

FB 15-35RZ 2

Counterbalanced electric forklift

1,500-3,500 kg



Featuring the FB15-35RZ 2

FB15RZ 2

FB18RZ 2

FB20SRZ 2

FB20RZ 2

FB25RZ 2

FB30RZ 2

FB35SRZ 2

Being a market leader in innovation and customer understanding, Yale has introduced the new FB15-35RZ 2 counterbalanced electric rider.

In order to offer you a product that facilitates all of your operational needs, the FB15-35RZ 2 has incorporated all of the factors most relevant to today's material handling requirements.



ERGONOMICS

A redesigned unit that looks at the enhancement of mast visibility, increased floor space for comfort and easy on/off access, as well as a rear assist grip with horn for ease of operation in reverse, enables the operator ample allowances for comfort and satisfaction.



LOW COST OF OWNERSHIP

Optimised battery performance sees an overall reduction in electricity consumption and CO2 emissions from charging cycles.

Simplistic fault code identification via the dash display enables reduced diagnosis and fault rectification, increasing your up-time.



STABILITY

Through the combination of the cornering speed control system and a raised steer axle, the FB15-35RZ 2 has enabled an increase in confidence and ease of operation amongst operators. This is especially the case in fast paced operations, where the guess work is removed.

1. OPERATOR COMPARTMENT

An ergonomic workspace strategically engineered around comfort, convenience and commonality helps operators stay comfortable and productive all shift long.

2. STEERING

Synchronous steering as standard enables that the steering wheel always returns to the same position for forward driving after a turn.

3. BRAKES

Regenerative braking enables increased battery life by charging the battery during braking cycles.



4. PERFORMANCE MODES

Eco mode offers the ability to fine-tune your operational requirements. It enables the perfect mix of energy efficiency and productivity, at a lower operating cost.

5. BATTERY

Increased battery life of up to 8.5 hours in standard performance mode and 9.5 hours in Eco mode. Optional side battery extraction promotes optimised up-time for operation.

FB15-35RZ 2

Series features

The FB15-35RZ 2 offers you a product that facilitates all of your operational needs, by incorporating the factors most relevant to today's material handling requirements.

1



OPERATOR COMFORT

A refined operator's compartment provides ease of access and driver comfort.

2



SYNCHRONOUS AND POWER ASSIST STEERING

Alignment between the rotation of the steering wheel and steer tyres, enabling the steering wheel to always return to the same position.

3



BLUE PEDESTRIAN AWARENESS LIGHT (PAL)*

Provides an alert to pedestrians and users of mobile equipment that forklifts are operational in the area.

