

Pedestrian Stacker • AC Power

1.0 - 1.6 tonnes

SBP10N2 SBP12N2(I) SBP12N2(I)R SBP14N2(I) SBP14N2(I)R SBP16N2(I) SBP16N2(I)R SBP16N2S SBP16N2SR

Big performance... even in the smallest spaces

Compact, easy to use and highly versatile, AXIA ES stackers have been developed to deliver exceptional productivity in every setting.



An ergonomic tiller arm and extremely compact powerhead, coupled with a very narrow chassis and outstanding visibility, ensure excellent manoeuvrability in tight spaces, such as on board road vehicles or in block stacking.

The stackers are offered with lifting capacities of 1.0, 1.2, 1.4 or 1.6 tonnes. All AXIA ES models feature a state-of-the-art tiller arm, designed to protect hands while placing everything within easy reach — for safe, comfortable and controlled operation.

For operation on ramps and uneven floors, initial lift (i) models are the best choice. A straddle leg version, SBP16N2S, is available for handling bottom-boarded pallets up to a width of 1200 mm. Foldable platforms for occasional ride-on use are available on the 1.2 to 1.6 tonne stackers.

Frame and body

- Sealed chassis offers protection against dirt, dust and other particles to reduce wear.
- Water-resistant design diverts splashed moisture away from key electrical components, for long truck life.
- Low centre of gravity aids stability, for safe operation.
- High-visibility design maximises view of fork tips and working area.

Mast and fork assembly

- Robust forks with welded construction, and rounded tips for effortless pallet entry, give extra strength and durability.
- Straddle leg version allows adjustment of distance between support legs to suit pallet width (SBP16N2S only).
- Wide range of lift heights and mast types includes triplex masts on 1.2 to 1.6 tonne models and a choice between standard or free lift masts.

Drive

- Powerful AC drive motor gives excellent traction and ramp performance, as well as smooth, quiet, controlled operation, extended shift length and lower maintenance requirements.
- Oil-filled, sealed transmission is shock-resistant, quiet and requires little maintenance.





