

OPTION AND SPECIFICATION MANUAL

NSP12QLMI
NSP12QLDI



The order portal is leading and decides whether options can be added to trucks and if combinations of options are possible. This manual is a quick reference and for information purposes only.

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1 Introduction

This Option and Specification Manual is a sales tool, which is primarily intended to help, and partly also inspire, in creating application solution proposals, as well as to offer valid configurations and specifications.

For full details on the usage of individual features and functions, always refer to the corresponding Operation and Maintenance Manual (also known as 'Instruction Handbook'). This handbook is also always available in an English language version under the same heading/folder where this manual is located on your Dealer Support Site (DSS).

2 Technical specifications

				NSP12QLMI	NSP12QLDI
1	CHARACTERISTICS				
1.1	Manufacturer			CAT Lift Trucks	CAT Lift Trucks
1.2	Manufacturer's model designation			NSP12QLMI Light stacker	NSP12QLDI Light stacker
1.3	Power source (battery, diesel, LP gas, petrol)			Battery	Battery
1.4	Operator type			Pedestrian	Pedestrian
1.5	Load capacity	[kg]	Q	1,200	1,200
1.6	Load center distance	[mm]	c	600	600
1.8	Load wheel axle to fork face (forks lowered)	[mm]	x	812	788
1.9	Wheelbase	[mm]	y	1,272	1,268
2	WEIGHT				
2.1b	Truck weight without load, with maximum battery weight	[kg]		685	675 / 740 / 760 / 775
2.2	Axle loadings with nominal load & maximum battery weight, drive / load side	[kg]		1,190 / 695	822 / 1,158
2.3	Axle loadings without load & with maximum battery weight, drive / load side	[kg]		194 / 491	240 / 540
3	WHEELS, DRIVE TRAIN				
3.1	Tyres, drive / load side (PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber)			P / P	P / P
3.2	Tyre dimensions, drive side	[mm]		195 x 70	195 x 70
3.3	Tyre dimensions, load side	[mm]		80 x 70	80 x 70
3.4	Castor wheel dimensions (diameter x width)	[mm]		150 x 60	150 x 60
3.5	Number of wheels, load / drive side (x = driven)			1x + 1 / 4	1x+ 1 / 4

				NSP12QLMI	NSP12QLDI
3.6	Track width (center of tyres), drive side	[mm]	b10	523	523
3.7	Track width (center of tyres), load side	[mm]	b11	390	390
4	DIMENSIONS				
4.2a	Height with mast lowered	[mm]	h1	2,050 / 2,400	1,872 / 2,122 / 2,272
4.4	Lift height (stroke)	[mm]	h3	1,600 / 1,950	2,500 / 3,000 / 3,300
4.5	Height with mast extended	[mm]	h4	2,060 / 2,410	3,092 / 3,592 / 3,892
4.6	Initial lift (stroke)	[mm]	h5	120	120
4.9	Height of tiller arm / steering console (min./max.)	[mm]	H14	1,150 / 1,430	670 / 1,300
4.15	Fork height, fully lowered	[mm]	h13	90	90
4.19	Overall length	[mm]	l1	1,770	1,789
4.20	Length to fork face	[mm]	l2	619	639
4.21	Overall width	[mm]	b1/b2	800	800
4.22	Fork dimensions (thickness, width, length)	[mm]	s/e/l	60 / 180 / 1,150	60 / 180 / 1,150
4.25	Outside width over forks (minimum / maximum)	[mm]	b5	570	570
4.32	Ground clearance at center of wheelbase (forks lowered)	[mm]	m2	17	17
4.33a	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	[mm]	Ast	2,286	2,286
4.34a	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	[mm]	Ast	2,224	2,224
4.35	Turning radius	[mm]	Wa	1,450	1,450
5	PERFORMANCE				
5.1	Travel speed, with / without load	[km/h]		4.5 / 5	4.5 / 5
5.2	Lifting speed, with / without load	[m/s]		0.06 / 0.13	0.11 / 0.14
5.3	Lowering speed, with / without load	[m/s]		0.13 / 0.10	0.13 / 0.10

