

Heavy-Duty Forklift Trucks

6-10ton

FD60Z8 FD70Z8
FD80Z8 FD100Z8



DIESEL POWERED

Pneumatic Tire Truck



POWERFUL

Biggest and Most Powerful Engine in This Class

High-power & Low-fuel consumption 6.5 liter diesel engine, 6BG1 provides:

Rated Power	
84.6kW (115PS) / 2100r.p.m.	FD80/100
82.4kW (112PS) / 2000r.p.m.	FD60/70

Rated Torque	
416.5 N·m (42.5 kg·m) / 1500 r.p.m.	

Fastest Acceleration

10 meter accelerating speed (loaded)

	NEW	PREVIOUS
	4.3 sec	5.1 sec

SPEEDY

Speedy Lifting

One of the highest lift speeds in its class.

500mm/s (loaded, FD60)



Electronic Controlled Automatic Transmission

Automatic transmission provides reliable travel control incorporated with a low effort single electronic control lever.



FRIENDLY

Environment Friendly Black Smoke Savings of 30%
Noxious Substance Savings of 50%

Low Noise

85dB(A)
(at operators ear, according to ISO)

Greater Visibility / Super-wide Finger Bar

Excellent forward and upward visibility (top in class) 20% wider than previous model.



SAFETY

Boltless Floorboards

Both the front and rear floorboards can be removed or installed easily, without any tools.

The Parking Brake Lever is Equipped with a Safety Device

The Mast is as Rigid as Ever.

