

MATERIAL HANDLING EQUIPMENT



PRODUCT CATALOGUE

About Us

(**BairShift** is a leading brand of industrial material handling equipment. Based in Haryana, India, we deliver robust, high-performance solutions engineered for warehouses, factories, and logistics operations across the country.



Our Mission

To provide reliable, heavy-duty material handling equipment that maximizes operational efficiency and workplace safety. Every product we build reflects our commitment to quality, durability, and practical engineering.

Our Vision

At BairShift, we envision a future where every industrial operation, regardless of size or complexity, can achieve seamless and efficient material handling. We strive to be at the forefront of innovation, continuously enhancing our product line to meet the evolving needs of our clients and the industry. By investing in cutting-edge technology and sustainable practices, we aim to reduce the environmental impact of our operations while delivering unparalleled service and support. Our team is dedicated to fostering long-term partnerships with our customers, empowering them to reach new heights of productivity and safety.

Why Choose BairShift

ISO 9001 & ISO 14001 Certified

Manufactured under strict international quality and environmental standards.

Heavy-Duty Engineering

Built for 3-ton+ loads with corrosion-resistant, powder-coated steel frames.

Pan-India Service Network

Dedicated support, spare parts availability, and on-site installation assistance.

Custom Configurations

Tailored solutions for unique warehouse layouts and operational requirements.

Product Description

The **BS-ST-101** is a **2-Ton Manual Hydraulic C-Type Stacker** available in **two wheel variants** — **Nylon** and **PU**. Designed for **stacking pallets** up to **1600 MM** height using a **manual hydraulic pump**, the **C-Type** open **frame allows compatibility** with **all standard pallet sizes**. **Variant A (Nylon, 160 KG self-weight)** is ideal for rough **warehouse floors**; **Variant B (PU, 220 KG with heavy-duty pump)** suits polished industrial surfaces requiring **non-marking wheels**.



BS-ST-101

TECHNICAL SPECIFICATION

BS-ST-101	Type A	Type B
Capacity	2 Ton	2 Ton
Max. Lifting Height	1600 MM	1600 MM
Pump Size	40 MM	40 MM Heavy Duty
Fork Length	1100 MM	1100 MM
Column Width	120 MM	120 MM
Max. Fork Width	820 MM	820 MM
Leg Length	1000 MM	1000 MM
Leg Width	60 MM	80 MM
Wheel Type	Nylon	PU
Fork Type	Round	Round
Self Weight	160 KGS	220 KGS

FEATURES

- 2-Ton capacity with C-Type open frame — compatible with all standard pallets
- Variant A (Nylon): lighter at 160 KG, ideal for rough & uneven warehouse floors
- Variant B (PU): heavy-duty pump, non-marking wheels for polished surfaces
- Round fork type for easy pallet entry and smooth lifting operation

Product Description

The **BS-ST-102** is a **1-Ton Self-Loading Stacker** with **ground-level chassis entry (85 MM chassis height)** — **designed to pick up loads directly** from the floor without requiring a pallet. Its **ultra-low ground clearance of 50 MM** allows the forks to slide **under floor-level loads, cartons, and equipment**. **Battery powered** for **electric lift assist** with a **compact 920 MM** overall width ideal for narrow aisle operations.



BS-ST-102

TECHNICAL SPECIFICATION

BS-ST-102	Type A
Loading Capacity	1 Ton (1000 KG)
Overall Width	920 MM
Standard Lifting Height	1600 MM
Net Height	2100 MM
Fork Length	1150 MM
Fork Width	560 MM
Fork Distance	250 MM
Chassis Height	85 MM
Ground Clearance	50 MM
Battery Model & Capacity	48V / 12AH

FEATURES

- Ultra-low 85 MM chassis height — picks loads directly from ground, no pallet needed
- 50 MM ground clearance — slides under floor-level cartons and equipment with ease
- 920 MM compact overall width — operates comfortably in narrow aisle environments
- 48V battery powered lift assist for effortless ground-to-height stacking

Product Description

The **BS-ST-103** is a **Manual Hydraulic Stacker** available in four variants across **H-Type**, **I-Type**, and **C-Type** channel frames with capacities of **1 Ton**, **2 Ton**, and **3 Ton**. Each variant is **precisely engineered** for different load and height requirements: from the **lightweight 1T H-Type (125 KG)** for standard operations to the **heavy-duty 3T H-Type (255 KG, PU wheels)** and the **high-reach 2T C-Type reaching 3000 MM**. Choose the right variant for your exact warehouse requirement.



