MITSUBISHI
FORKLIFT TRUCKS

Engine Powered Forklift Trucks

1.5 - 2.0 tonnes



FD/FG15NT
FG15ZNT
FD/FG18NT
FG18ZNT
FD/FG20CNT

MITSUBISHI FORKLIFT TRUCKS

	Characteristics												
1.1	Manufacturer (abbreviation)			Mitsubishi	Mitsubishi			Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi
1.2	Manufacturer's model designation			FD15NT	FD18NT			FD20CNT	FG15NT	FG15ZNT	FG18NT	FG18ZNT	FG20CNT
1.3	Power source: (battery, diesel, LP gas, petrol)			Diesel	Diesel			Diesel	Petrol	Petrol	Petrol	Petrol	Petrol
1.4	Operator type: pedestrian, (operator)-standing, -seated			Seated	Seated			Seated	Seated	Seated	Seated	Seated	Seated
1.5	Load capacity Q	Q	(kg)	1500	1750			2000	1500	1500	1750	1750	2000
1.6	Load centre distance	c	(mm)	500	500			500	500	500	500	500	500
1.8	Load distance, axle to fork face	x	(mm)	400	400			415	400	400	400	400	415
1.9	Wheelbase	y	(mm)	1400	1400			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	2520	2710	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	3580 / 440	3940 / 520	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	1110 / 1410	1060 / 1650	1060 / 1650	1110 / 1940
	Wheels, Drive Train												
3.1	Tyres: V=solid, L=pneumatic, SE=solid pneumatic - front/rear			L / L	L / L			SE / SE	L / L	L / L	L / L	L / L	SE / SE
3.2	Tyre dimensions, front			6.50-10-10PR	6.50-10-10PR			6.50-10/5.00	6.50-10-10PR	6.50-10-10PR	6.50-10-10PR	6.50-10-10PR	6.50-10/5.00
3.3	Tyre dimensions, rear			5.00-8-8PR	5.00-8-8PR			5.00-8/3.00	5.00-8-8PR	5.00-8-8PR	5.00-8-8PR	5.00-8-8PR	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	2x / 2	2x / 2
3.6	Track width (centre of tyres), front	b10	(mm)	890	890			890	890	890	890	890	890
3.7	Track width (centre of tyres), rear	b11	(mm)	900	900			900	900	900	900	900	900
	Dimensions												
4.1	Mast tilt, forwards/backwards	α/β	°	6 / 12	6 / 12			6 / 12	6 / 12	6 / 12	6 / 12	6 / 12	6 / 12
4.2	Height with mast lowered (see tables)	h1	(mm)	1995	1995			1995	1995	1995	1995	1995	1995
4.3	Free lift (see tables)	h2	(mm)	80	80			75	80	80	80	80	75
4.4	Lift height (see tables)	h3	(mm)	3000	3000			3000	3000	3000	3000	3000	3000
4.5	Overall height with mast raised	h4	(mm)	4045	4045			4045	4045	4045	4045	4045	4045
4.7	Height to top of overhead guard	h6	(mm)	2065	2065			2065	2065	2065	2065	2065	2065
4.8	Seat height	h7	(mm)	1109	1109			1109	1109	1109	1109	1109	1109
4.12	Tow coupling height	h10	(mm)										
4.19	Overall length	l1	(mm)	3330	3371			3429	3330	3330	3371	3371	3429
4.20	Length to fork face (includes fork thickness)	l2	(mm)	2260	2301			2359	2260	2260	2301	2301	2359
4.21	Overall width	b1/b2	(mm)	1065	1065			1065	1065	1065	1065	1065	1065
4.22	Fork dimensions (thickness, width, length)	s,e,l	(mm)	35 x 100 x 1070	35 x 100 x 1070			40 x 110 x 1070	35 x 100 x 1070	35 x 100 x 1070	35 x 100 x 1070	35 x 100 x 1070	40 x 110 x 1070
4.23	Fork carriage to DIN 15 173 A/B/no			2A	2A			2A	2A	2A	2A	2A	2A
4.24	Fork carriage width	b3	(mm)	920	920			920	920	920	920	920	920
4.31	Ground clearance under mast, with load	m1	(mm)	110	110			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	135	135
4.33	Working aisle width with 1000 x1200 mm pallets, crosswise	Ast	(mm)	3550	3580			3637	3550	3550	3580	3580	3637
4.34	Working aisle width with 800 x1200 mm pallets, crosswise	Ast	(mm)										
4.35	Turning circle radius	Wa	(mm)	1950	1980			2022	1950	1950	1980	1980	2022
4.36	Minimum distance between centres of rotation	b13	(mm)										
	Performance												
5.1	Travel speed, with/without load		km/h	19 / 19	19 / 19			19 / 19	19 / 19	19 / 19	19 / 19	19 / 19	19 / 19
5.2	Lifting speed, with/without load		m/s	0.60 / 0.65	0.60 / 0.65			0.60 / 0.65	0.49 / 0.55	0.58 / 0.64	0.49 / 0.55	0.58 / 0.64	0.55 / 0.63
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	0.52 / 0.50	0.52 / 0.50
5.5	Rated drawbar pull, with/without load		N	14200 / 13700	14000 / 13600			13700 / 13700	10400 / 10200	13800 / 13400	10300 / 10100	13700 / 13300	13300 / 13400
5.7	Gradeability, with/without load		%	39 / -	34 / -			29 / -	27 / -	37 / -	24 / -	33 / -	29 / -
5.9	Acceleration time (10 metres) with/without load		s										
5.10	Service brakes (mechanical/hydraulic/electric/pneumatic)			Hydraulic	Hydraulic			Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
	Electric motors												
7.1	Only Diesel & LPG Manufacturer / Type			S4Q2	S4Q2			S4Q2	K15	K21	K15	K21	K21
7.2	Only Diesel & LPG Rated output to ISO 1585		kW	24.0	24.0			24.0	26.0	34.0	26.0	34.0	34.0
7.3	Only Diesel & LPG Rated speed to DIN 70 020		rpm	2500	2500			2500	2450	2200	2450	2200	2200
7.4	Only Diesel & LPG Number of cylinders / cubic capacity		/cm3	4 / 2504	4 / 2504			4 / 2504	4 / 1486	4 / 2065	4 / 1486	4 / 2065	4 / 2065
7.5	Only Diesel & LPG Fuel consumption according to VDI 60 cycle		l/h										
	Miscellaneous												
8.1	Type of drive control			Powershift / 1	Powershift / 1			Powershift / 1	Powershift / 1	Powershift / 1	Powershift / 1	Powershift / 1	Powershift / 1
8.2	Maximum operating pressure for attachments		bar	181	181			181	181	181	181	181	181
8.3	Oil flow for attachments		l/min	62	62			62	52	60	52	60	60
8.4	Noise level, value at operator's ear (EN 12053)		dB(A)										
8.5	Towing coupling design / DIN type, ref.												

