SBV16N Series

Platform Stacker AC Power • 1.6 tonnes

All the flexibility you need... for every situation

With its stylish, compact shape and superb manoeuvrability, the SBV16N series is designed to fit into the narrowest of aisles and the smallest of work spaces. There it will stack heavy loads, precisely and efficiently, at heights up to 5.4 metres. The series includes initial lift models, with increased ground clearance for operation on ramps, and straddle leg versions, which allow adjustment to suit different pallet widths. In addition,

all models allow rapid travel over long distances, offering the operator a choice between pedestrian and ride-on modes.

The suspended riding platform and protective sidebars fold away neatly when not being used but lock firmly into place when needed to give the operator stability and safety. Whether riding or walking, the state-of-the-art, simple-to-use tiller arm design protects the operator's hands and places everything within easy reach for safe, comfortable, controlled operation. AC technology ensures smooth, quiet, powerful performance, and minimises wear of components, while the durability

of the chassis and mast guarantees a long working life, whatever the conditions.

Frame and body

- Wide castor wheel in addition to drive and load wheels give high stability.
- Low centre of gravity adds further stability, for safe operation.
- Robust construction offers exceptional durability in all working conditions.

Mast and fork assembly

- Revolutionary Visionmast technology offers unrivalled forward vision and superb lifting ability.
- Mast strength together with excellent stability and efficient hydraulics ensures high residual capacity – for safe handling of just about any load.
- Mast range includes triplex (lifting to 5.4 m) as well as duplex and simplex all available with free lift.
- Tapered fork tips ensure smooth pallet entry/exit and make it easier to enter at an angle.



SBV16N Series

Platform Stacker

AC Power • 1.6 tonnes

	Characteristics					
1.01	Manufacturer (abbreviation)			Mitsubishi	Mitsubishi	
1.02	Manufacturer's model designation			SBV16N	SBV16NI	
1.03	Power source: (battery, diesel, LP gas, petrol)			Battery	Battery	
1.04	Operator type: pedestrian, (operator)-standing, -seated			Pedestrian/Stand-on	Pedestrian/Stand-on	
1.05	Load capacity	Q	kg	1600	1600	
1.06	Load centre distance	C	(mm)	600	600	
1.08	Load wheel axle to fork face (forks lowered)	x	(mm)	647	9461)	
1.09	Wheelbase	v	(mm)	1254	1553	
	Weight	,	(/	1201	1000	
2.01	Truck weight with nominal load & maximum battery weight		kg	2960 ²⁾	2980 ²⁾	
2.02	Axle loadings with nominal load & maximum battery weight, drive/load side		kg	930 / 2030 2)	1330 / 1650 ²⁾	
2.03	Axle loadings without load & with maximum battery weight, drive/load side		kg	940 / 4202	1040 / 340 ²⁾	
2.00	Wheels, Drive Train		9	340 / 4L0	10-10 / 0-10	
3.01	Tyres: PT=Power Thane, Vul=Vulkollan, drive/load side			Vul/Vul	Vul/Vul	
3.02	Tyre dimensions, drive side		(mm)	85 × 75	85 × 75	
3.03	Tyre dimensions, load side		(mm)	230 × 70	230 × 70	
3.04	Castor wheel dimensions (diameter x width)		(mm)	150 × 50	150 × 50	
3.05	Number of wheels, drive/load side (x=driven)		(11111)	2+1x/4	2+1x/4	
3.06	Track width (centre of tyres), drive side	b10	(mm)	520	520	
3.07	Track width (centre of tyres), load side	b11	(mm)	410	410	
5.07	Dimensions	ווען	(111111)	410	410	
4.09	Height of tiller arm (min./max.)	h14	(mm)	1141 / 1341	1141 / 1341	
4.15	Fork height, fully lowered	h13	(mm)	92	92	
4.19	Overall length	11	(mm)	2037 / 2492 ³⁾	2112 / 2568 ³⁾	
4.19	Length to fork face (includes fork thickness)	12	(mm)	887 / 1343 ³	887 / 1343 ³	
4.21	Overall width	b1/b2	(mm)			
4.22	Fork dimensions (thickness, width, length)	s/e/I	(mm)	790 / 926	790 / 926	
4.25	Outside width over forks (minimum/maximum)	b5	` '	56 / 185 / 1150	56 / 185 / 1150	
4.23	. , ,	m2	(mm)	570	570	
-	Ground clearance at centre of wheelbase, (forks lowered)		(mm)	29	25	
4.33a	Working aisle width (Ast) with 1000 x1200 mm pallets, load crosswise, platform up/down	Ast Ast3	(mm)	2519 / 2955 ³	2669 / 3105 ³	
4.33b	Working aisle width (Ast3) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast	(mm)	2239 / 26753	2239 / 26753	
4.34a	Working aisle width (Ast) with 800 x1200 mm pallets, load lengthwise, platform up/down		(mm)	2419 / 2855 ³	2509 / 2945 ³	
4.34b	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast3	(mm)	2289 / 2725 ³	2289 / 27253	
4.35	Turning circle radius	Wa	(mm)	1536 / 1972 ³⁾	1835 / 2271 ³⁾	
E 04	Performance		L /l-	- 1-		
5.01	Travel speed, with/without load		km/h	9/9	9/9	
5.02	Lifting speed, with/without load		m/s	0.13 / 0.23	0.13 / 0.23	
5.03	Lowering speed, with/without load		m/s	0.23 / 0.22	0.23 / 0.22	
5.07	Gradeability, with/without load		%	10 / 15	10 / 15	
5.10	Service brakes (mechanical/hydraulic/electric/pneumatic)			Electric	Electric	
	Electric motors					
6.01	Drive motor capacity (60 min. short duty)		kW	2	2	
6.02	Lift motor output at 15% duty factor		kW	3	3	
6.04	Battery voltage/capacity at 5-hour discharge		V/Ah	24 / 375	24 / 375	
6.05	Battery weight kg		kg	285	285	
	Miscellaneous					
8.01	Type of drive control			Stepless	Stepless	
8.04	Noise level, mean value at operator's ear (EN 12053)		dB (A)	68	68	