Durable mast with a thoughtful layout of rollers



STANDARD SPECIFICATIONS

Characteristics	1	Manufacturer				Mitsubishi Logisnext				
	2	Model				FD60Z8	FD70Z8	FD80Z8	FD100Z8	
	3	Load Capacity			kg(lbs)	6000(13000)	7000(15500)	8000(17500)	10000(22000)	
	4	Load Center			mm(in)	600(24)				
	5	Power Type				Diesel				
	6	Operator Position				Seated				
	7	Tire Type	Front/Rear		Pneumatic					
	8	Wheels(X=driven)	Front/Rear		4 × /2					
Dimensions	9	Maximum Fork Height			mm(in)	3000(118)				
	10	Free Lift			mm(in)	205(8.1)	215(8.5)	205(8.1)		
	13	Fork Size	L × W × T	mm (in)	1220 × 150 × 60 (48.0 × 5.9 × 2.4)	1220 × 150 × 70 (48.0 × 5.9 × 2.8)	1220 × 170 × 75 (48.0 × 6.7 × 3.0)	1220 × 180 × 75 (48.0 × 7.1 × 3.0)		
	14	Tilt Range	Fwd/Bwd	deg	6/12					
	15	Length to Fork Face			mm(in)	3610(142.1)	3690(145.3)	3980(156.7)	4245(167.1)	
	16	Overall Width			mm(in)	1995(78.5)		2165(85.2)	2245(88.4)	
	17	Mast Height Fork Lowered			mm(in)	2500(98.4)		2700(106.3)	2850(112.2)	
	18	Mast Height,Fork Raised			mm(in)	4420(174.0)			4330(170.5)	
	19	Overhead Guard Height ★★★			mm(in)	2450(96.5)		2560(100.8)		
	21	Turning Radius(Outside)			mm(in)	3360(132.3)	3420(134.6)	3630(142.9)	3880(152.8)	
Performance	22	Load Distance (Centerline of Front Axle to Front Face of Forks)			mm(in)	615(24.2)	625(24.6)	720(28.3)	710(28.0)	
	23	Basic Right Angle Stacking Aisle Width			mm(in)	5395(212.4)	5465(215.2)	5770(227.2)	6010(236.6)	
	24	Speeds	Travel Max.	Full Load	km/h(mph)	26(16.1)		25(15.5)	24(14.9)	
	No Load			km/h(mph)	30(18.6)					
	Lifting		Full Load	mm/s(fpm)	500(98.4)	460(90.6)	450(88.6)	390(76.8)		
			No Load	mm/s(fpm)	550(108.3)		470(92.5)	410(80.7)		
	Lowering		Full Load	mm/s(fpm)	450(88.6)			470(92.5)		
			No Load	mm/s(fpm)	500(98.4)		450(88.6)	340(66.9)		
28	Max.Drawbar Pull			Full Load / No Load	kN (lbs)	53.9/22.1 (12100/4960)	52.9/21.6 (11900/4850)	57.3/27.4 (12900/6150)	57.3/31.4 (12900/7050)	
29	Gradeability at (1.6km/h or 1mph)			Full Load	%(tan θ)	33	29	27	22	
30	Max.Gradeability ★★			Full Load / No Load	%(tan θ)	38/19	33/19	29/19	24/20	
Weight	32	Total Weight			kg(lbs)	8710(19200)	9410(20750)	11150(24580)	12540(27650)	
	33	Weight Distribution	Full Load	Front	kg(lbs)	13050(28770)	14500(31970)	17130(37770)	20260(44670)	
	Rear			kg(lbs)	1660(3660)	1910(4210)	2020(4450)	2280(5030)		
	34		No Load	Front	kg(lbs)	3780(8330)	3690(8140)	4900(10800)	5580(12300)	
				Rear	kg(lbs)	4930(10870)	5720(12610)	6250(13780)	6960(15350)	
Chassis & Wheels	35	Tires	Number	Front/Rear		4/2				
	36		Size	Front		8.25 × 15-14PR		9.00 × 20-14PR		
				Rear		8.25 × 15-14PR		9.00 × 20-14PR		
	38	Wheelbase			mm(in)	2300(90.6)		2500(98.4)	2800(110.2)	
	39	Tread			Front	mm(in)	1470(57.9)		1600(63.0)	
					Rear	mm(in)	1700(66.9)			
	40	Underclearance	at lowest point			mm(in)	190(7.5)		245(9.6)	
	41		Center of Frame			mm(in)	230(9.1)		335(13.2)	
	42	Brake	Service				Hydraulic-Foot pedal			
	43		Parking				Mechanical-Hand lever			
Engine & Transmission	45	Battery			Voltage / Capacity	2 × 12V-70AH/20h				
	49	Internal Combustion Engine	Make-Model				ISUZU 6BG1			
	50		Rated Horsepower / r.p.m.				82.4kW/2000r.p.m. : 112PS/2000r.p.m. (SAE GROSS 114HP/2000r.p.m.)		84.6kW/2100r.p.m. : 115PS/2100r.p.m. (SAE GROSS 117HP/2100r.p.m.)	
	51		Rate Torque / r.p.m				416.5N • m/1500r.p.m. : 42.5kg • m/1500r.p.m. (SAE 307.4ft • lbs/1500r.p.m.)			
	52		Number of Cylinder				6			
			Displacement			lit(cu-in)	6.494(396.3)			
			Fuel Tank Capacity Type			lit(US gal)	140(37.0)			
	55		Transmission			Number of Speed Fwd / Rvs-Type		2/2-Automatic Power shift		
57	Operating Pressure			For Attachment	kgf / cm ² (psi)	200(2844)				

★★ Computed values(Travel speed 0km/h) ★★★ In European Export Units +15mm(0.5in)

Wide View Mast

Wide View Mast VM

Mast Model	Rated Capacity/ 600mm(24 in) Load Center				Max. Fork Height		Overall Mast Height				Tilting Angle Fwd-Bkd	Service Weight			
	FD60Z8		FD70Z8				Lowered		Raised with Backrest			FD60Z8		FD70Z8	
	kg	lbs	kg	lbs	mm	in	mm	in	mm	in	deg	kg	lbs	kg	lbs
VM300	6000	13000	7000	15500	3000	118.0	2500	98.4	4420	174.0	6-12	8710	19210	9410	20750
VM330	6000	13000	7000	15500	3300	130.0	2650	104.4	4720	185.8	6-12	8760	19320	9460	20860
VM350	6000	13000	7000	15500	3500	137.8	2750	108.3	4920	193.7	6-12	8790	19380	9490	20930
VM400	6000	13000	7000	15500	4000	157.5	3050	120.1	5420	213.4	6-12	8980	19800	9680	21350
VM450	6000	13000	7000	15500	4500	177.2	3300	130.0	5920	233.1	6-12	9070	20000	9770	21540
VM500	6000	13000	7000	15500	5000	196.9	3550	139.8	6420	252.8	6-6	9180	20240	9880	21790
VM550	5700	12500	6600	14500	5500	216.5	3850	151.6	6920	272.4	3-6	9380	20680	10080	22230
VM600	5400	11900	6400	14100	6000	236.2	4100	161.4	7420	292.1	3-6	9460	20860	10160	22400

