



# SPECIFICATION MANUAL

**FB25-35(C)N**



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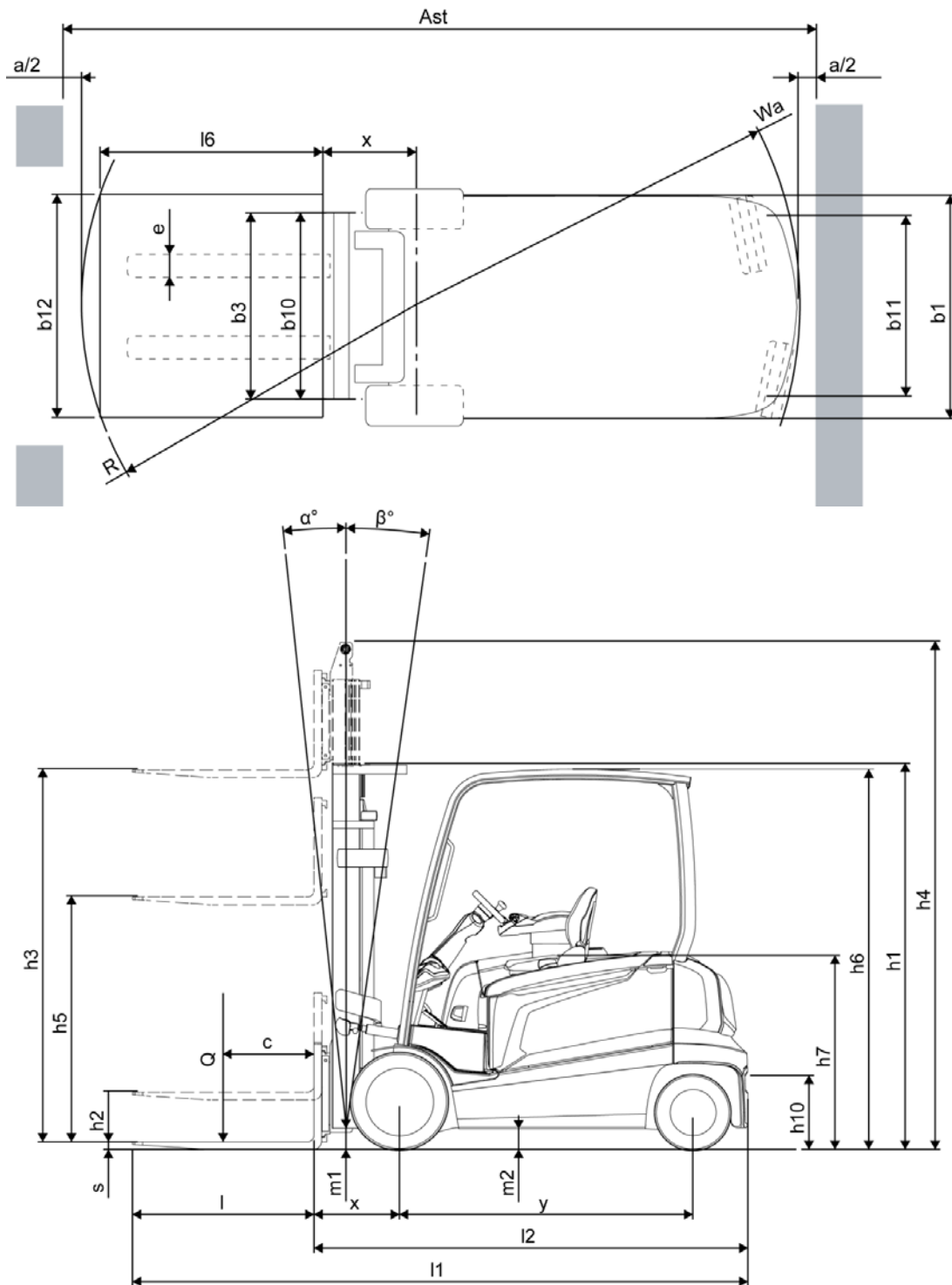
# 1 Standard configuration

		<b>FB25N</b>	<b>FB25CN</b>	<b>FB30N</b>	<b>FB30CN</b>	<b>FB35N</b>
Nominal capacity	kg	2,500	2,500	3,000	3,000	3,500
Load centre	mm	500	500	500	500	500
Fork dimensions (thickness x width x length)	mm	40 x 100 x 1,070	40 x 100 x 1,070	45 x 125 x 1,070	45 x 125 x 1,070	45 x 125 x 1,070
Fork carriage according to DIN 15 173 A/B/no		2A	2A	3A	3A	3A
Voltage	V	80	80	80	80	80
Battery capacity (min – max)	Ah	700 - 775	560 - 620	700 - 775	560 - 620	700 - 775
Traction motor (AC)	kW	2 x 8 kW	2 x 8 kW	2 x 8 kW	2 x 8 kW	2 x 8 kW
Front tire dimensions (pneumatic shaped solid tires)	pcs / mm	2 / 23 x 9-10	2 / 23 x 9-10	2 / 23 x 10-12	2 / 23 x 10-12	2 / 23 x 10-12
Rear tire dimensions (solid pneumatic SE)	pcs / mm	2 / 18 x 7-8	2 / 18 x 7-8	2 / 18 x 7-8	2 / 18 x 7-8	2 / 18 x 7-8
Chassis width, b1	mm	1,190	1,190	1,190	1,190	1,190
Maximum driving speed (without load)	km / h	20	20	20	20	18

## Supplied with:



4-wheel chassis, 80 volts, front wheel dual drive	AC traction and pump control
Basic overhead guard	2 x AC traction motors, 8 kW
Forks with a length of 1,070 mm, equipped with load backrest	AC pump motor 20,8 kW (2.5 t) and 25,5 kW (3.0-3.5 t)
Key pre-set economy or high performance mode (ECO / PRO)	3-valve hydraulic fingertip control mounted on an adjustable armrest
Pneumatic shaped solid tires (super elastic)	Variable hydraulic speed control functions
Wet disc brakes	Full-suspension basic vinyl seat Grammer MSG20
Multifunctional interactive full colour display	Battery compartment side door
Intelligent curve control	LED work lights (2 at the front and 1 at the rear)
Tilttable steering column	EEC name plates - language markings
TruckTool setup and diagnostics	Operations and Maintenance Manual
Principal components with IP 54 rating	DIN battery connectors on frame
PDS (Seat Switch Timeout = all functions are disabled, the truck will go into the stop mode, automatically applied parking brake)	Reverse drive horn button
	Battery door detection sensor