* 1st. speed † Dual tyres are optional

Mast Performance and Capacity

	FD/FG15-18(Z)NT FD/FG20CNT			FD/FG15(Z)NT		FD/FG18(Z)NT		FD/FG20CNT	
Mast type	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	4045	80	1500	80	1750	80	2000
	3290	2140	4335	80	1500	80	1750	80	2000
	3700	2400	4745	80	1500	80	1750	80	2000
	4090	2585	5135	80	1500*	80	1750	80	1950
	4480	2790	5525	80	1425*	80	1650*		
	5000	3050	6045	80	1325*	80	1600*		
	5500	3300	6545	80	1250*	80	1525*		
	6000	3550	7045	80	1200*	80	1325*		
Duplex	3000	1995	4045	950	1500	950	1750	950	2000
	3295	2140	4340	1095	1500	1095	1750	1095	2000
	3510	2260	4570	1205	1500	1200	1750		
	4030	2585	5075	1540	1500	1540	1750		
Triplex	3710	1795	4755	750	1500	750	1750		
	4010	1895	5055	850	1450	850	1725	850	1700
	4310	1995	5355	950	1425	950	1675*	950	1650
	4750	2140	5795	1095	1350*	1095	1625*	1095	1600
	5090	2260	6135	1215	1300*	1215	1575*	1215	1025
	5490	2400	6535	1355	1250*	1355	1500*	1355	625
	5990	2585	7035	1540	1175*	1540	1325*		
	6490	2845	7535	1800	950*	1800	950*		
	7000	3050	8045	2005	650*	2005	650*		

All dimensions include load backrest. In case load backrest is not used h5 will increase by 420 mm, while h4 will decrease by 420 mm.

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)

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

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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.


1


2


3


4


5


6

1 ***Downtime is minimised*** *thanks to long service intervals, easy maintenance access and high durability... even in the most hostile environments.* 2 ***Clear-view mast*** *with exceptionally narrow channels gives maximum forward visibility.* 3 ***Comfortable driver compartment*** *offers a host of ergonomic features that increase productivity and reduce strain.* 4 ***Low centre of gravity*** *increases stability for greater performance at higher lifts.* 5 ***Attractive, modern styling*** *will appeal to drivers.* 6 ***Advanced cooling system*** *increases efficiency and cuts servicing.*

Main features

Developed to help your driver achieve maximum productivity, the FD/FG NT series from Mitsubishi redefines the standard for IC engine counterbalance forklift trucks.

