

# Yale FBR Series

Electric Stand On Reach Truck  
FBR18SZ /1800KG



# FEATURES

## Surround Cockpit

A round shaped operator space which wraps flexibly around the operator has been adopted while maintaining the easy-to-operate lever type layout.



## High Back Support

A high back support helps to support the shoulders from the sides. Support during switchbacks from reverse to forward is provided and fatigue during normal operation is reduced.



## Lowered Floor

The compact structure of the drive system provides adequate access for maintenance. Precision cut gears are incorporated, leading to reduced wear and lower noise levels.



## OVERVIEW

The Yale® FBR Series provides the ideal solution to meet your less frequent usage needs, without compromising on performance.

### Low Maintenance

The Yale FBR20-30SZ lets you have more control with less maintenance.

- Precision control of an AC motor
- No replaceable parts such as brushes and connectors
- Regenerative braking for energy conservation and helps brake pads last longer.

### Ergonomic Design

Ergonomic layout of dash display, pedal, steering wheel, levers and buttons provide for easy operation and better comfort. Easy to read full function display and switches for control features interface to the driver/service personnel. Small diameter steering wheel available as standard for reduced steering effort and improved manoeuvrability. Newly designed semi-rigid axle articulation with elastomer stopper replacing spring loaded axle provides for improved stability.



### Visor - Integrated Display

A visor has been added to the top of the display to prevent reflected glare and improve visibility.



### Front Wheel Brake Anti-Skid Control

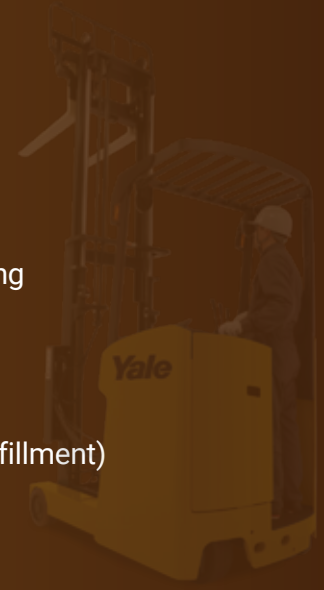
The front wheel brakes come to assist if the drive tyres slip. This control prevents the tyres from being locked and provides maximum brake force.

### Benefits:

- Small turn radius control
- Low vibration suspension system
- Improved right-angle stacking aisle width
- Enhanced safety features
- Ergonomic cabin and controls
- Easy to service with removable components and quick battery access
- Backed by an extensive dealer network
- Aftermarket service and support

### Industry Sectors:

- Wholesale Distribution
- Warehouse & 3PL
- Food Distribution & Processing
- Cold & Frozen Foods
- Building Material
- Home Centers
- General MFG
- Retail & E-Commerce (DC/fulfillment)
- Retail Store Operations
- Furniture & Furnishings
- Health & Pharma
- Auto Parts Distribution