## 1.1 Technical specifications



<b>1</b>		<b>CHARACTERISTICS</b>					
1.1	Manufacturer		Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi
1.2	Manufacturer's model designation		FB25N	FB25CN	FB30N	FB30CN	FB35N
1.3	Power source		Electric	Electric	Electric	Electric	Electric
1.4	Operator type		Seated	Seated	Seated	Seated	Seated
1.5	Load capacity	Q [kg]	2,500	2,500	3,000	3,000	3,500
1.6	Load centre distance	c [mm]	500	500	500	500	500
1.8	Load distance, axle to fork face	x [mm]	476	476	504	504	504
1.9	Wheel base	y [mm]	1,730	1,585	1,730	1,585	1,730
<b>2</b>		<b>WEIGHT</b>					
2.1	Truck weight, without load / including battery (simplex mast, lowest lift height)	[kg]	4,700	4,621	5,152	5,234	5,591
2.2	Axle loading with maximum load, front / rear (simplex mast, lowest lift height)	[kg]	6,336 / 864	6,332 / 789	7,313 / 839	7,355 / 878	8,186 / 904
2.3	Axle loading without load, front / rear (simplex mast, lowest lift height)	[kg]	2,424 / 2,275	2,292 / 2,329	2,571 / 2,581	2,454 / 2,780	2,654 / 2,937
<b>3</b>		<b>WHEELS, DRIVE TRAIN</b>					
3.1	Tires, material (V = solid, L = pneumatic, SE = solid pneumatic), front / rear		SE	SE	SE	SE	SE
3.2	Tire dimensions, front	pcm/ [mm]	23 x 9-10	23 x 9-10	23 x 10-12	23 x 10-12	23 x 10-12
3.3	Tire dimensions, rear	[mm]	18 x 7-8	18 x 7-8	18 x 7-8	18 x 7-8	18 x 7-8
3.5	Number of wheels, front / rear (x = driven)		2x / 2	2x / 2	2x / 2	2x / 2	2x / 2
3.6	Track width (centre of tires), front	b10 [mm]	985	985	950	950	950
3.7	Track width (centre of tires), rear	b11 [mm]	970	970	970	970	970
<b>4</b>		<b>DIMENSIONS</b>					
4.1	Mast tilt, forward / backward	$\partial / \beta$ [°]	6 / 8	6 / 8	6 / 8	6 / 8	6 / 8
4.2	Height with mast lowered (see tables)	h1 [mm]	2,145	2,145	2,165	2,165	2,291
4.3	Free lift (see tables)	h2 [mm]	100	100	100	100	100
4.4	Lift height (see tables)	h3 [mm]	3,300	3,300	3,270	3,270	3,300
4.5	Overall height with mast raised	h4 [mm]	4,355	4,355	4,325	4,325	4,345
4.7	Height to the top of the overhead guard	h6 [mm]	2,240	2,240	2,240	2,240	2,240

4.8	Seat height *	h7 [mm]	1,130	1,130	1,130	1,130	1,130
4.12	Tow coupling height	h10 [mm]	395	395	395	395	395
4.19	Overall length	l1 [mm]	3,600	3,459	3,628	3,487	3,628
4.20	Length to fork face (includes fork thickness)	l2 [mm]	2,530	2,389	2,558	2,417	2,558
4.21	Overall width	b1/b2 [mm]	1,190	1,190	1,190	1,190	1,190
4.22	Fork dimensions (thickness, width, length)	s/e/l [mm]	40 x 100 x 1,070	40 x 100 x 1,070	45 x 125 x 1,070	45 x 125 x 1,070	45 x 125 x 1,070
4.23	Fork carriage to DIN 15 173 A/B/no		2A	2A	3A	3A	3A
4.24	Fork carriage width	b3 [mm]	1,000	1,000	1,000	1,000	1,000
4.31	Ground clearance under mast, with load	m1 [mm]	105	105	115	115	115
4.32	Ground clearance at the centre of wheel base, with load (forks lowered)	m2 [mm]	122	122	122	122	122
4.33	Working aisle width with 1,000 x 1,200 mm pallets, crosswise	Ast [mm]	3,805	3,660	3,830	3,690	3,830
4.34	Working aisle width with 800 x 1,200 mm pallets, lengthwise	Ast [mm]	3,960	3,815	3,985	3,840	3,985
4.35	Turning circle radius	Wa [mm]	2,064	1,920	2,064	1,920	2,064
4.36	Minimum distance between centres of rotation	b13 [mm]	160	160	160	160	160
<b>5</b>	<b>PERFORMANCE</b>						
5.1	Travel speed, with / without load	[km/h]	20 / 20	20 / 20	20 / 20	20 / 20	18 / 18
5.2	Lifting speed, with / without load	[m/s]	0.5 / 0.65	0.5 / 0.65	0.45 / 0.6	0.45 / 0.6	0.45 / 0.6
5.3	Lowering speed, with / without load	[m/s]	0.55 / 0.5	0.55 / 0.5	0.5 / 0.45	0.5 / 0.45	0.5 / 0.45
5.5	Rated drawbar pull, with / without load	[N]	9,300 / 9,700	9,300 / 9,700	9,100 / 9,550	9,100 / 9,550	8,950 / 9,500
5.6	Maximum drawbar pull, with / without load (5 min. short duty)	[N]	15,800 / 16,200	15,800 / 16,200	15,550 / 16,050	15,550 / 16,050	15,400 / 16,000
5.7	Gradeability, with / without load	[%]	15 / 25	15 / 25	13 / 22	13 / 22	12 / 20
5.8	Maximum gradeability, with / without load	[%]	23 / 38	23 / 38	20 / 34	20 / 33	18 / 31
5.9	Acceleration time (10 metres), with / without load	[s]	4.2 / 3.9	4.2 / 3.9	4.3 / 3.9	4.3 / 3.9	4.4 / 3.9
5.10	Service brakes		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic

