

FGM15~35(C)PT(H)E

Internal Combustion Pneumatic Tyre Forklift Trucks



1.5~3.5 Tons

Preliminary Specification Sheet

Characteristics			TCM	TCM	TCM	TCM	TCM
1.01	Manufacturer (abbreviation)		FGM15PTE	FGM18PTE	FGM20CPTe	FGM20PTE	FGM20PTE
1.02	Manufacturer's model designation		Petrol/LPG	Petrol/LPG	Petrol/LPG	Petrol/LPG	Petrol/LPG
1.03	Power source: (battery, diesel, LP gas, petrol)		Seated	Seated	Seated	Seated	Seated
1.04	Operator type: pedestrian, (operator)-standing, -seated		1500	1750	2000	2000	2000
1.05	Load capacity	Q (kg)	500	500	500	500	500
1.06	Load center distance	c (mm)	400	400	415	455	455
1.08	Load distance, axle to fork face	x (mm)	1400	1400	1400	1600	1600
1.09	Wheelbase	y (mm)					
Weight							
2.01	Truck weight, without load / including battery (simplex mast, lowest lift height)	kg	2490	2690	3010	3300	3300
2.02	Truck weight, with maximum load, front/rear (simplex mast, lowest lift height)	kg	3510/460	3870/540	4320/660	4600/670	4600/670
2.03	Truck weight, without load, front/rear (simplex mast, lowest lift height)	kg	1040/1430	990/1670	1010/1970	1410/1860	1410/1860
Wheels, Drive Train							
3.01	Tyres: V=solid, L=pneumatic, SE=solid pneumatic - front/rear		L / L	L / L	SE / SE	L / L	L / L
3.02	Tyre dimensions, front		6.50-10	6.50-10	6.50-10 / 5.00	7.00-12	7.00-12
3.03	Tyre dimensions, rear		5.00-8	5.00-8	5.00-8/3.00	6.00-9	6.00-9
3.05	Number of wheels, front/rear (x=driven)		2x / 2	2x / 2	2x / 2	2x / 2	2x / 2
3.06	Track width (center of tyres), front	b10 (mm)	890	890	890	960	960
3.07	Track width (center of tyres), rear	b11 (mm)	900	900	900	980	980
Dimensions							
4.01	Mast tilt, forwards/backwards	α/β	6/12	6/12	6/12	6/12	6/12
4.02	Height with mast lowered (see tables)	h1 (mm)	1990	1990	1990	1990	1990
4.03	Free lift (see tables)	h2 (mm)	115	115	120	140	140
4.04	Lift height (see tables)	h3 (mm)	3000	3000	3000	3000	3000
4.05	Overall height with mast raised	h4 (mm)	4055	4055	4055	4055	4055
4.07	Height to top of overhead guard	h6 (mm)	2065	2065	2065	2074	2074
4.08	Seat height	h7 (mm)	929	929	929	938	938
4.12	Tow coupling height	h10 (mm)	290	290	290	310	310
4.19	Overall length	l1 (mm)	3180	3220	3275	3405	3405
4.20	Length to fork face (includes fork thickness)	l2 (mm)	2260	2300	2355	2485	2485
4.21	Fork length	l3 (mm)	920	920	920	920	920
4.22	Overall width	b1/b2 (mm)	1065/-	1065/-	1065/-	1150 / 1640	1150 / 1640
4.23	Fork dimensions (thickness, width, length)	s / e / l (mm)	35x100x920	35x100x920	45x100x920	45x100x920	45x100x920
4.24	Fork carriage to DIN 15 173 A/B/no		2A	2A	2A	2A	2A
4.31	Ground clearance under mast, with load	m1 (mm)	110	110	110	115	115
