

SBP10-16N Series

Pedestrian Stacker • AC Power • 1.0 – 1.6 tonnes

SBP10N
SBP12N
SBP12NI
SBP12NS
SBP16N
SBP16NI
SBP16NS

Add up the advantages...

AC (alternating current) drive motors have given these pedestrian stackers a number of added advantages – including higher economy, energy efficiency and power. An ergonomic tiller arm and extremely compact powerhead, combined with a very narrow chassis and excellent visibility,

makes them highly manoeuvrable in even the smallest of spaces. They can be used, for example, on board road vehicles, in block stacking or in congested areas

The stackers are offered with lifting capacities of 1.0, 1.2 or 1.6 tonnes. The SBP10N will stack pallets to a maximum of 3.3 m, while the SBP16N will go up to 5.4 m, and every model is also well suited to carrying loads over distances of around 50 m. For operation on ramps or uneven floors, initial lift models SBP12NI and SBP16NI are the best choice. For handling bottom-boarded pallets, straddle leg models SBP12NS and SBP16NS are available. In all seven models the state-of-the-art, simple-to-use tiller arm design protects hands and places everything within easy reach for safe, comfortable, controlled operation.

Frame and body

- **High stability** is ensured by use of two castor wheels – next to the drive wheel – in addition to the two load wheels.
- **Low centre of gravity** adds further stability, for safe operation.
- **Robust construction** offers exceptional durability in all working conditions.
- **High-visibility design** maximises view of fork tips and working area.

Mast and fork assembly

- **Straddle leg versions** allow adjustment of distance between support legs to suit pallet width.
- **Tapered fork tips** ensure smooth pallet entry and exit.
- **Wide range of lift heights and mast types** includes triplex masts on the SBP16N and a choice between standard or free lift masts.

Drive

- **AC drive motor** means high power for excellent traction and ramp performance, as well as smooth, quiet, controlled operation, extended shift length and lower maintenance requirements.

Steering system

- **State-of-the-art tiller arm** offers the ultimate in ergonomic design, comfort and safety.
- **Small turning circle** together with compact chassis and excellent visibility means exceptional manoeuvrability.