<b>6</b>		<b>ELECTRIC MOTORS</b>					
6.1	Traction motor capacity (60 min. short duty)	[kW]	2 x 8 kW	2 x 8 kW	2 x 8 kW	2 x 8 kW	2 x 8 kW
6.2	Lift motor output at 15% duty factor	[kW]	20.8	20.8	25.5	25.5	25.5
6.3	Battery to DIN 43 531/35/36 A/B/C/no		43.536A	43.536A	43.536A	43.536A	43.536A
6.4	Battery voltage /min-max capacity	[V/Ah]	80 / 700-775	80 / 560-620	80 / 700-775	80 / 560-620	80 / 700-775
6.5	Battery weight	[kg]	1,863	1,558	1,863	1,558	1,863
6.6	Energy consumption according to VDI 60 cycle	[kWh/h]	-	-	-	-	-
<b>8</b>		<b>MISCELLANEOUS</b>					
8.1	Type of traction control		AC	AC	AC	AC	AC
8.2	Maximum operating pressure for attachments	[bar]	185	185	185	185	**205
8.3	Oil flow for attachments	[l/min]	30	30	30	30	30
8.4	Noise level, value at operator's ear (EN 12053)	[dB (A)]	65	65	66	66	66
8.5	Towing coupling design / DIN type, ref.		DIN15170-H	DIN15170-H	DIN15170-H	DIN15170-H	DIN15170-H
Manufacturer reserves the right to make technical changes.					 		
* h7 values recorded with MSG65 seat. ** Separate option for pressure relief valve when lower pressure needed							



## 2 Energy consumption, noise, vibration and operating temperature

### 2.1 Energy consumption

	FB25N	FB25CN	FB30N	FB30CN	FB35N
Energy consumption according to VDI 60 cycle (kWh/h) ECO mode	9.0	9.0	10.2	10.2	11.1

### 2.2 Level of noise at ear level of the driver according to EN12053 2001 and EN ISO 4871

		FB25N	FB25CN	FB30N	FB30CN	FB35N
In work, LpA	dB A	-	-	66	66	66
Drive / lift/ idle	dB A	67/ 71 / -	67/ 71 / -	71 / 68 / 57	71 / 68 / 57	71 / 68 / 57
Noise level, value at operator's ear (EN12053)	dB A	65	65	66	66	66

### 2.3 Vibration level according to EN13059 2002

		FB25N	FB25CN	FB30N	FB30CN	FB35N
Hole body vibration (MSG65)	m/s <sup>2</sup>	0.9	0.9	0.9	0.9	0.9
Hole body vibration (MSG75)	m/s <sup>2</sup>	0.5	0.5	0.5	0.5	0.5
Hole body vibration (MSG20)	m/s <sup>2</sup>	1.1	1.1	1.1	1.1	1.1
Hand-arm vibration	m/s <sup>2</sup>	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5

## 2.4 Operating temperature

		<b>FB25N</b>	<b>FB25CN</b>	<b>FB30N</b>	<b>FB30CN</b>	<b>FB35N</b>
<b>Truck operating temperature range</b>	°C	-20 / +45	-20 / +45	-20 / +45	-20 / +45	-20 / +45
<b>Hot ambient operating range</b>	°C	N/A	N/A	N/A	N/A	N/A
<b>Cold storage up to -35</b>	°C	N/A	N/A	N/A	N/A	N/A
<b>Cold storage up to -55</b>	°C	N/A	N/A	N/A	N/A	N/A

### 3 Mast availability chart

○	Standard equipment
•	Available option
E	Available, option may extend lead time
—	Not available
CSM	Contact CSM department

#### 3.1 Simplex mast

	LIFT HEIGHT mm h3	CODE	FB25N	FB25CN	FB30N	FB30CN	FB35CN
Simplex mast (S)	3,000	2SP300	•	•	—	—	•
	3,030	2SP300	—	—	•	•	—
	3,270	2SP330	—	—	•	•	—
	3,300	2SP330	•	•	—	—	•
	3,700	2SP370	—	—	•	•	—
	3,720	2SP370	—	—	—	—	•
	3,740	2SP370	•	•	—	—	—
	4,000	2SP400	—	—	•	•	•
	4,100	2SP410	•	•	—	—	—
	4,500	2SP450	•	•	•	•	•
	5,000	2SP500	•	•	•	•	•
	5,500	2SP550	•	•	•	•	•
	6,000	2SP600	•	•	•	•	•

### 3.2 Duplex mast

	LIFT HEIGHT mm h3	CODE	FB25N	FB25CN	FB30N	FB30CN	FB35CN
Duplex mast (DS)	3,000	2FP300	•	•	•	•	—
	3,010	2FP300	—	—	—	—	•
	3,250	2FP330	—	—	•	•	—
	3,300	2FP330	•	•	—	—	•
	3,700	2FP370	•	•	•	•	—
	3,720	2FP370	—	—	—	—	•
	4,000	2FP400	—	—	—	—	•
	4,010	2FP400	—	—	•	•	—
	4,020	2FP400	•	•	—	—	—

### 3.3 Triplex mast

	LIFT HEIGHT mm h3	CODE	FB25N	FB25CN	FB30N	FB30CN	FB35CN
Triplex mast (TR)	3,690	3FP370			•	•	—
	3,730	3FP370	•	•	—	—	•
	3,990	3FP400	—	—	•	•	—
	4,010	3FP400	—	—	—	—	•
	4,030	3FP400	•	•	—	—	—
	4,300	3FP430	•	•	—	—	—
	4,320	3FP430	—	—	•	•	—
	4,390	3FP440	—	—	—	—	•
	4,700	3FP470	—	—	•	•	•
	4,750	3FP480	•	•	—	—	—
	5,030	3FP500	—	—	—	—	•
	5,060	3FP510	•	•	•	•	—
	5,450	3FP550			•	•	—

	<b>LIFT HEIGHT mm h3</b>	<b>CODE</b>	<b>FB25N</b>	<b>FB25CN</b>	<b>FB30N</b>	<b>FB30CN</b>	<b>FB35CN</b>
	5,500	3FP550	•	•	—	—	—
	5,580	3FP560	—	—	—	—	•
	5,970	3FP600	—	—	•	•	—
	5,990	3FP600	•	•	—	—	—
	6,000	3FP600	—	—	—	—	•
	6,470	3FP650	—	—	•	•	—
	6,500	3FP650	•	•	—	—	—
	6,510	3FP650	—	—	—	—	•
	7,000	3FP700	•	•	•	•	•

### 3.4 Tilt angle

	<b>CODE</b>	<b>FB25N</b>	<b>FB25CN</b>	<b>FB30N</b>	<b>FB30CN</b>	<b>FB35N</b>
1.5 degrees forward tilt, standard backward tilt	1.5F/6B	•	•	•	•	•