			NSP12QLMI	NSP12QLDI
5.8	Maximum gradeability, with / without load	[%]	6 / 15	6 / 15
5.10	Service brake type (mechanical / hydraulic / electric / pneumatic)		Electric	Electric
6 ELECTRIC MOTORS				
6.1	Drive motor capacity (60 min. short duty)	[kW]	0.65	0.65
6.2	Lift motor output at 15% duty factor	[kW]	2.2	2.2
6.4	Battery voltage/capacity at 5-hour discharge	[V/Ah]	24 / 60	24 / 60
6.5	Battery weight	[kg]	20	20
MISCELLANEOUS				
8.1	Type of drive control		Stepless	Stepless
10.7.1	Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871, drive/lift/idle LpAZ	[dB (A)]	70	70
10.7.3	Hand-arm vibration (EN 13 059:2002)			< 2.5

3 Standard configuration

3.1 NSP12QLMI

As a standard, the truck is supplied with:

Nominal capacity 1,200 kg	Fork width 570 mm, fork length 1,150 mm
Lithium-ion battery 24V 60Ah	Key switch entry
Internal charger 25A	Mono mast 1,600 mm
Tandem load wheels	Turtle MODE activated (upright handle driving mode)

3.2 NSP12QLDI

As a standard, the truck is supplied with:

Nominal capacity 1,200 kg	Fork width 570 mm, fork length 1,150 mm
Lithium-ion battery 24V 60Ah	Key switch entry
Internal charger 25A	Duplex mast 2,500 mm
Tandem load wheels	Turtle MODE activated (upright handle driving mode)

4 Mast charts

h3 + h13	Lifting height (floor to top of fork)
h1	Lowered mast height
h4	Raised mast height
h5	Initial lift

4.1 NSP12QLMI

Mast	CODE	h3 + h13 [mm]	h1 [mm]	h5 [mm]	h4 [mm]
Mono mast 1600 mm	M160	1,600	2,050	120	2,060
Mono mast 1950 mm	M195	1,950	2,400	120	2,410

4.2 NSP12QLDI

Mast	CODE	h3 + h13 [mm]	h1 [mm]	h5 [mm]	h4 [mm]
Duplex mast 2500 mm	D250	2,500	1,872	120	3,092
Duplex mast 3000 mm	D300	3,000	2,122	120	3,592
Duplex mast 3300 mm	D330	3,300	2,272	120	3,892

5 Load deration

5.1 NSP12QLMI

	Lifting height (h3 + h13) [mm]	LC = 600 mm
Double stacker	1,600	600 kg / 600 kg
On forks only	1,600	1,200 kg
Initial lift only	1,600	1,200 kg
Double stacker	1,950	600 kg / 600 kg
On forks only	1,950	1,200 kg
Initial lift only	1,950	1,200 kg

LC = Load center

5.2 NSP12QLDI

	Lifting height (h3 + h13) [mm]	LC = 600 mm
On forks only	2,500	1,200 kg
On forks only	3,000	950 kg
On forks only	3,300	700 kg

LC = Load center

6 Batteries

- | | |
|---|---------------|
| • | Standard |
| ○ | Option |
| — | Not available |

6.1 Li-ion batteries

OPTION	Notes	CODE	NSP12QLMI	NSP12QLDI
Lithium-ion battery 24V 60Ah		BL24/060	•	•
Lithium-ion battery 24V 100Ah		BL24/100	○	○

6.2 Li-ion chargers

OPTION	Notes	CODE	NSP12QLMI	NSP12QLDI
Internal charger 25A		CH25 INT	•	•

7 Forks

- Standard
- Option
- Not available

OPTION	Notes	CODE	NSP12QLMI	NSP12QLDI
Fork width 570 mm Fork length 1150 mm		F570X1150	•	•

8 Other options

- | | |
|---|---------------|
| • | Standard |
| ○ | Option |
| — | Not available |

OPTION	Notes	CODE	NSP12QLMI	NSP12QLDI
Tandem load wheels		TD/LW	•	•
Key switch entry		KEY/SWITCH	•	•
Turtle MODE activated (upright handle driving mode)		TURTLE	•	•

For more information on this range visit:

www.catliftdealer.com

www.catlifttruck.com

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