Wide View Full Free 2-Stage Mast VFM

Mast Model	Rated Capacity/ 600mm(24 in) Load Center				Max. Fork Height		Overall Mast Height				(2)Free Lift with Backrest				Tilting Angle Fwd- Bkd	(3)Service Weight			
	FD60Z8		FD70Z8				Lowered		(1)Raised with Backrest		FD60Z8		FD70Z8			FD60Z8		FD70Z8	
	kg	lbs	kg	lbs	mm	in	mm	in	mm	in	mm	in	mm	in	deg	kg	lbs	kg	lbs
VFM300	6000	13000	7000	15500	3000	118.0	2625	103.4	4420	174.0	1255	49.4	1265	49.8	6-12	8835	19480	9515	20980
VFM330	6000	13000	7000	15500	3300	130.0	2775	109.3	4720	185.8	1405	55.3	1415	55.7	6-12	8885	19590	9565	21090
VFM350	6000	13000	7000	15500	3500	137.8	2875	113.2	4920	193.7	1505	59.3	1515	59.6	6-12	8915	19660	9595	21160
VFM400	6000	13000	7000	15500	4000	157.5	3175	125.0	5420	213.4	1805	71.1	1815	71.5	6-12	9115	20100	9795	21600
VFM450	6000	13000	7000	15500	4500	177.2	3425	134.9	5920	233.1	2055	80.9	2065	81.3	6-12	9195	20280	9875	21780

NOTE: (1)For height without backrest: -325mm(-12.8in)
(2)For free lift without backrest: + 325mm(+ 12.8in)
(3)Weight for without backrest: [FD60] -54kg(-120lbs)、[FD70] -59kg(-130lbs)

Wide View Full Free 3-Stage Mast VFHM

Mast Model	Rated Capacity/ 600mm(24 in) Load Center				Max. Fork Height		Overall Mast Height				(2)Free Lift with Backrest				Tilting Angle Fwd- Bkd	(3)Service Weight			
	FD60Z8		FD70Z8				Lowered		(1)Raised with Backrest		FD60Z8		FD70Z8			FD60Z8		FD70Z8	
	kg	lbs	kg	lbs	mm	in	mm	in	mm	in	mm	in	mm	in	deg	kg	lbs	kg	lbs
VFHM400	5500	12150	6200	13650	4000	157.5	2500	98.4	5400	212.6	1130	44.5	1140	44.9	6-10	9335	20590	10015	22080
VFHM435	5500	12150	6200	13650	4350	171.3	2625	103.3	5750	226.4	1255	49.4	1265	49.8	6-10	9415	20760	10095	22260
VFHM480	5500	12150	6200	13650	4800	189.0	2775	109.3	6200	244.1	1405	55.3	1415	55.7	6-10	9495	20940	10175	22440
VFHM500	5500	12150	6200	13650	5000	196.9	2875	113.2	6400	252.0	1505	59.3	1515	59.6	6-10	9550	21060	10230	22560
VFHM550	5300	11650	6000	13200	5500	214.5	3130	123.2	6900	271.7	1760	69.3	1770	69.7	3-6	9670	21320	10370	22870
VFHM600	5000	11050	5500	12150	6000	236.2	3300	130.0	7400	291.3	1930	76.0	1940	76.4	3-6	9910	21850	10590	23350
VFHM700	3500	7700	3700	8150	7000	275.6	3675	144.7	8400	330.7	2305	90.7	2315	91.1	3-6	10095	22260	10775	23760
VFHM800	2200	4850	2300	5050	8000	315.0	4100	161.4	9400	370.1	2730	107.5	2740	107.9	3-6	10420	22980	11100	24480

NOTE: (1)For height without backrest: -325mm(-12.8in)
(2)For free lift without backrest: +325mm(+12.8in)
(3)Weight for without backrest: [FD60] -54kg(-120lbs)、[FD70] -59kg(-130lbs)

NOTE: Lifting speed with VFM/VFHM mast: 350mm/s(69fpm) with load,
380mm/s(75fpm) without load.
Lowering speed with VFM/VFHM mast: 320mm/s(63fpm) with load,
250mm/s(49fpm) without load.

