Diesel and LPG Counterbalance 4 Wheel Pneumatic Tyres • 1.5 – 3.5 tonnes FD/FG15N FD/FG18N FD/FG20CN FD/FG25N FD/FG30N FD/FG35N

# **Outstanding performance... exceptional value for money**

Developed to help your operator achieve maximum productivity, GRENDIA sets the highest of standards for IC engine counterbalance forklift trucks. No other forklift truck includes so many advanced features in its standard specification. That's why GRENDIA is such unbeatable value for money. What's more, its durable components, low-maintenance design and fuel economy will continue to keep down the cost of forklift ownership, year after year.

The name GRENDIA means 'Green Diamond': green for environmental protection; diamond for high quality, reliability and sound investments.

Fast, stable and exceptionally powerful, GRENDIA forklift trucks offer a potent combination of high efficiency, low emissions and very low noise levels. To that, Mitsubishi has added a host of ergonomic features to maximise comfort, control and precision. The result is a forklift that can be relied upon to deliver top performance, whatever the application, whatever the conditions.

#### Frame and body

- Stylish but purposeful design reflects this machine's intention to work productively, non-stop, whatever the conditions.
- Robust construction has been designed and rigorously tested to ensure high stability, rigidity and protection.

#### **Mast and fork assembly**

 Heavy-duty, high-visibility masts give dependable, durable performance and clear forward view, for handling of heavy loads in tough environments with total confidence.

#### **Drive**

- Powerful diesel and LPG engines are proven to industrial standard and comply with latest emission control regulations.
- Advanced diesel technology lowers fuel consumption and ensures complete, clean burning – as well as low noise levels.
- Advanced LPG technology includes an engine management system for precise control of performance – with high fuel economy and minimal emissions.
- Advanced, fully floating powertrain maximises gradeability and travel speed while minimising noise and vibration.





