

AXIA EX

STAND-IN STACKERS

1.2 - 2.0 tonnes

SMALL SPACES BIG PERFORMANCE

If you are looking to maximise the efficiency of your warehouse space, stand-in stackers may be the perfect choice for you. Combining minimal dimensions, a tight turning circle, and excellent operator protection, they offer an affordable and flexible alternative to a full VNA solution. By keeping the driver completely — and safely protected — within the truck, they can manoeuvre in much smaller aisle width.

SPECIFICATIONS

SBR12N2	SBR16N2	SBR20N2
SBR12N2I	SBR16N2I	SBR20N2I
	SBR16N2S	SBR20N2S

WHEN
RELIABILITY IS
EVERYTHING...

SBR12-20N2(I)(S) Series



AXiA EX

SBR12-20N2(I)(S) Series

STAND-IN STACKERS

1.2 - 2.0 tonnes



Wide straddle models are available with lower profile forged forks to allow greater flexibility in pallet handling, including closed and specialised load carrier material. These models also enable the use of a variety of special handling attachments e.g. spikes, clamps, rolls, etc.

BRAKES

- **High-efficiency regenerative braking**
This gives more effective control and reduces brake wear.

DRIVE

- **Powerful AC drive motor**
High torque for greater efficiency. No carbon brushes mean lower servicing requirements.
- **Intelligent Cornering System**
The truck senses the angle of a turn and reduces speed early for maximum stability and accurate, positive cornering.
- **Automatic Speed Reduction**
Drive speed is automatically limited when forks are above 1.52m (1.6-tonne models) or 1.44m (2.0-tonne models) to allow higher capacities above that height.
- **10 km/h standard speed (option 12 km/h)**
Higher productivity is available if needed. (Narrow straddle models. Wide straddle models 8 km/h standard)



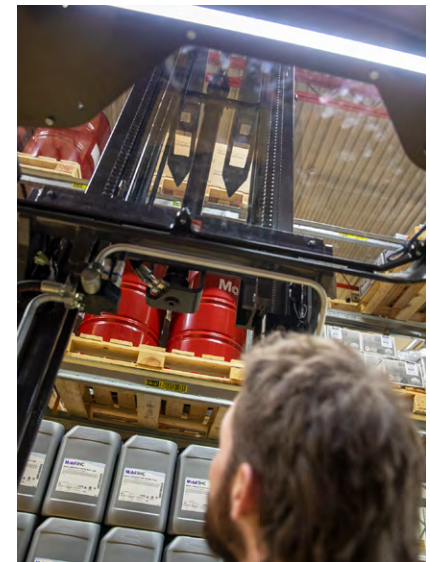
ELECTRICAL AND CONTROL SYSTEMS

- **Built-in Li-ion battery**
Fast opportune charging removes the need for extra batteries and allows 24/7 operation. (Junior chassis only) (Option)
- **Combi controller lift system**
Fingertip control for speed regulated lifting and proportional valve for lowering.
- **Enhanced Stability System (ESS)**
4-point chassis for maximum stability, drive speed is reduced when forks are lifted, and acceleration is reduced when steering angle exceeds 45 degrees.

FORKS AND MAST

- **Tapered and angled fork tips**
Access to pallets in racks or block stacks is easier, quicker and safer. (Narrow straddle models)
- **Level Assistance System**
Automatically detects the operator's intention and automatically stops when the forks are precisely at the right level. (Option)
- **Laser positioning guide**
Aligning the red laser line with the centre of the pallet pocket allows the driver to quickly ensure the forks are in the desired position. (Option)

- **Wide Straddle Legs**
Tandem wheels and low profile forged forks as standard. A variety of specialised handling assemblies can be used in place of the fork carriage. (Wide straddle models only)
- **Robust, clear view mast**
Optimised design means excellent visibility of the forks and load.
- **Exceptionally smooth 'no knock' transition between mast stages**
Vulkollan dampers ensure quieter movement over the lift range.
- **Load carrier stop in Initial Lift models**
This enables quicker, easier, and safer alignment when double stacking pallets.
- **Smooth landing of the fork carriage**
Hydraulic attenuation in the free-lift cylinder makes this much quieter.
- **Initial Lift**
Can be used as a double pallet handler. (Option on (i) models only)"



For more information
on AXiA EX please visit
our website



mft2.eu/axiaexsbr

AXiA EX

SBR12-20N2(I)(S) Series

STAND-IN STACKERS

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FRAME AND BODY

- **Robust chassis**
Built for intensive operations, with great inherent strength and high residual capacities. Designed to enclose the operator within for extra safety.
- **Strong battery lock**
Simple and safe. Battery lock can only be unlocked when battery plug is disconnected. Battery plug can only be reconnected if battery is locked.
- **Excellent ground clearance**
Easy and safe handling on loading docks and ramps.
- **RapidAccess features**
These allow quick and easy entry to all areas for checks and maintenance.
- **Waterproof wiring and connectors**
Sealed compartment prevents system failure and corrosion from water and dust.
- **Overhead guard pillars**
Protection for the operator while still offering excellent visibility.