■ Wide View Mast VM

Mast Model	Rated Capacity/ 600mm(24 in) Load Center		Max. Fork Height		Overall Mast Height				Tilting Angle Fwd-Bkd	Service Weight	
	FD80Z8				Lowered		Raised with Backrest			FD80Z8	
	kg	lbs	mm	in	mm	in	mm	in	deg	kg	lbs
VM300	8000	17500	3000	118.0	2700	106.3	4420	174.0	6-12	11150	24590
VM330	8000	17500	3300	130.0	2850	112.2	4720	185.8	6-12	11210	24720
VM350	8000	17500	3500	137.8	2950	116.2	4920	193.7	6-12	11250	24810
VM400	8000	17500	4000	157.5	3250	128.0	5420	213.4	6-12	11480	25310
VM450	8000	17500	4500	177.2	3500	137.8	5920	233.1	6-12	11570	25510
VM500	7750	17000	5000	196.9	3750	147.6	6420	252.8	6-6	11670	25730
VM550	7400	16300	5500	216.5	4050	159.5	6920	272.4	3-6	11910	26260
VM600	7000	15400	6000	236.2	4300	169.3	7420	292.1	3-6	12020	26500

■ Wide View Full Free 2-Stage Mast VFM

Mast Model	Rated Capacity/ 600mm(24 in) Load Center		Max. Fork Height		Overall Mast Height				(2)Free Lift with Backrest		Tilting Angle Fwd-Bkd	(3)Service Weight	
	FD80Z8				Lowered		(1)Raised with Backrest					FD80Z8	
	kg	lbs	mm	in	mm	in	mm	in	mm	in	deg	kg	lbs
VFM300	8000	17500	3000	118.0	2700	106.3	4420	174.0	1345	53.0	6-12	11160	24610
VFM330	8000	17500	3300	130.0	2850	112.2	4720	185.8	1495	58.9	6-12	11205	24710
VFM350	8000	17500	3500	137.8	2950	116.1	4920	193.7	1595	62.8	6-12	11240	24780
VFM400	8000	17500	4000	157.5	3250	128.0	5420	213.4	1895	74.6	6-12	11370	25070
VFM450	8000	17500	4500	177.2	3500	137.8	5920	233.1	2145	84.4	6-12	11560	25490

NOTE: (1)For height without backrest: -205mm(-8.1in)
(2)For free lift without backrest: +205mm(+8.1in)
(3)Weight for without backrest: -60kg(-130lbs)

■ Wide View Full Free 3-Stage Mast VFHM

Mast Model	Rated Capacity/ 600mm(24 in) Load Center		Max. Fork Height		Overall Mast Height				(2)Free Lift with Backrest		Tilting Angle Fwd-Bkd	(3)Service Weight	
	FD80Z8				Lowered		(1)Raised with Backrest					FD80Z8	
	kg	lbs	mm	in	mm	in	mm	in	mm	in	deg	kg	lbs
VFHM400	7000	15450	4000	157.5	2575	101.4	5400	212.6	1220	48.0	6-10	11790	26000
VFHM435	7000	15450	4350	171.3	2700	106.3	5750	226.4	1345	53.0	6-10	11850	26130
VFHM480	7000	15450	4800	189.0	2850	112.2	6200	244.1	1495	58.9	6-10	11930	26310
VFHM500	7000	15450	5000	196.9	2950	116.1	6400	252.0	1595	62.8	6-10	11995	26450
VFHM550	6600	14550	5500	214.5	3205	126.2	6900	271.7	1850	72.8	3-6	12090	26660
VFHM600	6000	13250	6000	236.2	3375	132.9	7400	291.3	2020	79.5	3-6	12360	27250
VFHM700	4500	9900	7000	275.6	3750	147.6	8400	330.7	2395	94.3	3-6	12565	27710
VFHM800	2500	5500	8000	315.0	4175	164.4	9400	370.1	2820	111.0	3-6	13315	29360

