FBR15

The Stand-on Reach Stacker Designed for Most Demanding Applications

INTRODUCTION

FBR15 Series Reach stacker is an ideal option for high capacity and high lift height cargo storage application. Rated load capacity of 3300lbs, lifting height up to 315inch. It has the advantages of the integrated reach forward mast and small turning radius, which can ignore the barriers of the bottom shelf. It is applicable to large-scale vertical chemical plants, warehouses, supermarkets, docks and places for goods storage.

ADVANTAGES

- **Regenerative braking**
  If brake when driving, the motor automatically power off to maximize reduce power consumption and extend battery working time; The use of regenerative braking technology minimize the wear of braking efficiently, to ensure the brake safety and efficiency of energy recovery.
- **Advanced configuration**
  Integrated AC system, KDS motor, Zapi power steering and control systems with high-precision gearbox to ensure a flexible steering and high-quality driving performance.
- **Hydraulic system**
  International advanced connectors, hoses and abrasion resistance, high temperature resistance, high flexible import seals, reasonable layout of hard and soft tube to ensure that the whole hydraulic system cooling, sealing, durability, safety and efficiency.

Manufactured by
Global-Power Co., Ltd
TOYOTA INDUSTRIES GROUP

- **Comfortable and beautiful design**
  Modern and new design in Modern design of control pedal, and the damping pedal with ergonomic design ensures comfortable driving.
- **Mast system**
  The mast has the reach forward function which allows the truck to store the goods without moving of the truck itself, which is convenient and safe; High quality imported C-shape mast ensures that the vehicle load capacity.
- **Emergency button**
  Safe and convenient configuration of the emergency button, emergency one-time cut off all energy, which greatly increase safety.
- **Safety**
  The mast piping system with safe speed limit valve, effectively control the rate of lowering of goods. High standards of craftsmanship, aterials and quality ensures better performance in harsh conditions.
- **Buffer system for fork lowering and mast forward/backward**
  Buffer system for fork lowering and mast forward / backward increase vehicle safety and operating comfort.

- **Electronic control functions**
  The electrical energy, timing, fault display is easy for operator to understand the vehicle condition and to have maintenance. The surface of electrical components is water and dust proof, the design of fully enclosed thermal of the central control unit to make the circuit more simple and reliable.

Jiaozhou Bay, Yinghai Industry Park, Qingdao, Shandong, China
Tel : +86-532-58573666
www.ctforklift.com www.c-tpower.com
Email:export@tailift.com.cn

FBR Series

NEW!

FBR Series Sit-on Reach Truck with capacity 1400/1600/2000 Kg

FBR series Sit-on Reach Truck is a high performance truck with high efficiency and excellent safety. It is design to cope with the most demanding stacking operations for goods between 1400kg and 2000kg with maximum lift height up to 8m or 10.5m. Equipped with intelligent system and integrated with safety components to ensure the most efficient operations in big warehouses.

Ergonomic design | Easy side-battery replacement | Robust & reliable design | Capacity 1400-2000kg | Easy maintenance | High efficiency | Low noise

Advantages:

- Smart and easy side-battery replacement
  Excellent ergonomic design
- High stability without loss-of-load until 5.3m
- Easy and efficient maintenance
- Mast buffering for lowering for safety and reliability
- Low energy consumption with high performance
- Top brand key components ensures excellent performance
- Fast speed of travelling and lifting/lowering
- Extremely small turning radius and aisle width

Germany-imported HOESCH channel steel mast for excellent stability.

German Schabmuller Drive motor and steering motor.

American KDS lifting pump for smooth and safe lifting and lowering .

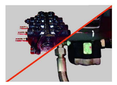
Top brand key components

100% AC system with electric power steering, top brand key components ensures high performance and stability, easy operation and maintenance .

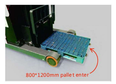
Germany-imported HOESCH channel steel mast for excellent stability.
American Curtis Controller for smooth and smart control with diagnosable signals.
German Schabmuller Drive motor and steering motor.
American KDS lifting pump for smooth and safe lifting and lowering.
Germany -imported ZF gear box for excellent acceleration.
Japanese Shimadzu Multi Control Valve for accurate and safe control of the hydraulics.

American Curtis Controller for smooth and smart control with diagnosable signals.

Germany -imported ZF gear box for excellent acceleration.



Japanese Shimadzu Multi Control Valve for accurate and safe control of the hydraulics.