Continuing improvement may lead to changes in these specifications.









High-visibility Visionmast

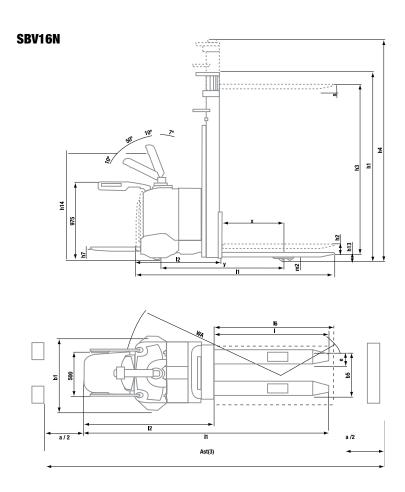
Powerful AC motor

Smooth-entry fork tips

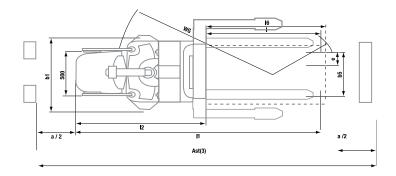
Ergonomic tiller arm

 $^{^{1)}}$ = -17 mm triplex masts $^{2)}$ = DF3300 $^{3)}$ =+17 mm triplex masts

-
Mitsubishi
SBV16NS
Battery
Pedestrian/Stand-on
1600
600
647
1319
0000
2960 ²⁾
930 / 2030 2)
940 / 420 ²⁾
V/-IA/-I
Vul/Vul
85 × 75
230 × 70
150 × 50
2+1x/4
520
410
4444 / 4044
1141 / 1341
75
2086 / 25423
887 / 13433
1124 / 1324 / 1524 40 / 100 / 1150
200-980
29 2586 / 3022 ³⁾
2306 / 27423
2486 / 2922 ³
2356 / 2792 ³⁾ 1603 / 2039 ³⁾
1003 / 2039
9/9
0.13 / 0.23
0.13 / 0.23
10 / 15
Electric
LICCUIC
2
3
24 / 375
247 373
200
Stepless
68