# FD15-35N Models

Diesel Counterbalance ● 4 Wheel Pneumatic Tyres ● 1.5 – 3.5 tonnes

	Characteristics										
1.1	Manufacturer (abbreviation)			Mitsubishi	Mitsubishi	Mitsubishi		Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi
1.2	Manufacturer's model designation			FD15N	FD18N	FD20CN		FD20N	FD25N	FD30N	FD35N
1.3	Power source: (battery, diesel, LP gas, petrol)			Diesel	Diesel	Diesel		Diesel	Diesel	Diesel	Diesel
1.4	Operator type: pedestrian, (operator)-standing, -seated			Seated	Seated	Seated		Seated	Seated	Seated	Seated
1.5	Load capacity	Q	kg	1500	1750	2000		2000	2500	3000	3500
1.6	Load centre distance	С	(mm)	500	500	500		500	500	500	500
1.8	Load distance, axle to fork face	х	(mm)	400	400	415		455	455	490	490
1.9	Wheelbase	у	(mm)	1400	1400	1400		1600	1600	1700	1700
	Weight								1		
2.1	Truck weight, without load / including battery (simplex mast, lowest lift height)		kg	2590	2780	3020		3440	3720	4360	4800
2.2	Axle loading with maximum load, front/rear (simplex mast, lowest lift height)		kg	3580 / 480	3940 / 570	4430 / 670		4690 / 730	5480 / 730	6530 / 830	7270 / 1000
2.3	Axle loading without load, front/rear (simplex mast, lowest lift height)		kg	1110 / 1450	1060 / 1700	1120 / 1980		1500 / 1920	1480 / 2230	1780 / 2580	1720 / 3050
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 (L / L)	SE / SE (L / L)
3.2	Tyre dimensions, front			6.50-10	6.50-10	6.50-10		7.00-12	7.00-12	28x9-15	250-15
3.3	Tyre dimensions, rear			5.00-8	5.00-8	5.00-8		6.00-9	6.00-9	6.50-10	6.50-10
3.5	Number of wheels, front/rear (x=driven)			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		960	960	1060	1060
3.7	Track width (centre of tyres), rear	b11	(mm)	900	900	900		980	980	980	980
	Dimensions		. ,								
4.1	Mast tilt, forwards/backwards	α/β	0	6/10	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		2145	2145	2165	2300
4.3	Free lift (see tables)	h2	(mm)	80	80	80		100	100	100	100
4.4	Lift height (see tables)	h3	(mm)	3290	3290	3290		3300	3300	3270	3300
4.5	Overall height with mast raised	h4	(mm)	4340	4340	4340		4360	4360	4330	4360
4.7	Height to top of overhead guard	h6	(mm)	2145	2145	2145		2154	2154	2173	2183
4.8	Seat height	h7	(mm)	1109	1109	1109		1114	1114	1114	1114
4.12	Tow coupling height	h10	(mm)	290	290	290		310	310	330	340
4.19	Overall length	11	(mm)	3330	3371	3429		3558	3625	3795	3860
4.20	Length to fork face (includes fork thickness)	12	(mm)	2260	2301	2359		2488	2555	2725	2790
4.21	Overall width	b1/b2	(mm)	1065/1480	1065/1480	1065/1480		1150 / 1640	1150 / 1640	1275/1710	1275/1710
4.22	Fork dimensions (thickness, width, length)	s/e/l	(mm)	35x100x1070	35x100x1070	35x100x1070		40 x 100 x 1070	40 x 100 x 1070	45 x 125 x 1070	45 x 125 x 1070
4.23	Fork carriage to DIN 15 173 A/B/no		,	2A	2A	2A		2A	2A	3A	3A
4.24	Fork carriage width	b3	(mm)	920	920	920		1000	1000	1000	1000
4.31	Ground clearance under mast, with load	m1	(mm)	110	110	110		115	115	135	150
4.32	Ground clearance at centre of wheelbase, with load (forks lowered)	m2	(mm)	135	135	135		135	135	165	170
4.33	Working aisle width with 1000 x1200 mm pallets, crosswise	Ast	(mm)	3550	3580	3635		3855	3885	4070	4130
4.34	Working aisle width with 800 x1200 mm pallets, crosswise	Ast	(mm)	3350	3380	3435		3655	3685	3870	3930
4.35	Turning circle radius	Wa	(mm)	1950	1980	2022		2196	2233	2380	2440
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	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 / 0.67	0.64 / 0.67	0.51 / 0.54	0.43 / 0.46
5.3	Lowering speed, with/without load		m/s	0.52 / 0.50	0.52 / 0.50	0.52 / 0.50		0.50 / 0.50	0.50 / 0.50	0.53 / 0.50	0.42 / 0.40
5.5	Rated drawbar pull, with/without load			11800 / 11500	11700/ 11500	11400 / 11500		17200 / 16700	17000 / 16600	16600 / 16600	15800 / 15800
5.7	Gradeability, with/without load		%	32/-	28/-	24 / -		35/-	30/-	24/-	20 / -
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
7.4	IC Engine			040015 00 01117	040015 00 01115	0400150001117		0.40 DDD 001111	040 055 550	040 DDD 001133	040 DDD 001111
7.1	Manufacturer / Type		IAM	S4Q2 VE 28,0kW01	S4Q2 VE 28,0kW01	S4Q2 VE 28,0kW01		S4S-DPB 38kW	S4S-DPB 38kW	S4S-DPB 38kW	S4S-DPB 38kW
7.2	Rated output to ISO 1585		kW	28	28	28		38	38	38	38
7.3	Rated speed to DIN 70 020		rpm	2500	2500	2500		2300	2300	2300	2300
7.4	Number of cylinders / cubic capacity	1/4	/cm3	4 / 2505	4 / 2505	4 / 2505		4/3331	4/3331	4/3331	4/3331
7.5	Fuel consumption according to VDI 60 cycle Miscellaneous	ı/n	/ kg/h	*	*	*			<u> </u>	· · · · · · · · · · · · · · · · · · ·	^
8.1	Type of drive control			Powershift / 1	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	62		75	180 75	73	73
8.4	Noise level, value at operator's ear (EN 12053)		dB(A)	۵ <u>۷</u> *	υ <u>∠</u>	02 *		/ o *	/5 *	/ N	/ 3 *
8.5	Towing coupling design / DIN type, ref.		uD(A)	PIN	PIN	PIN		PIN	PIN	PIN	PIN
0.0	τοννιτιά σοαθιτιά περίδιτι τημέν τάρε. τειτ			ΓίΝ	FIN	FIIN	I	L FIN	I MIN	FIIN	FIIN