HYDRAULICS

- **Smooth, quick lifting and lowering**
High levels of control and productivity. Low noise means less fatigue for the operator over long shifts.

OPERATOR COMPARTMENT AND CONTROLS

- **Optical Presence Sensor**
This locks all movement of the truck and its mast if the operator is not present. Driver can lift foot slightly without brakes automatically engaging, reducing muscle stress.
- **Plenty of storage space**
Storage for on-board essentials, putting clipboard, mobile phone, drinks bottle and pen all within easy reach.
- **Ultra-low step height**
Operators stay more productive throughout shifts thanks to easy on/off access.
- **Ergo Forks Trailing Control**
When working with forks trailing, an additional speed control allows an operator to stand in a more comfortable and ergonomic forward-facing position while travelling. (Option)

STEERING SYSTEM

- **Fully adjustable steering wheel**
Height and distance are ergonomically adjustable to reduce strain and lower risk of RSI.
- **360-degree steering**
The operator can keep the truck in constant motion - saving seconds on every turn. (Option)
- **Dynamic Power Steering**
Smooth, precise control with minimum effort offering maximum comfort and stability at top speed.



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our website



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AXIA EX AVAILABLE LI-ION SYSTEMS

MAKE YOUR FORKLIFT GO EVEN FURTHER



Tried, tested and proven in the field, lead-acid batteries have been the long-standing choice for companies employing electric lift trucks. However, with long charging times, demanding maintenance requirements, the need for extra batteries, and high risk of operator misuse, day-to-day use can be a challenge.

Fortunately, there's a new battery system on the block: Li-ion from Mitsubishi Forklift Trucks.

Designed to meet your business' demands — including multi-shift (24/7) operations — without the need for spare batteries, our high-performance Li-ion battery system is up to 30% more efficient than lead-acid counterparts. Plus, it's virtually error-proof, thanks to its ultra-low-maintenance design which prevents cell damage.

- **Gas-emission free**
No need for air ventilation.

- **Exceptional high battery and charger efficiency**
State-of-the-art technology delivers up to 30% more power efficiency than lead-acid batteries.
- **Maintenance-free design**
No need for daily checks and water re-fills. This reduces the risk of operators damaging cells and reducing their lifetime. Needs a full charge each week to activate cell balancing.
- **No need for spare batteries or charging room**
You can save both space and costs in multi-shift applications, maximising profitability.
- **Quick charge capabilities**
Just 15 minutes is all your battery needs to keep your truck going for a few more hours. It only takes 1 to 2 hours to fully charge a completely discharged battery.

- **Higher sustained voltage**
This gives more consistent lifting and driving performance — particularly noticeable towards the end of a shift.
- **Multiple safety features**
This includes circuit protection, deep-discharge and overcharge protection, and individual cell temperature and voltage monitoring.
- **On-the-go performance and monitoring**
The system's integrated monitoring system has an easy-to-read display unit.
- **Wide choice of battery and charger capacities**
The most suitable power supply can be matched to the exact requirements of a specific application.



Clean Li-ion batteries are ideal for sensitive environments such as those in the food or packaging industries.



Fully integrated Li-ion battery

Features a sophisticated CANbus communication and an automatic ON/OFF synchronization between battery and truck. Battery level, notifications and alarms are integrated into the truck display, to secure clear and easy overview for the truck operator.

