

MAST SPECIFICATIONS & RATED CAPACITIES

Mast Type	Mast Name	Max. Fork Height (mm)	Load Capacity (kg)				Overall Height (mm)						Free Lift (mm)				Tilt Angle
							Lowered		Extended				Without Backrest		With Bracket		
			Without Backrest		With Backrest				Without Backrest		With Bracket						
		2.0t	2.5t	3.0t	3.5t	2.0t/2.5t	3.0t/3.5t	2.0t/2.5t	3.0t/3.5t	2.0t/2.5t	3.0t/3.5t	2.0t/2.5t	3.0t/3.5t	2.0t/2.5t	3.0t/3.5t		
2-Stage Wide View Mast	M300	3000	2000	2500	3000	3500	2050	2065	3658	3671	4051	4212	120	125/130	120	125/130	6-12
	M330	3300	2000	2500	3000	3500	2200	2215	3958	3971	4351	4512	120	125/130	120	125/130	6-12
	M350	3500	2000	2500	3000	3500	2300	2315	4158	4171	4551	4712	120	125/130	120	125/130	6-12
	M370	3700	2000	2500	3000	3500	2400	2415	4358	4371	4751	4912	120	125/130	120	125/130	6-12
	M400	4000	2000	2500	2950	3450	2600	2615	4658	4671	5051	5212	120	125/130	120	125/130	6-6
	M450	4500	1950	2300	2700	3200	2850	2865	5158	5171	5551	5712	120	125/130	120	125/130	6-6
	M500	5000	1800	2000	2450	2750	3100	3115	5658	5671	6051	6212	120	125/130	120	125/130	6-6
3-Stage Wide View Mast Full Free Wide View Mast	TFM400	4000	2000 *2000	2500 *2500	2950 *3000	3450 *3500	1995	2010	4662	4675	5055	5216	1407	1419	1014	878	6-6
	TFM435	4350	2000 *2000	2500 *2500	2950 *3000	3450 *3500	2095	2110	5012	5025	5405	5566	1507	1519	1114	978	6-6
	TFM450	4500	1950 *2000	2500 *2500	2850 *3000	3300 *3350	2145	2160	5162	5175	5555	5716	1557	1569	1164	1028	6-6
	TFM480	4800	1900 *1950	2300 *2500	2750 *2950	3100 *3300	2245	2260	5462	5475	5855	6016	1657	1669	1264	1128	6-6
	TFM500	5000	1700 *1900	2100 *2450	2550 *2850	2750 *3100	2345	2360	5662	5675	6055	6216	1757	1769	1364	1228	6-6
	TFM550	5500	1300 *1850	1600 *2350	1700 *2750	1900 *3000	2480	2495	6166	6179	6559	6720	1892	1904	1499	1363	3-6
	TFM600	6000	1050 *1700	1250 *2300	1350 *2700	1500 *2900	2645	2660	6662	6675	7055	7216	2057	2069	1664	1528	3-6

Note: With side shifter, load capacity subtract 200Kg.

* (Asterisk) is for double front wheels model.



UN FORKLIFT

F SERIES FORKLIFT TRUCK

Capacity 2.0 ton-3.5 ton (Diesel / Gasoline / LPG)

F Series, the latest internal combustion forklift has undergone a comprehensive redesign led by professional design company. This brand new design brings significant enhancements to both its appearance and performance.



CE CERTIFICATE



ISO14001 2004



ISO9001 2004

APPEARANCE ★

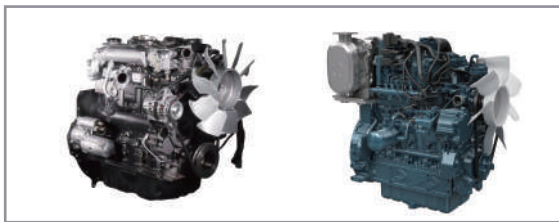
This series has smooth and streamlined body, giving a more powerful look. The sharp edges and contrast color design of the counterweight make it more attractive.

The electrical system utilizes dynamic LED taillights, imparting a futuristic and highly technological appeal to the vehicle, creating a strong visual impact.

