Like any product bearing the "MITSUBISHI" name our materials handling equipment benefits from the tremendous heritage, huge resources and cutting-edge technology of one of the world's largest corporations – Mitsubishi Heavy Industries Group.

Engineering spacecraft, jet planes, power plants and more, MHI specialises in those technologies where performance, dependability and superiority decide your success or failure...

So when we promise you **quality**, **reliability** and **value for money**, you know it's a guarantee we have the power to deliver.

That's why every model in our award-winning and comprehensive range of lift trucks and warehouse equipment is built to a high specification – to ensure it keeps working for you. Day after day. Year after year. Whatever the job. Whatever the conditions.

YOU'LL NEVER WORK ALONE

As your local authorised dealer, we are here to keep your trucks working – through our extensive experience, our technical excellence and our commitment to customer care.

We are your local experts, backed by efficient channels to the entire organisation of Mitsubishi Forklift Trucks.

No matter where you are, we are close by – with the capability to meet your needs.

Discover how Mitsubishi Forklift Trucks give you more from your local authorised dealer or when you visit our website **www.mitforklift.com.sg**

FMIT0190(11/2022)

MITSUBISHI FORKLIFT TRUCKS

MOVE THE WORLD FORWARD

MITSUBISHI HEAVY INDUSTRIES GROUP

AXIA ES (1.0 - 1.6 TONS)

PEDESTRIAN STACKERS

SBP10-16N3(I)(R)(S) Series

WHEN RELIABILITY IS EVERYTHING...

MITSUBISHI FORKLIFT TRUCKS

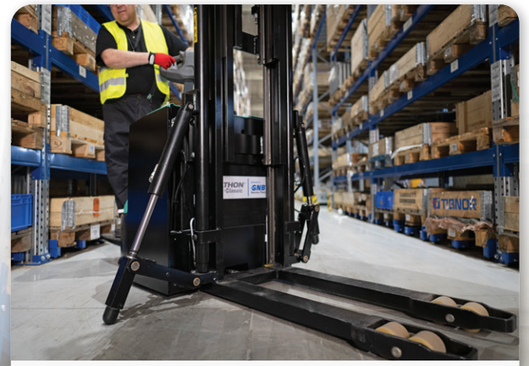
MAXIMISE YOUR STORAGE

The compact **AXiA ES** stacker range is built to maximise your storage space, working in extremely narrow spaces thanks to the shortest chassis on the market.

Unaffected by dirt, debris, dust and water thanks to its sealed protective chassis and waterproof components (rated to IP54), **AXiA ES** will work dependably indoors or out with minimum maintenance.

FORKS AND MAST

- **Robust forks**
  Strong welded construction with rounded tips for effortless pallet entry.
- **Tapered forks**
  Access to pallets in racks or block stacks is easier, quicker and safer.



FRAME AND BODY

- **High visibility**
  Operator has a good view of the fork tips and working area.
- **Sealed chassis**
  Internal components are protected against water, dirt, dust and debris, reducing downtime and servicing.
- **Water-resistant design**
  Water is kept away from key electrical parts for safety and longer part life.
- **Low centre of gravity**
  Operation is safer and more stable.
- **Two linked castor wheels**
  In addition to the load wheels for added stability. Increases comfort for the driver and safety for the load.
- **Operate in low temperatures**
  Can be used for cold storage applications in temperatures aslow as -10 °C with sealed components impervious to condensation.
- **Side stabilisers**
  Aids the truck in lifting higher capacities at higher lift heights. (Option)

MAXIMISE YOUR PRODUCTIVITY

OPERATOR COMPARTMENT & CONTROLS

- **Choice of two pre-set operating modes (ECO and PRO)**
  Enabled via key switch to enhance safety, energy efficiency and productivity.
- **Left-handed or right-handed controls**
  The tiller arm's versatile design allows for operation from either side.
- **Low to the ground**
  Ground clearance is only 20 mm so there is no risk of foot trapping.
- **PIN-code access**
  Stops unauthorised truck use and keeps you aware of who's operating at all times.
- **Ergonomic ErgoSteer tiller head**
  Best-in-class, weather-protected and impact-resistant tillerhead with large, easy-to-reach buttons placed at a patented ergonomic distance for reduced fatigue and safer operation. IP65 rated.
- **Emergency stop**
  Easy and fast stop to power in an emergency.
- **Ergonomic rubber hand grips**
  Handles are comfortable and easy to hold.
- **Battery discharge indicator**
  Fitted as standard for battery protection and preventing deep discharge.

DRIVE

- **Powerful AC drive motor**
  Excellent traction and ramp performance, smooth, quiet, controlled operation, extended shift length and lower maintenance requirements.
- **Sealed transmission**
  Shock-resistant, quiet and requires little maintenance.
- **Sensitive Drive System (SDS)**
  An intuitive driver-assist system for increased safety. Performance is managed according to steer angle and the velocity of foot and finger controls.

BRAKES

- **Parking brake**
  Automatically activated when necessary for extra safety on ramps.

ELECTRICAL AND CONTROL SYSTEMS

- **Battery rollers**
  Changing batteries is quicker, easier and safer.
- **Micro-computer**
  Includes hour meter, battery indicator and cut out.
- **Programmable controller**
  Acceleration, speed and braking can be adjusted to suit the application and operator's preferences.
- **Battery discharge indicator**
  Fitted as standard for battery protection and preventing deep discharge.

STEERING SYSTEM

- **Small turning circle**
  Combine this with the compact chassis and operation is possible in tight areas allowing for optimised use of warehouse space.