**For more information
on Li-ion please visit
our website**



mft2.eu/ion

VDI - PERFORMANCE & DIMENSIONS

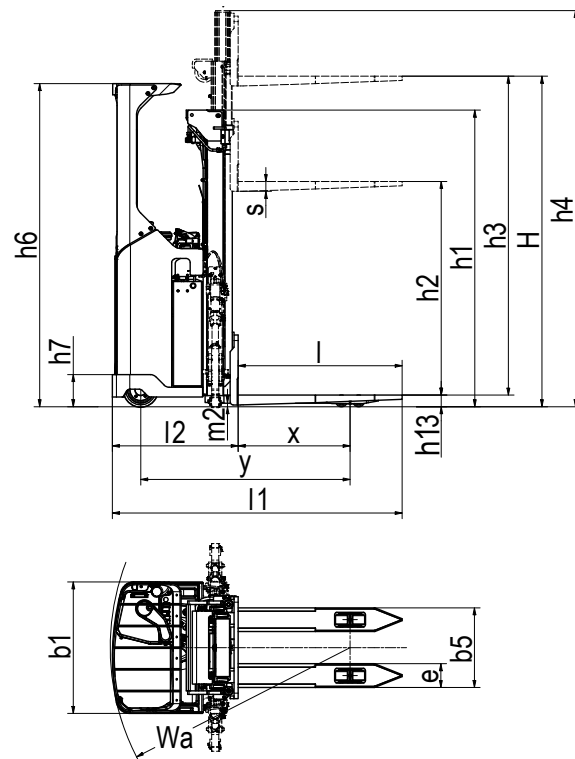
CHARACTERISTICS				Mitsubishi Forklift Trucks		
1.1	Manufacturer			SBR12N2	SBR16N2	SBR20N2
1.2	Manufacturer's model designation			Battery	Battery	Battery
1.3	Power source			Stand-in	Stand-in	Stand-in
1.4	Operator type					
1.5	Load capacity	Q	kg	1250	1600	2000
1.6	Load center distance	c	mm	600	600	600
1.8	Load wheel axle to fork face (forks lowered)	x	mm	800	800	800
1.9	Wheelbase	y	mm	1422 ¹⁾	1496 ¹⁾	1545 ¹⁾
WEIGHT						
2.1a	Truck weight with load, with maximum battery weight		kg	2682	3356	4018
2.1b	Truck weight without load, with maximum battery weight		kg	1432	1756	2018
2.2	Axle loadings with nominal load & maximum battery weight, drive / load side		kg	1127 / 1555	1389 / 1967	1613 / 2405
2.3	Axle loadings without load & with maximum battery weight, drive / load side		kg	1002 / 430	1229 / 527	1413 / 605
WHEELS, DRIVE TRAIN						
3.1	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side			Vul / Vul	Vul / Vul	Vul / Vul
3.2	Tyre dimensions, drive side		mm	250 x 105	250 x 105	250 x 105
3.3	Tyre dimensions, load side	ø	mm	85 x 70	85 x 70	85 x 70
3.4	Castor wheel dimensions (diameter x width)		mm	150 x 55	150 x 55	150 x 55
3.5	Number of wheels, load / drive side (x = driven)			4 / 1 x + 2	4 / 1 x + 2	4 / 1 x + 2
3.6	Track width (center of tyres), drive side	b10	mm	662	662	662
3.7	Track width (center of tyres), load side	b11	mm	402	402	392
DIMENSIONS						
4.2a	Height with mast lowered	h1	mm	see tables	see tables	see tables
4.2b	Height	h1	mm	see tables	see tables	see tables
4.3	Free lift	h2	mm	see tables	see tables	see tables
4.4	Lift height	h3	mm	see tables	see tables	see tables
4.5	Height with mast extended	h4	mm	see tables	see tables	see tables
4.6	Initial lift	h5	mm	-	-	-
4.7	Height to top of overhead guard	h6	mm	2310	2310	2310
4.8	Seat- or stand height	h7	mm	230	230	230
4.10	Height of support legs	h8	mm	82	80	83
4.15	Fork height, fully lowered	h13	mm	89	89	90
4.19	Overall length	l1	mm	1995 ¹⁾	2069 ¹⁾	2118 ¹⁾
4.20	Length to fork face	l2	mm	825 ¹⁾	899 ¹⁾	948 ¹⁾
4.21	Overall width	b1	mm	940	940	940
4.22	Fork dimensions (thickness, width, length)	s/e/l	mm	70 / 180 / 1170	70 / 180 / 1170	70 / 195 / 1170
4.25	Outside width over forks (minimum / maximum)	b5	mm	570	570	570
4.32	Ground clearance at center of wheelbase, (forks lowered)	m2	mm	32	25	23
4.33a	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise	Ast	mm	2475 ²⁾	2548 ²⁾	2593 ²⁾
4.33b	Working aisle width (Ast3) with 1000 x 1200 mm pallets, load crosswise	Ast3	mm	2043 ²⁾	2116 ²⁾	2161 ²⁾
4.34a	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast	mm	2409 ²⁾	2481 ²⁾	2527 ²⁾
4.34b	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise	Ast3	mm	2243 ²⁾	2316 ²⁾	2361 ²⁾
4.35	Turning radius	Wa	mm	1643 ²⁾	1716 ²⁾	1761 ²⁾
PERFORMANCE						
5.1	Travel speed, with / without load		km/h	10.0 / 10.0	10.0 / 10.0	9.0 / 9.0
5.2	Lifting speed, with / without load		m/s	0.21 / 0.37	0.15 / 0.32	0.12 / 0.22
5.3	Lowering speed, with / without load		m/s	0.55 / 0.41	0.45 / 0.42	0.33 / 0.30
5.8	Maximum gradeability with / without load		%	9.0 / 9.0	6.7 / 6.7	5.9 / 5.9
5.9	Acceleration time (10 metres) with / without load		s	-	-	-
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)			Electric	Electric	Electric
ELECTRIC MOTORS						
6.1	Drive motor capacity (60 min. short duty)		kW	2.7	2.7	2.7
6.2	Lift motor output at 15% duty factor		kW	4.0	4.0	4.0
6.4	Battery voltage/capacity at 5-hour discharge		V/Ah	24 / 375-775	24 / 375-775	24 / 375-775
6.5	Battery weight		kg	330 - 610	330 - 610	330 - 610
6.6a	Energy consumption according to EN16796 cycle		kWh/h	0.87 ³⁾	0.87 ³⁾	0.87 ³⁾
MISCELLANEOUS						
8.1	Type of drive control			AC	AC	AC
10.7	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)	<70	<70	<70

