



EQ Line

Li-Ion
BATTERY TECHNOLOGY

EQ LINE PRELIMINARY SPECIFICATIONS
COMPACT PEDESTRIAN STACKERS
24V, 1.2 - 1.3 TONNES

NSP12Q2LD – NSP12Q2LDI
NSP13Q2LD – NSP13Q2LDI

A NEAT SPACE-SAVING SOLUTION

**GIVE YOUR BUSINESS A LIFT
– WITH ONE SMALL TRUCK**

With duplex masts, these trucks will handle goods at heights up to 3.6 metres. Designed for light duties in warehouses, supermarkets and production areas, they save space, time and money. You can even take them in vans and elevators. As well as stacking and short shuttle runs, their versatility extends to order picking and store shelf filling.

CAT[®]

Characteristics			
1.1	Manufacturer		
1.2	Manufacturer's model designation		
1.3	Power source		
1.4	Operator type		
1.5	Load capacity	Q	(kg)
1.6	Load centre distance	c	(mm)
1.8	Load wheel axle to fork face (forks lowered)	x	(mm)
1.9	Wheelbase	y	(mm)
Weight			
2.1b	Truck weight without load, with maximum battery weight		kg
2.2	Axle loadings with nominal load & maximum battery weight, drive / load side		kg
2.3	Axle loadings without load & with maximum battery weight, drive / load side		kg
Wheels, Drive Train			
3.1	Tyres: PT=Power Thane, Vul=Vulkollan, P=Polyurethane, N=Nylon, R=Rubber drive/load side		
3.2	Tyre dimensions, drive side		(mm)
3.3	Tyre dimensions, load side	ø	(mm)
3.4	Castor wheel dimensions (diameter x width)		(mm)
3.5	Number of wheels, load/drive side (x=driven)		
3.6	Track width (centre of tyres), drive side	b10	(mm)
3.7	Track width (centre of tyres), load side	b11	(mm)
Dimensions			
4.2a	Height with mast lowered	h1	(mm)
4.3	Free lift	h2	(mm)
4.4	Lift height (stroke)	h3	(mm)
4.5	Height with mast extended	h4	(mm)
4.6	Initial lift (stroke)	h5	(mm)
4.9	Height of tiller arm / steering console (min./max.)	h14	(mm)
4.15	Fork height, fully lowered	h13	(mm)
4.19	Overall length	l1	(mm)
4.20	Length to fork face	l2	(mm)
4.21	Overall width	b1	(mm)
4.22	Fork dimensions (thickness, width, length)	s / e / l	(mm)
4.25	Outside width over forks (minimum-maximum)	b5	(mm)
4.32	Ground clearance at centre of wheelbase, (forks lowered)	m2	(mm)
4.33a	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise	Ast	(mm)
4.34a	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast	(mm)
4.35	Turning radius	Wa	(mm)
Performance			
5.1	Travel speed, with / without load		km / h
5.2	Lifting speed, with / without load		m / s
5.3	Lowering speed, with / without load		m / s
5.8	Maximum gradeability with / without load		%
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)		
Electric motors			
6.1	Drive motor capacity (60 min. short duty)		kW
6.2	Lift motor output at 15% duty factor		kW
6.4	Battery voltage/capacity at 5-hour discharge		V / Ah
6.5	Battery weight		kg
6.6b	Energy consumption according to VDI 60 cycle		kWh / h
Miscellaneous			
8.1	Type of drive control		
10.7	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)

				TRIPLEX MAST	TRIPLEX MAST
Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks
NSP1202LD	NSP1202LDI	NSP1302LD	NSP1302LDI	NSP1302LD	NSP1302LDI
Battery	Battery	Battery	Battery	Battery	Battery
Pedestrian	Pedestrian	Pedestrian	Pedestrian	Pedestrian	Pedestrian
1200	1200	1300	1300	1300	1300
600	600	600	600	600	600
710	763	710	758	693	650
1097	1192	1097	1197	1097	1109
620	710	670	790	732	807
520/1300	670/1240	560/1410	695/1395	585/1447	701/1406
440/180	490/220	480/190	540/250	520/212	562/245
P / P	P / P	P / P	P / P	P/P	P/P
210 x 75	210 x 75	210 x 75	210 x 75	210 x 75	210 x 75
84 x 93	84 x 93	84 x 93	84 x 93	84 x 93	84 x 93
100 x 50	100 x 50	100 x 50	100 x 50	100 x 50	100 x 50
1x + 1 / 2	1x + 1 / 2	1x + 1 / 2	1x + 1 / 2	1x + 1 / 2	1x + 1 / 4
550	550	550	550	550	550
400/515	400/515	400/515	390/505	400	390
See table	See table	See table	See table	See table	See table
See table	See table	See table	See table	See table	See table
See table	See table	See table	See table	See table	See table
See table	See table	See table	See table	See table	See table
120	120	120	120	120	120
710 / 1150	710 / 1150	710 / 1150	710 / 1150	710 / 1150	710 / 1150
90	90	90	90	90	90
1710	1752	1710	1762	1724	1776
560	602	560	612	574	626
800	800	800	800	800	806
60 / 180 / 1150	60 / 180 / 1150	60 / 180 / 1150	60 / 180 / 1150	60 / 180 / 1150	60 / 180 / 1150
570/685	570/685	570/685	570/685	570	570
24	16	24	24	25	25
2167	2241	2167	2247	2167	2247
2133	2188	2133	2197	2133	2197
1300	1395	1300	1400	1300	1400
4.2 / 4.5	4.2 / 4.5	4.2 / 4.5	4.2 / 4.5	4.2 / 4.5	4.2 / 4.5
0.11 / 0.14	0.11 / 0.14	0.10 / 0.14	0.10 / 0.14	0.10 / 0.14	0.10 / 0.14
0.13 / 0.11	0.13 / 0.11	0.13 / 0.11	0.13 / 0.11	0.13 / 0.11	0.13 / 0.11
5 / 10	5 / 10	4 / 10	4 / 10	4 / 10	4 / 10
Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic
0.65	0.65	0.65	0.65	0.65	0.65
2.2	2.2	2.2	2.2	2.2	2.2
24 / 60	24 / 60	24 / 100	24 / 100	24 / 100	24 / 100
17	17	26	26	27	27
0.6	0.66	0.68	0.69	0.70	0.69
DC	DC	DC	DC	DC	DC
<70	<70	<70	<70	<70	<70

