

TECHNICAL SPECIFICATIONS

FD/FGE15-35(C)-E3

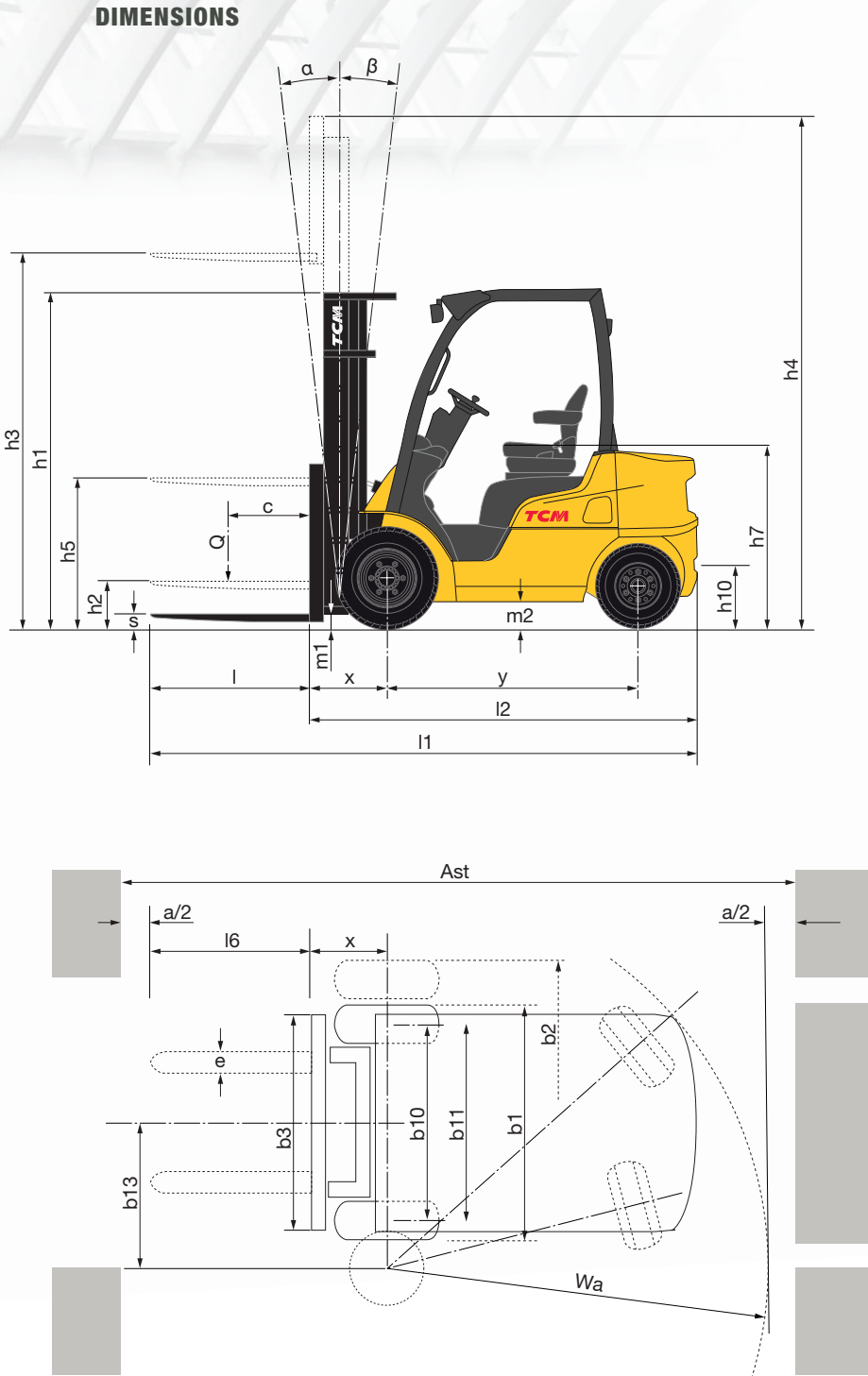


FD/FGE15-35(C)-E3

STANDARD SPECIFICATIONS

CHARACTERISTICS									
1.01	Manufacturer		TCM Forklifts - LPG						
1.02	Manufacturer's model designation		FGE15-E3	FGE18-E3	FGE20C-E3	FGE20-E3	FGE25-E3	FGE30-E3	FGE35-E3
1.03	Power source: (battery, diesel, LP gas, petrol)		LPG	LPG	LPG	LPG	LPG	LPG	LPG
1.04	Operator type: pedestrian, (operator)-standing, -seated		Seated	Seated	Seated	Seated	Seated	Seated	Seated
1.05	Load capacity	Q	(kg)	1500	1750	2000	2000	2500	3000
1.06	Load center distance	c	(mm)	500	500	500	500	500	500
1.08	Load distance, axle to fork face	x	(mm)	400	400	415	455	460	495
1.09	Wheelbase	y	(mm)	1400	1400	1400	1600	1600	1700
WEIGHT									
2.01	Truck weight, without load / including battery (simplex mast, lowest lift height)		kg	2530	2720	3040	3320	3600	4230
2.02	Axle loading with maximum load, front/rear (simplex mast, lowest lift height)		kg	3530 / 500	3900 / 570	4340 / 700	4630 / 690	5380 / 720	6410 / 820
2.03	Axle loading without load, front/rear (simplex mast, lowest lift height)		kg	1030 / 1500	980 / 1740	990 / 2050	1400 / 1920	1340 / 2260	1620 / 2610
WHEELS, DRIVE TRAIN									
3.01	Tyres: V=solid, L=pneumatic, SE=solid pneumatic - front/rear			SE / SE	SE / SE	SE / SE	SE / SE	SE / SE	SE / SE
3.02	Tyre dimensions, front			6.50-10	6.50-10	6.50-10	7.00-12	7.00-12	28x9-15
3.03	Tyre dimensions, rear			5.00-8	5.00-8	5.00-8	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	2x / 2	2x / 2
3.06	Track width (centre of tyres), front	b10	(mm)	890	890	890	960	960	1060
3.07	Track width (centre of tyres), rear	b11	(mm)	900	900	900	980	980	980
DIMENSIONS									
4.01	Mast tilt, forwards/backwards	α / β	°	6 / 10	6 / 10	6 / 10	6 / 10	6 / 10	6 / 10
4.02	Height with mast lowered (see tables)	h1	(mm)	2140	2140	2140	2145	2145	2165
4.03	Free lift (see tables)	h2	(mm)	115	115	115	140	140	140
4.04	Lift height (see tables)	h3	(mm)	3300	3300	3300	3300	3300	3300
4.05	Overall height with mast raised	h4	(mm)	4355	4355	4355	4355	4355	4355
4.07	Height to top of overhead guard	h6	(mm)	2140	2140	2140	2145	2145	2165
4.08	Seat height	h7	(mm)	929	929	929	938	938	957
4.12	Tow coupling height	h10	(mm)	290	290	290	310	310	330
4.19	Overall length	l1	(mm)	3360	3400	3455	3585	3660	3835
4.20	Length to fork face (includes fork thickness)	l2	(mm)	2260	2300	2355	2485	2560	2735