Pedestrian Stacker

AC Power • 1.6 - 2.0 tonnes

	Characteristics					
1.01	Manufacturer			Mitsubishi	Mitsubishi	
1.02	Manufacturer's model designation			SBP10N2	SBP12N2(i)	
1.03	Power source: (battery, diesel, LP gas, petrol)			Battery	Battery	
1.04	Operator type: pedestrian, (operator)-standing, -seated			Pedestrian	Pedestrian	
1.05	Load capacity	Q	(kg)	1000	1200	
1.06	Load center distance	С	(mm)	600	600	
1.08	Load wheel axle to fork face (forks lowered)	х	(mm)	625	625 (925)	
1.09	Wheelbase	у	(mm)	1141	1205 (1615)	
	Weight				100= (10=0)	
2.01	Truck weight with load, with maximum battery weight		(kg)	820	1205 (1350)	
2.02	Axle loadings with nominal load & maximum battery weight, drive/load side		(kg)	740 / 1080	830 (1180) / 1575 (1370)	
2.03	Axle loadings without load & with maximum battery weight, drive/load side		(kg)	605 / 215	820 (955) / 385 (395)	
0.01	Wheels, Drive Train			Vul / Vul	Vol. / Vol.	
3.01	Tyres: PT=Power Thane, Vul=Vulkollan, drive/load side		(mm)	230 × 70	Vul / Vul 230 × 70	
3.02	Tyre dimensions, drive side		(mm)	85 × 90	85 × 90	
3.03	Tyre dimensions, load side Castor wheel dimensions (diameter x width)		(mm)	125 × 60	125 × 60	
3.04	Number of wheels, load/drive side (x=driven)		(mm) (mm)	1 + 1x /2	1 + 1x /2	
3.06	Track width (center of tyres), drive side	b10	(mm)	517	517	
3.07	Track width (center of tyres), load side	b11	(mm)	385	385	
3.07	Dimensions	ווט	(111111)	000	303	
4.02	Height with mast lowered	h1	(mm)	see tables	see tables	
4.03	Free lift	h2	(mm)	see tables	see tables	
4.04	Lift height	h3+h13	. ,	see tables	see tables	
4.05	Height with mast extended	h4	(mm)	see tables	see tables	
4.06	Initial lift	h5	(mm)	see tables	see tables	
4.09	Height of tiller arm / steering console (min./max.)	h14	(mm)	1050 / 1372	1050 / 1372	
4.15	Fork height, fully lowered	h13	(mm)	85	85 (90)	
4.19	Overall length	<i>I</i> 1	(mm)	1836	1900 (2007)	
4.20	Length to fork face	12	(mm)	686	750 (857)	
4.21	Overall width	b1/b2	(mm)	800	800	
4.22	Fork dimensions (thickness, width, length)	s/e/l	(mm)	56 / 186 / 1150	56 / 186 / 1150	
4.24	Fork carriage width	b3	(mm)	752	752	
4.25	Outside width over forks (minimum/maximum)	b5	(mm)	570	570	
4.26	Innerwidth of support legs	b4	(mm)	-	-	
4.32	Ground clearance at center of wheelbase, (forks lowered)	m2	(mm)	20	20	
4.33a	Working aisle width (Ast) with 1000 x1200 mm pallets, load crosswise, platform up/down	Ast	(mm)	2291	2355 (2653)	
4.33b	Working aisle width (Ast3) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast3	(mm)	1958	2022 (2123)	
4.34a	Working aisle width (Ast) with 800 x1200 mm pallets, load lengthwise, platform up/down	Ast	(mm)	2283	2347 (2533)	
4.34b	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast3	(mm)	2158	2222 (2323)	
4.35	Turning radius	Wa	(mm)	1383	1447 (1848)	
E 04	Performance		1 /1-\	0.0./0.0	00/00	
5.01	Travel speed, with/without load	((km/h)	6.0 / 6.0	6.0 / 6.0	
5.02	Lifting speed, with/without load		(m/s)	0.12 / 0.26	0.12 / 0.26	
5.03	Lowering speed, with/without load		(m/s)	0.35 / 0.40 8 / 15	0.35 / 0.40	
5.08 5.10	Maximum gradeability, with/without load Service brake		(%)		8 / 15	
5.10	Electric motors		(s)	Electric	Electric	
6.01	Drive motor capacity (60 min. short duty)		(kW)	1.0	1.0	
6.02	Lift motor output at 15% duty factor	/L	(W/%)	2.2	2.2	
6.04	Battery voltage/capacity at 5-hour discharge		(V/Ah)	24 / 150	24 / 150-250	
6.05	Battery weight		(v/AII) (kg)	151	151-212	
0.00	Miscellaneous		(Ny)	101	IVI LIL	
8.01	Type of drive control			Stepless	Stepless	
8.04	Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871 in work LpAZ	(dB(A))	60 / 60 / 41	60 / 60 / 41	
0.01	Body vibration (EN 13 059)		m/s ²	-	-	
	Hand-arm vibration (EN 13 059)		m/s ²	< 2.5	< 2.5	
	Values in breakets A are for initial lift vargions. All values are measured with standard configuration. Values			·		

Values in brackets () are for initial lift versions. All values are measured with standard configuration. Values can vary with different masts.