## 4 Option availability chart



*NOTE: Refer to the Option Manual for option specifications!*

O	Standard equipment
•	Available option
E	Available, option may extend lead time
—	Not available
CSM	Contact CSM department

### 4.1 Hydraulics

	CODE	*	FB25N	FB25CN	FB30N	FB30CN	FB35N
3-way valve armrest-mounted fingertip control (FC)	3V/FC		O	O	O	O	O
4-way valve armrest-mounted fingertip control (FC)	4V/FC		•	•	•	•	•
5-way valve armrest-mounted fingertip control (FC)	5VFC		•	•	•	•	•
3-way valve manual control (MC)	3V/MC		•	•	•	•	•
4-way valve manual control (MC)	4V/MC		•	•	•	•	•
Double action FC 3 V, for clamp usage	D/A 3VFC		•	•	•	•	•
Double action FC 4 V, for clamp usage	D/A 4VFC		•	•	•	•	•
Double action MC 3 V, for clamp usage	D/A 3VMC		•	•	•	•	•
Double action MC 4 V, for clamp usage	D/A 4VMC		•	•	•	•	•
Hydraulic accumulator	HYD/ACC		•	•	•	•	•
Adjustable hydraulic pressure (for 3 <sup>rd</sup> and 4 <sup>th</sup> valve)	VRLF		•	•	•	•	•
Food grade hydraulic oil	FGHYD/OIL		•	•	•	•	•

	CODE	*	FB25N	FB25CN	FB30N	FB30CN	FB35N
Biodegradable hydraulic oil	BGHYD/OIL		•	•	•	•	•
3-way piping for simplex mast	3V/PS		•	•	•	•	•
3-way piping for duplex mast	3V/PD		•	•	•	•	•
3-way piping for triplex mast	3V/PT		•	•	•	•	•
4-way piping for simplex mast	4V/PS		•	•	•	•	•
4-way piping for duplex mast	4V/PD		•	•	•	•	•
4-way piping for triplex mast	4V/PT		•	•	•	•	•
5-way mast piping	CSM		CSM	CSM	CSM	CSM	CSM

## 4.2 Frame

	CODE	*	FB25N	FB25CN	FB30N	FB30CN	FB35N
Chassis, standard (battery lift-out version)			○	○	○	○	○
Battery sideway exchange (SWE) chassis	SWE		•	•	•	•	•
Roller bed, chassis integrated (battery SWE)	BATT/ROLL		•	•	•	•	•
Battery tray, roller guided (battery SWE)	SWE/TRY		•	•	•	•	•
Battery sideway exchange tool	SWE/TOOL		•	•	•	•	•
T-bar battery stand	T-PARK		•	•	•	•	•

## 4.3 Overhead guard

	CODE	*	FB25N	FB25CN	FB30N	FB30CN	FB35N
Basic overhead guard			○	○	○	○	○
Special (RAL) colour for overhead guard	SP/CLR HG		•	•	•	•	•

## 4.4 Lighting

	CODE	*	FB25N	FB25CN	FB30N	FB30CN	FB35N
LED working lights, front & rear			○	○	○	○	○
Automated reversing light			○	○	○	○	○
Auto light switch	AUTO/LIGHT		●	●	●	●	●
Amber strobe	STRB		●	●	●	●	●
Amber strobe mounted low	STRB/L		●	●	●	●	●
“Blue point” rear light	FLR/SPOT/R		●	●	●	●	●
“Blue point” rear light mounted low	FLR/SPOT/L		●	●	●	●	●
Working lights deletion	LDCX		●	●	●	●	●

## 4.5 Electrical system

	CODE	*	FB25N	FB25CN	FB30N	FB30CN	FB35N
Smart backup alarm (automatically adapting sound level)	SMART		●	●	●	●	●
Current output, including a 12 V DC/DC converter, 300 W	DC300W		●	●	●	●	●
12 V connector	12V CONN		●	●	●	●	●
Operator Presence Pedal (OPP)	OP/P		●	●	●	●	●
Dual pedal layout	DOUBLE/P		●	●	●	●	●
FW/BW direction control switch in armrest (FC)	ARMDC		○	○	○	○	○
FNR (Forward-Neutral-Reverse) steering column lever (standard for MC optional for FC)	FNR		●	●	●	●	●
Road light kit, including a column lever	RLDC		●	●	●	●	●



## 4.6 Electronic features

	CODE	*	FB25N	FB25CN	FB30N	FB30CN	FB35N
PIN code access after Start switch	PIN		•	•	•	•	•
Automated performance reduction based on lift height	PERF/LH		•	•	•	•	•
Tilt angle sensor / display status indication incl. in TILT/C	TILT/SEN		•	•	•	•	•
Automatic tilt centering via the F2 button with FC	TILT/C		•	•	•	•	•
Load weight indicator in steps of 50 kg, overload indication via the display and buzzer	LWI		•	•	•	•	•

## 4.7 Weather protection / roof

	CODE	*	FB25N	FB25CN	FB30N	FB30CN	FB35N
Front screen, wiper and washer, high visibility overhead guard, slot cover	FR+TP		•	•	•	•	•
Front and rear screens, wiper and washer, high visibility overhead guard, slot cover	REAR	<sup>1)</sup>	•	•	•	•	•

<sup>1)</sup> Available in combination with FR+TP.

## 4.8 Weather protection / cabin

	CODE	*	FB25N	FB25CN	FB30N	FB30CN	FB35N
Steel doors	STL/D	<sup>2)</sup>	•	•	•	•	•
PVC doors	PVC/D	<sup>2)</sup>	•	•	•	•	•
Sun visor	SUN VISOR	<sup>2)</sup>	•	•	•	•	•
Interior package	INT/LINING	<sup>2)</sup> <sup>3)</sup>	•	•	•	•	•
Heater	HEAT	<sup>2)</sup>	•	•	•	•	•
Delux cabin	LUX/CABIN		•	•	•	•	•

<sup>2)</sup> Available in combination with REAR and doors.

<sup>3)</sup> Interior package includes reading light, roof liner, radio and speakers.