4.21	Overall width	b1 / b2	(mm)	1065 / -	1065 / -	1065 / -	1150 / 1640	1150 / 1640	1275 / 1710
4.22	Fork dimensions (thickness, width, length)	s / e / l	(mm)	35x100x1100	35x100x1100	40x100x1100	40x100x1100	40x100x1100	45x120x1100
4.23	Fork carriage to DIN 15 173 A/B/no			2A	2A	2A	2A	3A	3A
4.24	Fork carriage width	b3	(mm)	940	940	940	1024	1024	1024
4.31	Ground clearance under mast, with load	m1	(mm)	110	110	110	115	115	135
4.32	Ground clearance at center of wheelbase, with load (forks lowered)	m2	(mm)	135	135	135	135	135	165
4.33	Working aisle width with 1000 x1200 mm pallets, crosswise	Ast	(mm)	3550	3580	3635	3855	3890	4075
4.34a	Working aisle width with 800 x1200 mm pallets, crosswise	Ast	(mm)	3350	3380	3435	3655	3690	3875
4.34b	Working aisle width with 800 x1200 mm pallets, lengthwise	Ast	(mm)	3750	3780	3835	4055	4090	4275
4.35	Turning circle radius	Wa	(mm)	1950	1980	2020	2200	2230	2380
4.36	Minimum distance between centers of rotation	b13	(mm)	555	555	555	715	715	780
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	18.0 / 18.5
5.02	Lifting speed, with/without load		m/s	0.64 / 0.64	0.64 / 0.64	0.64 / 0.64	0.59 / 0.59	0.59 / 0.59	0.51 / 0.50
5.03	Lowering speed, with/without load		m/s	0.52 / 0.44	0.52 / 0.44	0.52 / 0.44	0.51 / 0.43	0.51 / 0.43	0.51 / 0.42
5.05	Rated drawbar pull, with/without load		N	14400 / 5100	14400 / 4800	14200 / 4900	14300 / 7000	14200 / 6800	18000 / 8300
5.06	Maximum drawbar pull, with/without load (5 min short duty)		N	- / -	- / -	- / -	- / -	- / -	- / -
5.07	Gradeability, with/without load		%	39 / 25	35 / 22	30 / 20	28 / 27	24 / 24	26 / 25
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	Hydraulic
IC ENGINE									
7.01	Manufacturer / Type			Econtrols EK21	Econtrols EK21	Econtrols EK21	Econtrols EK21	Econtrols EK21	Econtrols EK21
7.02	Rated / Nominal output to ISO 1585**		kW	39	39	39	39	39	44
7.03	Rated speed to DIN 70 020		rpm	2700	2700	2700	2700	2700	2700
7.04	Number of cylinders / cubic capacity		cm³	4 / 2065	4 / 2065	4 / 2065	4 / 2065	4 / 2065	4 / 2488
7.06	Max torque		Nm	152	152	152	152	152	185
7.07	Max torque at engine speed		rpm	2200	2200	2200	2200	2200	1800
MISCELLANEOUS									
8.01	Type of drive control			Powershift 1/1	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	180
8.03	Oil flow for attachments		l/min	60	60	60	73	73	73
8.04	Noise level, value at operator's ear (EN 12053)		dB(A)	79	79	79	79	79	79
8.05	Towing coupling design / DIN type, ref.			Pin	Pin	Pin	Pin	Pin	Pin