4.32	Ground clearance at center of wheelbase, with load (forks lowered)	m2 (mm)	150	150	150	160	160
4.33	Working aisle width with 1000 x 1200 mm pallets, crosswise	Ast (mm)	3550	3580	3635	3855	3855
4.34	Working aisle width with 800 x 1200 mm pallets, crosswise	Ast (mm)	3350	3380	3435	3655	3655
4.34a	Working aisle width with 800 x 1200 mm pallets, lengthwise		3750	3780	3835	4055	4055
4.35	Turning circle radius	Wa (mm)	1950	1980	2020	2200	2200
4.36	Minimum distance between centers of rotation	b13 (mm)	555	555	555	715	715
Performance							
5.01	Travel speed, with/without load	km/h	19.0/19.5	19.0/19.5	19.0/19.5	18.5/19.0	18.5/19.0
5.02	Lifting speed, with/without load	m/s	0.63 / 0.64	0.63 / 0.64	0.63 / 0.64	0.58 / 0.58	0.64 / 0.64
5.03	Lowering speed, with/without load	m/s	0.52 / 0.45	0.52 / 0.45	0.52 / 0.45	0.51 / 0.45	0.51 / 0.45
5.05	Rated drawbar pull, with load	N	14800/15700	14800/15600	14600/15500	14900/15800	16300/18100
5.05	Rated drawbar pull, without load	N	7500/7500	7100/7100	7200/7200	10100/10100	10100/10100
5.06	Maximum drawbar pull, with/without load (5 min short duty)	N	-/-	-/-	-/-	-/-	-/-
5.07	Gradeability, with load	%	41/43	36/38	31/33	30/32	33/37
5.07	Gradeability, without load	%	25/25	22/22	20/20	26/26	26/26
5.08	Maximum gradeability, with/without load	%	-/-	-/-	-/-	-/-	-/-
5.09	Acceleration time (10 metres) with/without load	s	-/-	-/-	-/-	-/-	-/-
5.10	Service brakes (mechanical/hydraulic/electric/pneumatic)		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
IC Engine							
7.01	Manufacturer / Type		GCT GK21	GCT GK21	GCT GK21	GCT GK21	GCT GK25
7.02	Rated / Nominal output to ISO 1585**	kW	40.0/43.0	40.0/43.0	40.0/43.0	46.0/47.0	46.0/47.0
7.03	Rated speed to DIN 70 020	rpm	2700/2700	2700/2700	2700/2700	2700/2700	2700/2700
7.04	Number of cylinders / cubic capacity	cm³	4 / 2065	4 / 2065	4 / 2065	4 / 2065	4 / 2488
7.05	Fuel consumption according to VDI 60 cycle	l/h / kg/h	-/-	-/-	-/-	-/-	-/-
7.05	Fuel consumption according to VDI 80 cycle	l/h / kg/h	-/-	-/-	-/-	-/-	-/-
7.06	Max torque	Nm	153/161	153/161	153/161	153/161	168/190
7.07	Max torque at engine speed	rpm	1800/1800	1800/1800	1800/1800	1800/1800	1600/1600
Miscellaneous							
8.01	Type of drive control		Powershift 1/1	Powershift 1/1	Powershift 1/1	Powershift 1/1	Powershift 1/1
8.02	Maximum operating pressure for attachments	bar	180	180	180	180	180
8.03	Oil flow for attachments	l/min	60	60	60	60	60
8.04	Noise level, value at operator's ear (EN 12053)	dB(A)	(79)	(79)	(79)	(79)	(79)
8.05	Towing coupling design / DIN type, ref.	Pin	Pin	Pin	Pin	Pin	Pin