CAT LIFT TRUCKS QUALITY – FOR EVEN THE SMALLEST JOBS

Our EQ line warehouse trucks have everything you need for dependable, entry-level materials handling. That includes sturdy construction, simple maintenance, energy-efficient features, robust performance, user-friendly design, and safety. A product line for light applications. If that's what you need to get your job done, the EQ line is your perfect choice.

Highly manoeuvrable, and with a tight turning circle, these trucks are ideal for narrow spaces. Their clear-view mast and small body make it easy to see and position loads at ground level and upwards.

Compactness, low weight, high stability and ergonomic tiller-arm control make the trucks quick and comfortable in operation. Pallet load handling is smooth and strong, thanks largely to the high-quality forks and modern AC drive motor.

Initial lift (I) models increase ground clearance, for smooth travel over ramped and uneven surfaces. This feature also enables double pallet handling, with one load on the support legs and one on the forks.

Durable construction and minimal maintenance needs mean low servicing bills. Together with a low price, long service life and economical energy consumption, these factors reduce your total cost of operation (TCO).



LOWER COST OF OWNERSHIP

- High-quality, robust construction – including impact-resistant steel chassis cover – ensures reliable operation over a long lifetime, with minimal servicing and repair needs.
- AC drive motor promises a long service life with low maintenance needs.
- Li-ion batteries give maximum lifespan, efficiency and runtime, with no need for water top-ups or other maintenance.
- Display includes fault warnings, enabling timely attention to prevent damage.
- Fast plug-in diagnostics, troubleshooting and programming – via an external port – reduce downtime and maintain efficient performance.
- Convenient PIN code access and keyless start, supported by RFID tags, prevents unauthorised use and saves time.

UNMATCHED PRODUCTIVITY

- Light weight makes the trucks ideal for use on mezzanines (1.2 tonne models).
- Automatic cornering speed reduction avoids loss of stability.
- Clear-view masts give excellent forward vision and are available with maximum lifts up to 3.6 metres.
- Choice between single and duplex masts allows economical matching with lift height requirements.
- Full free lifting mast on 1.3 tonne models enables large free lift for use when height space is limited.
- Initial lift (I) models raise mast and forks to give increased ground clearance – for better performance on ramps, dock levellers and uneven floors.
- Double pallet handling design of initial lift (I) models allows lifting and carrying of two loads simultaneously, with one on the support legs and one on the forks.
- 24V/60Ah high-capacity Li-ion battery (24V/100Ah on 1.3 tonne models) gives powerful performance and long runtime between charges.

- Li-ion technology makes continuous operation possible, without battery changes, using fast opportunity charging during short breaks.
- Internal charger allows simple plugging in to any suitable electrical socket, wherever you are.
- Advanced battery management system (BMS) optimises power, lifetime and safety.
- Battery level display supports optimal timing of battery charging/changing.

SAFETY AND ERGONOMICS

- Ergonomic spring-loaded tiller arm provides a comfortable grip and low-effort operation for maximum control with minimal fatigue or strain.
- Multifunctional tiller head conveniently places controls within easy reach and enables one-handed operation.
- Turtle/creep speed button allows manoeuvring with tiller arm vertical, for safe movement through narrow spaces.
- Li-ion battery chemistry means no risk of hazardous gas or acid leaks.

EQ LINE LI-ION BATTERIES

Our EQ line warehouse trucks come equipped with lithium-ion (Li-ion) battery technology.

A great advantage of Li-ion is that it allows the use of opportunity charging. Instead of exchanging batteries between shifts, you can simply plug into a fast charger during short breaks. Your business will also enjoy the other efficiency, environmental and safety benefits outlined here.



LONGER LIFE

– 3 to 4 times lead-acid lifespan –
reduces overall battery investment



FASTER CHARGING

– enables full charge in as little as
1 hour with the fastest chargers



HIGHER EFFICIENCY

– energy losses during charging and
discharging are up to 30% lower, so
electricity consumption is reduced



NO BATTERY CHANGING

– fast opportunity charging –
15 minutes for several hours of
extra runtime – makes operation
convenient with just one battery and
minimises the need to buy, store and
maintain spares



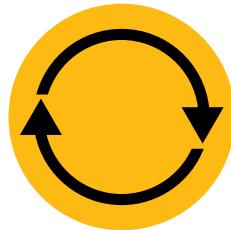
LONGER RUNTIME

– thanks to more efficient battery
performance and use of opportunity
charges, which can be given at any
time without damaging the battery or
shortening its lifespan



NO DAILY MAINTENANCE

– the battery stays on board the
truck for charging and there is
no need for water top-ups or
electrolyte checks



CONSISTENTLY HIGH PERFORMANCE

– with a more constant voltage curve
– maintains truck performance even
as battery charge gets low



INBUILT PROTECTION

– intelligent battery management
system (BMS) automatically
prevents excessive discharge,
charge, voltage and temperature, as
well as virtually eliminating misuse

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