NOTE: (1)For height without backrest: -205mm(-8.1in)
(2)For free lift without backrest: + 205mm(+ 8.1in)
(3)Weight for without backrest: -60kg(-130lbs)

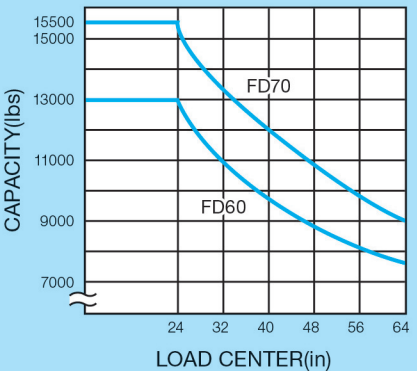
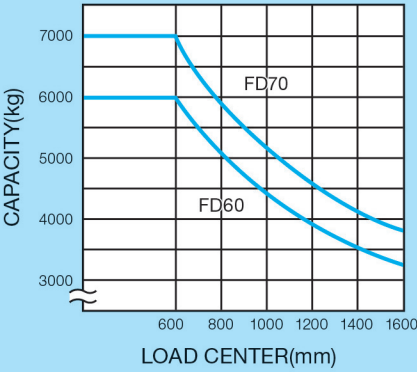
■ Wide View Mast VM

Mast Model	Rated Capacity/ 600mm(24 in) Load Center		Max. Fork Height		Overall Mast Height				Tilting Angle Fwd-Bkd	(3)Service Weight	
					Lowered		Raised with Backrest			FD100Z8	
	kg	lbs	mm	in	mm	in	mm	in	deg	kg	lbs
VM300	10000	22000	3000	118.0	2850	112.2	4330	170.5	6-12	12540	27650
VM330	10000	22000	3300	129.9	3000	118.0	4630	182.3	6-12	12605	27790
VM350	10000	22000	3500	137.8	3100	122.0	4830	190.2	6-12	12650	27890
VM400	10000	22000	4000	157.5	3400	133.9	5330	209.8	6-12	12900	28440
VM450	10000	22000	4500	177.2	3650	143.7	5830	229.5	6-12	13010	28690
VM500	10000	22000	5000	196.9	3900	153.5	6330	249.2	6-6	13110	28910
VM550	9000	19800	5500	216.5	4200	165.4	6830	268.9	3-6	13360	29460
VM600	8000	17600	6000	236.2	4450	175.2	7330	288.6	3-6	13470	29700

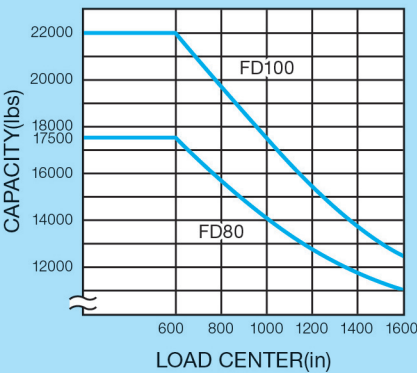
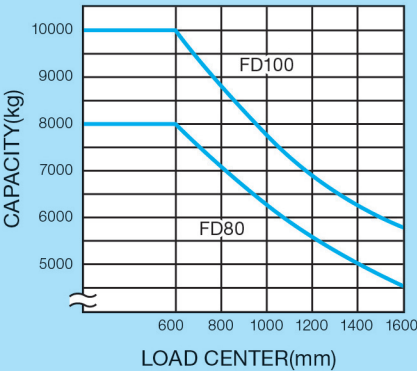
NOTE: Lifting speed with VFM/VFHM mast: [FD80]400mm/s(79fpm) with load,
420mm/s(83fpm) without load.
Lowering speed with VFM/VFHM mast: [FD80]350mm/s(69fpm) with load,
290mm/s(57fpm) without load.