BS-ST-103 Type A,B,C,D

TECHNICAL SPECIFICATION

BS-ST-103	Type A	Type B	Type C	Type D
Capacity	1 Ton	2 Ton	3 Ton	2 Ton
Max. Lift Height	1600 MM	1600 MM	1600 MM	3000 MM
Channel Type	H Type	I Type	H Type	C Type
Pump Size	31.5 MM	40 MM	45 MM	45 MM
Fork Length	830 MM	830 MM	1100 MM	1100 MM
Column Width	100 MM	120 MM	160 MM	120 MM
Max. Fork Width	780 MM	840 MM	840 MM	820 MM
Leg Length	750 MM	750 MM	750 MM	1000 MM
Leg Width	60 MM	60 MM	60 MM	80 MM
Wheel Type	Nylon	Nylon	PU	PU
Self Weight	125 KGS	145 KGS	255 KGS	300 KGS

FEATURES

- 4 variants: 1T H-Type to 3T H-Type — covers all manual stacking requirements
- Var. A (1T / 125 KG): lightest option for standard 1-Ton warehouse operations
- Var. B (2T / I-Type): balanced capacity with 840 MM max fork width
- Var. C (3T / PU): heaviest duty — 3 Ton with non-marking PU wheels

Product Description

The **BS-ST-104** is a **1.5-Ton Semi Electric Boom Lifter** designed for **handling large rolls, bobbins, reels** (up to **37-inch roll length**), and **cylindrical loads in textile, printing, and paper industries**. With **electric lift reaching 3000 MM**, **PU wheels**, **12V battery system**, and a **30-degree max gradeability**, it **safely lifts and positions heavy cylindrical loads** at height **without manual pumping** — while manual push drive keeps maintenance simple and cost-effective.



TECHNICAL SPECIFICATION

Rated Load	1.5 Ton
Max. Lifting Height	3000 MM
Load Center Distance	54 CM
Wheel Type	PU
Tire Size	180×50 / 80×70 MM
Dimension (L×W×H)	188×79×209 CM
Front/Rear Wheel Track	115 MM
Most Lowered Height	209 MM
Min. Ground Clearance	30 MM
Vehicle Length	188 CM
Fork Dimension	1150×60 MM
Max. Gradeability	30 Degree
Battery Voltage	12V
Battery Capacity	12 AH
Roll Length (Max.)	37 Inch

FEATURES

- Boom lifter design — safely cradles & lifts rolls and cylinders up to 37 inches
- Electric lift to 3000 MM — zero manual pumping even at 1.5-Ton full load
- 30-degree max gradeability — operates safely on inclined loading areas
- PU wheels (180×50 / 80×70 MM) for smooth, non-marking floor operation

Product Description

The **BS-ST-105** is a **1.5-Ton Semi Electric Stacker** (electric lift, manual push drive) available in four lifting height variants — **2000 MM, 3000 MM, 3500 MM, and 4500 MM** — covering every standard warehouse racking height. All variants share the **same PU wheel system, 12V/120AH battery, and 30-degree gradeability**. Choose your **required lift height** and the **stacker** will be **configured precisely** to your **warehouse rack specification**.