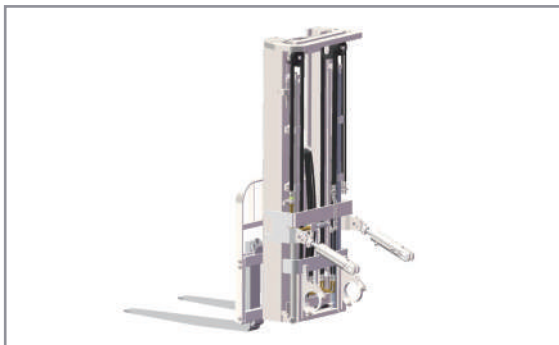


PERFORMANCE ★★

Using internationally renowned Stage V/Tier4F, Mitsubishi 4EG, Kubota and GCT engines, featuring low emissions, high performance, and durability.



Utilizing the new narrow-groove steel mast to reduce the overall vehicle weight & enhance visibility.



Equipped with an interactive dashboard as standard for real-time monitoring.



The new generation LED lighting system not only enhances energy efficiency but also improves the performance and lifespan.



Standard equipped with a load sensing steering system to enhance operational efficiency.



Use a large turning angle steering axle to reduce the turning radius of the truck.



SAFETY ★★★

The stamped overhead guard offers increased durability and reliability, significantly reducing the potential harm from impacts, collapses, or other accidents.



Universal molding of exterior parts enhance production efficiency, facilitates maintenance and replacement.

To enhance protection ratings, all key connectors and joints are waterproof.

The OPS system effectively prevents unintended forklift startup, enhancing overall driving safety.

SUPERIOR ★★★★★ ERGONOMICS

The wide-view mast provides a broader vision.



Implementing a suspension seat (option) has reduced vibrations, alleviated fatigue, and enhanced operational comfort.



The spacious foot space provides easy access for getting on and off, significantly enhancing operational comfort.



The adjustable steering column equip with a small steering wheel for more effortless operation.



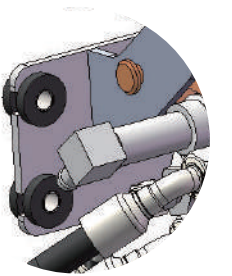
Adopting a new type of ratchet handbrake, effectively reducing operating force.



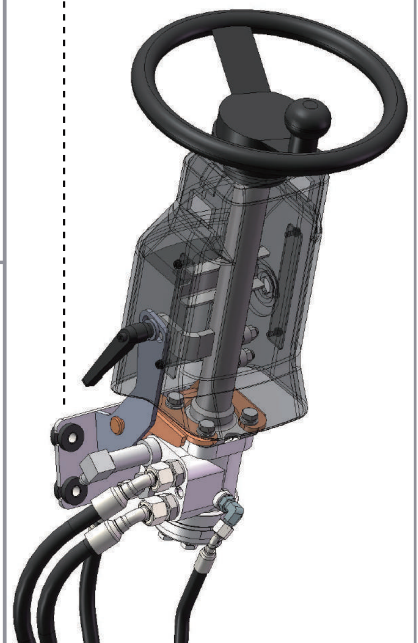
New-type foot brakes achieve smooth braking and reduce vibrations.



The steering column bracket equipped with standard cushion pads, reducing steering wheel vibration and improving comfort.



Cushion pads



EASY MAINTENANCE

The detachable side panels make maintenance and cleaning more convenient.

The large opening angle of the engine hood makes it easier to access internal components of the forklift, facilitating easier maintenance.