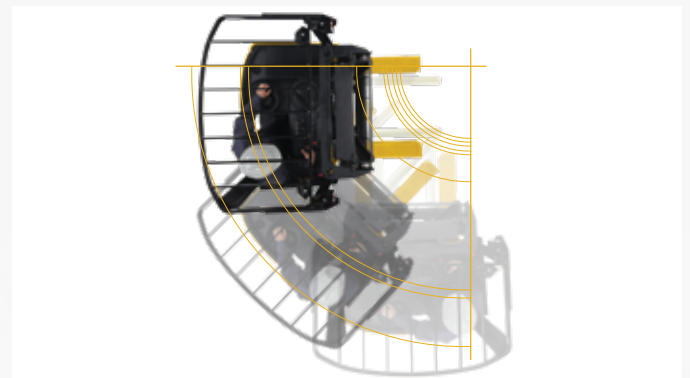


# ENGINEERED FOR DRIVERS



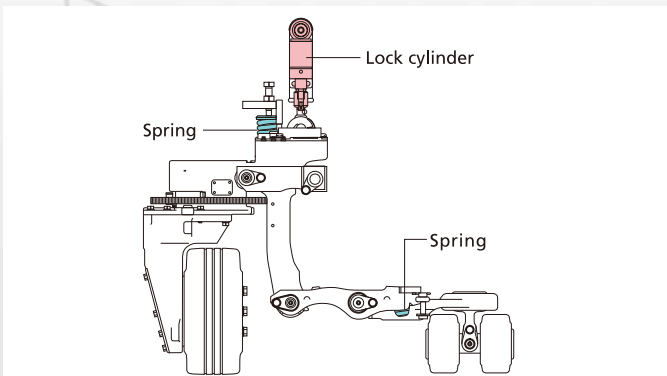
## ○ Travel and Load Handling Interlock

Travel and load handling operations are locked (disabled) when the operator leaves the operator compartment.



## ○ Speed Reduction on Cornering

Acceleration is restricted while the forklift is turning preventing hazardous situations such as rollover. As unnecessary acceleration is prevented this also contributes to energy conservation.



## ○ Low Vibration Suspension System

The FBR models have adopted a parallel link type structure. This structure greatly minimizes uncomfortable vibrations from the floor surface. A suspension lock mechanism has been added to improve stability during turning and load handling improving comfort and safety.



## ○ Anti-Rollback and Descent Control

- Simple and clear display of speed, power, error code, working hours ensure that the operator is fully informed
- The latest colour display integrated with functions such as performance selection allows the operator to configure the truck to meet different application requirements
- AC traction and lifting motors, with electronic control delivers a high level of performance

# MAST SPECIFICATIONS

## ERP18UX Mast and Capacity Chart

MAXIMUM LIFTING HEIGHT (NOMINAL)	MODEL		
	FBR18SZ		
2500mm	2-stage LFL	2-stage FFL	2-stage FFL
2700mm	2-stage LFL	2-stage FFL	2-stage FFL
3000mm	Standard 2-stage LFL	2-stage FFL	2-stage FFL
3300mm	2-stage LFL	2-stage FFL	2-stage FFL
3500mm	2-stage LFL	2-stage FFL	2-stage FFL
3700mm	2-stage LFL	2-stage FFL	2-stage FFL
4000mm	2-stage LFL	2-stage FFL	2-stage FFL
4300mm	-	-	-
4500mm	2-stage LFL	-	-
4800mm	-	-	-
5000mm	2-stage LFL	-	-
5500mm	-	-	-
6000mm	-	-	-

## Battery Specification

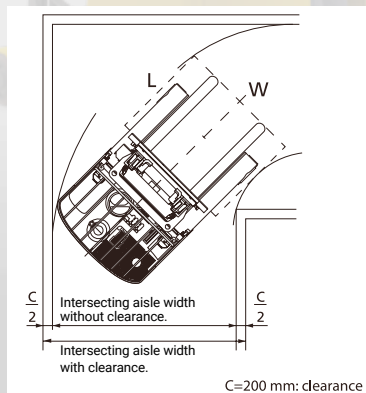
	1.8 TON
	FBR18SZ
BATTERY CAPACITY	FRONT
201Ah/5h (48V)	-
260Ah/5h (48V)	-
280Ah/5h (48V)	•
340Ah/5h (48V)	r
370Ah/5h (48V)	r

- **Standard**
- △ **Optional**

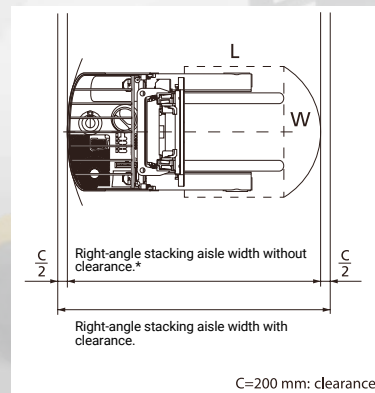
## Aisle Width (unit: mm) Pallet length: L/Pallet width: W