BS-ST-105 Type A,B,C,D

TECHNICAL SPECIFICATION

BS-ST-105	Type A	Type B	Type C	Type D
Rated Load	1.5 T	1.5 T	1.5 T	1.5 T
Max. Lift Height	2000 MM	3000 MM	3500 MM	4500 MM
Load Center Dist.	54 CM	54 CM	54 CM	54 CM
Wheel Type	PU	PU	PU	PU
Tire Size	180×50 / 80×70 MM			
Dimension (CM)	188×79×159	188×79×209	188×79×233	188×92×234
F/R Wheel Track	115 MM	115 MM	115 MM	115 MM
Most Lowered Ht.	159 MM	209 MM	233 MM	115 MM
Min. Gnd. Clearance	30 MM	30 MM	30 MM	30 MM
Vehicle Length	188 CM	188 CM	188 CM	188 CM
Fork Dimension	1150×60 MM			
Max. Gradeability	30 Degree			
Battery Voltage	12V			
Battery Capacity	120 AH			

FEATURES

- 4 lift height variants: 2000 / 3000 / 3500 / 4500 MM — covers all racking heights
- Electric lift with 12V/120AH battery — effortless stacking across all heights
- Manual push drive: simple, low-maintenance, no drive motor to service
- PU wheels throughout — non-marking for clean industrial floor surface

Product Description

The **BS-ST-106** is a **1.5-Ton Fully Automatic Electric Stacker** with both **electric drive (1.5 KW motor)** and **electric lift** — offering **complete operator automation** for **high-throughput warehouses**. With a **24V/75AH battery system**, **PU wheels (250×80 / 80×70 MM)**, **3000 MM max lift height**, and **30-degree gradeability**, it is **engineered** for **sustained multi-shift operations** where both **movement** and **stacking** must be **effortless and fast**.



BS-ST-106

TECHNICAL SPECIFICATION

BS-ST-106	Type A
Rated Load	1.5 Ton
Max. Lifting Height	3000 MM
Load Center Distance	54 CM
Wheel Type	PU
Tire Size	250×80 / 80×70 MM
Dimension (L×W×H)	263×116×234 CM
Front/Rear Wheel Track	115 MM
Most Lowered Height	234 MM
Min. Ground Clearance	30 MM
Vehicle Length	263 CM
Fork Dimension	1150×60 MM
Max. Gradeability	30 Degree
Drive Motor Power	1.5 KW
Battery Voltage	24V
Battery Capacity	75 AH

FEATURES

- 1.5 KW electric drive motor — powerful fully automatic self-propelled movement
- 24V/75AH battery — sustained multi-shift operation on single charge
- 3000 MM max lift height for 3-level standard warehouse racking systems
- PU wheels (250×80 MM drive / 80×70 MM load) — non-marking, smooth operation

Product Description

The **BS-ST-107** is a **high-specification 1.5-Ton Fully Automatic Stacker** reaching **3500 MM max lift height**, **powered by a dual 2×12V/150AH battery system** (6-hour charge = 8-hour operation). With a **5/4 KMPH full/no-load speed**, **110/70 MMPS lifting speed**, **1425 MM minimum turning radius**, and **mechanical turning**, it is **built for large high-bay warehouses**. Note: capacity at full **3500 MM** height is **1 Ton**; rated **1.5 Ton** applies at lower heights.

TECHNICAL SPECIFICATION

BS-ST-107	Type A
Max. Lifting Height	3500 MM
Door Frame Height	2300 MM
Lower Height	60 MM
Capacity (Lower Ht.)	1.5 Ton
Capacity (Top Ht.)	1 Ton
Load Center Distance	500 MM
Fork Length	1150 MM
Whole Length (Excl. Fork)	1573 MM
Drive Speed (Full/No Load)	5 / 4 KMPH
Lifting Speed (Full/No Load)	110 / 70 MMPS
Whole Width	850 MM
Fork Outside Width	545 MM
F/R Wheel Distance	765 / 650 MM
Min. Turning Radius	1425 MM
Front Wheel	80×70 MM
Rear Wheel	100×50 MM (PU Hyclone)
Lifting Motor	2.2 KW
Driving Motor	1.2 KW
Climbing Gradient	7 MM
Battery	2×12V / 150AH
Charge / Work Time	6 Hrs charge = 8 Hrs work
Paint Finish	1 Coat Primer + 2 Coat Auto Paint
Power Pack	12/150v/AH