- *Fully floating powertrain ensures exceptionally low noise and vibration levels – reducing driver stress.*
- *State-of-the-art engines deliver outstanding performance while reducing noise, emissions and energy consumption.*
- *Fully hydrostatic steering with steering synchronisation for easy manoeuvring. Steering knob position on the steering wheel is always the same in relation to the steer wheels.*
- *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.*
- *Mast cushioning device allows safe and comfortable lowering of load.*
- *Mast levelling option ensures safe, fast and precise operation whilst helping reduce the risk of product damage.*
- *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.*

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.

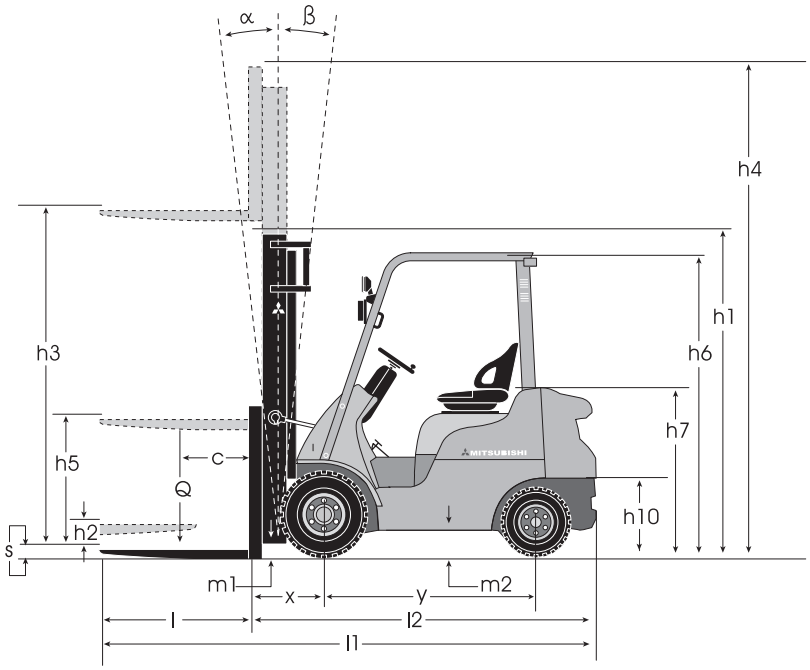
It means that, from a single safe source, we can meet 98% of all handling requirements, supplied to you via a range of competitive finance options including outright purchase, rental or leasing. So your local dealer can advise you on precisely the right product for your application... and your budget.

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

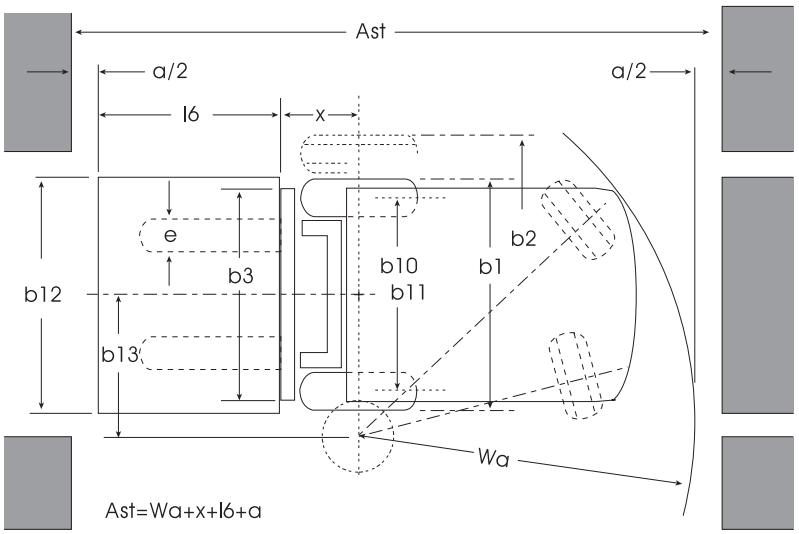
Through a network of carefully selected dealerships, we provide quality maintenance and customer care programmes including a choice of warranties that give complete peace of mind. Every dealership holds extensive stocks of manufacturer-approved parts, backed by a central store that holds literally millions 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**.*



Ast = Wa + x + l6 + a
Ast = Working aisle width with load
a = Safety clearance (200 mm)
l6 = Pallet length (800 or 1000 mm)
b12 = Pallet width (1200 mm)





***Productivity is maximised** by providing drivers with the perfect conditions and controls to do the job well.*