TCM Forklifts - DIESEL				
FD20-E3	FD25-E3	FD30-E3	FD35-E3	
Diesel	Diesel	Diesel	Diesel	
Seated	Seated	Seated	Seated	
2000	2500	3000	3500	
500	500	500	500	
455	460	495	495	
1600	1600	1700	1700	
3500	3780	4410	4800	
4680 / 820	5430 / 850	6460 / 950	7170 / 1130	
1450 / 2050	1390 / 2390	1670 / 2740	1590 / 3210	
SE / SE	SE / SE	SE / SE	SE / SE	
7.00-12	7.00-12	28x9-15	250-15	
6.00-9	6.00-9	6.50-10	6.50-10	
2x / 2	2x / 2	2x / 2	2x / 2	
960	960	1060	1060	
980	980	980	980	
6 / 10	6 / 10	6 / 10	6 / 10	
2145	2145	2165	2280	
140	140	140	140	
3300	3300	3300	3300	
4355	4355	4355	4355	
2145	2145	2165	2175	
938	938	957	967	
310	310	330	340	
3555	3630	3805	3865	
2485	2560	2735	2795	
1150 / 1640	1150 / 1640	1275 / 1710	1290 / 1710	
40x100x1100	40x100x1100	45x120x1100	45x120x1100	
2A	2A	3A	3A	
1024	1024	1024	1024	
115	115	135	150	
135	135	165	170	
3855	3890	4075	4135	
3655	3690	3875	3935	
4055	4090	4275	4335	
2200	2230	2380	2440	
715	715	780	780	
16.5 / 18.0	16.0 / 17.5	16.0 / 17.5	16.5 / 18.0	
0.61 / 0.64	0.61 / 0.64	0.49 / 0.50	0.41 / 0.42	
0.51 / 0.43	0.51 / 0.43	0.51 / 0.42	0.43 / 0.30	
16200 / 7000	16100 / 6700	15800 / 7900	14800 / 7400	
- / -	- / -	- / -	- / -	
31 / 16	27 / 15	22 / 15	18 / 13	
- / -	- / -	- / -	- / -	
- / -	- / -	- / -	- / -	
Hydraulic	Hydraulic	Hydraulic	Hydraulic	
D04EG	D04EG	D04EG	D04EG	
36	36	36	36	
2250	2250	2250	2250	
4 / 3331	4 / 3331	4 / 3331	4 / 3331	
177	177	177	177	
1800	1800	1800	1800	
Powershift 1/1	Powershift 1/1	Powershift 1/1	Powershift 1/1	
180	180	180	180	
75	75	73	73	
78	78	78	78	
Pin	Pin	Pin	Pin	