AXIA EX

SBR12 - 20N2

STAND-IN STACKERS

1.2 - 2.0 ton



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

- 1) When SN/BC775 then add 104 mm
2) Dimensions vary depending on battery carriage and mast type.
3) Varies according to configuration and actual usage pattern.

VDI - PERFORMANCE & DIMENSIONS

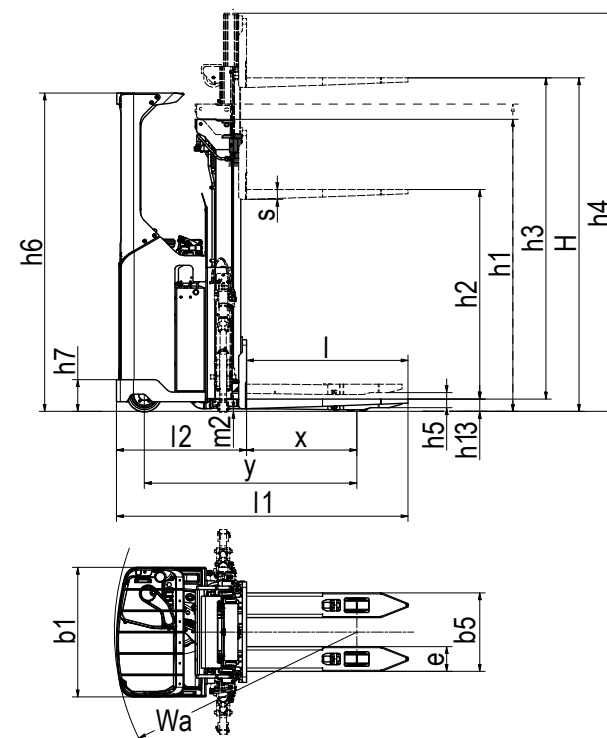
CHARACTERISTICS				Mitsubishi Forklift Trucks		
1.1	Manufacturer			SBR12N2I	SBR16N2I	SBR20N2I
1.2	Manufacturer's model designation			Battery	Battery	Battery
1.3	Power source			Stand-in	Stand-in	Stand-in
1.4	Operator type					
1.5	Load capacity	Q	kg	1250	1600	2000
1.6	Load center distance	c	mm	600	600	600
1.8	Load wheel axle to fork face (forks lowered)	x	mm	800	800	800
1.9	Wheelbase	y	mm	1501 ¹⁾	1541 ¹⁾	1600 ¹⁾
WEIGHT						
2.1a	Truck weight with load, with maximum battery weight		kg	2876	3506	4184
2.1b	Truck weight without load, with maximum battery weight		kg	1626	1906	2184
2.2	Axle loadings with nominal load & maximum battery weight, drive / load side		kg	1263 / 1613	1494 / 2012	1729 / 2455
2.3	Axle loadings without load & with maximum battery weight, drive / load side		kg	1138 / 488	1334 / 572	1529 / 655
WHEELS, DRIVE TRAIN						
3.1	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side			Vul / Vul	Vul / Vul	Vul / Vul
3.2	Tyre dimensions, drive side		mm	250 x 105	250 x 105	250 x 105
3.3	Tyre dimensions, load side	ø	mm	85 x 70	85 x 70	85 x 70
3.4	Castor wheel dimensions (diameter x width)		mm	150 x 55	150 x 55	150 x 55
3.5	Number of wheels, load / drive side (x = driven)			4 / 1x + 2	4 / 1x + 2	4 / 1x + 2
3.6	Track width (center of tyres), drive side	b10	mm	662	662	662
3.7	Track width (center of tyres), load side	b11	mm	390	390	375
DIMENSIONS						
4.2a	Height with mast lowered	h1	mm	see tables	see tables	see tables
4.2b	Height	h1	mm	see tables	see tables	see tables
4.3	Free lift	h2	mm	see tables	see tables	see tables
4.4	Lift height	h3	mm	see tables	see tables	see tables
4.5	Height with mast extended	h4	mm	see tables	see tables	see tables
4.6	Initial lift	h5	mm	110	110	110
4.7	Height to top of overhead guard	h6	mm	2310	2310	2310
4.8	Seat- or stand height	h7	mm	230	230	230
4.10	Height of support legs	h8	mm	87	87	87