Excellent manoeuvrability

Foldable platform models

Protective tiller arm design

Outstanding visibility

Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi
SBP14N2(i)	SBP16N2(i)	SBP12N2(i)R	SBP14N2(i)R	SBP16N2(i)R	SBP16N2S	SBP16N2SR
Battery	Battery	Battery	Battery	Battery	Battery	Battery
Pedestrian	Pedestrian	Pedestrian/Stand-on	Pedestrian/Stand-on	Pedestrian/Stand-on	Pedestrian	Pedestrian/Stand-on
1400	1600	1200	1400	1600	1600	1600
600	600	600	600	600	600	600
625 (925)	625 (925)	625 (925)	625 (925)	625 (925)	650	650
1205 (1615)	1205 (1615)	1205 (1615)	1205 (1615)	1205 (1615)	1295	1295
1220 (1395)	1225 (1400)	1245 (1390)	1260 (1435)	1265 (1440)	1397	1437
835 (1240) / 1785 (1555)	835 (1275) / 1990 (1725)	870 (1220) / 1575 (1370)	875 (1280) / 1785 (1555)	875 (1315) / 1990 (1725)	1941 / 1056	1981 / 1056
, , ,	825 (970) / 400 (430)	860 (995) / 385 (395)	865 (1010) / 395 (425)	865 (1010) / 400 (430)	945 / 452	985 / 452
825 (970) / 395 (425)	823 (970) / 400 (430)	000 (993) / 303 (393)	003 (1010) / 393 (423)	000 (1010) / 400 (430)	940 / 402	903 / 432
Vul / Vul	Vul / Vul	Vul / Vul	Vul / Vul	Vul / Vul	Vul / Vul	Vul / Vul
230 × 70	230 × 70	230 × 70	230 × 70	230 × 70	230 × 70	230 × 70
85 × 75	85 × 75	85 × 90	85 × 75	85 × 75	85 × 75	85 × 75
125 × 60	125 × 60	125 × 60	125 × 60	125 × 60	125 × 60	125 × 60
1 + 1x /4	1 + 1x /4	1 + 1x /2	1 + 1x /4	1 + 1x /4	1 + 1x /4	1 + 1x /4
517	517	517	517	517	517	517
385	385	385	385	385	1025-1425	1025-1425
see tables	see tables	see tables	see tables	see tables	see tables	see tables
see tables	see tables	see tables	see tables	see tables	see tables	see tables
see tables	see tables	see tables	see tables	see tables	see tables	see tables
see tables	see tables	see tables	see tables	see tables	see tables	see tables
see tables	see tables	see tables	see tables	see tables	see tables	see tables
1050 / 1372	1050 / 1372	1150 / 1350	1150 / 1350	1150 / 1350	1150/1350	1150 / 1350
85 (90)	85 (90)	85 (90)	85 (90)	85 (90)	85	85
1900 (2007)	1900 (2007)	2020 (2127) / 2500 (2607)	2020 (2127) / 2500 (2607)	2020 (2127) / 2500 (2607)	1967	2087 / 2567
750 (857)	750 (857)	870(977)/1350(1457)	870(977)/1350(1457)	870(977)/1350(1457)	817	937 / 1417
800	800	800	800	800	800 / 1140-1575	800 / 1140-1575
56 / 186 / 1150	56 / 186 / 1150	56 / 186 / 1150	56 / 186 / 1150	56 / 186 / 1150	40 / 100 / 1150	40 / 100 / 1150
752	752	752	752	752	980	980
570	570	570	570	570	260-900	260-900
-	-	-	-	-	1015-1450	1015-1450
20	20	20	20	20	20	20
2355 (2653)	2355 (2653)	2475 (2773) / 2955 (3253)	2475 (2773) / 2955 (3253)	2475 (2773) / 2955 (3253)	2430	2550 / 3030
2022 (2123)	2022 (2123)	2142 (2243) / 2622 (2723)	2142 (2243) / 2622 (2723)	2142 (2243) / 2622 (2723)	2085	2205 / 2685
2347 (2533)	2347 (2533)	2467 (2653) / 2947 (3133)	2467 (2653) / 2947 (3133)	2467 (2653) / 2947 (3133)	2415	2535 / 3015
2222 (2323)	2222 (2323)	2342 (2443) / 2822 (2923)	2342 (2443) / 2822 (2923)	2342 (2443) / 2822 (2923)	2285	2405 / 2885
1447 (1848)	1447 (1848)	1567 (1968) / 2047 (2448)	1567 (1968) / 2047 (2448)	1567 (1968) / 2047 (2448)	1535	1655 / 2135
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
0.12 / 0.26	0.14 / 0.27	0.12 / 0.26	0.12 / 0.26	0.14 / 0.27	0.14 / 0.27	0.14 / 0.27
0.35 / 0.40	0.35 / 0.40	0.35 / 0.40	0.35 / 0.40	0.35 / 0.40	0.35 / 0.40	0.35 / 0.40
8 / 15	8 / 15	8 / 15	8 / 15	8 / 15	8 / 15	8 / 15
Electric	Electric	Electric	Electric	Electric	Electric	Electric
1.0	1.0	1.0	1.0	1.0	1.0	1.0
2.2	3.2	2.2	2.2	3.2	3.2	3.2
24 / 250	24 / 250-375	24 / 150-250	24 / 250	24 / 250-375	24 / 250-375	24 / 250-375
 212	212-294	151-212	212	212-294	212-294	212-294
Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless
60 / 60 / 41	70 / 72 / 41	60 / 60 / 41	60 / 60 / 41	70 / 72 / 41	70 / 72 / 41	70 / 72 / 41
-	-	0.8	0.8	0.8	-	0.8
< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
< ∠.J	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ \ L.J	\ 2.0	\ 2.0	< ∠.∪	` L.O

Continuing improvement may lead to changes in these specifications.





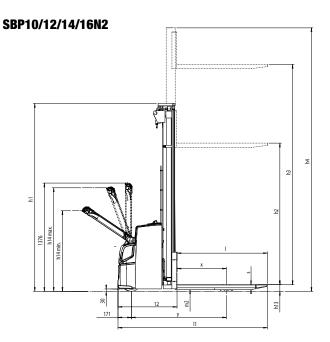


Straddle leg version



With a name that reflects its manoeuvrability, AXIA combines awardwinning ergonomics with high performance and low maintenance features to deliver a complete warehouse support package.

