

FD70-100NH

DIESEL COUNTERBALANCE

7 – 10 tonnes

**CLASS-LEADING PERFORMANCE...
WITHOUT COMPROMISE**

Built for even the most challenging environments, this series of 7–10 tonne heavy-duty diesel counterbalance trucks deal with tough situations with the reliability you expect from Mitsubishi Forklift Trucks.

SPECIFICATIONS

FD70NH
FD80NH
FD100NH

**WHEN
RELIABILITY IS
EVERYTHING...**



FD70NH-100NH Series

DIESEL COUNTERBALANCE

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Class-leading travel speeds of around 30km/h are possible thanks to a six-cylinder 6.5 L direct-injection diesel engine. Sitting at the heart of the range, it delivers up to 84.6 kW (115 hp) of power for high productivity.

The range has market-leading views of the load and forklifts, with all-round visibility thanks to a clearview mast and low counterweight design. These all help operators to work easier and safer.

Despite its size, the range is precise and agile and offers effortless performance and responsive ergonomic controls, reducing fatigue throughout long shifts.

DRIVE

- **Class-leading six-cylinder engine**
Exceptionally high power and low fuel consumption, even in hard-wearing applications.

FRAME AND BODY

- **Robust design**
Reinforced to minimise stress points during heavy lifting.
- **Low counterweight design**
Rear visibility is optimal.
- **Class-leading forward visibility**
Exceptionally safe thanks to a view that is 20% wider than competitors.

MAST AND FORK ASSEMBLY

- **Robust seven-roller mast construction**
Built to easily deal with the stresses of wide loads.

- **Heavy duty clear-view mast**
Market leading visibility of load and fork tips. Reduces damage and contributes to faster cycle times.

ELECTRICAL AND CONTROL SYSTEMS

- **Long service interval**
High-quality, durable components resist wear for minimal downtime and repair costs.
- **Automatic transmission control**
Effortless electronic control lever offers easy and reliable travel.
- **Electric shift lever**
Changing direction of travel is easy, making load handling smooth.
- **High lift speed**
Fast lifting allows operators to maximise productivity.
- **Integrated Presence System**
Hydraulic and interlock system, parking brake alarm, seatbelt and warning light all make the truck safer to operate.

OPERATOR COMPARTMENT AND CONTROLS

- **Spacious and comfortable operator compartment**
Suitable for a wide range of operator sizes, the ergonomic layout helps to reduce fatigue throughout long shifts, increasing productivity.
- **Automotive-style pedals**
Pedals are placed in a familiar position for intuitive operation.

- **Glove box and pen holder**
Convenient storage for tools.
- **Safe entry/exit**
Low steps and convenient grab handles make entering and exiting the truck easier and safer.

HYDRAULICS

- **Quick access**
Routine fluid checks are easy.

OTHER FEATURES

- **RapidAccess features**
These allow quick and easy entry to all areas for checks and maintenance.
- **Low-noise design**
Among the lowest in its class (just 86dBA) for maximum operator comfort.
- **Memory fuel gauge**
Even when not in service the truck's fuel level can be easily checked.