OTHER FEATURES

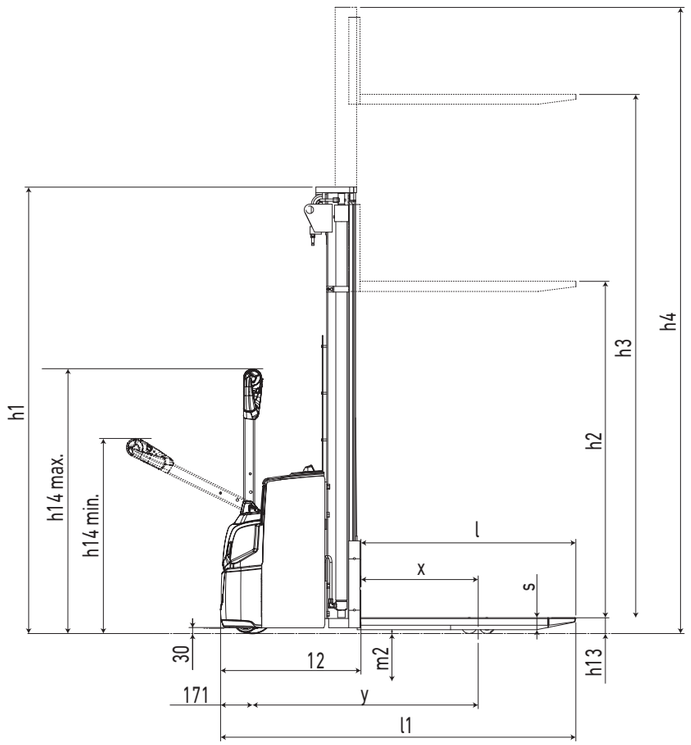
- **RapidAccess features**
  These allow quick and easy entry to all areas for checks and maintenance.

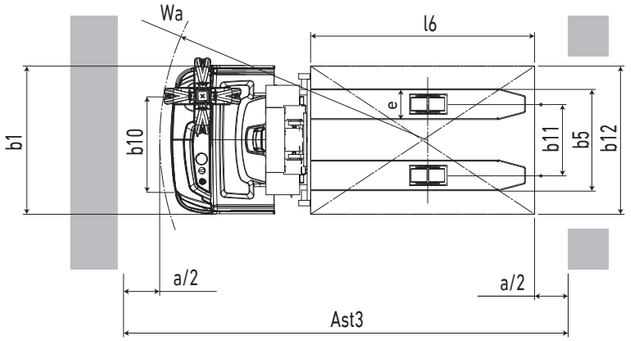
SPECIFICATION

SBP10 / 12 / 14 / 16N3

	CHARACTERISTICS						
1	Manufacturer			MITSUBISHI FORKLIFT TRUCKS			
2	Manufacturer's model designation			SBP10N3	SBP12N3	SBP14N3	SBP16N3
3	Power source			Battery	Battery	Battery	Battery
4	Operator type			Pedestrian	Pedestrian	Pedestrian	Pedestrian
5	Load capacity	Q	kg	1000	1200	1400	1600
6	Load center distance	c	mm	600	600	600	600
7	Load wheel axle to fork face (forks lowered)	x	mm	700	750	750	750
8	Wheelbase	y	mm	1215	1330	1330	1330
	WEIGHT						
9	Truck weight without load, with maximum battery weight		kg	730	1020	1020	1020
10	Axle loadings with nominal load & maximum battery weight, drive / load side		kg	612 / 1128	810 / 1410	845 / 1580	870 / 1755
11	Axle loadings without load & with maximum battery weight, drive / load side		kg	534 / 196	730 / 295	730 / 295	730 / 295
	WHEELS, DRIVE TRAIN						
12	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side			Vul / Vul	Vul / Vul	Vul / Vul	Vul / Vul
13	Tyre dimensions, drive side		mm	230 × 70	230 × 70	230 × 70	230 × 70
14	Tyre dimensions, load side	Ø	mm	85 × 90	85 × 90	85 × 75	85 × 75
15	Castor wheel dimensions (diameter x width)		mm	125 × 60	125 × 60	125 × 60	125 × 60
16	Number of wheels, load / drive side (x = driven)			1 + 1x /2	1 + 1 x / 2	1 + 1 x / 4	1 + 1 x / 4
17	Track width (center of tyres), drive side	b10	mm	515	515	515	515
18	Track width (center of tyres), load side	b11	mm	385	385	385	385
	DIMENSIONS						
19	Height	h1	mm	see tables	see tables	see tables	see tables
20	Free lift	h2	mm	see tables	see tables	see tables	see tables
21	Lift height	h3	mm	see tables	see tables	see tables	see tables
22	Height with mast extended	h4	mm	see tables	see tables	see tables	see tables
23	Initial lift	h5	mm	-	-	-	-
24	Height of tiller arm / steering console (min./max.)	h14	mm	865 / 1420	865 / 1420	865 / 1420	865 / 1420
25	Fork height, fully lowered	h13	mm	90	90	90	90
26	Overall length	l1	mm	1835	1900 [1)]	1900	1900
27	Length to fork face	l2	mm	685	750 [1)]	750	750
28	Overall width	b1/b2	mm	800	800	800	800
29	Fork dimensions (thickness, width, length)	s/e/l	mm	56 / 186 / 1150	56 / 186 / 1150	56 / 186 / 1150	56 / 186 / 1150
30	Fork carriage width	b3	mm	750	750	750	750
31	Outside width over forks (minimum / maximum)	b5	mm	570	570	570	570
32	Inner width of support legs	b4	mm	-	-	-	-
33	Ground clearance at center of wheelbase, (forks lowered)	m2	mm	20	20	20	20
34	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise	Ast	mm	-	-	-	-
35	Working aisle width (Ast3) with 1000 x 1200 mm pallets, load crosswise	Ast3	mm	-	-	-	-
36	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast	mm	2300	2445	2445	2445
37	Working aisle width (Ast3) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast3	mm	-	-	-	-
38	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast	mm	-	-	-	-
39	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise	Ast3	mm	-	-	-	-
40	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast	mm	2230	2374	2347	2374
41	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast3	mm	-	-	-	-
42	Turning radius	Wa	mm	1458	1572	1572	1572
	PERFORMANCE						
43	Travel speed, with / without load		km/h	6.0 / 6.0	6.0 / 6.0	6.0 / 6.0	6.0 / 6.0
44	Lifting speed, with / without load		m/s	0.15 / 0.30	0.16 / 0.33	0.14 / 0.33	0.15 / 0.32
45	Lowering speed, with / without load		m/s	0.29 / 0.32	0.46 / 0.35	0.45 / 0.35	0.48 / 0.34
46	Gradeability, with / without load		%	-	-	-	-
47	Maximum gradeability with / without load		%	8 / 15	8 / 15	8 / 15	8 / 15
48	Acceleration time (10 metres) with / without load		s	-	-	-	-
49	Service brakes (mechanical / hydraulic / electric / pneumatic)			Electric	Electric	Electric	Electric
	ELECTRIC MOTORS						
50	Drive motor capacity (60 min. short duty)		kW	1.0	1.0	1.0	1.0
51	Lift motor output at 15% duty factor		kW	2.2	2.2	2.2	3.2
52	Battery voltage/capacity at 5-hour discharge		V/Ah	24 / 150	24 / 250	24 / 150	24 / 250 - 375
53	Battery weight		kg	150	210	210	210
	MISCELLANEOUS						
54	Type of drive control			Stepless	Stepless	Stepless	Stepless
55	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)	65	64	-	-
56	Whole-body vibration (EN 13 059:2002)			-	-	-	-
57	Hand-arm vibration (EN 13 059:2002)			< 2.5	< 2.5	< 2.5	< 2.5