Continuing improvement may lead to changes in these specifications.





Auto-style controls

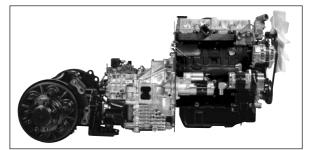
Adjustable steering column





Cowl-mounted levers

Stylish, robust construction



Fully floating powertrain

# GRENDÍA THE GREEN DIAMOND

The green colour of our trucks is a sign of our commitment to protecting the environment.

The diamond shapes in our logo are a reminder that – like a diamond – a Mitsubishi forklift truck guarantees quality, reliability and a sound investment.



<sup>\*</sup> Available on request

# **FG15-35N Models**

LPG Counterbalance ● 4 Wheel Pneumatic Tyres ● 1.5 – 3.5 tonnes

	Characteristics									
1.1	Manufacturer (abbreviation)			Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi
1.2	Manufacturer's model designation			FG15N	FG18N	FG20CN	FG20N	FG25N	FG30N	FG35N
1.3	Power source: (battery, diesel, LP gas, petrol)			LP gas	LP gas	LP gas	LP gas	LP gas	LP gas	LP gas
1.4	Operator type: pedestrian, (operator)-standing, -seated			Seated	Seated	Seated	Seated	Seated	Seated	Seated
1.5	Load capacity	Q	kg	1500	1750	2000	2000	2500	3000	3500
1.6	Load centre distance	С	(mm)	500	500	500	500	500	500	500
1.8	Load distance, axle to fork face	х	(mm)	400	400	415	455	455	490	490
1.9	Wheelbase	у	(mm)	1400	1400	1400	1600	1600	1700	1700
	Weight									
2.1	Truck weight, without load / including battery (simplex mast, lowest lift height)		kg	2530	2730	2960	3340	3610	4250	4700
2.2	Axle loading with maximum load, front/rear (simplex mast, lowest lift height)		kg	3580 / 440	3940 / 520	4420 / 630	4650 / 660	5440 / 670	6490 / 760	7220 / 940
2.3	Axle loading without load, front/rear (simplex mast, lowest lift height)		kg	1110 / 1410	1060 / 1650	1110 / 1940	1460 / 1850	1440 / 2170	1730 / 2520	1680 / 2980
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)			
3.2	Tyre dimensions, front			6.50-10	6.50-10	6.50-10	7.00-12	7.00-12	28x9-15	250-15
3.3	Tyre dimensions, rear			5.00-8	5.00-8	5.00-8	6.00-9	6.00-9	6.50-10	6.50-10
3.5	Number of wheels, front/rear (x=driven)			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	960	960	1060	1060
3.7	Track width (centre of tyres), rear	b11	(mm)	900	900	900	980	980	980	980
	Dimensions		, ,							
4.1	Mast tilt, forwards/backwards	α/β	0	6 / 10	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	2145	2145	2165	2300
4.3	Free lift (see tables)	h2	(mm)	80	80	80	100	100	100	100
4.4	Lift height (see tables)	h3	(mm)	3290	3290	3290	3300	3300	3270	3300
4.5	Overall height with mast raised	h4	(mm)	4340	4340	4340	4360	4360	4330	4360
4.7	Height to top of overhead guard	h6	(mm)	2145	2145	2145	2154	2154	2173	2183