FD/FGE15-35(C)-E3

MAST SPECIFICATIONS & RATED CAPACITIES

MAST TYPE	Lift height (mm)	Overall mast height (mm)		Free lift (mm)	FGE15-E3	FGE18-E3	FGE20C-E3
		Lowered	Extended		Load Capacity (kgs) @ 500mm load centre		
	h3	h1	h4	h2/h5			
SIMPLEX	3000	1990	4055	115	1500	1750	2000
	3300	2140	4355	115	1500	1750	2000
	3500	2240	4555	115	1500	1750	2000
	3700	2340	4755	115	1500	1750	2000
	4000	2540	5055	115	1500	1750	2000
	4500	2790	5555	115	1425	1700	1950
	5000	3050	6055	115	1375	1400	1400
	5500	3300	6555	115	850	850	
	6000	3550	7055	115	525	525	
DUPLEX	3000	1995	4055	975	1500	1750	2000
	3300	2140	4350	1120	1500	1750	2000
	3500	2260	4570	1240	1500	1750	2000
	4000	2585	5085	1565	1500	1750	2000
TRIPLEX	3700	1790	4755	770	1500	1750	2000
	4000	1890	5055	870	1450	1750	2000
	4300	1990	5355	970	1425	1700	1950
	4700	2140	5755	1120	1375	1625	1900
	5000	2240	6055	1220	1325	1325	1400
	5500	2430	6555	1410	850	850	
	6000	2610	7055	1590	525	525	
	6500	2850	7555	1830	350	350	
	7000	3050	8055	2030	175	175	

The capacities are applicable for pneumatic shaped solid tyres (SE).

MAST TYPE	Lift height (mm)	Overall mast height (mm)		Free lift (mm)	FD/FGE20-E3	FD/FGE25-E3
		Lowered	Extended		Load Capacity (kgs) @ 500mm load centre	
	h3	h1	h4	h2/h5		
SIMPLEX	3000	1995	4055	140	2000	2500
	3300	2145	4355	140	2000	2500
	3500	2245	4555	140	2000	2500
	3700	2345	4755	140	2000	2500
	4000	2545	5055	140	2000	2500
	4500	2795	5555	140	2000	2500
	5000	3065	6055	140	1950	2400
	5500	3315	6555	140	1850*	2250*
	6000	3565	7055	140	1800*	2150*
DUPLEX	3000	1995	4055	980	2000	2500
	3300	2145	4350	1130	2000	2500
	3500	2265	4585	1250	2000	2500
	4000	2590	5075	1575	2000	2500
TRIPLEX	3700	1795	4755	780	2000	2500
	4000	1895	5055	880	2000	2500
	4300	1995	5355	980	2000	2500
	4700	2145	5755	1130	1950	2400
	5000	2245	6055	1230	1900	2350
	5500	2415	6555	1400	1800	2200*
	6000	2585	7055	1570	1750*	2100*
	6500	2795	7555	1780	1650*	1750*
	7000	3065	8055	2050	1250*	1250*

The capacities are applicable for pneumatic shaped solid tyres (SE).

*Capacities shown require truck equipped with dual tyres. Consult residual capacity charts for the maximum back tilt allowed, to obtain the capacities specified.

MAST TYPE	Lift height (mm)	Overall mast height (mm)		Free lift (mm)	FD/FGE30-E3
		Lowered	Extended		Load Capacity (kgs) @ 500mm load centre
	h3	h1	h4	h2/h5	
SIMPLEX	3000	2015	4055	140	3000
	3300	2165	4355	140	3000
	3500	2265	4555	140	3000
	3700	2365	4755	140	3000
	4000	2565	5055	140	3000
	4500	2815	5555	140	3000
	5000	3115	6055	140	2900
	5500	3365	6555	140	2750
	6000	3615	7055	140	2400*
DUPLEX	3000	2045	4055	1035	3000
	3300	2165	4305	1155	3000
	3500	2285	4545	1275	3000
	4000	2610	5065	1600	3000
TRIPLEX	3700	1815	4755	805	3000
	4000	1915	5055	905	3000
	4300	2015	5355	1005	3000
	4700	2165	5755	1155	3000
	5000	2265	6055	1255	2900
	5500	2435	6555	1425	2750*
	6000	2605	7055	1595	2200*
	6500	2815	7555	1805	1750*
	7000	3115	8055	2105	1250*

The capacities are applicable for pneumatic shaped solid tyres (SE).

*Capacities shown require truck equipped with dual tyres. Consult residual capacity charts for the maximum back tilt allowed, to obtain the capacities specified.