1) -64mm with 150 Ah battery





Ast = Working aisle width
Ast3 = Working aisle width (b12 <1000 mm)
Ast = $Wa + \sqrt{(l6 - x)^2 + (b12 / 2)^2} + a$
Ast3 = Wa + l6 -x +a

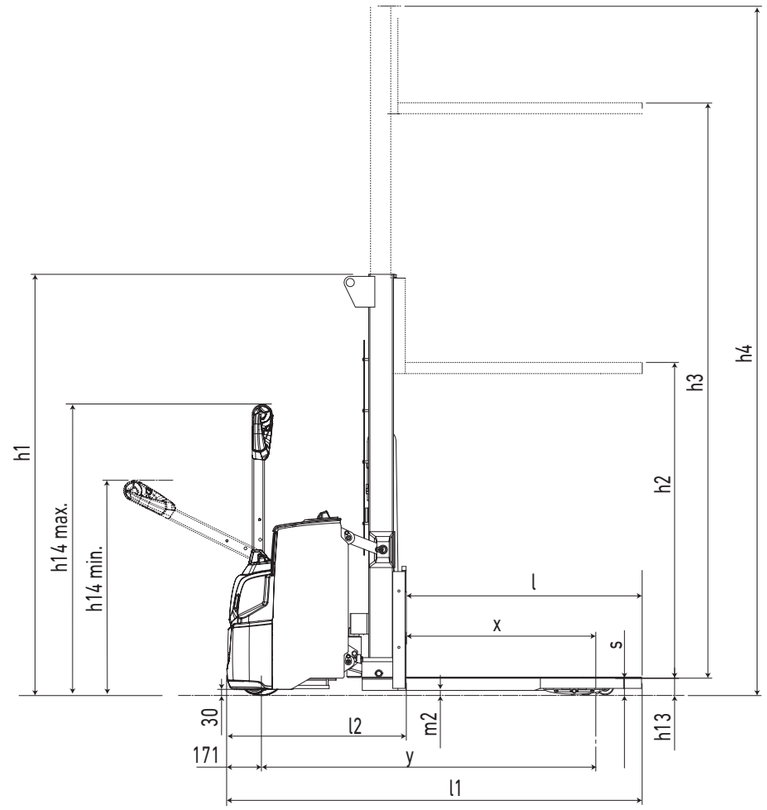
Wa = Turning radius
l6 = Pallet length
x = Load wheel axle to fork face
b12 = Pallet width
a = Safety clearance = 2 x 100 mm

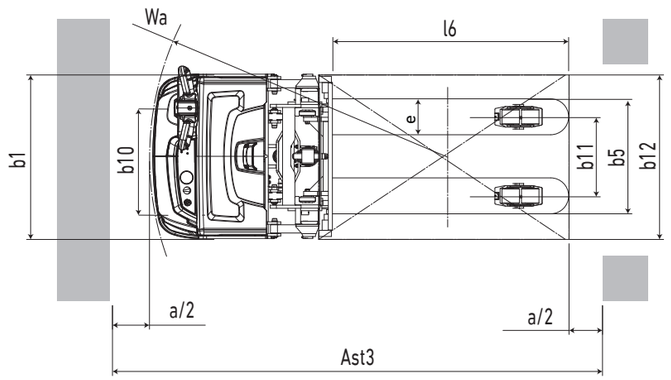
SPECIFICATION

	CHARACTERISTICS					
1	Manufacturer			MITSUBISHI FORKLIFT TRUCKS		
2	Manufacturer's model designation			SBP12N3I	SBP14N3I	SBP16N3I
3	Power source			Battery	Battery	Battery
4	Operator type			Pedestrian	Pedestrian	Pedestrian
5	Load capacity	Q	kg	1200	1400	1600
6	Load center distance	c	mm	600	600	600
7	Load wheel axle to fork face (forks lowered)	x	mm	925	925	925
8	Wheelbase	y	mm	1610	1610	1610
	WEIGHT					
9	Truck weight without load, with maximum battery weight		kg	1095	1095	1095
10	Axle loadings with nominal load & maximum battery weight, drive / load side		kg	1060 / 1230	1105 / 1390	1145 / 1545
11	Axle loadings without load & with maximum battery weight, drive / load side		kg	780 / 315	780 / 312	780 / 312
	WHEELS, DRIVE TRAIN					
12	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side			Vul / Vul	Vul / Vul	Vul / Vul
13	Tyre dimensions, drive side		mm	230 × 70	230 × 70	230 × 70
14	Tyre dimensions, load side	Ø	mm	85 × 90	85 × 75	85 × 75
15	Castor wheel dimensions (diameter x width)		mm	125 × 60	125 × 60	125 × 60
16	Number of wheels, load / drive side (x = driven)			1 + 1x /2	1 + 1 x / 4	1 + 1 x / 4
17	Track width (center of tyres), drive side	b10	mm	515	515	515
18	Track width (center of tyres), load side	b11	mm	385	385	385
	DIMENSIONS					
19	Height	h1	mm	see tables	see tables	see tables
20	Free lift	h2	mm	see tables	see tables	see tables
21	Lift height	h3	mm	see tables	see tables	see tables
22	Height with mast extended	h4	mm	see tables	see tables	see tables
23	Initial lift	h5	mm	200	200	200
24	Height of tiller arm / steering console (min./max.)	h14	mm	865 / 1420	865 / 1420	865 / 1420
25	Fork height, fully lowered	h13	mm	90	90	90
26	Overall length	l1	mm	2010 [1)]	2010	2010
27	Length to fork face	l2	mm	855 [1)]	855	855
28	Overall width	b1/b2	mm	800	800	800
29	Fork dimensions (thickness, width, length)	s/e/l	mm	56 / 186 / 1150	56 / 186 / 1150	56 / 186 / 1150
30	Fork carriage width	b3	mm	750	750	750
31	Outside width over forks (minimum / maximum)	b5	mm	570	570	570
32	Inner width of support legs	b4	mm	-	-	-
33	Ground clearance at center of wheelbase, (forks lowered)	m2	mm	20	20	20
34	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise	Ast	mm	-	-	-
35	Working aisle width (Ast3) with 1000 x 1200 mm pallets, load crosswise	Ast3	mm	-	-	-
36	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast	mm	2619	2619	2619
37	Working aisle width (Ast3) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast3	mm	-	-	-
38	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast	mm	-	-	-
39	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise	Ast3	mm	-	-	-
40	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast	mm	2533	2533	2533
41	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast3	mm	-	-	-
42	Turning radius	Wa	mm	1848	1848	1848
	PERFORMANCE					
43	Travel speed, with / without load		km/h	6.0 / 6.0	6.0 / 6.0	6.0 / 6.0
44	Lifting speed, with / without load		m/s	0.16 / 0.33	0.14 / 0.33	0.15 / 0.32
45	Lowering speed, with / without load		m/s	0.46 / 0.35	0.45 / 0.35	0.43 / 0.34
46	Gradeability, with / without load		%	-	-	-
47	Maximum gradeability with / without load		%	8 / 15	8 / 15	8 / 15
48	Acceleration time (10 metres) with / without load		s	-	-	-
49	Service brakes (mechanical / hydraulic / electric / pneumatic)			Electric	Electric	Electric
	ELECTRIC MOTORS					
50	Drive motor capacity (60 min. short duty)		kW	1.0	1.0	1.0
51	Lift motor output at 15% duty factor		kW	2.2	2.2	3.2
52	Battery voltage/capacity at 5-hour discharge		V/Ah	24 / 150	24 / 250	24 / 250 - 375
53	Battery weight		kg	210	210	210
	MISCELLANEOUS					
54	Type of drive control			Stepless	Stepless	Stepless
55	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)	64	-	-
56	Whole-body vibration (EN 13 059:2002)			-	-	-
57	Hand-arm vibration (EN 13 059:2002)			< 2.5	< 2.5	< 2.5