4.15	Fork height, fully lowered	h13	mm	93	93	93
4.19	Overall length	l1	mm	2073 ¹⁾	2113 ¹⁾	2173 ¹⁾
4.20	Length to fork face	l2	mm	903 ¹⁾	943 ¹⁾	1003 ¹⁾
4.21	Overall width	b1	mm	940	940	940
4.22	Fork dimensions (thickness, width, length)	s/e/l	mm	70 / 180 / 1170	70 / 180 / 1170	70 / 195 / 1170
4.25	Outside width over forks (minimum / maximum)	b5	mm	570	570	570
4.32	Ground clearance at center of wheelbase, (forks lowered)	m2	mm	20	20	20
4.33a	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise	Ast	mm	2552 ²⁾	2591 ²⁾	2622 ²⁾
4.33b	Working aisle width (Ast3) with 1000 x 1200 mm pallets, load crosswise	Ast3	mm	2120 ²⁾	2159 ²⁾	2190 ²⁾
4.34a	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast	mm	2486 ²⁾	2525 ²⁾	2556 ²⁾
4.34b	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise	Ast3	mm	2320 ²⁾	2359 ²⁾	2390 ²⁾
4.35	Turning radius	Wa	mm	1720 ²⁾	1759 ²⁾	1790 ²⁾
PERFORMANCE						
5.1	Travel speed, with / without load		km/h	9.0 / 9.0	9.0 / 9.0	9.0 / 9.0
5.2	Lifting speed, with / without load		m/s	0.21 / 0.37	0.15 / 0.32	0.12 / 0.22
5.3	Lowering speed, with / without load		m/s	0.55 / 0.41	0.45 / 0.42	0.33 / 0.30
5.8	Maximum gradeability with / without load		%	10.0 / 16.0	10.0 / 16.0	10.0 / 16.0
5.9	Acceleration time (10 metres) with / without load		s			7.0 / 6.0
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)			Electric	Electric	Electric
ELECTRIC MOTORS						
6.1	Drive motor capacity (60 min. short duty)		kW	2.7	2.7	2.7
6.2	Lift motor output at 15% duty factor		kW	4.0	4.0	4.0
6.4	Battery voltage/capacity at 5-hour discharge		V/Ah	24 / 375 - 775	24 / 375 - 775	24 / 375 - 775
6.5	Battery weight		kg	330 - 610	330 - 610	330 - 610
6.6a	Energy consumption according to EN16796 cycle		kWh/h	0.87 ³⁾	0.87 ³⁾	0.87 ³⁾
MISCELLANEOUS						
8.1	Type of drive control			AC	AC	AC
10.7	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)	<70	<70	<70

AXIA EX

SBR12 - 20N2I

STAND-IN STACKERS
MODELS WITH INITIAL LIFT

1.2 - 2.0 tonnes



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

- 1) When SN/BC775 then add 104 mm
2) Dimensions vary depending on battery carriage and mast type.
3) Varies according to configuration and actual usage pattern.