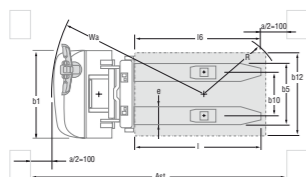
SBP10-16N Series

Pedestrian Stacker

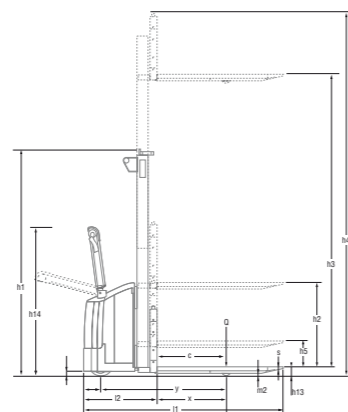
AC Power • 1.0 – 1.6 tonnes

Characteristics			Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi
1.1	Manufacturer (abbreviation)		Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi
1.2	Manufacturer's model designation		SBP10N	SBP12N	SBP12NI	SBP12NS	SBP16N	SBP16NI	SBP16NS
1.3	Power source: (battery, diesel, LP gas, petrol)		Battery	Battery	Battery	Battery	Battery	Battery	Battery
1.4	Operator type: pedestrian, (operator)-standing, -seated		Pedestrian	Pedestrian	Pedestrian	Pedestrian	Pedestrian	Pedestrian	Pedestrian
1.5	Load capacity	Q (kg)	1000	1200	1200	1200	1600	1600	1600
1.6	Load centre distance	c (mm)	600	600	600	600	600	600	600
1.8	Load wheel axle to fork face (forks lowered)	x (mm)	788	630	929	650	630	929	650
1.9	Wheelbase	y (mm)	1312	1137	1544	1211	1228	1636	1302
Weight									
2.1	Truck weight with nominal load & maximum battery weight	kg	1813	2088	2253	2050	2670	2835	2600
2.2	Axle loadings with nominal load & maximum battery weight, drive/load side	kg	536/1277	639/1449	1072/1181	625/1425	815/1855	1248/1587	800/1800
2.3	Axle loadings without load & with maximum battery weight, drive/load side	kg	586/227	670/220	766/289	600/250	810/260	906/329	750/250
Wheels, Drive Train									
3.1	Tyres: PT=Power Thane, Vul=Vulkollan, drive/load side		P/PT	Vul/Vul	Vul/Vul	Vul/Vul	Vul/Vul	Vul/Vul	Vul/Vul
3.2	Tyre dimensions, drive side	(mm)	230x70	230x70	230x70	230x70	230x70	230x70	230x70
3.3	Tyre dimensions, load side	(mm)	85x90	85x90	85x90	85x90	85x75	85x75	85x75
3.4	Castor wheel dimensions (diameter x width)	(mm)	150x50	150x50	150x50	150x50	150x50	150x50	150x50
3.5	Number of wheels, drive/load side (x=driven)		1+1x/2	1+1x/2	1+1x/2	1+1x/2	1+1x/4	1+1x/4	1+1x/4
3.6	Track width (centre of tyres), drive side	b10 (mm)	506	506	506	506	501	501	501
3.7	Track width (centre of tyres), load side	b11 (mm)	375	385	385	1025-1425	385	385	1025-1425
Dimensions									
4.2	Height with mast lowered (see tables)	h1 (mm)	See table	See table	See table	See table	See table	See table	See table
4.3	Free lift (see tables)	h2 (mm)	See table	See table	See table	See table	See table	See table	See table
4.4	Lift height (see tables)	h3 (mm)	See table	See table	See table	See table	See table	See table	See table
4.5	Overall height with mast raised	h4 (mm)	See table	See table	See table	See table	See table	See table	See table
4.6	Initial lift	h5 (mm)	-	-	115	-	-	115	-
4.9	Height of tiller arm / steering console (min./max.)	h14 (mm)	892/1371	892/1371	892/1371	892/1371	894/1374	894/1374	894/1374
4.15	Fork height, fully lowered	h13 (mm)	85	85	92	85	85	92	85
4.19	Overall length	l1 (mm)	1833	1833	1920	1870	1939	2044	1990
4.20	Length to fork face (includes fork thickness)	l2 (mm)	683	666	770	720	789	894	840
4.21	Overall width	b1/b2 (mm)	800	800	800	1270,1470	800	800	1270,1470
4.22	Fork dimensions (thickness, width, length)	s / e / l (mm)	64/165/1150	65/165/1150	65/175/1150	40/100/1150	65/165/1150	65/175/1150	40/100/1150
4.24	Fork carriage width	b3 (mm)	566	684	684	980	684	684	980
4.25	Outside width over forks (minimum/maximum)	b5 (mm)	540	550	560	200-980	550	560	200-980
4.32	Ground clearance at centre of wheelbase, (forks lowered)	m2 (mm)	20	20	20	20	20	20	20
4.33a	Working aisle width (Ast) with 1000 x1200 mm pallets, load crosswise	Ast (mm)	n/a	n/a	n/a	2294	n/a	n/a	2409
4.33b	Working aisle width (Ast3) with 1000 x 1200 mm pallets, load crosswise	Ast3 (mm)	n/a	n/a	n/a	1949	n/a	n/a	2064
4.34a	Working aisle width (Ast) with 800 x1200 mm pallets, load lengthwise	Ast (mm)	2266	2220	2406	2279	2336	2526	2394
4.34b	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise	Ast3 (mm)	2104	2094	2194	2149	2210	2314	2264
4.35	Turning circle radius	Wa (mm)	1492	1324	1723	1399	1440	1843	1514
Performance									
5.1	Travel speed, with/without load	km/h	6.0/6.0	6.0/6.0	6.0/6.0	6.0/6.0	6.0/6.0	6.0/6.0	6.0/6.0
5.2	Lifting speed, with/without load	m/s	0.10/0.15	0.13/0.21	0.13/0.21	0.13/0.21	0.15/0.24	0.15/0.24	0.15/0.24
5.3	Lowering speed, with/without load	m/s	0.25/0.21	0.26/0.21	0.26/0.21	0.26/0.21	0.24/0.24	0.24/0.24	0.24/0.24
5.8	Maximum gradeability, with/without load	%	8/15	8/15	8/15	8/15	8/15	8/15	8/15
5.10	Service brakes (mechanical/hydraulic/electric/pneumatic)		Electric	Electric	Electric	Electric	Electric	Electric	Electric
Electric motors									
6.1	Drive motor capacity (60 min. short duty)	kW	0.6	0.6	0.6	0.6	0.8	0.8	0.8
6.2	Lift motor output at 15% duty factor	kW	1.5 / 10	2.2 / 10	2.2 / 10	2.2 / 10	3.0 / 15	3.0 / 15	3.0 / 15
6.4	Battery voltage/capacity at 5-hour discharge	V /Ah	24 / 160, 230	24 / 160, 230	24 / 160, 230	24 / 160, 230	24 / 270, 345	24 / 270, 345	24 / 270, 345
6.5	Battery weight	kg	153-200	153-200	153-200	161-204	230-275	230-275	241-277
Miscellaneous									
8.1	Type of drive control		Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless

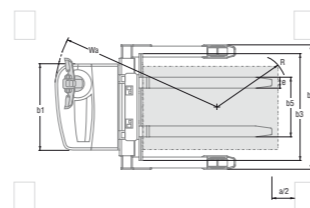
Continuing improvement may lead to changes in these specifications.
 (1) Options: Higher travel speed – 12 km/h with loads up to 600 kg.



SBP10-16N



SBP10-16N



SBP10-16NS



SBP16NI (with initial lift)



Ergonomic tiller arm



Powerful AC motor



Rapid service access

Brakes

- **Regenerative braking** gives effective control, reduced brake wear and longer shift life.
- **Parking brake** is automatically activated when power is shut off, for extra safety on ramps.

