2110)	83.1 (2110)	83.1 (2110)
④	Backrest height	48.0 (1220)	48.0 (1220)	48.0 (1220)	48.2 (1225)
⑤	Free lift	4.1 (105)	4.3 (110)	4.3 (110)	4.5 (115)
⑥	Fork thickness	1.4 (35)	1.6 (40)	1.6 (40)	1.8 (45)
⑦	Minimum ground clearance	3.0 (75)	3.0 (75)	3.0 (75)	3.0 (75)
⑧	Overall length (with forks)	126 (3200)	132.9 (3375)	135.4 (3440)	139.0 (3530)
⑨	Length to fork face	83.9 (2130)	90.7 (2305)	93.3 (2370)	96.9 (2460)
⑩	Fork length	42.1 (1070)	42.1 (1070)	42.1 (1070)	42.1 (1070)
⑪	Load distance	15.4 (390)	17.1 (435)	17.1 (435)	17.7 (450)
⑫	Wheelbase	48.0 (1220)	56.1 (1425)	56.1 (1425)	56.1 (1425)
⑬	Rear overhang	20.5 (520)	17.5 (445)	20.1 (510)	23.0 (585)
⑭	Drawbar Pin Center Height	17.7 (450)	17.7 (450)	17.7 (450)	17.7 (450)
⑮	Overhead guard clearance (from face of seat)	39.4 (1000)	39.4 (1000)	39.4 (1000)	39.4 (1000)
⑯	Overall height (overhead guard)	80.7 (2050)	80.7 (2050)	80.7 (2050)	80.7 (2050)
⑰	Overall width	38 (965)	41.9 (1065)	41.9 (1065)	43.5 (1105)
⑱	Fork spread (outside)	7.9 (200)-31.5 (800)	9.6 (245)-37.4 (950)	9.6 (245)-37.4 (950)	9.8 (250)-40.6 (1030)
⑲	Tread (front)	31.5 (800)	34.5 (875)	34.5 (875)	35.4 (900)
⑳	Tread (rear)	31.5 (800)	33.7 (855)	33.7 (855)	33.7 (855)
㉑	Fork width	3.9 (100)	4.8 (122)	4.8 (122)	4.9 (125)
㉒	Inside turning radius	1.2 (30)	1.4 (35)	1.4 (35)	0.4 (10)
㉓	Outside turning radius	72.4 (1840)	78.7 (2000)	81.1 (2060)	84.3 (2140)
㉔	Minimum intersecting aisle	71.8 (1825)	74.2 (1885)	75.4 (1915)	78.1 (1985)
㉕	Tilt angle (forward-backward)	5° - 8°	5° - 8°	5° - 8°	5° - 8°



[Equipment]

- Asbestos-free brake shoe material
- Donaldson dry type cyclopac air-cleaner
- Cushion tires
- Radiator coolant reservoir
- Cylinder type bonnet latch with locking function
- Operator restrain seat with seat belt
- Drawbar device
- Full hydrostatic power steering
- Durable overhead guard
- High-visibility,wide-view mast (VM)
- Hydraulic oil dipstick
- ITA Class II or class III carriage
- Interlock system
- Lift circuit cut-off valve
- Load backrest
- Flow control valve
- Overhead air intake system
- Return hydraulic filter
- Suction hydraulic strainer
- Tilt lock valve
- Transmission oil dipstick
- Transmission oil filter
- Key lock anti-restart ignition switch
- Unti-roll mechanism (4000 - 6000lbs models)
- 42in (1070mm) forks
- 3-spool control valve with pressure relief
- 3-way catalic muffler
- Key lock anti-restart ignition switch

[Controls]

- Electric shift control lever
- Lift and tilt levers
- Multi-function switch lever with self-cancelling 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)
- 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 only)
- Hourmeter
- Neutral safety switch
- Water temperature gauge

[Equipment]

- Auxiliary hydraulic valve modules
- Drive soft-mode torque control (DSC)
- Travel speed limiter switch (TSL10)
- LPG exclusive fuel package
- Plate fin type radiator (RAD PF)
- Radiator dust screen
- Color tire (white)
- Wide tread front drive
- Bottlers tilt
- Muffler with a diffusion tail pipe
- Pre-aircleaner (CAKB)

[Accessories]

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

[Instruments and Switch]

- Ammeter (AM)
- Torque converter oil temperature gauge

- Alternative fork lengths
- Side-shifter (Hook-on / Integral type)(SS)
- Wide view full free 2-stage (VFM) mast
- Wide view full free 3-stage (VFHM) mast

Others on request

NOTE :

- Meets following major standard 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 requirement as to fire hazard only for G, LP, LPS