*Information may be subjected to change or update

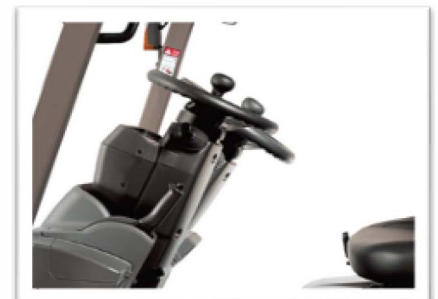
COMFORT AND EASY OPERATION

Suspension seat with hip support mechanism. Ability to adjust position and extent of reclining according to body shape for maximum comfort. Seat belt fitted with warning light. Soft-grip handle makes getting in and out easier.

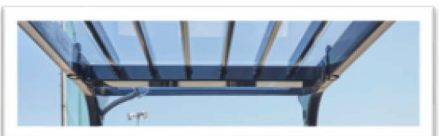


Switches for optional functions positioned on the right side of the dashboard.

Tiltable steering column



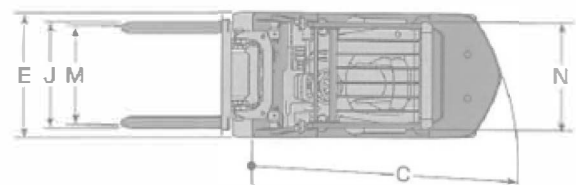
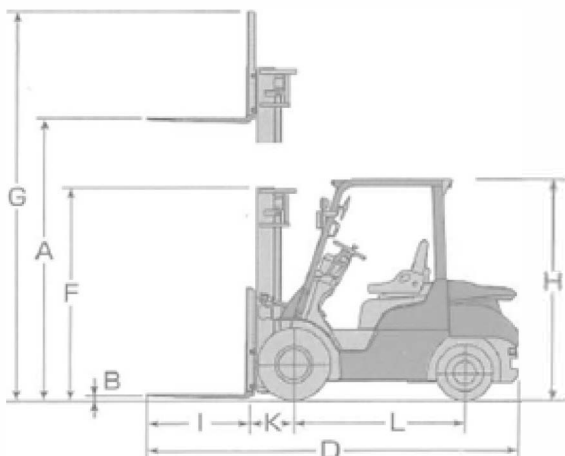
Fully hydraulic power steering
The full hydraulic steering allows for effortless steering even if truck is in a stationary position.



Acrylic roof for comfortable operation in outdoor conditions. Easily installed and uninstalled.