4.8	Seat height	h7	(mm)	1109	1109	1109	1114	1114	1114	1114
4.12	Tow coupling height	h10	(mm)	290	290	290	310	310	330	340
4.19	Overall length	11	(mm)	3330	3371	3429	3558	3625	3795	3860
4.20	Length to fork face (includes fork thickness)	12	(mm)	2260	2301	2359	2488	2555	2725	2790
4.21	Overall width	b1/b2	(mm)	1065/1480	1065/1480	1065/1480	1150 / 1640	1150 / 1640	1275/1710	1275/1710
4.22	Fork dimensions (thickness, width, length)	s/e/I		35x100x1070	35x122x1070	40x122x1070	40 x 100 x 1070	40 x 100 x 1070	45 x 125 x 1070	45 x 125 x 1070
4.23	Fork carriage to DIN 15 173 A/B/no		, ,	2A	2A	2A	2A	2A	3A	3A
4.24	Fork carriage width	b3	(mm)	920	920	920	1000	1000	1000	1000
4.31	Ground clearance under mast, with load	m1	(mm)	110	110	110	115	115	135	150
4.32	Ground clearance at centre of wheelbase, with load (forks lowered)	m2	(mm)	135	135	135	135	135	165	170
4.33	Working aisle width with 1000 x1200 mm pallets, crosswise	Ast	(mm)	3550	3580	3635	3855	3885	4070	4130
4.34	Working aisle width with 800 x1200 mm pallets, crosswise	Ast	(mm)	3350	3380	3435	3655	3685	3870	3930
4.35	Turning circle radius	Wa	(mm)	1950	1980	2022	2196	2233	2380	2440
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	19 / 19.5
5.2	Lifting speed, with/without load		m/s	0.64 / 0.65	0.64 / 0.65	0.64 / 0.65	0.59 / 0.61	0.59 / 0.61	0.52 / 0.53	0.43 / 0.44
5.3	Lowering speed, with/without load		m/s	0.52 / 0.50	0.52 / 0.50	0.52 / 0.50	0.50 / 0.50	0.50 / 0.50	0.53 / 0.50	0.42 / 0.40
5.5	Rated drawbar pull, with/without load		N	15300 / 14800	15100 / 14700	14800 / 14800	15200 / 14900	15000 / 14800	17700 / 17700	16900 / 16900
5.7	Gradeability, with/without load		%	26/-	23/-	28/-	27/-	23/-	22/-	19/-
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
	IC Engine			1/0: : =	1/6 : : 5	1/2 / 1 =	1/04   5	1/04 1 5	VOE LE	VOE LE
7.1	Manufacturer / Type		1347	K21 LE	K21 LE	K21 LE	K21 LE	K21 LE	K25 LE	K25 LE
7.2	Rated output to ISO 1585		kW	41	41	41	41	41	47	47
7.3	Rated speed to DIN 70 020		rpm	2700	2700	2700	2700	2700	2700	2700
7.4	Number of cylinders / cubic capacity		/cm3	4 / 2065	4 / 2065	4 / 2065	4 / 2065	4 / 2065	4 / 2488	4/2488
7.5	Fuel consumption according to VDI 60 cycle	l l/h	/ kg/h	*	*	*	 *	*	*	*
0.4	Miscellaneous			D	B	D	D	D	D 110.11	D
8.1	Type of drive control		bar	Powershift / 1	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	180
8.3	Oil flow for attachments		I/min	60	60	60	68	68	73	73 *
8.4	Noise level, value at operator's ear (EN 12053)		dB(A)	DIN	DIN		DIM	DIN	DIN	
8.5	Towing coupling design / DIN type, ref.			PIN	PIN	PIN	PIN	PIN	PIN	PIN

Continuing improvement may lead to changes in these specifications.