Efficient, versatile and durable, AXIA is the perfect choice for every workplace.



Ast = Working aisle width

 $Ast 3 = Working \ aisle \ width \ (b12 < 1000 \ mm)$

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

Ast3 = Wa + 16 - x + a

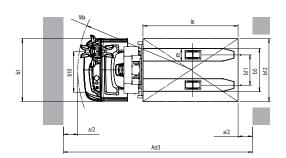
Wa = Turning radius

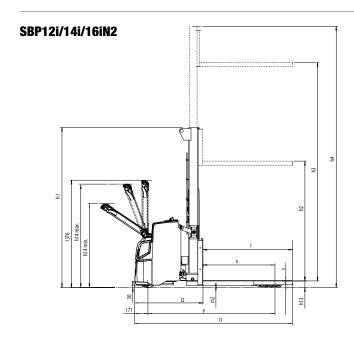
/6 = Pallet length

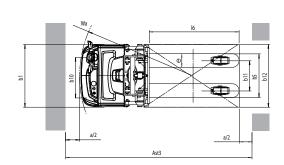
x = Load wheel axle to fork face

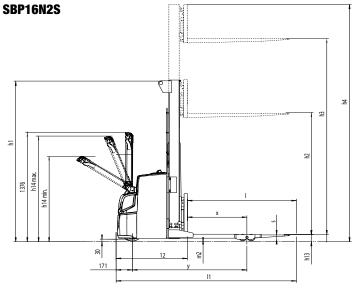
b12 = Pallet width

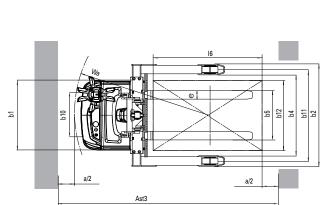
a = Safety clearance = 2 x 100 mm



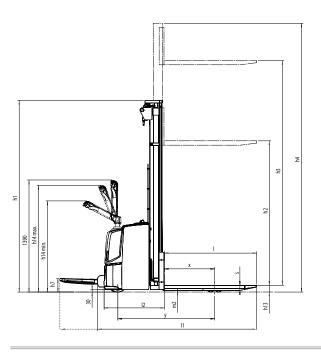




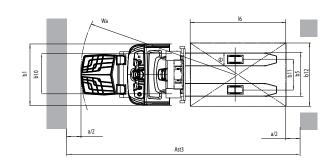


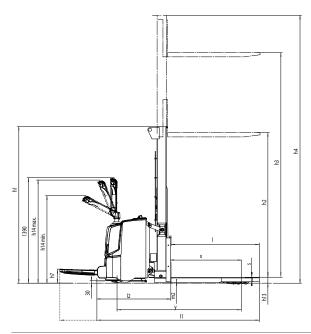




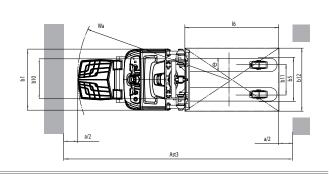


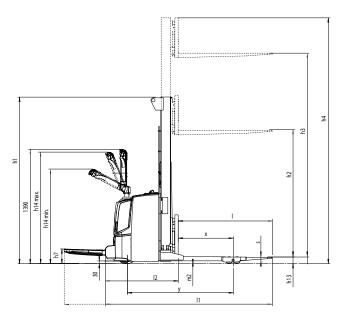
SBP12/14/16N2R: with folding platform



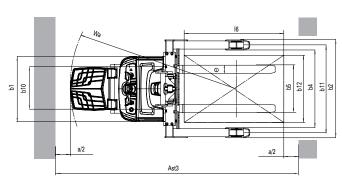


SBP12i/14i/16iN2R: with folding platform





SBP16N2SR: with folding platform



Steering system

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

Brakes

- **Regenerative braking** *gives* effective control, without brake wear, and extends shift life.
- Parking brake is automatically activated, when necessary, for extra safety on ramps.

Electrical and control systems

- **High-efficiency electronic** system features waterproof components for maximum reliability – even in moist conditions.
- **Programmable controller** adjusts acceleration, travel speed and braking to suit the application and operator - for greater versatility.
- **On-board diagnostics** and fault memory folder speed up servicing and help prevent damage.
- **Versatile battery** compartment accommodates DIN and BS size batteries with a variety of capacities for maximum compatibility with user's equipment and needs.