VDI - PERFORMANCE & DIMENSIONS

CHARACTERISTICS				Mitsubishi Forklift Trucks	
1.1	Manufacturer			SBR16N2S	SBR20N2S
1.2	Manufacturer's model designation			Battery	Battery
1.3	Power source			Stand-in	Stand-in
1.4	Operator type				
1.5	Load capacity	Q	kg	1600	2000
1.6	Load center distance	c	mm	600	600
1.8	Load wheel axle to fork face (forks lowered)	x	mm	800	800
1.9	Wheelbase	y	mm	1536 ²⁾	1576 ²⁾
WEIGHT					
2.1b	Truck weight without load, with maximum battery weight		kg	1605	1967
2.2	Axle loadings with nominal load & maximum battery weight, drive / load side		kg	1284 / 1922	1577 / 2390
2.3	Axle loadings without load & with maximum battery weight, drive / load side		kg	1124 / 482	1377 / 590
WHEELS, DRIVE TRAIN					
3.1	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side			Vul / Vul	Vul / Vul
3.2	Tyre dimensions, drive side		mm	250 x 105	250 x 105
3.3	Tyre dimensions, load side	ø	mm	85 x 70	85 x 70
3.4	Castor wheel dimensions (diameter x width)		mm	150 x 55	150 x 55
3.5	Number of wheels, load / drive side (x = driven)			4 / 1x + 2 ¹⁾	4 / 1x + 2 ¹⁾
3.6	Track width (center of tyres), drive side	b10	mm	651	651
3.7	Track width (center of tyres), load side	b11	mm	985 / 1185	985 / 1185
DIMENSIONS					
4.2a	Height with mast lowered	h1	mm	see tables	see tables
4.2b	Height	h1	mm	see tables	see tables
4.3	Free lift	h2	mm	see tables	see tables
4.4	Lift height	h3	mm	see tables	see tables
4.5	Height with mast extended	h4	mm	see tables	see tables
4.6	Initial lift	h5	mm	-	-
4.7	Height to top of overhead guard	h6	mm	2310	2310
4.8	Seat- or stand height	h7	mm	230	230
4.10	Height of support legs	h8	mm	92	92
4.15	Fork height, fully lowered	h13	mm	55	55
4.19	Overall length	l1	mm	2089 ²⁾	2129 ²⁾
4.20	Length to fork face	l2	mm	939 ²⁾	979 ²⁾
4.21	Overall width	b1	mm	1115 / 1315 ⁸⁾	1115 / 1315 ⁸⁾
4.22	Fork dimensions (thickness, width, length)	s/e/l	mm	40 / 100 / 1150	40 / 100 / 1150
4.23	Fork carriage to DIN			FEM 2/A	FEM 2/A
4.24	Fork carriage width	b3	mm	840	840
4.25	Outside width over forks (minimum / maximum)	b5	mm	316 / 773	316 / 773
4.26	Inner width of support legs	b4	mm	855 / 1055 ⁸⁾	855 / 1055 ⁸⁾
4.32	Ground clearance at center of wheelbase, (forks lowered)	m2	mm	35	35
4.33a	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise	Ast	mm	2481	2520
4.34a	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast	mm	2481	2520
4.35	Turning radius	Wa	mm	1560	1599
PERFORMANCE					
5.1	Travel speed, with / without load		km/h	8.0 / 8.0	8.0 / 8.0
5.2	Lifting speed, with / without load		m/s	0.24 / 0.40	0.19 / 0.37
5.3	Lowering speed, with / without load		m/s	0.45 / 0.30	0.50 / 0.42
5.8	Maximum gradeability with / without load		%	7.8 / 7.8	7.6 / 7.6
5.9	Acceleration time (10 metres) with / without load		s	7.0 / 6.0	7.5 / 6.5
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)			Electric	Electric
ELECTRIC MOTORS					
6.1	Drive motor capacity (60 min. short duty)		kW	2.7	2.7
6.2	Lift motor output at 15% duty factor		kW	8.0 ⁵⁾	8.0 ⁵⁾
6.4	Battery voltage/capacity at 5-hour discharge			24 / 465 ⁶⁾	24 / 465 ⁶⁾
6.5	Battery weight		V/Ah	330-400 ⁶⁾	330-400 ⁶⁾
6.6a	Energy consumption according to EN16796 cycle		kg	0.87 ⁷⁾	0.87 ⁷⁾
MISCELLANEOUS					
8.1	Type of drive control			AC	AC
10.7	Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871 in work LpAZ			<70	<70

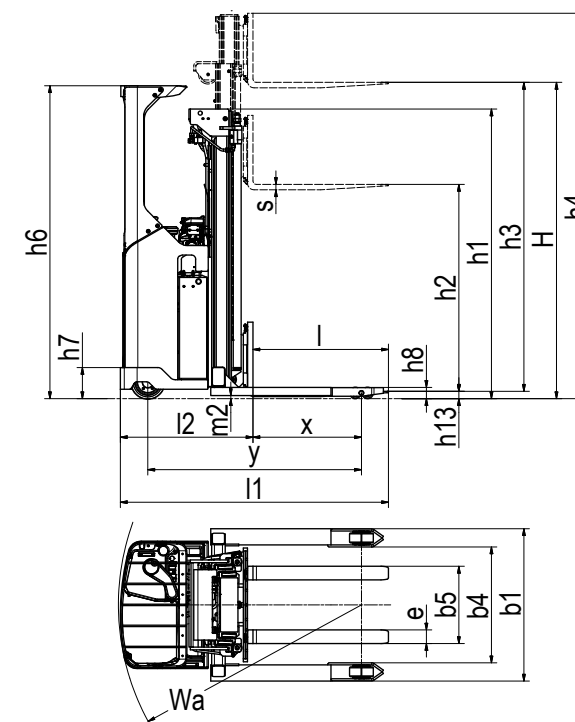
dB(A)