High Efficiency

The inner diameter of the legs allows the 800x1200mm pallet enter, no need to reach forward to lower the pallet to the ground

High capacity battery with low energy consumption

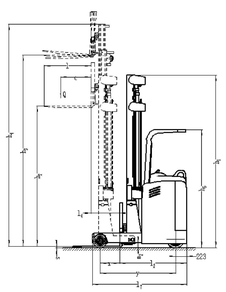
The inner diameter of the legs allows the 800x1200mm pallet enter, no need to reach forward to lower the pallet to the ground DIN Standard High Capacity battery optional 360/40/480/600AH. low energy consumption with approximately 2.52 kwh/h, 20% energy saving comparing to competitors

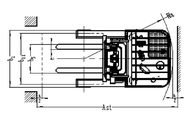
Ergonomic design

Comfortable adjustable seat allows the operator to find the best position and reduce fatigue for long time operation, overhead guard gives operator protection as well as

Mast table FBR15

Designation	Lowered mast height h1 (mm)	Free lift height h2 (mm)	Lift height h3 (mm)	Extended mast height h4 (mm)
	FBR 15			
Two-stage mast	1830	135	2500	3365
	1930	135	2700	3565
	2080	135	3000	3865
	2230	135	3300	4165
	2380	135	3600	4465
	2580	135	4000	4865
	2830	135	4500	5365
Three-stage mast FFL (Full-Free-Lift)	2230	1630	4500	5365
	2398	1795	5000	5865
	2498	1895	5300	6165
	2565	1960	5500	6365
	2665	2060	5800	6665
	2730	2130	6000	6865
	2898	2295	6500	7365
	3065	2460	7000	7865
	3230	2630	7500	8365
	3398	2795	8000	8865



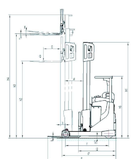
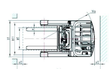


Type sheet for industrial truck acc. to VDI 2198 1KG=2.2LB 1INCH=25.4MM

Distinguishing mark	1.2	Manufacturer' type designation		FBR 15
	1.3	Drive(electric,diesel,petrol,gas,main electric)		Battery
	1.4	Type of operation(hand,pedestrian,stand on,rider picker)		Stand on
	1.5	Load capacity/rated load	Q (t)	1.5
	1.6	Load center distance	C (mm)	500
	1.8	Load distance,centre of drive axle to fork	X(mm)	380
	1.9	Wheelbase	y (mm)	1482
Weight	2.1	Service weight incl.battery	kg	3630
	2.3	Axle loading,unladen front/rear	kg	2260/1370
	2.4	Axle loading,fork advanced,laden front/rear	kg	840/4290
	2.5	Axle loading,fork retraced,laden front/rear	kg	1960/3170
Tyres, chassis	3.1	Tyres(solid rubber,superelastic,pneumatic,polyurethane)		Polyurethane
	3.2	Tyres size,front	dxW(mm)	343×140
	3.3	Tyres size,rear	dxW(mm)	267×106
	3.5	Wheels,number front/rear(x=driven wheels)		2/1x+2
	3.7	Track width,rear	b11(mm)	1010/840
Dimensions	4.1	Mastfork carriage tilt forward/backward	α/β (°)	3/5
	4.2	Lowered mast height	h1(mm)	3398
	4.3	Free lift	h2(mm)	2795
	4.4	Lift height	h3(mm)	8000
	4.5	Extended mast height	h4(mm)	8865
	4.7	Overhead load guard (cab) height	h6(mm)	2330
	4.19	Overall length	l1(mm)	2246
	4.20	Length to face of forks	l2(mm)	1326
	4.21	Overall width	b1(mm)	1130
	4.22	Fork dimensions	s/e/l(mm)	35/100/920
	4.25	Width over forks	b5(mm)	200/760
	4.28	Reath distance	l4(mm)	560
	4.31	Ground clearance	m1(mm)	80
	4.34	Aisle width for pallets 800X1000 crossways	Ast(mm)	2695
	4.35	Turning radius	Wa(mm)	1750
	4.37	Length across wheel arms	l7(mm)	1855
Performance data	5.1	Travel speed,laden/unladen	km/h	9.5/9.5
	5.2	Lift speed,laden/unladen	m/s	0.28/0.32
	5.3	Lowering speed,laden/unladen	m/s	0.35/0.31
	5.4	Reath speedm,laden/unladen	m/s	0.09/0.12
	5.8	Max.gradient performance,laden/unladen	%	10/15
	5.10	Service brake		Electromagnetic
Electric- engine	6.1	Drive motor rating S2 60 min	kW	5.5
	6.2	Lift motor rating at S3 15%	kW	8.6
	6.3	Battery acc.to DIN 43531/35/36 A,B,C,no		A,4Pzs
	6.4	Battery voltage,nominal capacity K5	V/Ah	48/360
	6.5	Battery weight	kg	680
Additional data	8.1	Type of drive control		Zapi
	8.2	Operating pressure for attachments	(bar)	110
	8.3	Oil volume for attachments	(l/min)	40
	8.4	Sound level at driver's ear according to EN 12053	dB(A)	<70