Hydraulics

- **Stepless lifting and lowering** gives even smoother mast movement on 1.6 tonne models, as standard, and on 1.2 tonne models as an option.

Electrical and control systems

- **Programmable controller** adjusts acceleration, travel speed and braking to suit the application and operator – for great versatility.
- **On-board diagnostics and fault memory folder** speed up servicing and help prevent damage.
- **Battery roller system** allows rapid battery exchange.
- **Optional inbuilt charger** simply plugs into a power socket for convenient recharging.

Operator environment and controls

- **Creep speed function and tiller arm lock bypass** are included as standard for maximum control and safety.
- **Crossbar shape** deflects obstacles away from tiller arm and operator's hand, for protection of both truck and operator.
- **Easy-to-operate controls** reduce fatigue and maintain productivity.
- **Aluminium tiller arm shaft** is light but very strong.
- **Rubber hand grips** are comfortable, slip-free and ergonomically shaped for easy reach of controls.
- **Battery discharge indicator and hour meter with lift cut-out** are fitted as standard for battery protection and monitoring of truck use.
- **Removable main switch** also acts as a key switch, to prevent unauthorised use of truck.
- **Clear display** alerts operators and service engineers to potential problems – helping to avoid damage and encourage maintenance.

Other features

- **Rapid access features** give quick and easy entry to all areas for checks and maintenance.

Options

- **Choice of drive and load wheels for different applications**
- **Proportional lifting and lowering for SBP12N, SBP12NI and SBP12NS** (proportional lift is standard on the SBP16N, SBP16NI and SBP16NS)
- **Load backrest**
- **Wide variety of fork dimensions**
- **Wide variety of lifting heights**
- **Battery changing device**
- **Inbuilt charger**
- **PIN code pad**
- **Cold storage modification (class III, - 35°C)**

when
reliability
is **everything**

Developed for outstanding performance and genuine value for money, the awardwinning* range of Mitsubishi forklift trucks and warehouse equipment is built to a higher specification to maximize productivity and ensure utter reliability... whatever the application.

It's what you'd expect from one of the world's largest corporations whose companies are at the leading edge of technologies where performance, quality and dependability can never be compromised.

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Mast Performance and Capacity

SBP10N				
Mast type	h3+h13 mm	h1 mm	h4 mm	h2+h13 kg
Simplex	1500	1980	1980	1500
Duplex	2500	1775	3000	195
	2900	1975	3400	195
	3300	2175	3800	195

SBP12N/SBP16N				
Mast type	h3+h13 mm	h1 mm	h4 mm	h2+h13 mm
Simplex	1500	1950	1950	1500
Duplex	2500	1835	3000	200
	2900	2035	3400	200
	3300	2235	3800	200
	3600	2385	4100	200
	4300	2735	4800	200
Duplex Free-lift	2500	1775	2940	1355
	2900	1975	3340	1555
	3300	2235	3800	1755
	3600	2385	4100	1905
	4300	2735	4800	2255
Triplex*	4100	1955	4640	-
	4300	2020	4840	-
	5400	2385	5940	-
Triplex Free-lift*	4100	1955	4640	1475
	4300	2020	4840	1540
	5400	2385	5940	1905

SBP12NI/SBP16NI				
Mast type	h3+h13 mm	h1 mm	h4 mm	h2+h13 mm
Simplex	1500	2055	2055	1505
Duplex	2500	1940	3105	200
	2900	2140	3505	200
	3300	2340	3905	200
	3600	2490	4205	200
Duplex Free-lift	2500	1940	3105	1360
	2900	2140	3505	1560
	3300	2340	3905	1760
	3600	2490	4205	1910
Triplex*	4100	2060	4745	-
	4300	2125	4945	-
	5400	2490	6045	-
Triplex Free-lift*	4100	2060	4745	1480
	4300	2125	4945	1545
	5400	2490	6045	1910

SBP12NS/SBP16NS				
Mast type	h3+h13 mm	h1 mm	h4 mm	h2+h13 mm
Simplex	1500	2030	2030	1500
Duplex	2500	1915	3080	195
	2900	2115	3480	195
	3300	2315	3880	195
	3600	2465	4180	195
	4300	2815	4880	195
Duplex Free-lift	2500	1915	3080	1355
	2900	2115	3480	1555
	3300	2315	3880	1755
	3600	2465	4180	1905
	4300	2815	4880	2255
Triplex*	4100	2035	4720	-
	4300	2100	4920	-
	5400	2465	6020	-
Triplex Free-lift*	4100	2035	4720	1475
	4300	2100	4920	1540
	5400	2465	6020	1905

* only the 16N, NI or NS model

h3+h13 = Lifting height
h1 = Lowered mast height
h4 = Raised mast height
h2+h13 = Free lift

* Mitsubishi Forklift Trucks has won **four** separate Fork Lift Truck Association Annual Awards for Excellence covering the areas of **Ergonomics, the Environment and Innovation.**



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NOTE: 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. Mitsubishi follows a policy of continual product improvement. For this reason, some materials, options and specifications could change without notice.