MAN SPECIFICATIONS							
General	1	Manufacturer	UN				
	2	Model	FD20T	FD25T	FD30T	FD35T	
	3	Power Type	Diesel	Diesel	Diesel	Diesel	
	4	Rated Load Capacity	Q(kg)	2000	2500	3000	3500
	5	Load Centre	C(mm)	500	500	500	500
Characteristic & Dimension	6	Rated Lift Height	H3(mm)	3000	3000	3000	3000
	7	Free Lift Height	H2(mm)	120	120	125	130
	8	Fork Size (L×W×T)	mm	1070×100×40	1070×122×40	1070×122×45	1070×122×50
	9	Mast Tilt Angle (F/R, α°/β°)	deg	6°/12°	6°/12°	6°/12°	6°/12°
	10	Fork Overhang (Wheel Center to Fork Face)	X1(mm)	462	462	467	472
	11	Rear Overhang	X2(mm)	550	550	530	600
	12	Ground Clearance (Bottom of Mast)	H7(mm)	110	110	125	125
	13	Length to Face of Fork (Without Fork)	L1(mm)	2662	2662	2697	2772
	14	Overall Width	B1(mm)	1180	1180	1220	1220
	15	Mast Lowered Height	H1(mm)	2100	2100	2115	2115
	16	Mast Extended Height (With Backrest)	H4(mm)	4198	4198	4213	4213
	17	Overhead Guard Height	H5(mm)	2215	2215	2235	2235
	18	Turning Radius (Outside)	Wa(mm)	2365	2365	2450/2425	2500
	19	Min.Aisle width for pallets	As1(mm)	4120	4120	4120/4180	4255
Performance	20	Travel Speed (No Load)	km/h	19	19	19	19
	21	Lifting Speed (Full Load)	mm/sec	587	552	485	468
	22	Lowering Speed(Full Load/No Load)	mm/sec	≤600/≥300	≤600/≥300	≤600/≥300	≤600/≥300
	23	Max.Drawbar Pull (Full Load/No Load)	KN	14.85-22.73/14.6-22.11	14.85-22.73/14.6-22.11	14.86-22.83/14.55-22.07	14.85-22.89/14.45-21.96
	24	Max.Gradeability (Full Load)	%	22-34	22-34	19-30	17-26
Chassis	25	Tyre (Front x 2)	mm	7.00-12-12PR	7.00-12-12PR	28×9-15-14PR	28×9-15-14PR
	26	Tyre (Rear x 2)	mm	6.00-9-10PR	6.00-9-10PR	6.50-10-10PR	6.50-10-10PR
	27	Front Tread	B2(mm)	970	970	1000	1000
	28	Rear Tread	B3(mm)	980	980	980	980
	29	Wheelbase	Y(mm)	1650	1650	1700	1700
Weight	30	Total Weight	kg	3889	4129	4479	4839
	31	Front Axle Weight Distribution (Full Load)	kg	5123	5893	6725	7424
	32	Rear Axle Weight Distribution (Full Load)	kg	1765	1235	749	909
	33	Front Axle Weight Distribution (No Load)	kg	1941	1917	2016	1911
	34	Rear Axle Weight Distribution (No Load)	kg	1941	2209	2463	2928
Power & Transmission	35	Battery	V/Ah	12/90	12/90	12/90	12/90
	36	Engine Model	D04EG(EPA IV) / V2403(EPA IV/Eu V) / S4S(Eu III) / C240PKJ30(Eu III) / D24(Eu V) / 3E22YG51(Eu V) / A498BPG-521(Eu III) / C490BPG-237 (CN II)				
	37	Engine Manufacturer	MITSUBISHI / KUBOTA / MITSUBISHI / ISUZU / DOOSAN / XINCHAI / XINCHAI / XINCHAI				
	38	Fuel Tank Capacity	L	60	60	60	60
	39	Transmission Type	HYDRAULIC	HYDRAULIC	HYDRAULIC	HYDRAULIC	
	40	Transmission Stage (FWD/RVS)		1/1	1/1	1/1	1/1
	41	Operating Pressure (For Attachments)	Mpa	18.5	18.5	18.5	20.5
	42	Rated Output (r.p.m.)	kw	37.4/2500	37.4/2500	37.4/2500	37.4/2500
43	Rated Torque (r.p.m.)	N·m	176.5/1600	176.5/1600	176.5/1600	176.5/1600	
44	No. of Cylinder		4	4	4	4	
45	Bore x Stroke	mm	92×93	92×93	92×93	92×93	
46	Displacement	cc	2472	2472	2472	2472	
47	Fuel Tank Capacity	L	60	60	60	60	
48	Transmission Type		HYDRAULIC	HYDRAULIC	HYDRAULIC	HYDRAULIC	
49	Transmission Stage (FWD/RVS)		1/1	1/1	1/1	1/1	
50	Operating Pressure (For Attachments)	Mpa	18.5	18.5	18.5	20.5	