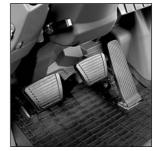
Powerful diesel and LPG engines

Clear-view overhead guard





GRENDIA - setting highest standards Fully hydrostatic steering





Auto-style pedals

Fingertip hydraulic controls (optional)

# **GRENDÍA** THE GREEN DIAMOND

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<sup>\*</sup> Available on request

# FD/FG15-20(C)N Models

FD/FG15N-18N FD/FG20CN FD/FG15N

h4

mm

4050 80

Q @

kg

1500 80

1500 80

1500 80

1500 80

1425 80

1375 80

1000 80

1500

1500

1500

1500

1500

1425

1375

1325

1000

650

450

275

650 80 -

1500 - 945

- 2005

h2/h5

mm

h2/h5 c=500mm

mm

**Mast Performance and Capacity** 

mm

1995

3290 2140 4340 80

3700 2400 4770 80

4090 2585 5140 80

5500 3300 6550 80

6000 3550 7050 80

3000 1995 4050 945

3700 2400 4750 1355

4030 2585 5080 1535

3710 1795 4760 745

4310 1995 5360 945

4750 2140 5800 1095

5090 2260 6140 1215

5490 2400 6540 1355

5990 2585 7040 1535

6490 2845 7540 1795

7000 3050 8050 2005

2790 5530 80

3050 6050 80

2140 4340 1095

1895 5060 845

h3

mm

3000

4480

5000

3295

# GRENDÍA ES

# FD/FG20-25N Models

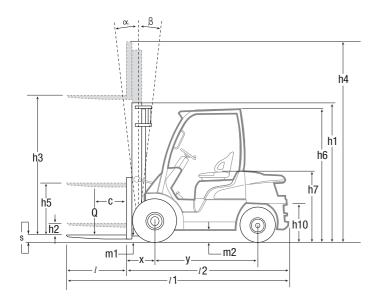
**Mast Performance and Capacity** 

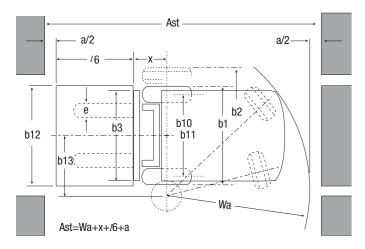
FD/F	G18N		FD/F0	G20CN			FD
	Q @			Q @	1	Mast type	h3
n2/h5	c=500mm	h	2/h5	c=500mm		ĭ Z Z	
mm	kg	r	nm	kg			mm
-	1750	80	-	2000			3000
-	1750	80	-	2000			3300
-	1750	80	-	2000			3740
-	1750	80	-	2000		Simplex	4100
-	1700	80	-	1950		i.i.	4500
-	1400	80	-	1400		os .	5000
-	1000	-	-	-			5500
-	650	-	-	-			6000
945	1750	-	945	2000			3000
1095	1750	-	1095	2000		Duplex	3300
1355	1750	-	1355	2000		D dha	3700
1535	1750	-	1535	2000			4020
745	1750	-	745	2000			3730
845	1750	-	845	2000			4030
945	1700	-	945	1950			4300
1095	1625	-	1095	1900		×	4750
1215	1325	-	1215	1325		Triplex	5060
1355	1000	-	-	-		=	5500
1535	650	-	-	-			5990
1795	450	-	-	-			6490
2005	275	-	-	-			7000