There is more information on FD70NH - 100NH Series on mitforklift.com

For more extensive information please visit our website mitforklift.com



mft2.eu/fd100

VDI - PERFORMANCE & DIMENSIONS

CHARACTERISTICS						
1.1	Manufacturer (abbreviation)				Mitsubishi	Mitsubishi
1.2	Manufacturer's model designation				FD70NH	FD80NH
1.3	Power source: (battery, diesel, LP gas, petrol)				Diesel	Diesel
1.4	Operator type: pedestrian, (operator)-standing, -seated				Seated	Seated
1.5	Load capacity	Q	kg		7000	8000
1.6	Load center distance	c	mm		600	600
1.8	Load distance, axle to fork face	x	mm		625	720
1.9	Wheelbase	y	mm		2250	2500
WEIGHT						
2.1	Truck weight, without load / including battery (simplex mast, lowest lift height)		kg		9360	10960
2.2	Axle loading with maximum load, front / rear (simplex mast, lowest lift height)		kg		14530 / 1830	17040 / 1940
2.3	Axle loading without load, front / rear (simplex mast, lowest lift height)		kg		3750 / 5610	4820 / 6160
WHEELS, DRIVE TRAIN						
3.1	Tyres: V=solid, L=pneumatic, SE=solid pneumatic - front / rear				L/L	L/L
3.2	Tyre dimensions, front				8.25X15-14PR	9.00X20-14PR
3.3	Tyre dimensions, rear				8.25X15-14PR	9.00X20-14PR
3.5	Number of wheels, front / rear (x=driven)				4x / 2	4x / 2
3.6	Truck width (center of tyres), front	b10	mm		1470	1600
3.7	Truck width (center of tyres), rear	b11	mm		1700	1700
DIMENSIONS						
4.1	Mast tilt, forwards / backwards	α/β	°		6/12	6/12
4.2	Height with mast lowered (see tables)	h1	mm		2500	2700
4.3	Free lift (see tables)	h2	mm		215	205
4.4	Lift height (see tables)	h3	mm		3000	3000
4.5	Overall height with mast raised	h4	mm		4420	4420
4.7	Height to top of overhead guard	h6	mm		2450	2560
4.8	Seat height	h7	mm		1310	1415
4.12	Tow coupling height	h10	mm		430	515
4.19	Overall length	l1	mm		4820	5160
4.20	Length to fork face (includes fork thickness)	l2	mm		3600	3940
4.21	Overall width	b1/b2	mm		1995 / -	2165 / -
4.22	Fork dimensions (thickness, width, length)	s / e / l	mm		70x150x1220	75 x 170 x 1220
4.23	Fork carriage to DIN 15 173 A/B/no				No	No
4.24	Fork carriage width	b3	mm		1710	1810
4.31	Ground clearance under mast, with load	m1	mm		190	245
4.32	Ground clearance at center of wheelbase, with load (forks lowered)	m2	mm		225	320
4.33	Working aisle width with 1000 x 1200 mm pallets, crosswise	Ast	mm		5620	6015
4.34	Working aisle width with 800 x 1200 mm pallets, crosswise				-	-
4.34a	Working aisle width with 800 x 1200 mm pallets, lengthwise	Ast	mm		3020	3290
4.35	Turning circle radius	Wa	mm		3360	3650
4.36	Minimum distance between centers of rotation	b13	mm		1200	1280
PERFORMANCE						
5.1	Travel speed, with / without load		km/h		26.0 / 30.0	25.0 / 30.0
5.2	Lifting speed, with / without load		m/s		0.46 / 0.55	0.45 / 0.47
5.3	Lowering speed, with / without load		m/s		0.45 / 0.50	0.45 / 0.45
5.5	Rated drawbar pull, with / without load		N		52900 / 21600	57300 / 27400
5.6	Maximum drawbar pull, with / without load (5 min short duty)		N		-/-	-/-
5.7	Gradeability, with / without load		%		29 / 19	27 / 19
5.8	Maximum gradeability, with / without load		%		-/-	-/-
5.9	Acceleration time (10 metres) with / without load		s		-/-	-/-
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)				Hydraulic / Mechanical	Hydraulic / Mechanical
IC ENGINE						
7.1	Manufacturer / Type				6BG1	6BG1
7.2	Rated / Nominal output to ISO 1585**		kW		82.4	84.6
7.3	Rated speed to DIN 70 020		rpm		2000	2100
7.4	Number of cylinders / cubic capacity		cm³		6 / 6494	6 / 6494
7.5	Fuel consumption according to VDI 60 cycle	l/h	kg/h		7,2 / -	7,6 / -
7.6	Max torque		Nm		417	417
7.7	Max torque at engine speed		rpm		1500	1500
MISCELLANEOUS						
8.1	Type of drive control				Powershift 2/2	Powershift 2/2
10.1	Maximum operating pressure for attachments		bar		200	200
10.2	Oil flow for attachments		l/min		-/-	-/-
10.7	Noise level, value at operator's ear (EN 12053)		dB(A)		85	85
10.8	Towing coupling design / DIN type, ref.				Pin	Pin

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Spacious and comfortable operator compartment