## 4.9 Operator's cabin / seat

	CODE		FB25N	FB25CN	FB30N	FB30CN	FB35N
Standard full suspension vinyl seat (MSG 20) including seat belt	SEAT		○	○	○	○	○
Left armrest for MSG20	ARMREST		●	●	●	●	●
Standard with seat belt switch	SBI		●	●	●	●	●
Full suspension seat MSG65, vinyl	SEAT/LX		●	●	●	●	●
Left armrest for MSG65	ARMRST/LX		●	●	●	●	●
Full suspension seat MSG65, vinyl with heater	S/HEAT/LX		●	●	●	●	●
Backrest extension for MSG65, vinyl	BR/LX		●	●	●	●	●
Full suspension seat MSG65, cloth	SEAT/C		●	●	●	●	●
Full suspension seat MSG65, cloth with heater	S/HEAT/C		●	●	●	●	●
Backrest extension for MSG65, cloth	BR/C		●	●	●	●	●
Air suspension seat MSG75, vinyl	SEAT/SLX	<sup>4)</sup>	●	●	●	●	●
Air suspension seat MSG75, vinyl with heater	S/HEAT/SLX	<sup>4)</sup>	●	●	●	●	●
Air suspension seat MSG75, cloth	SEAT/CLX	<sup>4)</sup>	●	●	●	●	●
Air suspension seat MSG75, cloth with heater	S/HEAT/CLX	<sup>4)</sup>	●	●	●	●	●

<sup>4)</sup> Left armrest and backrest extension are standard features in the MSG75 seat.

## 4.10 Operator's cabin / accessories

	CODE	*	FB25N	FB25CN	FB30N	FB30CN	FB35N
Rear view mirror	RVM		•	•	•	•	•
External rear view mirror (left and right)	RVM/O		•	•	•	•	•
Dead angle mirror	BS/M		•	•	•	•	•
Wide view mirror	WVM		•	•	•	•	•
A4 size paper holder	LBA4		•	•	•	•	•
Accessory clamp (without cabin)	ACS/CLAMP		•	•	•	•	•
Fire extinguisher	P/EXT		•	•	•	•	•

## 4.11 Specials

	CODE	*	FB25N	FB25CN	FB30N	FB30CN	FB35N
Special color (RAL) for the frame and counterweight	SP/CLR FR		•	•	•	•	•

## 4.12 Battery

	CODE	*	FB25N	FB25CN	FB30N	FB30CN	FB35N
Classic 620 (Ah)	BW80D620E		—	•	—	•	—
Classic 775 (Ah)	BW80D775E		•	—	•	—	•
Battery Hawker 620 (Ah)	BW80D630A		—	•	—	•	—
Battery Hawker 775 (Ah)	BW80D775A		•	—	•	—	•
Battery Hoppecke 620 (Ah)	BW80D630H		—	•	—	•	—
Battery Hoppecke 775 (Ah)	BW80D775H		•	—	•	—	•

## 4.13 Battery charger

	CODE	*	FB25N	FB25CN	FB30N	FB30CN	FB35N
Charger Classic HP 80 / 60 (3 phase / 12 h) 620	CH80/60E		—	•	—	•	—
Charger Classic HP 80 / 70 (3 phase / 12 h) 775	CH80/70E		•	—	•	—	•
Charger Classic HP 80 / 80 (3 phase / 8 h) 620	CH80/80E		—	•	—	•	—
Charger Classic HP 80 / 100 (3 phase / 8 h) 775	CH80/100E		•	—	•	—	•
Charger Hawker TE 80 / 100 (3 phase / 32 A / 12 h) 620 <b>NOTE:</b> Not yet available.	CH80/100A		—	•	—	•	—
Charger Hawker TE 80 / 120 (3 phase / 32 A / 12 h) 775	CH80/120A		•	—	•	—	•
Charger Hawker 8TSE 80 / 120 (1 or 3 phase / 32 A / 8 h) 620 <b>NOTE:</b> Not yet available.	CH880/100A		—	•	—	•	—
Charger Hawker 8TSE 80 / 140 (1 or 3 phase / 32 A / 8 h) 775 <b>NOTE:</b> Not yet available.	CH880/140A		•	—	•	—	•
Charger Hoppecke D400 G80 / 85 B-F 15 FS (3 phase / 12 h) 620	CH80/085H		—	•	—	•	—
Charger Hoppecke D400 G80 / 110 B-F 15 FS (3 phase / 12 h) 775	CH80/110H		•	—	•	—	•
Charger Hoppecke D80 / 110 B-F 15 FS (1 or 3 phase / 8 h) 620 <b>NOTE:</b> Not yet available.	CH880/110H		—	•	—	•	—
Charger Hoppecke D80 / 135 B-F 15 FS (1 or 3 phase / 8 h) 775	CH880/135H		•	—	•	—	•

## 4.14 Battery options

	CODE	*	FB25N	FB25CN	FB30N	FB30CN	FB35N
Classic battery water filling plug (80 V / 40 cells)	BQFS80E		•	•	•	•	•
Hawker battery water filling plug (80 V / 40 cells)	BQFS80A		•	•	•	•	•
Hoppecke battery water filling plug (80 V / 40 cells)	BQFS80H		•	•	•	•	•

## 4.15 Language markings



*NOTE: If language markings are not specified, standard configuration English markings will be applied!*

	CODE	*	FB25N	FB25CN	FB30N	FB30CN	FB35N
English language markings	MEN		•	•	•	•	•
French language markings	MFR		•	•	•	•	•
Bulgarian language markings	MBU		•	•	•	•	•
Czech language markings	MCZ		•	•	•	•	•
Danish language markings	MDA		•	•	•	•	•
Dutch language markings	MDU		•	•	•	•	•
Finnish language markings	MFI		•	•	•	•	•
German language markings	MGE		•	•	•	•	•
Greek language markings	MGR		•	•	•	•	•
Italian language markings	MIT		•	•	•	•	•
Norwegian language markings	MNO		•	•	•	•	•
Polish language markings	MPL		•	•	•	•	•
Portuguese language markings	MPO		•	•	•	•	•
Romanian language markings	MRO		•	•	•	•	•
Spanish language markings	MSP		•	•	•	•	•
Swedish language markings	MSW		•	•	•	•	•