LOAD CHART

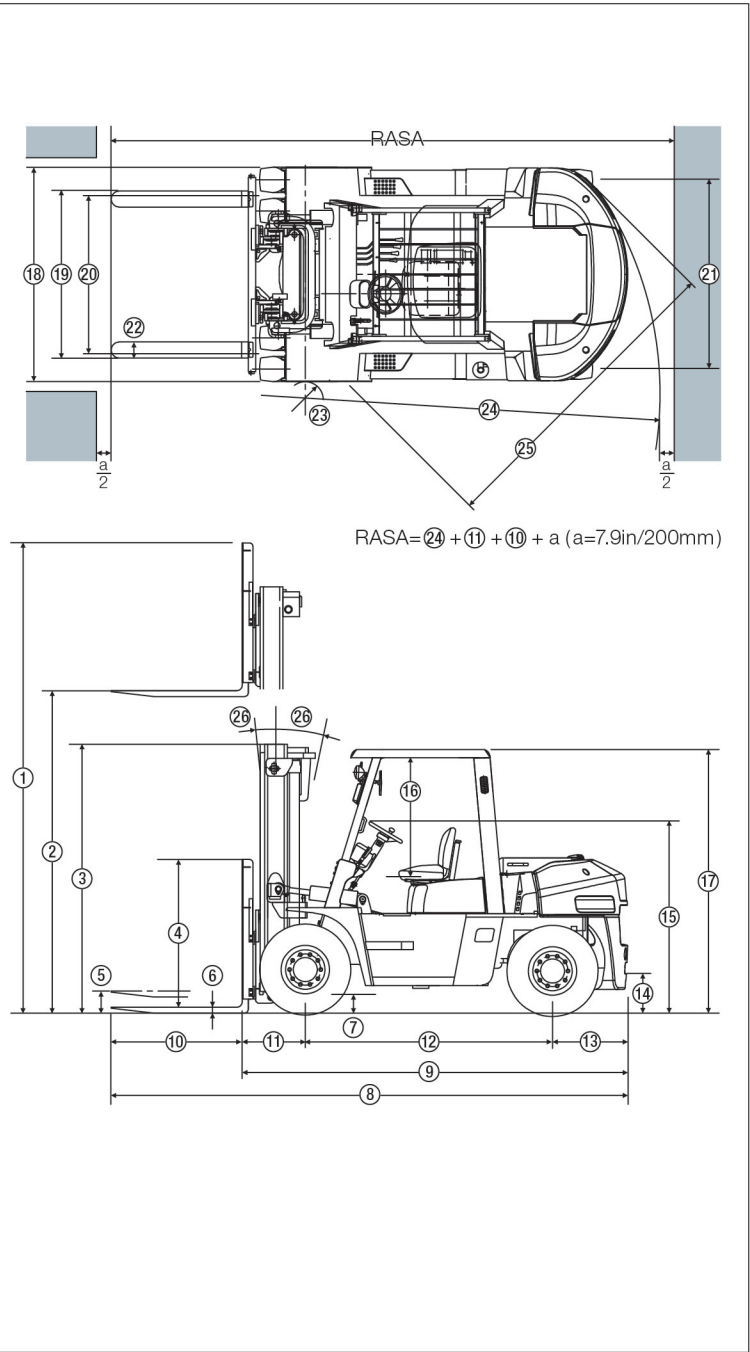
FD60Z8 • FD70Z8



FD80Z8 • FD100Z8



STANDARD DIMENSIONS



GROUND CLEARANCE	FD60Z8	FD70Z8	FD80Z8	FD100Z8
Mast	195(7.7)		245(9.6)	
Frame	230(9.1)		335(13.2)	
Front axle	190(7.5)		265(10.4)	
Rear axle	245(9.7)		325(12.8)	315(12.4)
Counter weight	225(8.9)		310(12.2)	

mm(in)