MODEL	MAST	BATTERY (AH)	MINIMUM RIGHT ANGLE AISLE WIDTH (MM) *					RIGHT ANGLE STACKING AISLE WIDTH (MM) *					
			L	1000	1000	1100	1200	1200	1000	1000	1100	1200	1200
			W	1000	1200	1100	1000	1200	1000	1200	1100	1000	1200
FBR18SZ 1.8 ton	2-stage LFL	280-370	1790	1840	1810	1800	1850	2290	2340	2400	2490	2520	
	2-stage FFL	280-370	1790	1850	1810	1810	1860	2360	2390	2470	2550	2580	
	3-stage FFL	280-370	1790	1850	1810	1810	1860	2360	2390	2470	2550	2580	

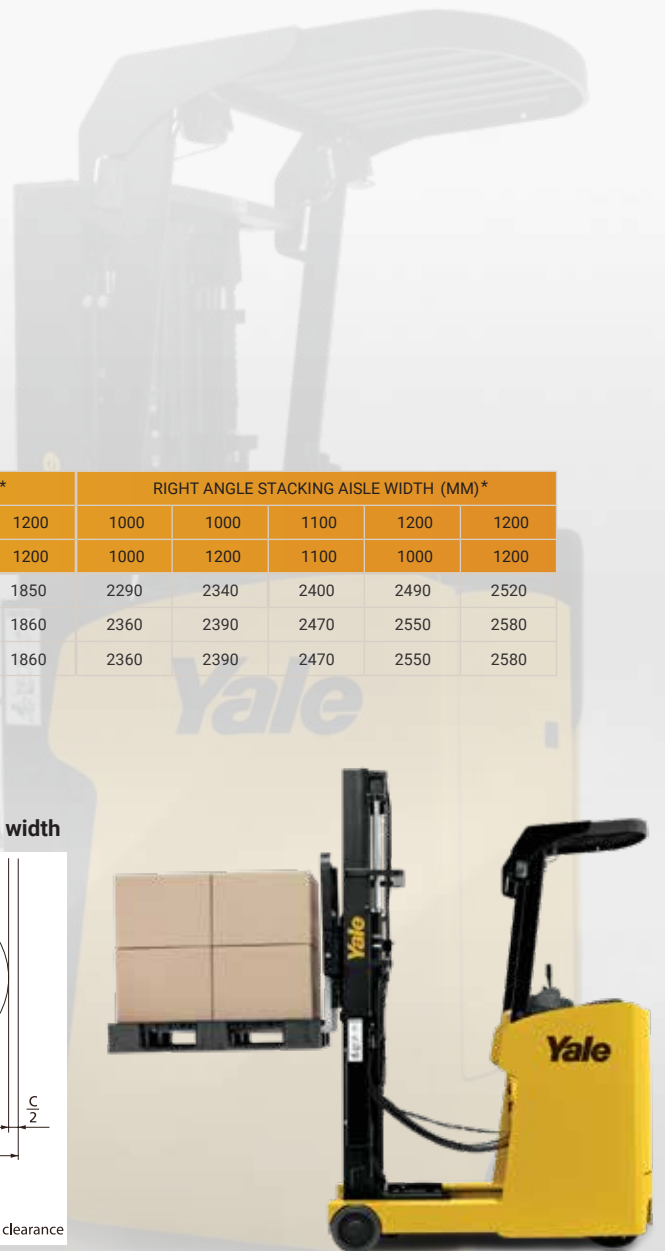
### Minimum right angle aisle width



### Right angle stacking aisle width

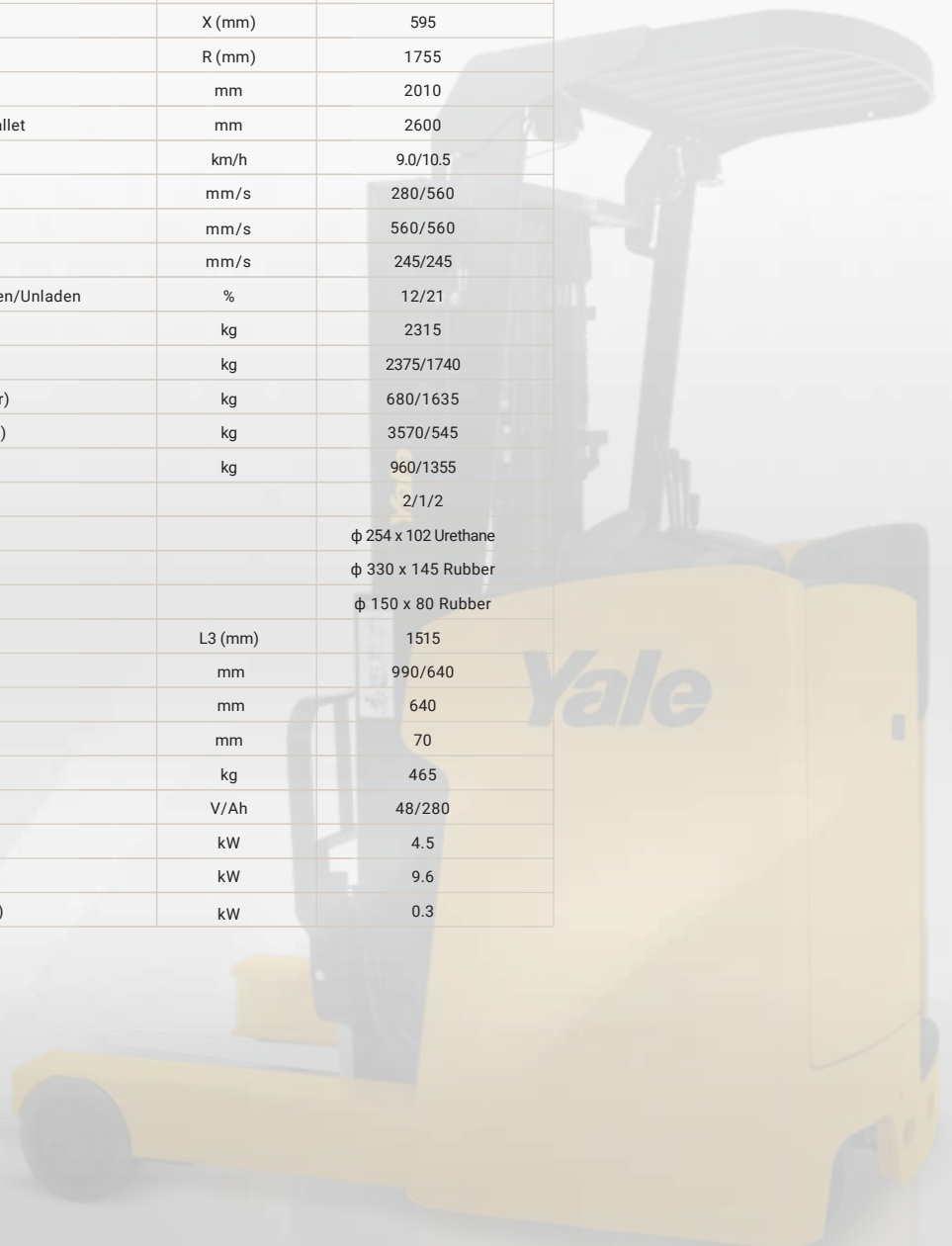


\* Figure does not include the recommended 200mm clearance.