Characteristics					TCM	TCM	TCM	TCM
1.01	Manufacturer (abbreviation)				TCM	TCM	TCM	TCM
1.02	Manufacturer's model designation				FGM25PTE	FGM25PTE	FGM30PTE	FGM35PTE
1.03	Power source (battery, diesel, LP gas, petrol)				Petrol/LPG	Petrol/LPG	Petrol/LPG	Petrol/LPG
1.04	Operator type: pedestrian, operator/standing, seated				Seated	Seated	Seated	Seated
1.05	Load capacity	Q (kg)			2500	2500	3000	3500
1.06	Load center distance	c (mm)			500	500	500	500
1.08	Load distance, axle to fork face	x (mm)			460	460	495	495
1.09	Wheelbase	y (mm)			1600	1600	1700	1700
Weight								
2.01	Truck weight, without load / including battery (simplex mast, lowest lift height)			kg	3600	3600	4240	4630
2.02	Axle loading with maximum load, front/rear (simplex mast, lowest lift height)			kg	5390/680	5390/680	6470/770	7180/950
2.03	Axle loading without load, front/rear (simplex mast, lowest lift height)			kg	1390/2180	1390/2180	1710/2530	1630/3000
Wheels, Drive Train								
3.01	Tyres V=solid, L=pneumatic, SE=solid pneumatic - front/rear				L / L	L / L	L / L	L / L
3.02	Tyre dimensions, front				7.00-12	7.00-12	28x9-15	250-15
3.03	Tyre dimensions, rear				6.00-9	6.00-9	6.50-10	6.50-10
3.05	Number of wheels, front/rear (x=driven)				2x / 2	2x / 2	2x / 2	2x / 2
3.06	Track width (center of tyres), front		b10	(mm)	960	960	1060	1060
3.07	Track width (center of tyres), rear		b11	(mm)	980	980	980	980
Dimensions								
4.01	Mast tilt, forwards/backwards		θ/β	°	6/12	6/12	6/12	6/12
4.02	Height with mast lowered (see tables)		h1	(mm)	1990	1990	2015	2130
4.03	Free lift (see tables)		h2	(mm)	140	140	145	145
4.04	Lift height (see tables)		h3	(mm)	3000	3000	3000	3000
4.05	Overall height with mast raised		h4	(mm)	4055	4055	4055	4055
4.07	Height to top of overhead guard		h6	(mm)	2074	2074	2093	2103
4.08	Seat height		h7	(mm)	938	938	988	988
4.12	Tow coupling height		h10	(mm)	310	310	330	340
4.19	Overall length		l1	(mm)	3480	3480	3805	3865
4.20	Length to fork face (includes fork thickness)		l2	(mm)	2560	2560	2735	2795
---	Fork length			(mm)	920	920	1070	1070
4.21	Overall width		b1/b2	(mm)	1150 / 1640	1150 / 1640	1275/1710	1290/1710
4.22	Fork dimensions (thickness, width, length)		s / e / l	(mm)	45x100x920	45x100x920	45x122x1070	45x122x1070
4.23	Fork carriage to DIN 15 173 A/B/no				2A	2A	3A	3A
4.24	Fork carriage width		b3	(mm)	1000	1000	1000	1000
4.31	Ground clearance under mast, with load		m1	(mm)	115	115	135	150
4.32	Ground clearance at center of wheelbase, with load (forks lowered)		m2	(mm)	160	160	190	200
4.33	Working aisle width with 1000x1200 mm pallets, crosswise		As1	(mm)	3890	3890	4075	4135
4.34	Working aisle width with 800 x1200 mm pallets, crosswise		As2	(mm)	3690	3690	3875	3935
4.34a	Working aisle width with 800 x1200 mm pallets, lengthwise				4090	4090	4275	4335
4.35	Turning circle radius		Wa	(mm)	2230	2230	2380	2440
4.36	Minimum distance between centers of rotation		b13	(mm)	715	715	780	780
Performance								
5.01	Travel speed, with/without load			km/h	18.5/19.0	18.5/19.0	18.0/18.5	18.5/19.0
5.02	Lifting speed, with/without load			m/s	0.58/ 0.58	0.64 / 0.64	0.51 / 0.50	0.43 / 0.42
5.03	Lowering speed, with/without load			m/s	0.51 / 0.45	0.51 / 0.45	0.51 / 0.41	0.43 / 0.31
5.05	Rated drawbar pull, with load			N	14700/15600	16100/17900	16400/18300	15600/17400
5.05	Rated drawbar pull, without load			N	10100/10100	10100/10100	12200/12200	11400/11400
5.06	Maximum drawbar pull, with/without load (5 min short duty)			N	-/-	-/-	-/-	-/-
5.07	Gradeability, with load			%	25/27	27/31	23/26	19/22
5.07	Gradeability, without load			%	24/24	24/24	25/25	21/21
5.08	Maximum gradeability, with/without load			%	-/-	-/-	-/-	-/-
5.09	Acceleration time (10 metres) with/without load			s	-/-	-/-	-/-	-/-
5.10	Service brakes (mechanical/hydraulic/electric/pneumatic)				Hydraulic	Hydraulic	Hydraulic	Hydraulic
IC Engine								
7.01	Manufacturer / Type				GCT GK21	GCT GK25	GCT GK25	GCT GK25
7.02	Rated / Nominal output to ISO 1585**			kW	40 / 43.0	46 / 047.0	46 / 047.0	46 / 047.0
7.03	Rated speed to DIN 70 020			rpm	2700/2700	2700/2700	2700/2700	2700/2700
7.04	Number of cylinders / cubic capacity			cm³	4 / 2065	4 / 2488	4 / 2488	4 / 2488
7.05	Fuel consumption according to VDI 60 cycle			l/h / kg/h	- / -	- / -	- / -	- / -
7.05	Fuel consumption according to VDI 80 cycle			l/h / kg/h	- / -	- / -	- / -	- / -
7.06	Max torque			Nm	153/161	168/190	168/190	168/190
7.07	Max torque at engine speed			rpm	1800/1800	1600/1600	1600/1600	1600/1600
Miscellaneous								
8.01	Type of drive control				Powershift 1/1	Powershift 1/1	Powershift 1/1	Powershift 1/1
8.02	Maximum operating pressure for attachments			bar	180	180	180	180
8.03	Oil flow for attachments			l/min	60	60	60	60
8.04	Noise level, value at operator's ear (EN 12053)			dB(A)	(79)	(79)	(79)	(79)
8.05	Towing coupling design / DIN type, ref				Pin	Pin	Pin	Pin

***Information may be subjected to change or update**





TCM

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Note:

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