Model	FD60Z8		FD70Z8		FD80Z8		FD100Z8	
	mm	in	mm	in	mm	in	mm	in
① Overall height,Fork Raised(with backrest)	4420	174.0	4420	174.0	4420	174.0	4330	170.5
② Maximum Fork Height	3000	118.0	3000	118.0	3000	118.0	3000	118.0
③ Mast height,Fork lowered(upright)	2500	98.4	2500	98.4	2700	106.3	2850	112.2
④ Backrest height	1370	53.9	1365	53.7	1360	53.5	-	-
⑤ Free lift	205	8.1	215	8.5	205	8.1	205	8.1
⑥ Fork thickness	60	2.4	70	2.8	75	3.0	75	3.0
⑦ Ground clearance(front axle)	190	7.5	190	7.5	265	10.4	265	10.4
⑧ Overall length(with forks)	4835	190.4	4910	193.3	5175	203.7	5465	215.2
⑨ Length to fork face	3610	142.1	3690	145.3	3980	156.7	4245	167.1
⑩ Fork length	1220	48.0	1220	48.0	1220	48.0	1220	48.0
⑪ Load distance (centerline of front axle to front face of forks)	615	24.2	625	24.6	720	28.3	710	28.0
⑫ Wheelbase	2300	90.6	2300	90.6	2500	98.4	2800	110.2
⑬ Rear overhang	700	27.6	765	30.1	760	29.9	735	28.9
⑭ Drawbar Pin Center Height	420	16.5	420	16.5	570	22.4	570	22.4
⑮ Machine height (without overhead guard and mast)	1780	70.1	1780	70.1	1890	74.4	1890	74.4
⑯ Overhead guard clearance (from face of seat)	1100	43.3	1100	43.3	1100	43.3	1100	43.3
⑰ Overall height(overhead guard)	2450	96.5	2450	96.5	2560	100.8	2560	100.8
⑱ Overall width	1995	78.5	1995	78.5	2165	85.2	2245	88.4
⑲ Fork Spread(outside)	300 ~ 1835	11.8 ~ 72.2	300 ~ 1835	11.8 ~ 72.2	340 ~ 2000	13.4 ~ 78.7	405 ~ 2145	15.9 ~ 84.4
⑳ Tread(front)	1470	57.9	1470	57.9	1600	63.0	1600	63.0
㉑ Tread(rear)	1700	66.9	1700	66.9	1700	66.9	1700	66.9
㉒ Fork width	150	5.9	150	5.9	170	6.7	180	7.1
㉓ Inside turning radius	200	7.9	200	7.9	200	7.9	200	7.9
㉔ Outside turning radius	3360	132.3	3420	134.6	3630	142.9	3880	152.8
㉕ Min.intersecting aisle	3050	120.1	3090	121.7	3295	129.7	3545	139.6
㉖ Tilt range(forward-backward)	6° - 12°		6° - 12°		6° - 12°		6° - 12°	

STANDARD EQUIPMENTS

- Automatic shifting T/M
- Back-up buzzer
- Back-up light
- Charging light
- Column shift direction change
- Convertor oil cooler
- Cyclopak air cleaner with dust indicator
- Documents clip
- Drawbar-pin
- Engine oil pressure warning light
- Fuel gauge
- Full wide carriage
- Glow plug indicator
- Head & turn signal lights
- Horn
- Hour meter
- Key switch engine stop
- Load backrest
- Load check valve
- Long life tires
- Neutral safety switch
- Overhead Guard
- Power brake
- Power steering
- Radiator reserve tank
- Rear view mirrors
- Retaining Rollers
- Starter switch
- Suspension seat
- Tilt adjustable handle
- Tool set
- Water temperature gauge
- Wide View Mast

OPTIONAL EQUIPMENTS & ACCESSORIES

- Catalytic muffler
- Central greasing
- Cold weather spec.
- Fire extinguisher
- Heater
- Overhead exhaust
- Plate fin radiator
- Port relief valves
- Rear working light
- Right hand direction change
- Solid tires
- Spark arrest muffler
- Speedometer
- Steel Cabin
- Steel net on head guard
- Strober light
- Tilt cylinder boots
- Water separator

And others on request.

ATTACHMENTS

- Fork extension sleeves
- Fork positioner
- Hinged Forks
- Load grab
- Long forks
- Ram
- Side shift

etc.

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



TCM yellow color available as an option.



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Note:

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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