	<b>CODE</b>	<b>*</b>	<b>FB25N</b>	<b>FB25CN</b>	<b>FB30N</b>	<b>FB30CN</b>	<b>FB35N</b>
Slovakian language markings	MSK		•	•	•	•	•
Slovenian language markings	MSE		•	•	•	•	•
Estonian language markings	MES		•	•	•	•	•
Russian language markings	MRU		•	•	•	•	•
Hungarian language markings	MHU		•	•	•	•	•
Latvian language markings	MLA		•	•	•	•	•
Lithuanian language markings	MLI		•	•	•	•	•
Croatian language markings	MCR		•	•	•	•	•
Turkish language markings	MTU		•	•	•	•	

## 5 Forks and carriages

○	Standard equipment
•	Available option
E	Available, option may extend lead time
—	Not available
CSM	Contact CSM department

### 5.1 Forks

	LENGTH (mm)	CODE	FB25N	FB25CN	FB30N	FB30CN	FB35N
100 mm x 40 mm	920	L900	•	—	—	—	—
	1,070	L1100	○	○	—	—	—
	1,150	L1150	•	•	—	—	—
	1,220	L1200	•	•	—	—	—
	1,370	L1400	•	•	—	—	—
120 mm x 40 mm	1,520	L1500	•	•	—	—	—
	1,670	L1700	•	•	—	—	—
	1,820	L1800	•	•	—	—	—
	1,970	L2000	•	•	—	—	—
125 mm x 40 mm	1,070	L1100	—	—	○	○	○
	1,150	L1150	—	—	•	•	•
	1,220	L1200	—	—	•	•	•
	1,370	L1400	—	—	•	•	•
	1,520	L1500	—	—	•	•	•
	1,670	L1700	—	—	•	•	•
	1,820	L1800	—	—	•	•	•
	1,970	L2000	—	—	•	•	•
Fork deletion		FX	•	•	•	•	•

## 5.2 Carriages

	CODE	FB25N	FB25CN	FB30N	FB30CN	FB35N
Sideshift, width 1,000 mm	SS100	•	•	•	•	•
Integrated sideshift, width 1,000 mm	INSS100	•	•	•	•	•
Integrated sideshift + fork positioner	INSS/FP	•	•	•	•	•

## 5.3 Load backrest

	CODE	FB25N	FB25CN	FB30N	FB30CN	FB35N
Load backrest	BACKREST	•	•	•	•	•
Load backrest deletion	BRX	•	•	•	•	•



## 6 Wheels

○	Standard equipment
•	Available option
E	Available, option may extend lead time
—	Not available
CSM	Contact CSM department

	CODE	FB25N	FB25CN	FB30N	FB30CN	FB35N
Solid ElasticTires (SE) 23x9-10/18 x 7-8	US/US	○	○	—	—	—
Solid ElasticTires (SE) 23x10-12/18 x 7-8	US/US	—	—	○	○	○
Pneumatic tires 23x10-12/18 x 7-8	LS/LS	•	•	CSM	CSM	—
Non-marking solid tires 23x9-10/18 x 7-8	NM/US	•	•	—	—	—
Non-marking solid tires 23x10-12/18 x 7-8	NM/US	—	—	•	•	•
Cushion tires 22 x 12 x 16/18 x 7-12	CS/CS	•	•	•	•	•
Non-marking cushion tires 22 x 12 x 16/18 x 7-12	NM/CS	•	•	•	•	•
Wide stance drive wheels 23x12-12 (Dimension b2=1280mm / fender to fender)	US/US/WT	•	•	•	•	•
Non-marking Wide stance drive wheels 23x12-13 (Dimension b2=1280mm / fender to fender)	NM/WS	•	•	•	•	•

## 7 Ground pressure



*NOTE: All the values correspond to standard truck configuration including the truck operator and a 3,000 m mast.*

### 7.1 Standard SE tire

			<b>FB25N</b>	<b>FB25CN</b>	<b>FB30N</b>	<b>FB30CN</b>	<b>FB35N</b>
<b>Without load</b>	Front wheel	kg/cm <sup>3</sup>	7,4	7,1	8,6	8,5	8,7
	Rear wheel	kg/cm <sup>3</sup>	10,6	10,7	11,1	11,4	11,7
<b>With load</b>	Front wheel	kg/cm <sup>3</sup>	12,5	12,5	12,9	12,9	13,6
	Rear wheel	kg/cm <sup>3</sup>	7,3	7,1	7,2	7,4	7,4

\* 2SP3300, without operator

### 7.2 Wide thread tire

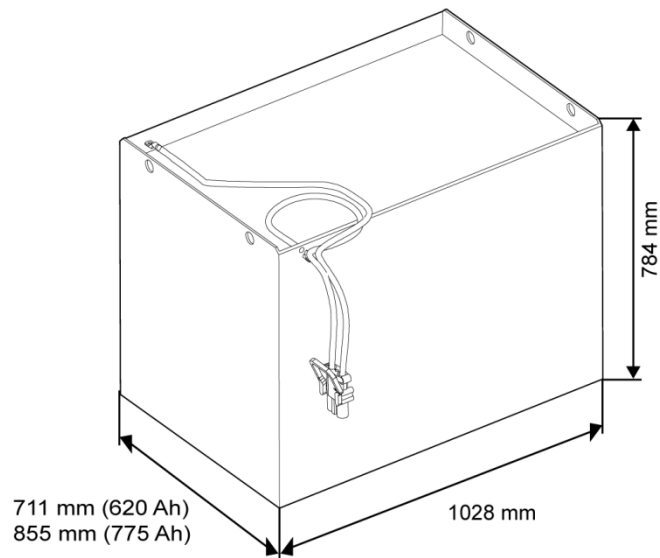
			<b>FB25N</b>	<b>FB25CN</b>	<b>FB30N</b>	<b>FB30CN</b>	<b>FB35N</b>
<b>Without load</b>	Front wheel	kg/cm <sup>3</sup>	8,3	8,1	8,4	8,3	8,5
	Rear wheel	kg/cm <sup>3</sup>	10,6	10,7	11,1	11,4	11,7
<b>With load</b>	Front wheel	kg/cm <sup>3</sup>	12,3	12,3	13,2	13,3	14,0
	Rear wheel	kg/cm <sup>3</sup>	7,3	7,1	7,2	7,4	7,4