1) -64mm with 150 Ah battery

SBP12 / 14 / 16N3I
INITIAL LIFT





Ast = Working aisle width
Ast3 = Working aisle width (b12 <1000 mm)
Ast = $Wa + \sqrt{(l6 - x)^2 + (b12 / 2)^2} + a$
Ast3 = Wa + l6 -x +a

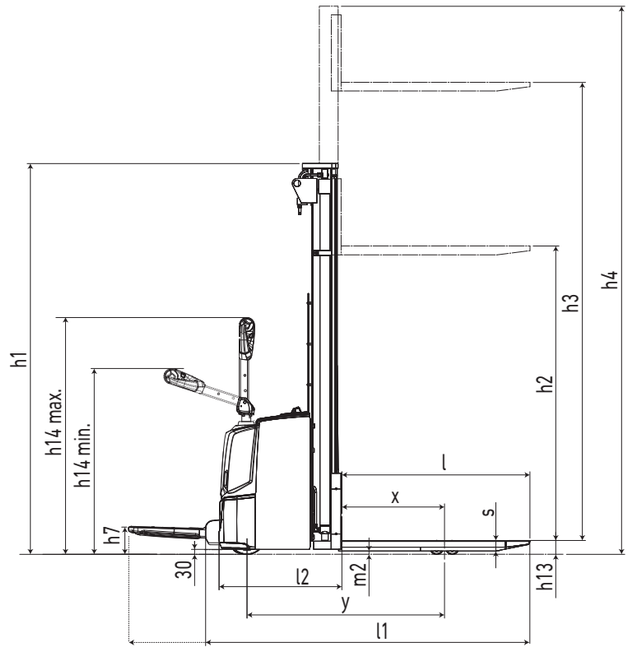
Wa = Turning radius
l6 = Pallet length
x = Load wheel axle to fork face
b12 = Pallet width
a = Safety clearance = 2 x 100 mm