Operator environment and controls

- **Spacious, suspended** foldable platform allows operator to ride in comfort – maximum speed 6 km/h – during occasional longer travel (R models only).
- **Choice of two performance** modes via key switch enhances safety, energy efficiency and productivity.
- **Creep speed function and** tiller arm lock bypass maximise safety and control in confined spaces.
- Unique crossbar design deflects obstacles away from tiller arm and operator's hand. protecting both truck and operator.
- **Easy-to-operate controls** reduce operator fatique and minimise mistakes to enhance safety.
- Ergonomic levers allow operators to raise and lower ioads with ease – even when wearing gloves.
- **Battery discharge indicator** is fitted as standard for battery protection and monitoring of truck use.
- **Ground clearance** is only 20 mm - which makes foot trapping very unlikely.

Options include:

- Choice of drive and load wheels for different applications
- Load backrest
- Wide variety of fork dimensions
- **Battery changing device**
- Sealed inbuilt charger
- PIN code pad
- **Cold store modification** (class III, -35°C)
- **Multifunctional display with** hour meter
- **Equipment bar for mounting** accessories (on most models)
- Space for 375 Ah battery

Mast Performance and Capacity

SBP10N2							
Mast Type	h3+h13	h1	h4	h2+h13			
	mm	mm	mm	mm			
Simplex	1500	1980	1980	1500			
	2500	1775	3000	195			
Duplex	2900	1975	3400	195			
	3300	2175	3800	195			

SBP12/14/16N2 / SBP12/14/16N2R					
Mast	h3+h13	h1	h4	h2+h13	
Type	mm	mm	mm	mm	
Simplex	1500	1950	1950	1500	
	2500	1835	3000	200	
	2900	2035	3400	200	
Duplex	3300	2235	3800	200	
	3600	2385	4100	200	
	4300	2735	4800	200	
	2500	1775	2940	1355	
Dumlau	2900	1975	3340	1555	
Duplex	3300	2235	3800	1755	
Free-lift	3600	2385	4100	1905	
	4300	2735	4800	2255	
	4100	1955	4640		
Triplex	4300	2020	4840		
Illibiex	4700	2153	5240		
	5400*	2385	5940		
	4100	1955	4640	1475	
Triplex	4300	2020	4840	1540	
Free-lift	4700	2153	5240	1673	
	5400*	2385	5940	1905	

Only SBP14N2-16N2 & SBP14N2I-16N2I

Simplex

S DS Duplex with clear-view mast DEV Duplex with full free lift TR Triplex with clear-view mast TREV Triplex with full free lift

Lifting height h3+h13 h1 Lowered mast height h4 Raised mast height

h2+h13 = Free lift

SBP12/14/16N2i / SBP12/14/16N2iR						
Mast	h3+h13	h1	h4	h2+h13		
Type	mm	mm	mm	mm		
Simplex	1500	2055	2055	1505		
	2500	1940	3105	200		
	2900	2140	3505	200		
Duplex	3300	2340	3905	200		
	3600	2490	4205	200		
	4300	2840	4905	200		
	2500	1940	3105	1360		
Dunley	2900	2140	3505	1560		
Duplex Free-lift	3300	2340	3905	1760		
1166-1111	3600	2490	4205	1910		
	4300	2840	4905	2260		
	4100	2060	4745			
Triplex	4300	2125	4945			
Hibiex	4700	2260	5345			
	5400*	2490	6045			
	4100	2060	4745	1480		
Triplex	4300	2125	4945	1545		
Free-lift	4700	2260	5345	1673		
	5400*	2490	6045	1910		

SBP16N2S / SBP16N2SR						
Mast	h3+h13	h1	h4	h2+h13		
Type	mm	mm	mm	mm		
Simplex	1500	2030	2030	1500		
	2500	1915	3080	195		
	2900	2115	3480	195		
Duplex	3300	2315	3880	195		
	3600	2465	4180	195		
	4300	2815	4880	195		
	2500	1915	3080	1355		
Dumlau	2900	2115	3480	1555		
Duplex Free-lift	3300	2315	3880	1755		
riee-iiit	3600	2465	4180	1905		
	4300	2815	4880	2255		
	4100	2035	4720			
Triploy	4300	2100	4920			
Triplex	4700	2233	5320			
	5400	2465	6020			
	4100	2035	4720	1475		
Triplex	4300	2100	4920	1540		
Free-lift	4700	2233	5320	1753		
	5400	2465	6020	1905		

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

Every model in our comprehensive, award-winning 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.



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