



**Engine Powered
Forklift Trucks**
1.5 - 2.0 tonnes



**FD/FG15N
FD/FG18N
FD/FG20CN**

Characteristics				Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi
1.1	Manufacturer (abbreviation)			Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi
1.2	Manufacturer's model designation			FD15N	FD18N	FD20CN	FG15N	FG18N	FG20CN
1.3	Power source: (battery, diesel, LP gas, petrol)			Diesel	Diesel	Diesel	LP gas	LP gas	LP gas
1.4	Operator type: pedestrian, (operator)-standing, -seated			Seated	Seated	Seated	Seated	Seated	Seated
1.5	Load capacity	Q	(kg)	1.500	1.750	2.000	1.500	1.750	2.000
1.6	Load centre distance	c	(mm)	500	500	500	500	500	500
1.8	Load distance, axle to fork face	x	(mm)	400	400	415	400	400	415
1.9	Wheelbase	y	(mm)	1400	1400	1400	1400	1400	1400
Weight									
2.1	Truck weight, without load / including battery (simplex mast, lowest lift height)		kg	2560	2760	3100	2520	2710	3050
2.2	Axle loading with maximum load, front/rear (simplex mast, lowest lift height)		kg	3580 / 480	3940 / 570	4430 / 670	3580 / 440	3940 / 520	4420 / 630
2.3	Axle loading without load, front/rear (simplex mast, lowest lift height)		kg	1110 / 1450	1060 / 1700	1120 / 1980	1110 / 1410	1060 / 1650	1110 / 1940
Wheels, Drive Train									
3.1	Tyres: V=solid, L=pneumatic, SE=solid pneumatic - front/rear			SE / SE (L / L)	SE / SE (L / L)	SE / SE	SE / SE (L / L)	SE / SE (L / L)	SE / SE
3.2	Tyre dimensions, front			6.50-10	6.50-10	6.50-10	6.50-10	6.50-10	6.50-10
3.3	Tyre dimensions, rear			5.00-8	5.00-8	5.00-8/3.00	5.00-8	5.00-8	5.00-8/3.00
3.5	Number of wheels, front/rear (x=driven)			2x / 2	2x / 2	2x / 2	2x / 2	2x / 2	2x / 2
3.6	Track width (centre of tyres), front	b10	(mm)	890	890	890	890	890	890
3.7	Track width (centre of tyres), rear	b11	(mm)	900	900	900	900	900	900
Dimensions									
4.1	Mast tilt, forwards/backwards	α/β	°	6 / 10	6 / 10	6 / 10	6 / 10	6 / 10	6 / 10
4.2	Height with mast lowered (see tables)	h1	(mm)	2140	2140	2140	2140	2140	2140
4.3	Free lift (see tables)	h2	(mm)	80	80	80	80	80	80
4.4	Lift height (see tables)	h3	(mm)	3290	3290	3290	3290	3290	3290
4.5	Overall height with mast raised	h4	(mm)	4340	4340	4340	4340	4340	4340
4.7	Height to top of overhead guard	h6	(mm)	2140	2140	2140	2140	2140	2140
4.8	Seat height	h7	(mm)	1109	1109	1109	1109	1109	1109
4.12	Tow coupling height	h10	(mm)	290	290	290	290	290	290
4.19	Overall length	l1	(mm)	3330	3371	3429	3330	3371	3429
4.20	Length to fork face (includes fork thickness)	l2	(mm)	2260	2301	2359	2260	2301	2359
4.21	Overall width	b1/b2	(mm)	1065 / n.a.	1065 / n.a.	1065 / n.a.	1065 / n.a.	1065 / n.a.	1065 / n.a.
4.22	Fork dimensions (thickness, width, length)	s,e,l	(mm)	35 x 100 x 1070	35 x 100 x 1070	35 x 100 x 1070	35 x 100 x 1070	35 x 100 x 1070	35 x 100 x 1070
4.23	Fork carriage to DIN 15 173 A/B/no			2A	2A	2A	2A	2A	2A
4.24	Fork carriage width	b3	(mm)	920	920	920	920	920	920
4.31	Ground clearance under mast, with load	m1	(mm)	110	110	110	110	110	110
4.32	Ground clearance at centre of wheelbase, with load (forks lowered)	m2	(mm)	135	135	135	135	135	135
4.33	Working aisle width with 1000 x 1200 mm pallets, crosswise	Ast	(mm)	3550	3580	3635	3550	3580	3635
4.34	Working aisle width with 800 x 1200 mm pallets, crosswise	Ast	(mm)	3350	3380	3435	3350	3380	3435
4.35	Turning circle radius	Wa	(mm)	1950	1980	2022	1950	1980	2022
4.36	Minimum distance between centres of rotation	b13	(mm)						
Performance									
5.1	Travel speed, with/without load		km/h	19 / 19.5	19 / 19.5	19 / 19.5	19 / 19.5	19 / 19.5	19 / 19.5
5.2	Lifting speed, with/without load		m/s	0.60 / 0.65	0.60 / 0.65	0.60 / 0.65	0.64 / 0.65	0.64 / 0.65	0.64 / 0.65
5.3	Lowering speed, with/without load		m/s	0.52 / 0.50	0.52 / 0.50	0.52 / 0.50	0.52 / 0.50	0.52 / 0.50	0.52 / 0.50
5.5	Rated drawbar pull, with/without load		N	11800 / 11500	11700 / 11500	11400 / 11500	15300 / 14800	15100 / 14700	14800 / 14800
5.7	Gradeability, with/without load		%	31 / -	27 / -	24 / -	42 / -	37 / -	31 / -
5.9	Acceleration time (10 metres) with/without load		s						
5.10	Service brakes (mechanical/hydraulic/electric/pneumatic)			Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
IC Engine									
7.1	Manufacturer / Type			S4Q2 VE 28,0kW01	S4Q2 VE 28,0kW01	S4Q2 VE 28,0kW01	K21 LE	K21 LE	K21 LE
7.2	Rated output to ISO 1585		kW	28	28	28	42	42	42
7.3	Rated speed to DIN 70 020		rpm	2500	2500	2500	2700	2700	2700
7.4	Number of cylinders / cubic capacity		/cm ³	4 / 2505	4 / 2505	4 / 2505	4 / 2065	4 / 2065	4 / 2065
7.5	Fuel consumption according to VDI 60 cycle		l/h / kg/h	-/-	-/-	-/-	-/2.6	-/-	-/2.9
Miscellaneous									
8.1	Type of drive control			Powershift / 1	Powershift / 1	Powershift / 1	Powershift / 1	Powershift / 1	Powershift / 1
8.2	Maximum operating pressure for attachments		bar	180	180	180	180	180	180
8.3	Oil flow for attachments		l/min	62	62	75	60	60	60
8.4	Noise level, value at operator's ear (EN 12053)		dB(A)	-	-	-	-	-	-
8.5	Towing coupling design / DIN type, ref.								