	FD/F	G20N-FD/F	G25N	FD	/FG20N	FD	)/FG25N
Mast type	h3	h1	h4	h2/h5	Q @ c=500mm	h2/h5	Q @ c=500mm
	mm	mm	mm	mm	kg	mm	kg
	3000	1995	4050	100 -	2000	100	2500
	3300	2145	4340	100 -	2000	100	2500
	3740	2410	4770	100 -	2000	100	2500
Se De	4100	2590	5140	100 -	2000	100	2500
Simplex	4500	2800	5530	100 -	2000	100	2500
0,	5000	3050	6050	100 -	1950	100	2400
	5500	3300	6550	100 -	1850*	100	2250*
	6000	3550	7050	100 -	1800*	100	2150*
	3000	1995	4050	- 980	2000	980	2500
Duplex	3300	2145	4340	- 1130	2000	1130	2500
Duk	3700	2410	4750	- 1390	2000	1390	2500
	4020	2590	5080	- 1570	2000	1570	2500
	3730	1800	4760	- 780	2000	780	2500
	4030	1900	5060	- 880	2000	880	2500
	4300	2000	5360	- 980	1950	980	2500
×	4750	2140	5800	- 1130	1900	1130	2400
Triplex	5060	2260	6140	- 1250	1850	1250	2350
=	5500	2400	6540	- 1390	1800	1390	2200*
	5990	2590	7040	- 1570	1750*	1570	2100*
	6490	2850	7540	- 1830	1650*	1830	1750*
	7000	3050	8050	- 2040	1250*	2040	1250*

All dimensions include load backrest. In case load backrest is not used h5 will increase by 390mm (20N, 25N), 350mm (30N), 240mm (35N), while h4 will decrease by 390mm (20N, 25N), 350mm (30N), 240mm (35N). The capacities apply to pneumatic shaped solid tyres (SE).

<sup>\*</sup>Capacities marked with asterisk require truck equipped with dual tyres.





h1 Height with mast lower	h1	Height	with	mast	lowere	90
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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)

Ast = Working aisle width

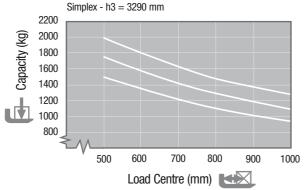
Wa = Turning radius

a = Safety clearance = 2 x 100 mm

.6 = Pallet length

b12 = Pallet width

## FD/FG15-20N Models **Capacities at various load centres**

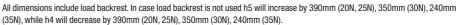


# **GRENDÍA ES**

# FD/FG30-35N Models

**Mast Performance and Capacity** 

			FD/FG30	ON				FD/FG35	5N	
	h3	h1	h4	h2/h5	Q @	h3	h1	h4	h2/h5	Q @
Mast type					c=500mm					c=500mm
	mm	mm	mm	mm	kg	mm	mm	mm	mm	kg
	3030	2050	4090	100	3000	3000	2180	4060	100	3500
	3270	2170	4330	100	3000	3300	2300	4360	100	3500
	3700	2430	4760	100	3000	3720	2510	4780	100	3500
	4000	2610	5060	100	3000	4000	2770	5060	100	3500
Simplex	4500	2870	5560	100	3000	4500	3010	5560	100	3500
	5000	3120	6060	100	2900	5000	3260	6060	100	3500
	5500	3370	6560	100	2800	5500	3510	6560	100	3350
	6000	3640	7060	100	2700	6000	3760	7060	100	3250
	3000	2050	4060	1030	3000	3010	2180	4070	1170	3500
	3250	2170	4310	1150	3000	3300	2300	4360	1290	3500
Duplex	3700	2430	4760	1420	3000	3720	2625	4780	1610	3500
	4010	2610	5070	1600	3000	4000	2770	5060	1750	3500
	3690	1830	4750	810	3000	3730	1940	4790	930	3500
	3990	1930	5050	910	3000	4010	2060	5070	1050	3500
	4320	2050	5380	1030	3000	4390	2180	5450	1170	3500
	4700	2170	5760	1150	3000	4700	2300	5760	1290	3500
Triplex	5060	2290	6120	1270	2900	5030	2450	6090	1430	3450
	5450	2430	6510	1420	2800	5580	2630	6640	1610	3300
	5970	2610	7030	1600	2700	6000	2770	7060	1750	3200
	6470	2870	7530	1860	2350	6510	2940	7570	1930	2350
	7000	3070	8060	2060	1600	7000	3140	8060	2120	1600