Easy access for maintenance

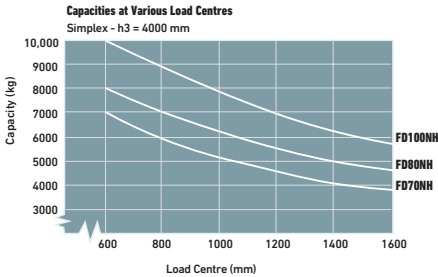
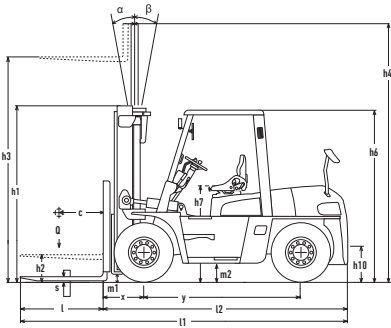
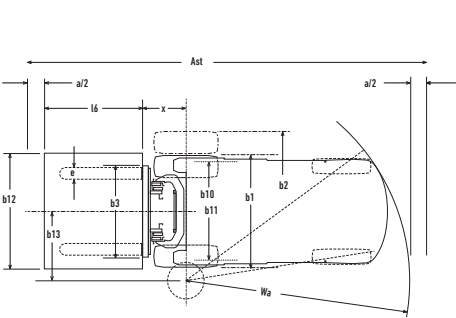
MAST PERFORMANCE AND CAPACITY

FD70–100NH Series

FD70NH							
MAST TYPE	h3 mm	h1 mm	h4 mm		h2/h5 mm		tilt angle fwd /back
			With STD	Without backrest	With STD	Without backrest	
SIMPLEX	3000	2500	4420	4095	215	540	6°/12°
	3300	2650	4720	4395	215	540	6°/12°
	3500	2750	4920	4595	215	540	6°/12°
	4000	3050	5420	5095	215	540	6°/12°
	4500	3300	5920	5595	215	540	6°/12°
	5000	3550	6420	6095	215	540	6°/6°
	5500	3850	6920	6595	215	540	3°/6°
	6000	4100	7420	7095	215	540	3°/6°
DUPLEX	3000	2625	4420	4095	1590	1915	6°/12°
	3300	2775	4720	4395	1740	2065	6°/12°
	3500	2875	4920	4595	1840	2165	6°/12°
	4000	3175	5420	5095	2140	2465	6°/12°
	4500	3425	5920	5595	2390	2715	6°/12°
TRIPLEX	4000	2500	5400	5075	1465	1790	6°/10°
	4350	2625	5750	5425	1590	1915	6°/10°
	4800	2775	6200	5875	1740	2065	6°/10°
	5000	2875	6400	6075	1840	2165	6°/10°
	6000	3300	7400	7075	2265	2590	3°/6°
	7000	3675	8400	8075	2640	2965	3°/6°
	8000	4100	9400	9075	3035	3360	3°/6°

FD80NH							
MAST TYPE	h3 mm	h1 mm	h4 mm		h2/h5 mm		tilt angle fwd /back
			With STD	Without backrest	With STD	Without backrest	
SIMPLEX	3000	2800	4420	4215	205	410	6°/12°
	3300	2950	4720	4515	205	410	6°/12°
	3500	3050	4920	4715	205	410	6°/12°
	4000	3350	5420	5215	205	410	6°/12°
	4500	3600	5920	5715	205	410	6°/12°
	5000	3850	6420	6215	205	410	6°/6°
	5500	4150	6920	6715	205	410	3°/6°
	6000	4400	7420	7215	205	410	3°/6°
DUPLEX	3000	2700	4420	4215	1580	1785	6°/12°
	3300	2850	4720	4515	1730	1935	6°/12°
	3500	2950	4920	4715	1830	2035	6°/12°
	4000	3250	5420	5210	2130	2335	6°/12°
	4500	3500	5920	5715	2380	2585	6°/12°
TRIPLEX	4000	2575	5400	5195	1455	1660	6°/10°
	4350	2700	5750	5545	1580	1785	6°/10°
	4800	2850	6200	5995	1730	1935	6°/10°
	5000	2950	6400	6195	1830	2035	6°/10°
	6000	3375	7400	7195	2255	2460	3°/6°
	7000	3750	8400	8195	2630	2835	3°/6°
	8000	4175	9400	9195	3055	3260	3°/6°