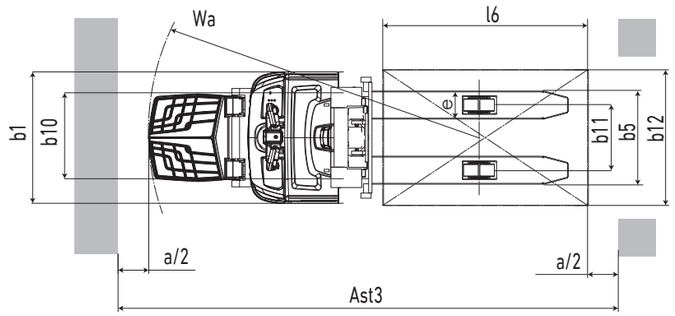
SPECIFICATION

SBP10 / 12 / 14 / 16N3R WITH FOLDING PLATFORM

	CHARACTERISTICS						
1	Manufacturer			MITSUBISHI	FORKLIFT TRUCKS		
2	Manufacturer's model designation			SBP10N3R	SBP12N3R	SBP14N3R	SBP16N3R
3	Power source			Battery	Battery	Battery	Battery
4	Operator type			Pedestrian / Stand-on	Pedestrian / Stand-on	Pedestrian / Stand-on	Pedestrian / Stand-on
5	Load capacity	Q	kg	1000	1200	1400	1600
6	Load center distance	c	mm	600	600	600	600
7	Load wheel axle to fork face (forks lowered)	x	mm	700	750	750	750
8	Wheelbase	y	mm	1215	1330	1330	1330
	WEIGHT						
9	Truck weight without load, with maximum battery weight		kg	860	1100	1100	1100
10	Axle loadings with nominal load & maximum battery weight, drive / load side		kg	715 / 1155	840 / 1400	860 / 1580	990 / 1795
11	Axle loadings without load & with maximum battery weight, drive / load side		kg	640 / 220	860 / 320	740 / 295	860 / 320
	WHEELS, DRIVE TRAIN						
12	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side			Vul / Vul	Vul / Vul	Vul / Vul	Vul / Vul
13	Tyre dimensions, drive side		mm	230 × 70	230 × 70	230 × 70	230 × 70
14	Tyre dimensions, load side	Ø	mm	85 × 90	85 × 90	85 × 75	85 × 75
15	Castor wheel dimensions (diameter x width)		mm	125 × 60	125 × 60	125 × 60	125 × 60
16	Number of wheels, load / drive side (x = driven)			1 + 1x /2	1 + 1 x / 2	1 + 1 x / 4	1 + 1 x / 4
17	Track width (center of tyres), drive side	b10	mm	515	515	515	515
18	Track width (center of tyres), load side	b11	mm	385	385	385	385
	DIMENSIONS						
19	Height	h1	mm	see tables	see tables	see tables	see tables
20	Free lift	h2	mm	see tables	see tables	see tables	see tables
21	Lift height	h3	mm	see tables	see tables	see tables	see tables
22	Height with mast extended	h4	mm	see tables	see tables	see tables	see tables
23	Initial lift	h5	mm	-	-	-	-
24	Height of tiller arm / steering console (min./max.)	h14	mm	1155 / 1550	1155 / 1550	1155 / 1550	1155 / 1550
25	Fork height, fully lowered	h13	mm	90	90	90	90
26	Overall length	l1	mm	1955 / 2435	2020 / 2500	2020 / 2500	2020 / 2500
27	Length to fork face	l2	mm	805 / 1285	870 / 1350	870 / 1350	870 / 1350
28	Overall width	b1/b2	mm	800	800	800	800
29	Fork dimensions (thickness, width, length)	s/e/l	mm	56 / 186 / 1150	56 / 186 / 1150	56 / 186 / 1150	56 / 186 / 1150
30	Fork carriage width	b3	mm	750	750	750	750
31	Outside width over forks (minimum / maximum)	b5	mm	570	570	570	570
32	Inner width of support legs	b4	mm	-	-	-	-
33	Ground clearance at center of wheelbase, (forks lowered)	m2	mm	20	20	20	20
34	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise	Ast	mm	-	-	-	-
35	Working aisle width (Ast3) with 1000 x 1200 mm pallets, load crosswise	Ast3	mm	-	-	-	-
36	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast	mm	2420 / 2900	2550 / 3050	2550 / 3050	2550 / 3050
37	Working aisle width (Ast3) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast3	mm	-	-	-	-
38	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast	mm	-	-	-	-
39	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise	Ast3	mm	-	-	-	-
40	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast	mm	2350 / 2830	2660 / 2980	2660 / 2980	2660 / 2980
41	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast3	mm	-	-	-	-
42	Turning radius	Wa	mm	1578 / 2058	1692 / 2172	1692 / 2172	1684 / 2170
	PERFORMANCE						
43	Travel speed, with / without load		km/h	6.0 / 6.0	6.0 / 6.0	6.0 / 6.0	6.0 / 6.0
44	Lifting speed, with / without load		m/s	0.15 / 0.30	0.16 / 0.33	0.14 / 0.33	0.15 / 0.32
45	Lowering speed, with / without load		m/s	0.29 / 0.32	0.46 / 0.35	0.45 / 0.35	0.43 / 0.34
46	Gradeability, with / without load		%	-	-	-	-
47	Maximum gradeability with / without load		%	8 / 15	8 / 15	8 / 15	8 / 15
48	Acceleration time (10 metres) with / without load		s	-	-	-	-
49	Service brakes (mechanical / hydraulic / electric / pneumatic)			Electric	Electric	Electric	Electric
	ELECTRIC MOTORS						
50	Drive motor capacity (60 min. short duty)		kW	1.0	1.0	1.0	1.0
51	Lift motor output at 15% duty factor		kW	2.2	2.2	2.2	3.2
52	Battery voltage/capacity at 5-hour discharge		V/Ah	24 / 150 - 250	24 / 150 - 250	24 / 250	24 / 250 - 375
53	Battery weight		kg	150	210	210	210
	MISCELLANEOUS						
54	Type of drive control			Stepless	Stepless	Stepless	Stepless
55	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)	-	-	-	-
56	Whole-body vibration (EN 13 059:2002)			0.8	0.8	0.8	0.8
57	Hand-arm vibration (EN 13 059:2002)			< 2.5	< 2.5	< 2.5	< 2.5

1) -64mm with 150 Ah battery





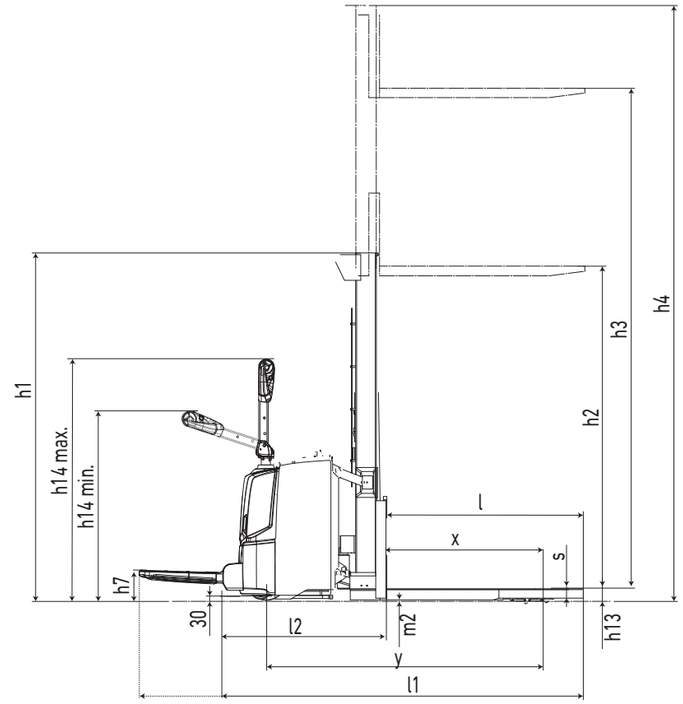
Ast = Working aisle width
Ast3 = Working aisle width (b12 <1000 mm)
Ast = $Wa + \sqrt{(l6 - x)^2 + (b12 / 2)^2} + a$
Ast3 = Wa + l6 -x +a