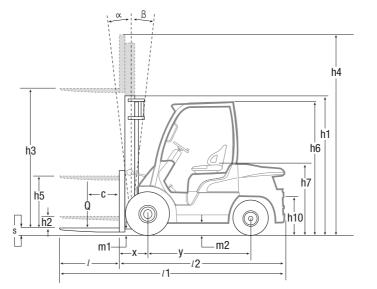
The capacities apply to pneumatic shaped solid tyres (SE).

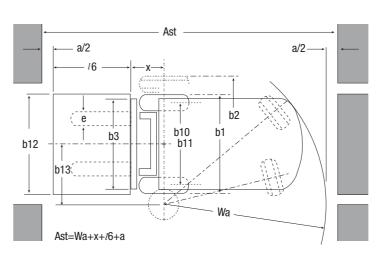


Easy service access



Advanced LPG technology





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)

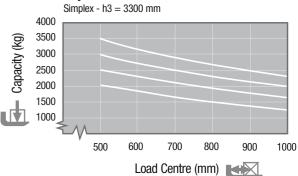
Ast = Working aisle width Wa = Turning radius

a = Safety clearance = 2 x 100 mm

.6 = Pallet length

b12 = Pallet width

## FD/FG20-35N Models **Capacities at various load centres**



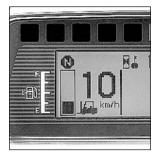




Clear-view mast



Grip/horn for reversing (optional)



Informative LCD display

### **Steering system**

**Fully hydrostatic steering** is responsive, precise and effortless for the operator and requires little maintenance.

#### **Brakes**

**Fully hydrostatic drum** brakes give excellent control with little effort and are easy to maintain.

### **Hvdraulics**

**Powerful hydraulic** system offers high residual capacities for comfortable handling of heavier loads.

### **Electrical and** control systems

- **Integrated Presence** System (IPS) prevents all movement of the truck and its mast if the operator is not seated, as well as providing a seatbelt warning light and parking brake alarm.
- **Operator identification** system can be activated if owner wishes - to prevent unauthorised use of the truck.
- Onboard diagnostics and detailed fault diagnosis via computer connection alerts operators and service enaineers to problems. speeds up servicing and prevents damage.

#### **Operator** compartment and controls

- All-round visibility together with ergonomic design and layout of all controls improves comfort, reduces fatigue, increases precision and raises productivity.
- Fully adjustable, fullsuspension seat with hip restraints and safety belt keeps driver comfortable through the longest of
- Adjustable steering column with memory function helps quarantee optimum driving position, every time.
- **Cowl-mounted hydraulic** levers provide easy-toreach, easy-to-use control of mast operations.
- **Optional fingertip** hydraulic controls integrated into fully adjustable, comfortable armrest allow effortless precision.
- Low noise level at operator's ear and low vibration from powertrain increase comfort and reduce fatigue.
- Clear, informative meter panel includes essential warning lights and LCD display with speedometer, clock and dual hour meter.

- Rapid access features give quick and easy entry to all areas for checks and servicing.
- Long service interval and choice of high-quality components, together with low-maintenance design, minimises downtime and cost of ownership.

#### **Options**

- Panel and fully tiltable cabins
- LED lights
- Fingertip hydraulic controls
- Grip/horn button for reversing
- Load weight indicator
- **Package**
- Clear-view roof panel
- **Dust-Plus Protection Package**
- Speed control

#### **Other features**

- **Clogging Prevention**

- Air conditioner or heater

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# **Integrated Presence System (IPS) provides:**

- a hydraulic and travel interlock system that prevents all movement of the truck and its mast if the driver is not seated
- a seat belt warning light
- a parking brake alarm