Mast Performance and Capacity

Mast type	FD/FG15N-18N FD/FG20CN			FD/FG15N		FD/FG18N		FD/FG20CN	
	h3 mm	h1 mm	h4 mm	h2/h5 mm	Q @ c=500mm kg	h2/h5 mm	Q @ c=500mm kg	h2/h5 mm	Q @ c=500mm kg
Simplex	3000	1995	4050	80	1500	80	1750	80	2000
	3290	2140	4340	80	1500	80	1750	80	2000
	3700	2400	4770	80	1500	80	1750	80	2000
	4090	2585	5140	80	1500	80	1750	80	2000
	4480	2790	5530	80	1425	80	1700	80	1950
	5000	3050	6050	80	1375	80	1400	80	1400
	5500	3300	6550	80	1000	80	1000		
Duplex	3000	1995	4050	945	1500	945	1750	945	2000
	3295	2140	4340	1095	1500	1095	1750	1095	2000
	3700	2400	4750	1355	1500	1355	1750	1355	2000
	4030	2585	5080	1535	1500	1535	1750	1535	2000
Triplex	3710	1795	4760	745	1500	745	1750	745	2000
	4010	1895	5060	845	1500	845	1750	845	2000
	4310	1995	5360	945	1425	945	1700	945	1950
	4750	2140	5800	1095	1375	1095	1625	1095	1900
	5090	2260	6140	1215	1325	1215	1325	1215	1325
	5490	2400	6540	1355	1000	1355	1000		
	5990	2585	7040	1535	650	1535	650		
	6490	2845	7540	1795	450	1795	450		
7000	3050	8050	2005	275	2005	275			