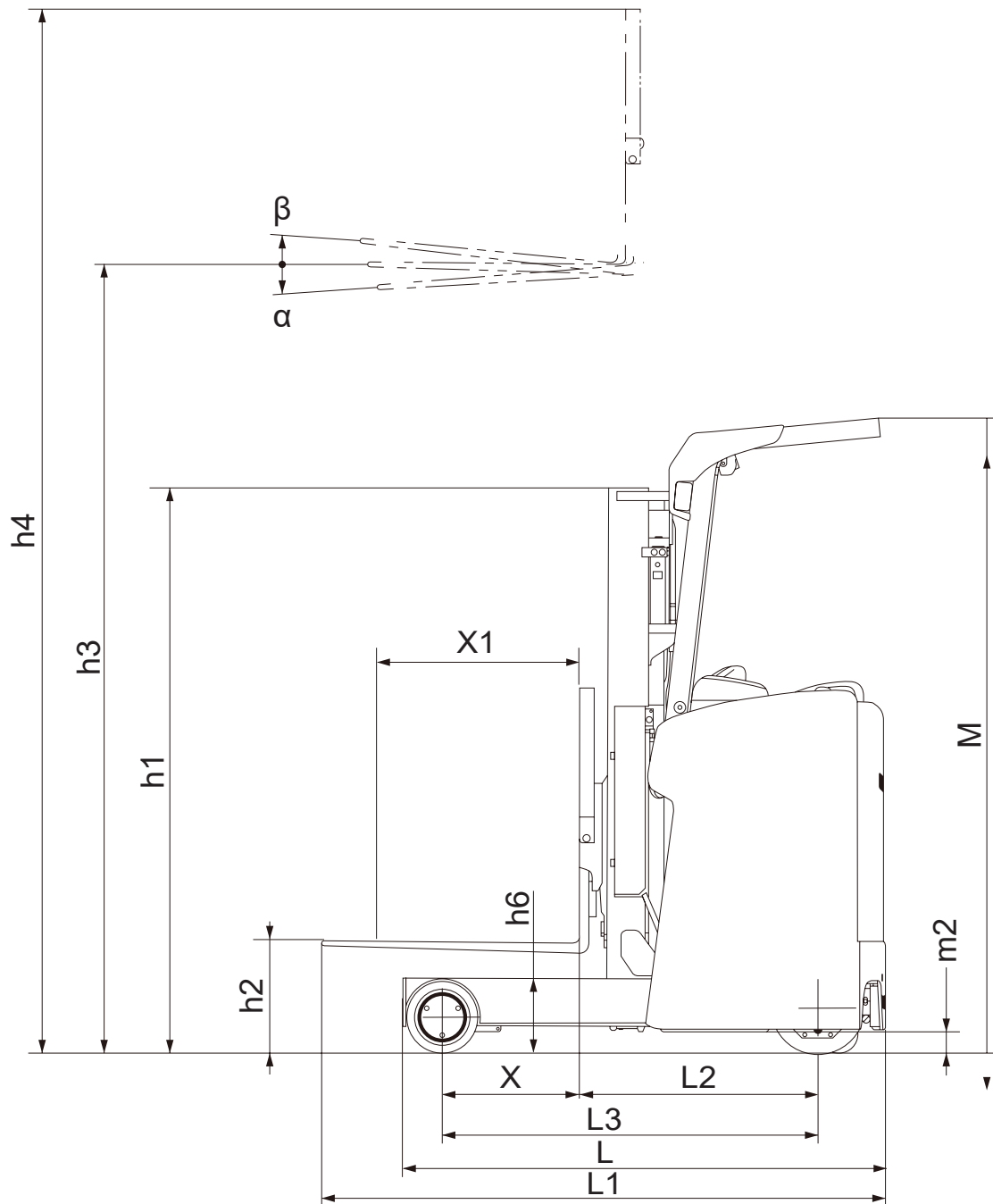
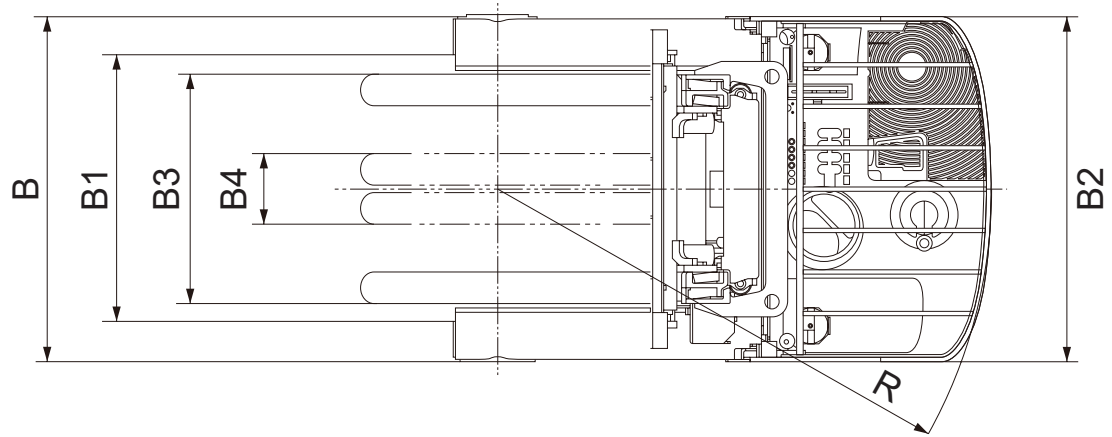