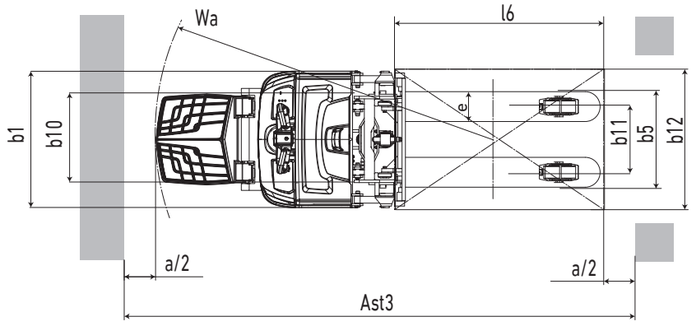
Wa = Turning radius
l6 = Pallet length
x = Load wheel axle to fork face
b12 = Pallet width
a = Safety clearance = 2 x 100 mm

SPECIFICATION

SBP12 / 14 / 16N3IR
INITIAL LIFT
WITH FOLDING PLATFORM

	CHARACTERISTICS					
1	Manufacturer			MITSUBISHI FORKLIFT TRUCKS		
2	Manufacturer's model designation			SBP12N3IR	SBP14N3IR	SBP16N3IR
3	Power source			Battery	Battery	Battery
4	Operator type			Pedestrian / Stand-on	Pedestrian / Stand-on	Pedestrian / Stand-on
5	Load capacity	Q	kg	1200	1400	1600
6	Load center distance	c	mm	600	600	600
7	Load wheel axle to fork face (forks lowered)	x	mm	925	925	925
8	Wheelbase	y	mm	1610	1610	1610
	WEIGHT					
9	Truck weight without load, with maximum battery weight		kg	1175	1175	1175
10	Axle loadings with nominal load & maximum battery weight, drive / load side		kg	1030 / 1350	1115 / 1460	1200 / 1575
11	Axle loadings without load & with maximum battery weight, drive / load side		kg	840 / 335	840 / 335	840 / 335
	WHEELS, DRIVE TRAIN					
12	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side			Vul / Vul	Vul / Vul	Vul / Vul
13	Tyre dimensions, drive side		mm	230 × 70	230 × 70	230 × 70
14	Tyre dimensions, load side	Ø	mm	85 × 90	85 × 75	85 × 75
15	Castor wheel dimensions (diameter x width)		mm	125 × 60	125 × 60	125 × 60
16	Number of wheels, load / drive side (x = driven)			1 + 1x /2	1 + 1 x / 4	1 + 1 x / 4
17	Track width (center of tyres), drive side	b10	mm	515	515	515
18	Track width (center of tyres), load side	b11	mm	385	385	385
	DIMENSIONS					
19	Height	h1	mm	see tables	see tables	see tables
20	Free lift	h2	mm	see tables	see tables	see tables
21	Lift height	h3	mm	see tables	see tables	see tables
22	Height with mast extended	h4	mm	see tables	see tables	see tables
23	Initial lift	h5	mm	200	200	200
24	Height of tiller arm / steering console (min./max.)	h14	mm	1155 / 1550	1155 / 1550	1155 / 1550
25	Fork height, fully lowered	h13	mm	90	90	90
26	Overall length	l1	mm	2125 / 2605	2125 / 2605	2125 / 2605
27	Length to fork face	l2	mm	975 / 1455	975 / 1455	975 / 1455
28	Overall width	b1/b2	mm	800	800	800
29	Fork dimensions (thickness, width, length)	s/e/l	mm	56 / 186 / 1150	56 / 186 / 1150	56 / 186 / 1150
30	Fork carriage width	b3	mm	750	750	750
31	Outside width over forks (minimum / maximum)	b5	mm	570	570	570
32	Inner width of support legs	b4	mm	-	-	-
33	Ground clearance at center of wheelbase, (forks lowered)	m2	mm	20	20	20
34	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise	Ast	mm	-	-	-
35	Working aisle width (Ast3) with 1000 x 1200 mm pallets, load crosswise	Ast3	mm	-	-	-
36	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast	mm	2743 / 3223	2743 / 3223	2743 / 3223
37	Working aisle width (Ast3) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast3	mm	-	-	-
38	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast	mm	-	-	-
39	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise	Ast3	mm	-	-	-
40	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast	mm	2657 / 3137	2657 / 3137	2657 / 3137
41	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast3	mm	-	-	-
42	Turning radius	Wa	mm	1972 / 2452	1972 / 2452	1972 / 2452
	PERFORMANCE					
43	Travel speed, with / without load		km/h	6.0 / 6.0	6.0 / 6.0	6.0 / 6.0
44	Lifting speed, with / without load		m/s	0.16 / 0.33	0.14 / 0.33	0.15 / 0.32
45	Lowering speed, with / without load		m/s	0.46 / 0.35	0.45 / 0.35	0.43 / 0.34
46	Gradeability, with / without load		%	-	-	-
47	Maximum gradeability with / without load		%	8 / 15	8 / 15	8 / 15
48	Acceleration time (10 metres) with / without load		s	-	-	-
49	Service brakes (mechanical / hydraulic / electric / pneumatic)			Electric	Electric	Electric
	ELECTRIC MOTORS					
50	Drive motor capacity (60 min. short duty)		kW	1.0	1.0	1.0
51	Lift motor output at 15% duty factor		kW	2.2	2.2	3.2
52	Battery voltage/capacity at 5-hour discharge		V/Ah	24 / 150 - 250	24 / 250	24 / 250 - 375
53	Battery weight		kg	210	210	210
	MISCELLANEOUS					
54	Type of drive control			Stepless	Stepless	Stepless
55	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)	-	-	-
56	Whole-body vibration (EN 13 059:2002)			0.8	0.8	0.8
57	Hand-arm vibration (EN 13 059:2002)			< 2.5	< 2.5	< 2.5





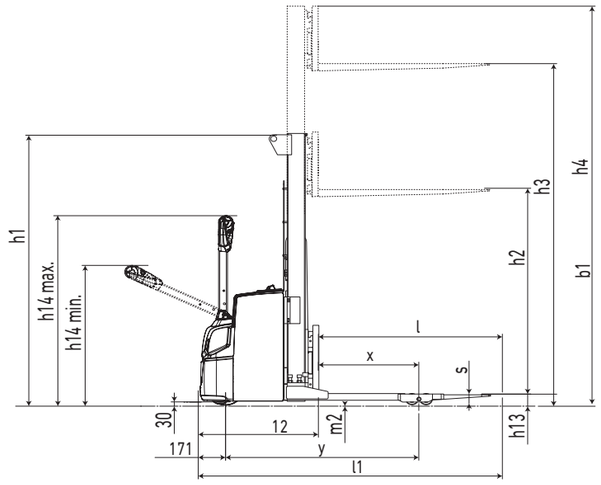
Ast = Working aisle width
Ast3 = Working aisle width (b12 <1000 mm)
Ast = Wa + $\sqrt{(l6 - x)^2 + (b12 / 2)^2}$ + a
Ast3 = Wa + l6 -x +a