AXIA EX

SBR16 - 20N2S

STAND-IN STACKERS
MODELS WITH STRADDLE LEGS

1.2 - 2.0 tonnes



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

All dimensional values, weights and measures vary according to configuration

- 1) 4-point design with twin assembly drive side castor wheels
- 2) When SN/BC775 then add 104 mm
- 3) With heavy-duty lift motor, standard is 4.0
- 4) With Senior chassis, 24V / 560-775Ah and 460-610 kg
- 5) This is a reference test value that varies according to model, config and usage pattern
- 6) There are two standard straddle/support legs widths available to choose from (ref. b1/b4)

MAST PERFORMANCE AND CAPACITY

AXIA^{EX} STAND-IN STACKERS

SBR12 - 20N2

MAST TYPE	h3+h13 mm	h1 mm	h4 mm	h2+h13 mm
NARROW				
SBR12N2				
TV / DS	3290	2157	3720	159 (h2=70)
	3590	2307	4020	159 (h2=70)
	4190	2607	4620	159 (h2=70)
TFV / DEV	3290	2157	3720	1726
	3590	2307	4020	1876
	4190	2607	4620	2176
SBR16N2				
TFV / DEV	3600	2350	4105	1849
	4200	2650	4705	2149
	4500	2800	5005	2299
DTFV / TREV	4800	2150	5332	1669
	5400	2350	5932	1869
	5700	2450	6232	1969
	6300	2650	6832	2169
	7000	2883	7532	2402
SBR20N2				
TFV / DEV	3600	2350	4108	1850
	4200	2650	4708	2150
	4500	2800	5008	2300
DTFV / TREV	4800	2150	5335	1670
	5400	2350	5935	1870
	5700	2450	6235	1970
	6300	2650	6835	2170
	7000	2883	7535	2403

SBR12 - 20N2I

MAST TYPE	h3+h13 mm	h1 mm	h4 mm	h2+h13 mm
INITIAL LIFT				
SBR12N2I				
TV / DS	3290	2162	3725	163 (h2=70)
	3590	2312	4025	163 (h2=70)
	4190	2612	4625	163 (h2=70)
DEV	3290	2162	3725	1730
	3590	2312	4025	1880
	4190	2612	4625	2180
SBR16N2I				
TFV / DEV	3600	2355	4112	1853
	4200	2655	4712	2153
	4500	2805	5012	2303
DTFV / TREV	4800	2155	5339	1673
	5400	2355	5939	1873
	5700	2455	6239	1973
	6300	2655	6839	2173
	7000	2888	7539	2406
SBR20N2I				
TFV / DEV	3600	2355	4113	1853
	4200	2655	4713	2153
	4500	2805	5013	2303
DTFV / TREV	4800	2155	5339	1673
	5400	2355	5939	1873
	5700	2455	6239	1973
	6300	2655	6839	2173
	7000	2888	7539	2406

SBR16 - 20N2S

MAST TYPE	h3+h13 mm	h1 mm	h4 mm	h2+h13 mm
WIDE STRADDLE				
SBR16 - 20N2S				
TFV / DEV	3600	2350	4110	1815
	4200	2650	4710	2115
	4500	2800	5010	2265
DTFV / TREV	4800	2150	5335	1635
	5400	2350	5935	1835
	5700	2450	6235	1935
	6300	2650	6835	2135
	7000	2883	7535	2368

TV / DS = Duplex with clear-view mast
 TFV / DEV = Duplex with full free lift
 DTFV / TREV = Triplex with full free lift
 h3+h13 = Lifting height
 h1 = Lowered mast height
 h4 = Raised mast height
 h2+h13 = Free lift