Mast table FBR20

Designation	Lift height h3 mm	Free lift height h2 mm	Lowered mast height h1 mm	Extended mast height h4 mm
	FBR 20			
Two-stage mast	3000	140	1830	3415
	3200	140	1930	3615
	3500	140	2080	3915
	3800	140	2230	4215
	4000	140	2380	4415
	4500	140	2630	4915
Three-stage mast FFL	4000	1254	2147	5415
	5000	1420	2395	5915
	5300	1520	2455	6215
	5500	1585	2502	6415
	5800	1685	2602	6715
	6000	1755	2667	6915
	6500	1920	2835	7415
	7000	2095	2993	7915
	7500	2255	3167	8415
	8000	2420	3335	8915
	8500	2585	3502	9415
	9000	2755	3667	9915
	9500	2920	3835	10415
	10000	3085	4002	10915
	10500	3255	4167	11415

Type sheet for industrial truck acc. to VDI 2198 1KG=2.2LB 1INCH=25.4MM

Distinguishing mark	1.1	Brand		Tailift	Tailift	Tailift
	1.2	Manufacturer' type designation		FBR 20	FBR 16	FBR 14
	1.3	Drive(electric,diesel,petrol,gas,main electric)		Battery	Battery	Battery
	1.4	Type of operation(hand,pedestrian,stand on,rider picker)		Seated	Seated	Seated
	1.5	Load capacity/rated load	Q (t)	2. 0	1. 6	1. 4
	1.6	Load center distance	c (mm)	600	600	600
	1.8	Load distance,centre of drive axle to fork	x (mm)	180	180	180
	1.9	Wheelbase	y (mm)	1500	1400	1350
Weight	2.1	Service weight incl.battery	kg	3400	3050	2950
	2.3	Axle loading,unladen front/rear	kg	2205/1200		
	2.4	Axle loading,fork advanced,laden front/rear	kg	600/4800		
	2.5	Axle loading,fork retraced,laden front/rear	kg	1950/3050		
Tyres, chassis	3.1	Tyres(solid rubber,superelastic,pneumatic,polyurethane)		Polyurethane (PU)	Polyurethane (PU)	Polyurethane (PU)
	3.2	Tyres size,front	dxW (mm)	313×135	313×135	313×135
	3.3	Tyres size,rear	dxW (mm)	267×135	267×135	267×135
	3.5	Wheels,number rear (front (x=driven wheels)		2/1x	2/1x	2/1x
	3.7	Track width,rear(front)	b11 (mm)	1124	1124	1124
Dimensions	4.1	Mastfork carriage tilt forward/backward	α/β (°)	2/4	2/4	2/4
	4.2	Lowered mast height	h1 (mm)	2335	2335	2335
	4.3	Free lift	h2 (mm)	1420	1420	1420
	4.4	Lift height	h3 (mm)	5000	5000	5000
	4.5	Extended mast height	h4 (mm)	5915	5915	5915
	4.7	Overhead load guard(cab)height	h6 (mm)	2160	2160	2160
	4.19	Overall length	l1(mm)	2350	2283	2260
	4.20	Length to face of forks	l2 (mm)	1280	1213	1190
	4.21	Overall width	b1 (mm)	1260	1040	1040
	4.22	Fork dimensions	s/e/l (mm)	40/120/1070	35/100/1070	35/100/1070
	4.25	Width over forks (min/max)	b5 (mm)	240/760	200/760	200/760
	4.28	Reath distance	l4 (mm)	620	600	570
	4.31	Ground clearance	m1 (mm)	75	75	75
	4.34	Aisle width for pallets 800X1000 crossways	Ast (mm)	2790	2730	2700
	4.35	Turning radius	Wa (mm)	1750	1600	1600
	4.37	Length across wheel arms	l7 (mm)	1865	1765	1705
Performance data	5.1	Travel speed,laden/unladen	km/h	10. 5/10. 5	10. 5/10. 5	10. 5/10. 5
	5.2	Lift speed,laden/unladen	m/s	0. 27/0. 38	0. 27/0. 38	0. 27/0. 38
	5.3	Lowering speed,laden/unladen	m/s	0. 35/0. 35	0. 35/0. 35	0. 35/0. 35
	5.4	Reath speedm,laden/unladen	m/s	0. 1/0. 1	0. 1/0. 1	0. 1/0. 1
	5.8	Max.gradient performance,laden/unladen	%	10/15	10/15	10/15
	5.10	Service brake		Electric	Electric	Electric
Electric- engine	6.1	Drive motor rating S2 60 min	kW	4. 4	4. 4	4. 4
	6.2	Lift motor rating at S3 15%	kW	12. 0	12. 0	12. 0
	6.3	Battery acc.to DIN 43531/35/36 A,B,C,no		A, 4Pzs	A, 4Pzs	A, 4Pzs
	6.4	Battery voltage,nominal capacity K5	V/Ah	48/480-600	48/360-450	48/360-450
	6.5	Battery weight	kg	939	750	750
Additional data	8.1	Type of drive control		AC-Speed Control	AC-Speed Control	AC-Speed Control
	8.2	Operating pressure for attachments	(bar)	150	150	150
	8.3	Oil volume for attachments	(l/min)	38	35	35
	8.4	Sound level at driver's ear according to EN 12053	dB(A)	<79	<79	<79