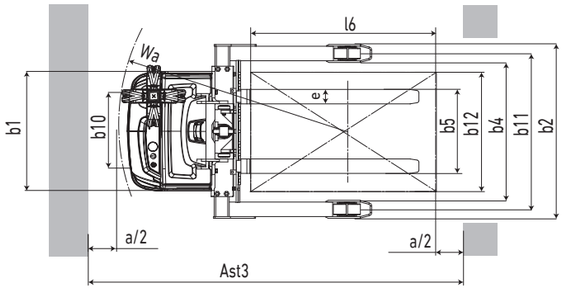
Wa = Turning radius
l6 = Pallet length
x = Load wheel axle to fork face
b12 = Pallet width
a = Safety clearance = 2 x 100 mm

SPECIFICATION

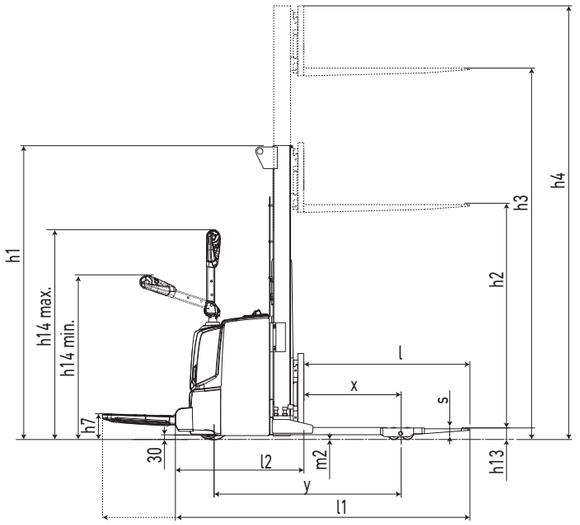
	CHARACTERISTICS				
1	Manufacturer			MITSUBISHI FORKLIFT TRUCKS	
2	Manufacturer's model designation			SBP16N3S	SBP16N3SR
3	Power source			Battery	Battery
4	Operator type			Pedestrian	Pedestrian / Stand-on
5	Load capacity	Q	kg	1600	1600
6	Load center distance	c	mm	600	600
7	Load wheel axle to fork face (forks lowered)	x	mm	750	750
8	Wheelbase	y	mm	1395	1395
	WEIGHT				
9	Truck weight without load, with maximum battery weight		kg	1288	1440
10	Axle loadings with nominal load & maximum battery weight, drive / load side		kg	1045 / 1870	1215 / 1985
11	Axle loadings without load & with maximum battery weight, drive / load side		kg	892 / 396	1020 / 420
	WHEELS, DRIVE TRAIN				
12	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side			Vul / Vul	Vul / Vul
13	Tyre dimensions, drive side		mm	230 × 70	230 × 70
14	Tyre dimensions, load side	Ø	mm	85 × 75	85 × 75
15	Castor wheel dimensions (diameter x width)		mm	125 × 60	125 × 60
16	Number of wheels, load / drive side (x = driven)			1 + 1x /4	1 + 1 x / 4
17	Track width (center of tyres), drive side	b10	mm	515	515
18	Track width (center of tyres), load side	b11	mm	1025-1425	1025-1425
	DIMENSIONS				
19	Height	h1	mm	see tables	see tables
20	Free lift	h2	mm	see tables	see tables
21	Lift height	h3	mm	see tables	see tables
22	Height with mast extended	h4	mm	see tables	see tables
23	Initial lift	h5	mm	-	-
24	Height of tiller arm / steering console (min./max.)	h14	mm	865 / 1420	1155 / 1550
25	Fork height, fully lowered	h13	mm	85	85
26	Overall length	l1	mm	1965	2085 / 2565
27	Length to fork face	l2	mm	815	935 / 1415
28	Overall width	b1/b2	mm	800 / 1140 - 1575	800 / 1140 - 1575
29	Fork dimensions (thickness, width, length)	s/e/l	mm	40 / 100 / 1150	40 / 100 / 1150
30	Fork carriage width	b3	mm	980	980
31	Outside width over forks (minimum / maximum)	b5	mm	260-900	260-900
32	Inner width of support legs	b4	mm	900-1300	900-1300
33	Ground clearance at center of wheelbase, (forks lowered)	m2	mm	20	20
34	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise	Ast	mm	-	-
35	Working aisle width (Ast3) with 1000 x 1200 mm pallets, load crosswise	Ast3	mm	-	-
36	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast	mm	2580	2690/3170
37	Working aisle width (Ast3) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast3	mm	-	-
38	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast	mm	-	-
39	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise	Ast3	mm	-	-
40	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast	mm	2580	2690/3170
41	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast3	mm	-	-
42	Turning radius	Wa	mm	1637	1757 / 2237
	PERFORMANCE				
43	Travel speed, with / without load		km/h	6.0 / 6.0	6.0 / 6.0
44	Lifting speed, with / without load		m/s	0.15 / 0.32	0.15 / 0.32
45	Lowering speed, with / without load		m/s	0.43 / 0.34	0.5 / 0.34
46	Gradeability, with / without load		%	-	-
47	Maximum gradeability with / without load		%	8 / 15	8 / 15
48	Acceleration time (10 metres) with / without load		s	-	-
49	Service brakes (mechanical / hydraulic / electric / pneumatic)			Electric	Electric
	ELECTRIC MOTORS				
50	Drive motor capacity (60 min. short duty)		kW	1.0	1.0
51	Lift motor output at 15% duty factor		kW	3.2	3.2
52	Battery voltage/capacity at 5-hour discharge		V/Ah	24 / 250 - 375	24 / 250 - 375
53	Battery weight		kg	210	210
	MISCELLANEOUS				
54	Type of drive control			Stepless	Stepless
55	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)	-	-
56	Whole-body vibration (EN 13 059:2002)			-	0.8
57	Hand-arm vibration (EN 13 059:2002)			< 2.5	< 2.5