ENGINE

MITSUBISHI

Model: D04EG(EPA IV)
Rated output: 36KW/2250RPM
Rated torque: 177N.M/1800RPM
No. of cylinder: 4
Bore × Stroke: 94x120MM
Displacement: 3331CC

MITSUBISHI

Model: S4S(Eu III)
Rated output: 35.3KW/2250RPM
Rated torque: 177N.M/1700RPM
No. of cylinder: 4
Bore × Stroke: 94x120MM
Displacement: 3331CC

KUBOTA

Model: V2403(EPA IV/Eu V)
Rated output: 43.2KW/2400RPM
Rated torque: 198.5N.M/1500RPM
No. of cylinder: 4
Bore × Stroke: 90x105MM
Displacement: 2670CC

DOOSAN

Model: D24(Eu V)
Rated output: 48.2KW/2600RPM
Rated torque: 214N.M/1600RPM
No. of cylinder: 4
Bore × Stroke: 90x94MM
Displacement: 2392CC

XINCHAI

Model: 3E22YG51(Eu V)
Rated output: 44.8KW/2400RPM
Rated torque: 210N.M/1600-1800RPM
No. of cylinder: 4
Bore × Stroke: 94x107MM
Displacement: 2230CC

XINCHAI

Model: A498BPG-521(Eu III)
Rated output: 193KW/1800RPM
Rated torque: 193N.M/1800RPM
No. of cylinder: 4
Bore × Stroke: 98X105MM
Displacement: 3168CC

XINCHAI

Model: C490BPG-237 (CN II)
Rated output: 156KW/1800RPM
Rated torque: 156N.M/1800RPM
No. of cylinder: 4
Bore × Stroke: 90X105MM
Displacement: 2670CC

ISUZU

Model: C240PKJ30(Eu III)
Rated output: 34.5KW/2500RPM
Rated torque: 139N.M/1800RPM
No. of cylinder: 4
Bore × Stroke: 86x102MM
Displacement: 2369CC