FD100NH							
MAST TYPE	h3 mm	h1 mm	h4 mm		h2/h5 mm		tilt angle fwd /back
			With STD	Without backrest	With STD	Without backrest	
SIMPLEX	3000	2850	4330	-	205	-	6°/12°
	3300	3000	4630	-	205	-	6°/12°
	3500	3100	4830	-	205	-	6°/12°
	4000	3400	5330	-	205	-	6°/12°
	4500	3650	5830	-	205	-	6°/12°
	5000	3900	6330	-	205	-	6°/6°
	5500	4200	6830	-	205	-	3°/6°
	6000	4450	7330	-	205	-	3°/6°



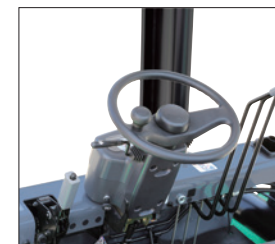
STANDARD EQUIPMENT & OPTIONS

- = Standard
- = Option

	FD70NH	FD80NH	FD100NH
GENERAL OPTIONS			
Default canvas roof	●	●	●
Headguard deletion	●	●	●
2 Rear view mirrors (OHG mounted)	●	●	●
Rear view mirror center mounted	●	●	●
Large size rear view mirror	●	●	●
Heater drivers area	●	●	●
Tilt Cylinder Boots	●	●	●
Tilt Cylinder cover	●	●	●
Power steering Boots	●	●	●
4th & 5th hydraulic valves	●	●	●
Front window with wiper	●	●	●
Enclosed cabin	●	●	●
AIRCO unit for enclosed cabin	●	●	●
HYDRAULIC CONTROL			
2-way control valve MC	●	●	●
3-way control valve MC	●	●	●
4-way control valve MC	●	●	●
5-way control valve MC	●	●	●
MAST, FORKS AND CARRIAGE			
Loose mast	●	●	●
Carriage wide -Simplex	●	●	●
Carriage extra wide -Simplex	●	●	●
Integral sideshifter for shaft type forks - Simplex	●	●	●
Integral sideshifter for hook type forks - Triplex	●	●	●
RAM device	●	●	●
ELECTRIC			
Mast tilt gauge	●	●	●
OK monitor (checks battery fluid-, Air cleaner dust- and Coolant status)	●	●	●
High volume back-up buzzer	●	●	●
Torque converter temperature gauge	●	●	●
Wide range rear working lights	●	●	●
Wide range of Strobe light	●	●	●
Wide range front working lights	●	●	●
TYRES			
Pneumatic Dual tire-drive- / Single tire-steer-	●	●	●
Solid Pneumatic Dual tire-drive- / Single tire-steer-	●	●	●
Solid Pneumatic Dual tire -drive-/ Single tire-steer- (Soft comp.)	●	●	●
AIR INTAKE & EXHAUST			
Air intake pre-cleaner	●	●	●
Double element air cleaner	●	●	●
Catalytic exhaust purifying muffler	●	●	●
Spark arresting & smoke reducing muffler	●	●	●

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7 - 10 tonnes



Dashboard



Meter Panel



Adjustable steering column

WHEN RELIABILITY IS EVERYTHING...



Like any product bearing the "MITSUBISHI" name our materials handling equipment benefits from the tremendous heritage, huge resources and cutting-edge technology of one of the world's largest corporations – Mitsubishi Heavy Industries Group.

Engineering spacecraft, jet planes, power plants and more, MHI specialises in those technologies where performance, dependability and superiority decide your success or failure...

So when we promise you quality, reliability and value for money, you know it's a guarantee we have the power to deliver.

That's why every model in our award-winning and comprehensive range of lift trucks and warehouse equipment is built to a high specification – to ensure it keeps working for you. Day after day. Year after year. Whatever the job. Whatever the conditions.

YOU'LL NEVER WORK ALONE

As your local authorised dealer, we are here to keep your trucks working – through our extensive experience, our technical excellence and our commitment to customer care.

We are your local experts, backed by efficient channels to the entire organisation of Mitsubishi Forklift Trucks.

No matter where you are, we are close by – with the capability to meet your needs.

Discover how Mitsubishi Forklift Trucks give you more from your local authorised dealer or when you visit our website www.mitforklift.com

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. We follow a policy of continual product improvement. For this reason, some materials, options and specifications could change without notice.

info@mitforklift.com

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Mitsubishi Forklift Trucks has earned a reputation for endurance and reliability throughout its award-winning range. Every single electric truck that carries the Mitsubishi Forklift Trucks name has been built with these values in mind.

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