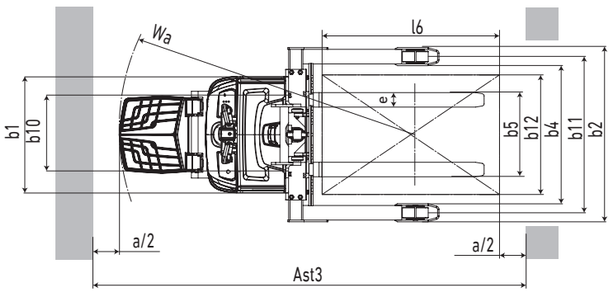
SBP16N3S
WIDE STRADDLE





SBP16N3SR
WIDE STRADDLE
WITH FOLDING PLATFORM





Ast = Working aisle width
Ast3 = Working aisle width (b12 <1000 mm)
Ast = $Wa + \sqrt{(l6 - x)^2 + (b12 / 2)^2} + a$
Ast3 = Wa + l6 -x +a

Wa = Turning radius
l6 = Pallet length
x = Load wheel axle to fork face
b12 = Pallet width
a = Safety clearance = 2 x 100 mm

SPECIFICATION

● = Standard (●) = Standard on initial lift models only
o = Option

	SBP10N3(R)	SBP12N3(I)	SBP14N3(I)	SBP16N3(I)	SBP12N3(I)R	SBP14N3(I)R	SBP16N3(I)R	SBP16N3S	SBP16N3SR
GENERAL									
LED discharge indicator, no hour meter	●	●	●	●	●	●	●	●	●
Multifunctional display, including hour meter	-	-	-	-	-	-	-	-	-
Micro-computer incl. hour meter and battery indicator	-	-	-	-	-	-	-	-	-
PIN code login 99 codes	-	-	-	-	-	-	-	-	-
PIN code login 4 codes	o	o	o	o	o	o	o	o	o
Speed regulated lifting and proportional valve for lowering, controlled by rocker switch on tiller head.	●	●	●	●	●	●	●	●	●
Polyurethane drive wheel	●	●	●	●	●	●	●	●	●
Polyurethane drive wheel or rubber	-	-	-	-	-	-	-	-	-
Initial lift	-	(●)	(●)	(●)	(●)	(●)	(●)	-	-
Single load wheels polyurethane	●	●	-	-	-	-	-	-	-
Tandem load wheels polyurethane	o	o	●	●	●	●	●	●	●
Adjustable width between straddle load legs; 900mm - 1300mm	-	-	-	-	-	-	-	●	●
Sideways battery change (250Ah battery only)	-	o	o	o	o	o	o	o	o
ENVIRONMENT									
Cold store design, 0°C to -35°C	o	o	o	o	o	o	o	o	o
DRIVE AND LIFT CONTROLS									
Tiller up drive	o	o	o	o	o	o	o	o	o
WHEEL OPTIONS									
Polyurethane traction and load wheels	●	●	●	●	●	●	●	●	●
Power friction traction wheel	o	o	o	o	o	o	o	o	o
OTHER OPTIONS									
Speed reduction 0.5km/h above 1000 mm lift, duplex and triplex masts without free lift	-	o	o	o	o	o	o	o	o
Speed reduction 0.5km/h above free lift, duplex and triplex masts with free lift	-	o	o	o	o	o	o	o	o
Side stabilizers (not on (I) model)	-	-	-	o	-	-	o	-	-
Inbuilt charger, 30A	o	o	o	o	o	o	o	o	-
Diselectric band	-	-	-	-	-	-	-	-	-
Key switch	●	●	●	●	●	●	●	●	●
Piezo buzzer instead of standard horn	-	-	-	-	-	-	-	-	-
Special RAL colour	o	o	o	o	o	o	o	o	o
Load backrest	o	o	o	o	o	o	o	o	o
Accessory rack	o	o	o	o	o	o	o	o	o
List bracket, A4 size	o	o	o	o	o	o	o	o	o
Battery Creep	-	-	-	-	-	-	-	-	-
Battery level audible warning	-	-	-	-	-	-	-	-	-
Service alarm	-	-	-	-	-	-	-	-	-
Automatic log off	-	-	-	-	-	-	-	-	-
Revert to low speed at log off	-	-	-	-	-	-	-	-	-

MAST TYPE	h3 + h13 mm	h1 mm	h4 mm	h2 + h13 mm
SBP10N3 / 10N3R				
SIMPLEX	1500	1980	1980	1500
DUPLEX	2500	1775	3000	195
	2900	1975	3400	195
	3300	2175	3800	195
SBP12/14/16N3 / SBP12/14/16N3R				
SIMPLEX	1550	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	-
	4700	2153	5240	-
	5400 [2]	2385	5940	-
TRIPLEX FREE-LIFT	4100	1955	4640	1475
	4300	2020	4840	1540
	4700	2153	5240	1673
	5400 [2]	2385	5940	1905

1) h1 closed mast height includes polycarbonate finger protection. Mast height excl. finger protection is 1343mm / 1493mm.

2) 14/16, 14I/16I, 14R/16R and 14IR/16IR only.

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

MAST TYPE	h3 + h13 mm	h1 mm	h4 mm	h2 + h13 mm
SBP12/14/16N3I / SBP12/14/16N3IR				
SIMPLEX	1500	2055	2055	1505
DUPLEX	2500	1940	3105	200
	2900	2140	3505	200
	3300	2340	3905	200
	3600	2490	4205	200
	4300	2840	4905	200
DUPLEX FREE-LIFT	2500	1940	3105	1360
	2900	2140	3505	1560
	3300	2340	3905	1760
	3600	2490	4205	1910
	4300	2840	4905	2260
TRIPLEX	4100	2060	4745	-
	4300	2125	4945	-
	4700	2260	5345	-
	5400 [2]	2490	6045	-
TRIPLEX FREE-LIFT	4100	2060	4745	1480
	4300	2125	4945	1545
	4700	2260	5345	1673
	5400 [2]	2490	6045	1910
SBP16N3S / SBP16N3SR				
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	-
	4700	2233	5320	-
	5400	2465	6020	-
TRIPLEX FREE-LIFT	4100	2035	4720	1475
	4300	2100	4920	1540
	4700	2233	5320	1753
	5400	2465	6020	1905