MAN SPECIFICATIONS											
General	1	Manufacturer	UN								
	2	Model	FGL20T	FGL25T	FGL30T	FGL35T	FL20T	FL25T	FL30T	FL35T	
	3	Power Type	Gasoline/LPG				LPG				
	4	Rated Load Capacity	Q(kg)	2000	2500	3000	3500	2000	2500	3000	3500
	5	Load Centre	C(mm)	500	500	500	500	500	500	500	500
Characteristic & Dimension	6	Rated Lift Height	H3(mm)	3000	3000	3000	3000	3000	3000	3000	3000
	7	Free Lift Height	H2(mm)	120	120	125	130	120	120	125	130
	8	Fork Size (L×W×T)	mm	1070×100×40	1070×122×40	1070×122×45	1070×122×50	1070×100×40	1070×122×40	1070×122×45	1070×122×50
	9	Mast Tilt Angle (F/R, α°/β°)	deg	6°/12°	6°/12°	6°/12°	6°/12°	6°/12°	6°/12°	6°/12°	6°/12°
	10	Fork Overhang (Wheel Center to Fork Face)	X1(mm)	462	462	467	472	462	462	467	472
	11	Rear Overhang	X2(mm)	550	550	530	600	550	550	530	600
	12	Ground Clearance (Bottom of Mast)	H7(mm)	110	110	125	125	110	110	125	125
	13	Length to Face of Fork (Without Fork)	L1(mm)	2662	2662	2697	2772	2662	2662	2697	2772
	14	Overall Width	B1(mm)	1180	1180	1220	1220	1180	1180	1220	1220
	15	Mast Lowered Height	H1(mm)	2100	2100	2115	2115	2100	2100	2115	2115
	16	Mast Extended Height (With Backrest)	H4(mm)	4198	4198	4213	4213	4198	4198	4213	4213
	17	Overhead Guard Height	H5(mm)	2215	2215	2235	2235	2215	2215	2235	2235
	18	Turning Radius (Outside)	Wa(mm)	2365	2365	2425	2500	2365	2365	2425	2500
	19	Min.Aisle width for pallets	As1(mm)	4120	4120	4180	4255	4120	4120	4180	4255
Performance	20	Travel Speed (No Load)	km/h	20	20	20	20	20/19	20/19	20/19	20
	21	Lifting Speed (Full Load)	mm/sec	523	523	439	439	523/551	523/551	439/479	439/479
	22	Lowering Speed(Full Load/No Load)	mm/sec	≤600/≥300	≤600/≥300	≤600/≥300	≤600/≥300	≤600/≥300	≤600/≥300	≤600/≥300	≤600/≥300
	23	Max.Drawbar Pull (Full Load/No Load)	KN	19.6/19.1	19.6/19.1	19.6/19.1	19.7/19	19.6/19.1	19.6/19.1	19.6/19.1	19.7/19
	24	Max.Gradeability (Full Load)	%	29	29	26	23	29	29	26/25	23/22
Chassis	25	Tyre (Front x 2)	mm	7.00-12-12PR	7.00-12-12PR	28×9-15-14PR	28×9-15-14PR	7.00-12-12PR	7.00-12-12PR	28×9-15-14PR	28×9-15-14PR
	26	Tyre (Rear x 2)	mm	6.00-9-10PR	6.00-9-10PR	6.50-10-10PR	6.50-10-10PR	6.00-9-10PR	6.00-9-10PR	6.50-10-10PR	6.50-10-10PR
	27	Front Tread	B2(mm)	970	970	1000	1000	970	970	1000	1000
	28	Rear Tread	B3(mm)	980	980	980	980	980	980	980	980
	29	Wheelbase	Y(mm)	1650	1650	1700	1700	1650	1650	1700	1700
Weight	30	Total Weight	kg	3777	4017	4367	4727	3777 / 3790	4017 / 4030	4367 / 4380	4727 / 4740
	31	Front Axle Weight Distribution (Full Load)	kg	5026	5794	6630	7330	5026 / 5037	5794 / 5805	6630 / 6642	7330 / 7342
	32	Rear Axle Weight Distribution (Full Load)	kg	1751	1223	737	897	1751 / 1753	1223 / 1225	737 / 738	897 / 898
	33	Front Axle Weight Distribution (No Load)	kg	1889	1868	1965	1867	1889 / 1895	1868 / 1874	1965 / 1971	1867 / 1872
	34	Rear Axle Weight Distribution (No Load)	kg	1889	2149	2402	2860	1889 / 1895	2149 / 2156	2402 / 2409	2860 / 2868
Power & Transmission	35	Battery	V/Ah	12/60	12/60	12/60	12/60	12/60	12/60	12/60	12/60
	36	Engine Model	GK25 (Eu III)								
	37	Engine Manufacturer	GCT	GCT	GCT	GCT	GCT / HYUNDAI	GCT / HYUNDAI	GCT / HYUNDAI	GCT / HYUNDAI	
	38	Rated Output / r.p.m.	kw	37.4/2500	37.4/2500	37.4/2500	37.4/2500	37.4/2500 45.1/2600	37.4/2500 45.1/2600	37.4/2500 45.1/2600	37.4/2500 45.1/2600
	39	Rated Torque / r.p.m.	N·m	176.5/1600	176.5/1600	176.5/1600	176.5/1600	176.5/1600 171/1900	176.5/1600 171/1900	176.5/1600 171/1900	176.5/1600 171/1900
	40	No. of Cylinder		4	4	4	4	4	4	4	4
	41	Bore x Stroke	mm	92×93	92×93	92×93	92×93	92×93 / 88×97	92×93 / 88×97	92×93 / 88×97	92×93 / 88×97
	42	Displacement	cc	2472	2472	2472	2472	2472 / 2359	2472 / 2359	2472 / 2359	2472 / 2359
	43	Fuel Tank Capacity	L	60	60	60	60	60	60	60	60
	44	Transmission Type		HYDRAULIC	HYDRAULIC	HYDRAULIC	HYDRAULIC	HYDRAULIC	HYDRAULIC	HYDRAULIC	HYDRAULIC
	45	Transmission Stage (FWD/RVS)		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
46	Operating Pressure (For Attachments)	Mpa	18.5	18.5	18.5	20.5	18.5	18.5	18.5	20.5	