STANDARD EQUIPMENT & OPTIONS

● = Standard
● = Option

	SBR12N2	SBR12N2I	SBR16N2	SBR16N2I	SBR20N2	SBR20N2I	SBR16N2S	SBR20N2S
GENERAL								
Regular narrow straddle legs for handling of open load carriers	●	●	●	●	●	●	-	-
Initial lift for double load handling	-	●	-	●	-	●	-	-
Wide straddle legs for handling of closed load carriers	-	-	-	-	-	-	●	●
Telescopic forks for extended reach in handling of e.g. double-deep stacking and closed load carriers	-	-	-	-	-	-	-	-
Standard display incl. hour meter and battery discharge indicator (BDI)	●	●	●	●	●	●	●	●
Key switch entry	●	●	●	●	●	●	●	●
Electric power steering, with Flexi steering wheel	●	●	●	●	●	●	●	●
Automatic straight steering at start-up	●	●	●	●	●	●	●	●
Adaptive cornering control	●	●	●	●	●	●	●	●
Speed regulated lift motor and proportional valve for lowering	●	●	●	●	●	●	●	●
Tandem load wheels Vulkollan	●	●	●	●	●	●	●	●
Overhead guard (OHG)	●	●	●	●	●	●	●	●
Adjustable armrest	●	●	●	●	●	●	●	●
Adjustable steering wheel	●	●	●	●	●	●	●	●
Storage compartment under armrest	●	●	●	●	●	●	●	●
Writing desk with paper clip	●	●	●	●	●	●	●	●
Battery on rollers	●	●	●	●	●	●	●	●
POWER SOURCE								
Li-ion batteries*	●	●	●	●	●	●	●	●
Lead acid batteries	●	●	●	●	●	●	●	●
ENVIRONMENT								
Chill store design, down to -10°C	●	●	●	●	●	●	●	●
Cold store design, 0°C to -30C***	●	●	●	●	●	●	●	●
DRIVE, LIFT CONTROLS								
Height and side-ways adjustable Flexi steering wheel	●	●	●	●	●	●	●	●
Finger tip controls for lifting/lowering	●	●	●	●	●	●	●	●
360-degree steering	●	●	●	●	●	●	●	●
Reversed steering	●	●	●	●	●	●	●	●
WHEEL OPTIONS								
Vulkollan	●	●	●	●	●	●	●	●
Tractothan	●	●	●	●	●	●	●	●
Super grip	●	●	●	●	●	●	●	●
OTHER OPTIONS								
Side stabilisers	-	-	●	●	●	●	-	-
High performance lift motor system 8.0 kW AC	-	-	●	●	●	●	●	●
Ergo Forks Trailing Control (EFTC)	●	●	●	●	●	●	●	●
Foot protection light barrier in driver compartment	●	●	●	●	●	●	●	●
Floor spot warning red or blue	●	●	●	●	●	●	●	●
Comfort and anti-slip floor mat in driver compartment (recommended)	●	●	●	●	●	●	●	●
Interactive multifunction display incl. BDI & hour meter, PIN code login (100 codes) and graphic icons	●	●	●	●	●	●	●	●
Foldable seat	●	●	●	●	●	●	●	●
Load backrest 1200 mm	●	●	●	●	●	●	●	●
Key switch entry (in combination with multifunction display)	●	●	●	●	●	●	●	●
Laser positioning guide	-	-	●	●	●	●	-	-
Load weight indicator	●	●	●	●	●	●	●	●
Lift height indicator	-	-	●	●	●	●	-	-
Level assistance system	-	-	●	●	●	●	-	-
Video camera and monitor	-	-	●	●	●	●	-	-
Panoramic ProVision OHG roof	●	●	●	●	●	●	●	●
12 V DC Power Socket	●	●	●	●	●	●	●	●
5 V USB socket	●	●	●	●	●	●	●	●
Accessory rack	●	●	●	●	●	●	●	●
Writing desk incl. RAM C holder	●	●	●	●	●	●	●	●
Accessory rack holder RAM system size C	●	●	●	●	●	●	●	●
Accessory rack holder RAM system size C, 2 pcs	●	●	●	●	●	●	●	●
Accessory rack holder RAM size D	●	●	●	●	●	●	●	●
Working lights LED	●	●	●	●	●	●	●	●
Increased drive speed 12 km/h	●	-	●	-	●	-	-	-
Special RAL colour	●	●	●	●	●	●	●	●

* Li-ion battery option is available in selected regions.

** Li-ion battery option not in combination with cold store design, 0°C to -30C°.

Continuing improvement may lead to changes in these specifications

AXIA EX

SBR12-20N2(I)(S)

**STAND-IN
STACKERS**

1.2 - 2.0 tonnes



Standard display



Storage compartment under armrest



Ergo Forks Trailing Control

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THE ALL ROUNDER

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

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

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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.

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We follow a policy of continual product improvement. For this reason, some materials, options and specifications could change without notice.

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