FEATURES

- 3500 MM max lift — accesses highest level of standard 3-level racking systems
- 2×12V/150AH dual battery: 6-hour charge delivers full 8-hour work shift
- 5/4 KMPH drive speed + 110/70 MMPS lift speed for high-cycle efficiency
- 1425 MM tight turning radius — manoeuvres comfortably in standard aisles

Product Description

The **BS-ST-108** is a **1.5-Ton Fully Automatic Electric Stacker** available in **two ultra-high reach variants** — **4500 MM** and **6000 MM** — making it the **highest-reaching stacker** in the **BAIR SHIFT** range. Powered by a **24V/75AH battery** with a **1.5 KW drive motor**, both variants share the same compact footprint (**263×116 CM**) and **PU wheel system**, differing **only** in mast height and **lowered position height**. Designed for **tall high-bay** warehouses with **4 or more racking levels**.



BS-ST-108

TECHNICAL SPECIFICATION

BS-ST-108	Type A	Type B
Rated Load	1.5 Ton	1.5 Ton
Max. Lifting Height	4500 MM	6000 MM
Load Center Distance	54 MM	54 MM
Wheel Type	PU	PU
Tyre Size	250×80 / 80×70	250×80 / 80×70
Dimension (L×W×H MM)	263×116×234	263×116×259
F/R Wheel Track	115 MM	115 MM
Most Lowered Height	234 MM	259 MM
Min. Ground Clearance	30 MM	30 MM
Vehicle Length	263 CM	263 CM
Fork Dimension	1150×60 MM	1150×60 MM
Max. Gradeability	30 Degree	30 Degree
Drive Motor Power	1.5 KW	1.5 KW
Battery Voltage	24V	24V
Battery Capacity	75 AH	75 AH

FEATURES

- Ultra-high reach: 4500 MM & 6000 MM — tallest fully automatic stackers in range
- Var. B (6000 MM): reaches 6 metres — ideal for modern automated high-bay stores
- Same compact 263×116 CM footprint across both variants — easy aisle navigation
- 1.5 KW drive motor + 24V/75AH battery for sustained high-cycle performance

Product Description

The **BS-ST-109** is a **1.5-Ton Fully Automatic Walkie Stacker** — a **compact, operator-walking-behind electric stacker** designed for **narrow aisle warehouses** and **facilities where a ride-on stacker cannot manoeuvre**. Available in two lifting height variants — **3000 MM and 3500 MM** — both powered by a **24V/75AH battery** with a **0.75 KW drive motor**. The narrow **188 CM** vehicle length and **105 MM** wheel track make it the **most space-efficient fully automatic** stacker in the **BAIR SHIFT** range, without compromising on the **1.5-Ton load capacity**.



BS-ST-109

TECHNICAL SPECIFICATION

BS-ST-109	Type A	Type B
Rated Load	1.5 Ton	1.5 Ton
Max. Lifting Height	3000 MM	3500 MM
Load Center Distance	54 MM	54 MM
Weight Without Battery	463 KGS	496 KGS
Wheel Type	PU	PU
Tyre Size	250×75 / 80×70 MM	250×75 / 80×70 MM
Dimension (L×W×H CM)	188×80×209	188×80×233
Front/Rear Wheel Track	105 MM	105 MM
Most Lowered Height	209 MM	233 MM
Min. Ground Clearance	30 MM	30 MM
Vehicle Length	188 CM	188 CM
Fork Dimension	1150×60 MM	1150×60 MM
Max. Gradeability	30 Degree	30 Degree
Drive Motor Power	0.75 KW	0.75 KW
Battery Voltage	24V	24V
Battery Capacity	75 AH	75 AH

FEATURES

- Walkie design — operator walks behind for maximum aisle space efficiency
- 2 variants: 3000 MM & 3500 MM — covers all standard high-bay racking heights
- Compact 188 CM vehicle length with narrow 105 MM wheel track for tight aisles
- 0.75 KW drive motor — energy-efficient with 24V/75AH battery for extended shifts



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