# SPECIFICATIONS

	1.1	Manufacturer	Measurement	YALE
Distinguishing mark	1.2	Model designation		FBR18SZ
	1.3	Load Capacity	kg	1800
	1.4	Load Centre	mm	500
	1.5	Motor Type		IPM/Enclosed, AC/Open
	1.6	Operator type: hand, pedestrian, standing, seated, order-picker		Standing
	Dimension	1.7	Lift Height	h3 (mm)
1.7		Free Lift	h2 (mm)	113
2.1		Tilting Fork Carriage (Forward/Backward Tilt)	$\beta/\alpha$ degree	5/3
2.2		Fork Carriage		Pin Type
3.1		Fork (Length/Width/Thickness)	mm	920/100/35
3.2		Fork Carriage Width (Max./Min.)	B3/B4 (mm)	725/290
3.3		Overall Length	mm	2080
3.4		Length over Load Arms	mm	1895
3.5		Length to Face of Forks	mm	1160
3.6		Reach Stroke	mm	770
4.1		Overall Width	mm	1090
4.2		Width in Outrigger	B1 (mm)	820
4.3		Frame Width	B2 (mm)	1090
4.4		Height Outrigger	h6 (mm)	260
4.5		Height of Mast - Lowered	h1 (mm)	1995
4.6		Height of Mast - Extended	h4 (mm)	3935
4.7		Load Distance	X (mm)	595
4.8		Turning Radius	R (mm)	1755
4.9		Aisle Width: L 1100 x W 1100 pallet	mm	2010
4.10		Aisle Width with Pallet: L 1100 x W 1100 pallet	mm	2600
Performance	4.11	Travel Speed, Laden/Unladen	km/h	9.0/10.5
	4.12	Lifting Speed, Laden/Unladen	mm/s	280/560
	4.13	Lowering Speed, Laden/Unladen	mm/s	560/560
	4.14	Reach Speed, With/Without Load	mm/s	245/245
	4.15	Gradeability - 3 min rating or 1.5km/h, Laden/Unladen	%	12/21
Weight	4.16	Standard Battery	kg	2315
	4.17	Axle Loads - Reach In, Laden (Front/Rear)	kg	2375/1740
	4.18	Axle Loads - Reach In, Unladen (Front/Rear)	kg	680/1635
	4.19	Axle Loads - Reach Out, Laden (Front/Rear)	kg	3570/545
	4.20	Axle Loads - Reach, Unladen (Front/Rear)	kg	960/1355
Tyres Type	4.21	Tyres Front/Drive/Caster		2/1/2
	5.1	Tyre/Sizes - Front		$\phi$ 254 x 102 Urethane
	5.2	Tyre/Sizes - Drive		$\phi$ 330 x 145 Rubber
	5.3	Tyre/Sizes - Caster		$\phi$ 150 x 80 Rubber
	5.4	Wheelbase	L3 (mm)	1515
	5.5	Tread - Front/Rear	mm	990/640
	6.1	Tread - Rear	mm	640
	6.2	Ground Clearance At Lowest Point (m2)	mm	70
Motor	6.4	Battery Weight	kg	465
	6.5	Battery (cap. at 5h rating)	V/Ah	48/280
	6.6	Drive Motor Rated output (60 min rating)	kW	4.5
	6.7	Hoist Motor Rated output (5 min rating)	kW	9.6
	6.8	Steering Motor Rated output (60 min rating)	kW	0.3



**DIMENSIONS**



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