MAST TYPE	Lift height (mm)	Overall mast height (mm)		Free lift (mm)	FD/FGE35-E3
		Lowered	Extended		Load Capacity (kgs) @ 500mm load centre
	h3	h1	h4	h2/h5	
SIMPLEX	3000	2130	4055	140	3500
	3300	2280	4355	140	3500
	3500	2380	4555	140	3500
	3700	2480	4755	140	3500
	4000	2680	5055	140	3500
	4500	2930	5555	140	3500
	5000	3230	6055	140	3500
	5500	3480	6555	140	3200*
	6000	3730	7055	140	2400*
DUPLEX	3000	2180	4065	1170	3500
	3300	2300	4355	1290	3500
	3500	2445	4555	1435	3500
	4000	2765	5055	1755	3500
TRIPLEX	3700	1930	4755	920	3500
	4000	2030	5055	1020	3500
	4300	2130	5355	1120	3500
	4700	2280	5755	1270	3500
	5000	2380	6055	1370	3450
	5500	2550	6555	1540	2850*
	6000	2720	7055	1710	2200*
	6500	2930	7555	1920	1750*
	7000	3230	8055	2220	1250*

The capacities are applicable for pneumatic shaped solid tyres (SE).

*Capacities shown require truck equipped with dual tyres. Consult residual capacity charts for the maximum back tilt allowed, to obtain the capacities specified.



FD/FGE15-35(C)-E3

STANDARD AND OPTIONS LIST

	LPG			DIESEL
	FGE15-18-E3	FGE20C-E3	FGE25-35-E3	FD20-35-E3
GENERAL				
Dust proof kit	○	○	○	○
Line filter for torque converter	○	○	○	○
Universal joint cover powertrain	○	○	○	○
LPG bracket removed	○	○	○	—
LPG swing down bracket no tank	○	○	○	—
Tilt cylinder boot kit	○	○	○	—
Belly plate (under cover)	●	●	●	●
Large capacity battery	○	○	○	—
Fire extinguisher	○	○	○	○
Equipment bar	○	○	○	○
HYDRAULIC				
3-Way control valve, MC	●	●	●	●
3-Way control valve, FC	○	○	○	○
4-Way control valve, MC	○	○	○	○
4-Way control valve, FC	○	○	○	○
5-Way control valve, MC	—	—	○	○
5-Way control valve, FC	—	—	○	○
Single control lever MC	○	○	○	○
Dual joystick	○	○	○	○
Tilt horizontal control (*only for fingertip control)	○	○	○	○
F2 Double action button for clamp release (*cannot be combined with tilt horizontal control)	○	○	○	○
Hydraulic accumulator	○	○	○	○
MAST FORKS AND CARRIAGE				
Loose mast	○	○	○	○
Heavy load side roller (*cannot be combined with an integral side shifter)	○	○	○	○
Side shifter 920 mm	○	○	—	—
Side shifter 1000 mm	—	—	○	○
Integral side shifter 920 mm	○	○	—	—
Integral side shifter 1000 mm	○	—	○	○
Hook-on side shifting fork positioner 920 mm	○	—	○	○
Hook-on side shifting fork positioner 1000 mm	○	—	○	○
Fork deletion	○	○	○	○

KEY ● Standard ○ Optional — Not available

	LPG			DIESEL
	FGE15-18-E3	FGE20C-E3	FGE25-35-E3	FD20-35-E3
ELECTRICAL				
Reverse handle with horn button	●	●	●	●
Speed limiter	●	●	●	●
Indicator kit	○	○	○	○
LED light set	●	●	●	●
LED rear work light	○	○	○	○
Load weight indicator	●	●	●	●
Strobe light (orange)	○	○	○	○
FNR switch on adjustable armrest (*STD on fingertip control models)	○	○	○	○
'Blue point' rear light	○	○	○	○
Lights on mast (only available with Triplex mast)	—	—	○	○
USB port	○	○	○	○
LPG low level warning	○	○	○	—
OHG AND CABIN				
Grammer MSG65 vinyl seat	●	●	●	●
Grammer MSG65 cloth seat	○	○	○	○
Grammer MSG65 with heater	○	○	○	○
Grammer MSG75 air suspension cloth seat	○	○	○	○
Grammer MSG75 air suspension vinyl seat	○	○	○	○
Rear view mirrors (not available with deluxe cabin)	●	●	●	●
Tilt steering column with memory position	●	●	●	●
Convenience tray (*not available for FC models)	○	○	○	○
Acrylic rain guard	○	○	○	○
Delux cabin	○	○	○	○
Panel cabin front screen with wiper + roof	—	—	○	○
Panel cabin rear screen	—	—	○	○
Panel cabin PVC doors, LH & RH	—	—	○	○
Panel cabin steel doors	—	—	○	○
TYRES				
Solid pneumatic profile tyres	●	●	●	●
Pneumatic tyres	○	—	○	○
Solid pneumatic profile dual drive tyres	—	—	○	○
Pneumatic dual drive tyres	—	—	○	○
Non-marking solid tyres	○	○	○	○
ENVIRONMENT				
Single element air cleaner	—	—	—	●
Double element air cleaner	●	●	●	○
High-level exhaust	—	—	—	○



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