\* 2SP3300, without operator

## 8 Battery dimensions

		<b>FB25N</b>	<b>FB25CN</b>	<b>FB30N</b>	<b>FB30CN</b>	<b>FB35N</b>
Battery voltage	V	80	80	80	80	80
Capacity at a 5-hour discharge	Ah	700-775	560-620	700-775	560-620	700-775
Battery weight (+/-5%)	kg	1,863	1,558	1,863	1,558	1,863
Battery box dimensions (mm)	Length	1,028	1,028	1,028	1,028	1,028
	Width	855	711	855	711	855
	Height	784	784	784	784	784
Battery compartment size (mm)	Length	1,056	1,056	1,056	1,056	1,056
	Width	865	720	865	720	865
	Height	790	790	790	790	790

\* 5 mm tolerance



## 9 Mast capacity charts

### 9.1 FB25N

MAST TYPE	h3+s mm	h1 mm	h4 mm	h2/h5 * mm	TILT ANGLE (FRW-REV) °	NOMINAL CAPACITY @ LCD = 500/600 mm ** kg	Q @ LCD = 500 mm kg	Q @ LCD = 600 mm kg
Simplex	3,000	1,995	4,055	100	6/8	2,500 / 2,250	2,500	2,250
	3,300	2,145	4,355	100	6/8	2,500 / 2,250	2,500	2,250
	3,740	2,410	4,795	100	6/8	2,500 / 2,250	2,500	2,250
	4,100	2,590	5,155	100	6/8	2,500 / 2,250	2,500	2,250
	4,500	2,800	5,555	100	6/8	2,500 / 2,250	2,500	2,250
	5,000	3,050	6,055	100	6/8	2,500 / 2,250	2,500	2,250
	5,500	3,300	6,555	100	6/4	2,500 / 2,250	2,500	2,250
	6,000	3,550	7,055	100	6/4	2,500 / 2,250	2,450	2,250
Duplex	3,000	1,995	4,055	940	6/8	2,500 / 2,250	2,500	2,250
	3,300	2,145	4,355	1,090	6/8	2,500 / 2,250	2,500	2,250
	3,700	2,410	4,755	1,355	6/8	2,500 / 2,250	2,500	2,250
	4,020	2,590	5,075	1,535	6/8	2,500 / 2,250	2,500	2,250
Triplex	3,730	1,805	4,785	750	6/6	2,500 / 2,250	2,500	2,250
	4,030	1,905	5,085	850	6/6	2,500 / 2,250	2,500	2,250
	4,300	1,995	5,355	940	6/6	2,500 / 2,250	2,500	2,250
	4,750	2,145	5,805	1,090	6/6	2,500 / 2,250	2,500	2,250
	5,060	2,265	6,115	1,210	6/6	2,500 / 2,250	2,500	2,250
	5,500	2,410	6,555	1,355	6/6	2,500 / 2,250	2,500	2,250
	5,990	2,590	7,045	1,535	6/4	2,500 / 2,250	2,400	2,250
	6,500	2,850	7,555	1,795	6/4	2,500 / 2,250	1,950	1,950
	7,000	3,050	8,055	1,995	6/4	2,500 / 2,250	1,500	1,500

\* h5 including load support (without load support increase of 305 mm for duplex and 465 mm for triplex)

\*\* up to 3,700 mm

## 9.2 FB25CN

MAST TYPE	h3+s mm	h1 mm	h4 mm	h2/h5 * mm	TILT ANGLE (FRW-REV) °	NOMINAL CAPACITY @ LCD = 500/600 mm ** kg	Q @ LCD = 500 mm kg	Q @ LCD = 600 mm kg
Simplex	3,000	1,995	4,055	100	6/8	2,500 / 2,250	2,500	2,250
	3,300	2,145	4,355	100	6/8	2,500 / 2,250	2,500	2,250
	3,740	2,410	4,795	100	6/8	2,500 / 2,250	2,500	2,250
	4,100	2,590	5,155	100	6/8	2,500 / 2,250	2,500	2,250
	4,500	2,800	5,555	100	6/8	2,500 / 2,250	2,500	2,250
	5,000	3,050	6,055	100	6/8	2,500 / 2,250	2,450	2,250
	5,500	3,300	6,555	100	6/4	2,500 / 2,250	2,400	2,200
	6,000	3,550	7,055	100	6/4	2,500 / 2,250	2,300	2,100
Duplex	3,000	1,995	4,055	940	6/8	2,500 / 2,250	2,500	2,250
	3,300	2,145	4,355	1,090	6/8	2,500 / 2,250	2,500	2,250
	3,700	2,410	4,755	1,355	6/8	2,500 / 2,250	2,500	2,250
	4,020	2,590	5,075	1,535	6/8	2,500 / 2,250	2,500	2,250
Triplex	3,730	1,805	4,785	750	6/6	2,500 / 2,250	2,500	2,250
	4,030	1,905	5,085	850	6/6	2,500 / 2,250	2,500	2,250
	4,300	1,995	5,355	940	6/6	2,500 / 2,250	2,500	2,250
	4,750	2,145	5,805	1,090	6/6	2,500 / 2,250	2,500	2,250
	5,060	2,265	6,115	1,210	6/6	2,500 / 2,250	2,450	2,250
	5,500	2,410	6,555	1,355	6/6	2,500 / 2,250	2,350	2,200
	5,990	2,590	7,045	1,535	6/4	2,500 / 2,250	2,300	2,100
	6,500	2,850	7,555	1,795	6/4	2,500 / 2,250	2,100	2,050
	7,000	3,050	8,055	1,995	6/4	2,500 / 2,250	1,600	1,600

\* h5 including load support (without load support increase of 305 mm for duplex and 465 mm for triplex)