SBV16NS



Ast = Working aisle width

 $Ast3 = Working \ aisle \ width \ (b12 \leq 1000 \ mm)$

Ast = Wa + $\sqrt{(/6 - x)^2 + (b12/2)^2} + a$

Ast3 = Wa + 16 - x + a

Wa = Turning radius

/6 = Pallet length

x = Load wheel axle to fork face

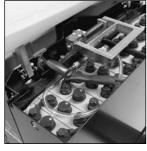
b12 = Pallet width

a = Safety clearance = 2 x 100 mm





Comfortable ergonomic platform



High-capacity battery



Cushioned safety sidebars

Drive

Powerful AC motor
means high drive speed (up
to 9 km/h) and acceleration
– even when loaded – plus
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 along with compact chassis and excellent visibility through mast allows exceptional manoeuvrability.

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

 Smooth hydraulics with proportional lifting and lowering on all models ensure jolt-free mast and fork movement for careful handling of loads.

Electrical and control systems

- Programmable controller adjusts acceleration, travel speed, lift speed and braking to suit the application and operator – for great versatility.
- Battery discharge indicator and hour meter with lift cut-out are fitted as standard for battery protection and monitoring of truck use.
- Battery roller system allows rapid battery exchange.
- On-board diagnostics and fault memory folder speed up servicing and help prevent damage.

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.

Removable main switch also acts as a key switch, to prevent unauthorised use of

 Clear LCD display keeps operator and service engineer fully informed – helping to avoid damage and encourage maintenance.

Other features

- Long service interval reduces cost of ownership and minimises downtime.
- Rapid access features give quick and easy entry to all areas for checks and maintenance, reducing downtime even further.

Options

- Choice of wheel materials
- Wide variety of fork dimensions
- Wide variety of masts including duplex and triplex – with or without free lift
- Lift height indicator
- Load weight indicator
- Inbuilt charger
- PIN code start-up with programmable features
- Customer name/logo/ artwork on side panels

h3+h13 h1 h2+h13 h1 h4* Mast type mm mm mm mm mm Simplex 1890 1500 1890 790 1600 1371 2101 (155)790 2000 1571 2501 (155)790 2500 1790 2970 (155)790 2900 1990 3370 (155)790 Duplex (155) 3300 2190 3770 790 3700 2390 4170 926 (155)4400 2756 4870 (155) 926 2500 1790 2970 1310 790 2900 1990 3370 1510 790 **Duplex** 3300 2190 3770 1710 790 Free-lift 3700 2390 4170 1910 926 4400 2756 4870 2276 926 (145)4200 4650 1990 926 4800 2190 5250 (145)Triplex 5400 2390 5850 (145)926 4200 1990 4650 1540 926 **Triplex** 4800 2190 5250 1740 926 Free-lift 5400 2390 5850 1940 926

SBV16N(i)

* = SBV16Ni / SBV16NS, + 31 mm

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

reliability iseverything

Like any product bearing the Mitsubishi name, our materials handling equipment benefits from the huge resources and cutting-edge technology of one of the world's largest corporations. So when we promise you **quality, reliability** and **value for money**, you know it's a guarantee we have the power to deliver.

Every model in our comprehensive, awardwinning range of forklift trucks and warehouse equipment is built to a high specification and is designed to keep on working for you... day after day... year after year... whatever the job... whatever the conditions.



To ensure your truck stays in constant productive action, we have a network of local dealers – hand-picked for their commintment to customer care... and backed up by the Mitsubishi Forklift Trucks organisation. No matter where you are, we have a dealer close by – ready and willing to meet your needs.



That friendly local service covers everything from identifying the perfect model and configuration for your application to providing competitive, flexible finance and maintenance packages, unbeatable warranties, long and short term hire, and highly responsive field service and repairs... as well as the industry's quickest and most reliable parts supply.



Only Mitsubishi can give you this combination of global engineering excellence and outstanding local support... only Mitsubishi offers you such a quality product at such an affordable price... and only Mitsubishi places reliability as high as you do in its priorities. Contact us now and see what we can do for you.



www.mitforklift.com



WESM1509 (02/13) © 2013 MCFE Printed in The Netherlands

mitforklift@mcfe.nl

www.mitforklift.com

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 forhitt trucks. Mitsubishi follows a policy of continual product improvement. For this reason, some statistics and exacting and resulting a