h1 Height with mast lowered

h2 Standard free lift

h3 Lift height

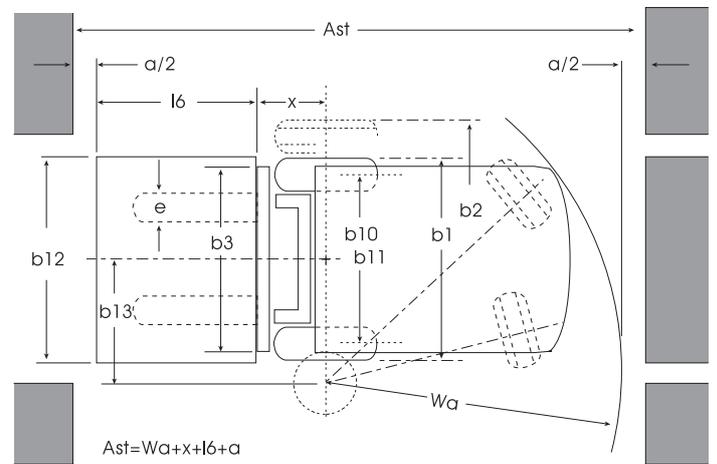
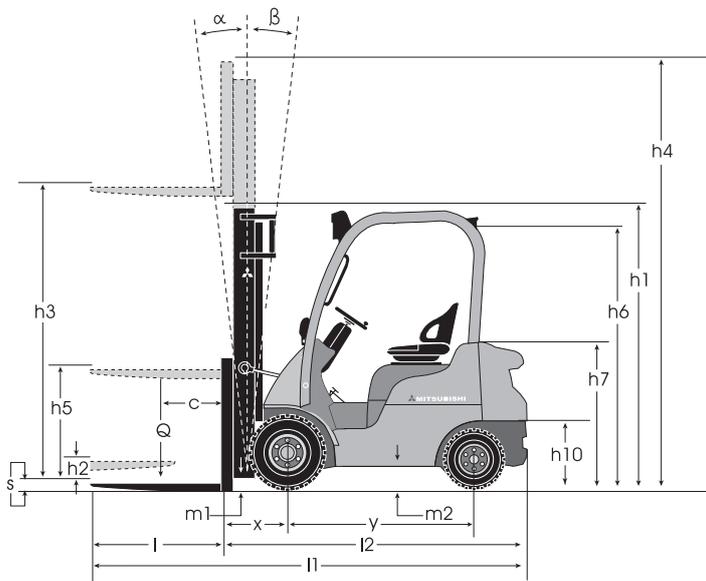
h4 Height with mast raised

h5 Full free lift

Q Lifting capacity, rated load

c Load centre (distance)

All dimensions include load backrest. In case load backrest is not used h5 will increase by 410 mm, while h4 will decrease by 410 mm.



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NOTE: Performance specifications may vary depending on standard manufacturing tolerances, vehicle condition, types of tyres, floor or surface conditions, applications or operating environment. Trucks may be shown with non-standard options. Specific performance requirements and locally available configurations should be discussed with your distributor of Mitsubishi forklift trucks. Mitsubishi follows a policy of continual product improvement. For this reason, some materials, options and specifications could change without notice.

Main features

Developed to help your driver achieve maximum productivity, the FD/FG N series from Mitsubishi redefines the standard for IC engine counterbalance forklift trucks. No other forklift has so many advanced features – or offers such unbeatable value for money.

- *Low noise levels which increase operator comfort.*
- *Fully floating powertrain ensures exceptionally low noise and vibration levels – reducing driver stress.*
- *High-performance, easy-to-maintain diesel engines give low exhaust emissions and low fuel consumption.*
- *State-of-the-art LPG engines with engine management system and regulated catalytic converter for high performance, low emissions and low fuel consumption.*
- *Clear instrument display monitoring all vital functions of the forklift trucks which includes neutral indicator for improved safety.*
- *Adjustable steering column with memory function helps guarantee optimum driving position, every time.*
- *Car-comfort, fully adjustable suspension seat is fitted with hip restraints, seatbelt (with indicator) and cut-out switch to prevent drive and lift/lower operations unless the driver is seated.*
- *Automotive style pedal layout with self-energising and self-adjusting drum brakes for easy operation with little effort.*
- *Attractive operator compartment with tilt cylinders, dashboard and foot area fully covered.*
- *High-visibility mast, fork carriage and head guard ensure excellent all-round vision.*
- *Long service interval – 500 hours – reduces cost of ownership and increases productivity.*

Optional features

- *Fingertip controls mounted on ergonomically positioned armrest.*
- *Integral sideshifter for ease of handling.*
- *A range of factory-fitted cabins.*
- *Mast levelling control for improved productivity.*

when
reliability
is **everything**

Developed for outstanding performance and genuine value for money, the awardwinning* range of Mitsubishi forklift trucks and warehouse equipment is built to a higher specification to maximize productivity and ensure utter reliability... whatever the application.

It's what you'd expect from one of the world's largest corporations whose companies are at the leading edge of technologies where performance, quality and dependability can never be compromised.

It means that, from a single safe source, we can meet 98% of all handling requirements, supplied to you via a range of competitive finance options including outright purchase, rental or leasing. So your local dealer can advise you on precisely the right product for your application... and your budget.

Moreover, because we understand how much you depend on your Mitsubishi forklift truck, we deliver the highest levels of customer support.

Through a network of carefully selected dealerships, we provide quality maintenance and customer care programmes including a choice of warranties that give complete peace of mind. Every dealership holds extensive stocks of manufacturer-approved parts, backed by a central store that holds literally millions of items constantly in stock and achieves a first-pick fulfilled rate of 97%. So your truck can be fixed first time, virtually every time.

You can find your nearest dealer at
www.mitforklift.com

** Mitsubishi Forklift Trucks has won **four** separate Fork Lift Truck Association Annual Awards for Excellence covering the areas of **Ergonomics**, the **Environment** and **Innovation**.*