\*\* up to 3,700 mm

### 9.3 FB30N

MAST TYPE	h3+s mm	h1 mm	h4 mm	h2/h5 * mm	TILT ANGLE (FRW-REV) °	NOMINAL CAPACITY @ LCD = 500/600 mm ** kg	Q @ LCD = 500 mm kg	Q @ LCD = 600 mm kg
Simplex	3,030	2,045	4,085	100	6/8	3,000 / 2,700	3,000	2,700
	3,270	2,165	4,325	100	6/8	3,000 / 2,700	3,000	2,700
	3,700	2,430	4,755	100	6/8	3,000 / 2,700	3,000	2,700
	4,000	2,610	5,055	100	6/8	3,000 / 2,700	3,000	2,700
	4,500	2,870	5,555	100	6/8	3,000 / 2,700	3,000	2,700
	5,000	3,120	6,055	100	6/8	3,000 / 2,700	3,000	2,700
	5,500	3,370	6,555	100	6/4	3,000 / 2,700	2,900	2,700
	6,000	3,635	7,055	100	6/4	3,000 / 2,700	2,650	2,600
Duplex	3,000	2,035	4,055	980	6/8	3,000 / 2,700	3,000	2,700
	3,250	2,165	4,305	1,110	6/8	3,000 / 2,700	3,000	2,700
	3,700	2,430	4,755	1,375	6/8	3,000 / 2,700	3,000	2,700
	4,010	2,610	5,065	1,555	6/8	3,000 / 2,700	3,000	2,700
Triplex	3,690	1,825	4,745	770	6/6	3,000 / 2,700	3,000	2,700
	3,990	1,925	5,045	870	6/6	3,000 / 2,700	3,000	2,700
	4,320	2,045	5,375	990	6/6	3,000 / 2,700	3,000	2,700
	4,700	2,165	5,755	1,110	6/6	3,000 / 2,700	3,000	2,700
	5,060	2,285	6,115	1,230	6/6	3,000 / 2,700	3,000	2,700
	5,450	2,430	6,505	1,375	6/6	3,000 / 2,700	2,900	2,700
	5,970	2,610	7,025	1,555	6/4	3,000 / 2,700	2,750	2,600
	6,470	2,870	7,525	1,815	6/4	3,000 / 2,700	2,100	2,100
	7,000	3,070	8,055	2,015	6/4	3,000 / 2,700	1,600	1,600

\* h5 including load support (without load support increase of 305 mm for duplex and 465 mm for triplex)

\*\* up to 3,700 mm

## 9.4 FB30CN

MAST TYPE	h3+s mm	h1 mm	h4 mm	h2/h5 * mm	TILT ANGLE (FRW-REV) °	NOMINAL CAPACITY @ LCD = 500/600 mm ** kg	Q @ LCD = 500 mm kg	Q @ LCD = 600 mm kg
Simplex	3,030	2,045	4,085	100	6/8	3,000 / 2,700	3,000	2,700
	3,270	2,165	4,325	100	6/8	3,000 / 2,700	3,000	2,700
	3,700	2,430	4,755	100	6/8	3,000 / 2,700	3,000	2,700
	4,000	2,610	5,055	100	6/8	3,000 / 2,700	3,000	2,700
	4,500	2,870	5,555	100	6/8	3,000 / 2,700	3,000	2,700
	5,000	3,120	6,055	100	6/8	3,000 / 2,700	2,900	2,700
	5,500	3,370	6,555	100	6/4	3,000 / 2,700	2,800	2,600
	6,000	3,635	7,055	100	6/4	3,000 / 2,700	2,700	2,500
Duplex	3,000	2,035	4,055	980	6/8	3,000 / 2,700	3,000	2,700
	3,250	2,165	4,305	1,110	6/8	3,000 / 2,700	3,000	2,700
	3,700	2,430	4,755	1,375	6/8	3,000 / 2,700	3,000	2,700
	4,010	2,610	5,065	1,555	6/8	3,000 / 2,700	3,000	2,700
Triplex	3,690	1,825	4,745	770	6/6	3,000 / 2,700	3,000	2,700
	3,990	1,925	5,045	870	6/6	3,000 / 2,700	3,000	2,700
	4,320	2,045	5,375	990	6/6	3,000 / 2,700	3,000	2,700
	4,700	2,165	5,755	1,110	6/6	3,000 / 2,700	2,950	2,700
	5,060	2,285	6,115	1,230	6/6	3,000 / 2,700	2,850	2,650
	5,450	2,430	6,505	1,375	6/6	3,000 / 2,700	2,800	2,600
	5,970	2,610	7,025	1,555	6/4	3,000 / 2,700	2,650	2,500
	6,470	2,870	7,525	1,815	6/4	3,000 / 2,700	2,000	2,000
	7,000	3,070	8,055	2,015	6/4	3,000 / 2,700	1,450	1,450

\* h5 including load support (without load support increase of 305 mm for duplex and 465 mm for triplex)

\*\* up to 3,700 mm

## 9.5 FB35N

MAST TYPE	h3+s mm	h1 mm	h4 mm	h2/h5 * mm	TILT ANGLE (FRW-REV) °	NOMINAL CAPACITY @ LCD = 500/600 mm ** kg	Q @ LCD = 500 mm kg	Q @ LCD = 600 mm kg
Simplex	3,000	2,170	4,045	100	6/8	3,500 / 3,150	3,500	3,150
	3,300	2,290	4,345	100	6/8	3,500 / 3,150	3,500	3,150
	3,720	2,500	4,765	100	6/8	3,500 / 3,150	3,500	3,150
	4,000	2,755	5,045	100	6/8	3,500 / 3,150	3,500	3,150
	4,500	3,000	5,545	100	6/8	3,500 / 3,150	3,500	3,150
	5,000	3,250	6,045	100	6/8	3,500 / 3,150	3,500	3,150
	5,500	3,500	6,545	100	6/4	3,500 / 3,150	3,400	3,150
	6,000	3,750	7,045	100	6/4	3,500 / 3,150	2,800	2,800
Duplex	3,010	2,170	4,055	1,125	6/8	3,500 / 3,150	3,500	3,150
	3,300	2,290	4,345	1,245	6/8	3,500 / 3,150	3,500	3,150
	3,720	2,615	4,765	1,570	6/8	3,500 / 3,150	3,500	3,150
	4,000	2,755	5,045	1,710	6/8	3,500 / 3,150	3,500	3,150
Triplex	3,730	1,930	4,775	885	6/6	3,500 / 3,150	3,500	3,150
	4,010	2,050	5,055	1,005	6/6	3,500 / 3,150	3,500	3,150
	4,390	2,170	5,435	1,125	6/6	3,500 / 3,150	3,500	3,150
	4,700	2,290	5,745	1,245	6/6	3,500 / 3,150	3,500	3,150
	5,030	2,435	6,075	1,390	6/6	3,500 / 3,150	3,450	3,150
	5,580	2,615	6,625	1,570	6/6	3,500 / 3,150	3,100	3,050
	6,000	2,755	7,045	1,710	6/4	3,500 / 3,150	2,900	2,900
	6,510	2,930	7,555	1,885	6/4	3,500 / 3,150	2,250	2,250
	7,000	3,125	8,045	2,080	6/4	3,500 / 3,150	1,700	1,700

\* h5 including load support (without load support increase of 305 mm for duplex and 465 mm for triplex)

\*\* up to 3,700 mm







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