4



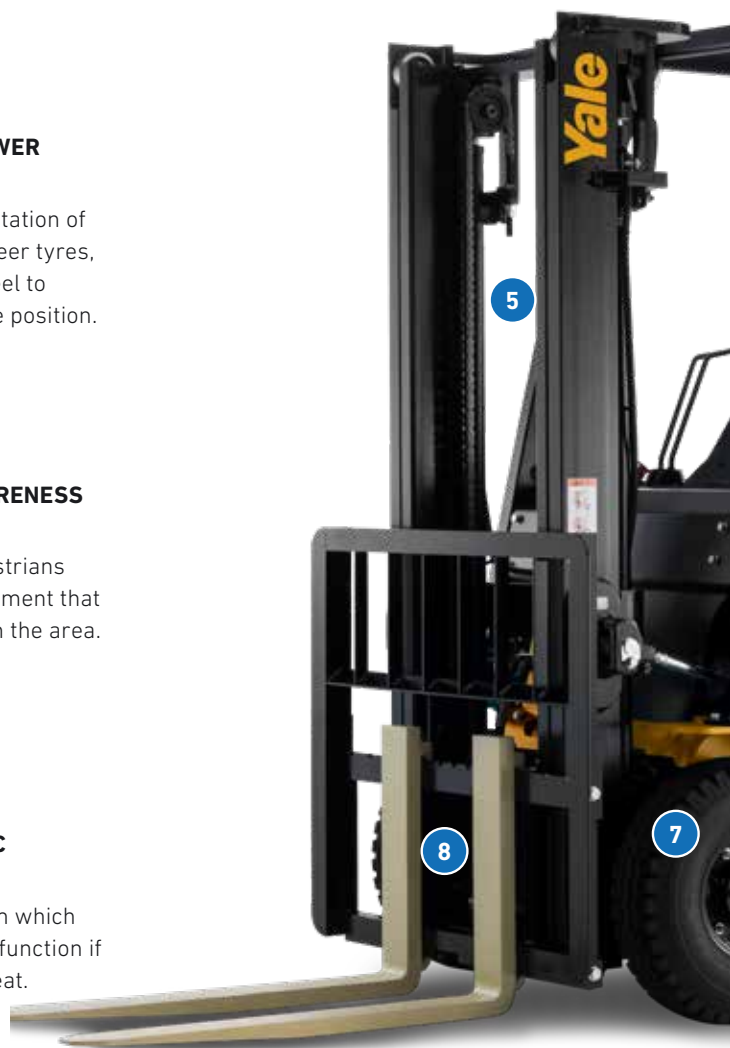
TRAVEL AND HYDRAULIC HANDLING INTERLOCK

Operator presence system which will disengage the trucks function if the operator leaves the seat.

5

8

7



* Optional



OPTIMISED MAST VISIBILITY

The inner mast clearance (between the hoist chains) provides ample visibility to enhance operator efficiency.



INTERACTIVE DASH DISPLAY

Interactive dash display shows the most relevant information to the truck's current status.



REGENERATIVE BRAKING

AC controlled motor sends power back to the battery during braking, increasing uptime.



CARRIAGE LIGHT*

Directs a light onto the load and racking to illuminate the workspace while working at heights.

* Optional



Manage cost, optimise productivity and protect your assets

YALE® VISION WIRELESS ASSET MANAGEMENT

Take your fleet operation to the next level with wireless asset management from Yale. Yale Vision provides true wireless fleet management, can drive fleet efficiency, improves operator performance, reduces your carbon footprint and lowers your overall material handling costs.

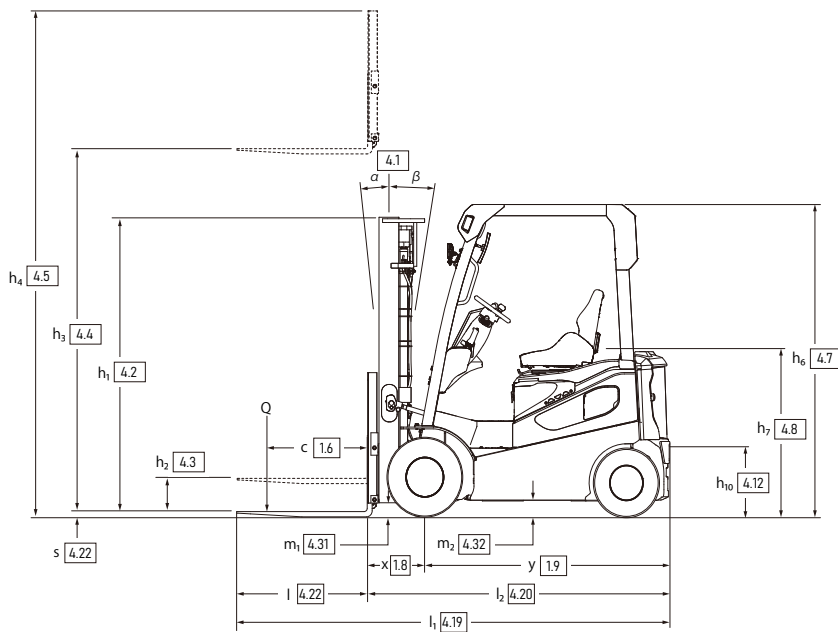
- Manage your total cost of operation
- Ensure maximum productivity from your lift truck investment
- Monitor operator behavior, promote safe operator behaviour
- Convenient web-based access, and your choice of three levels of management

DATA IS GREAT, BUT YOUR YALE DEALER WILL MAKE IT WORK FOR YOU

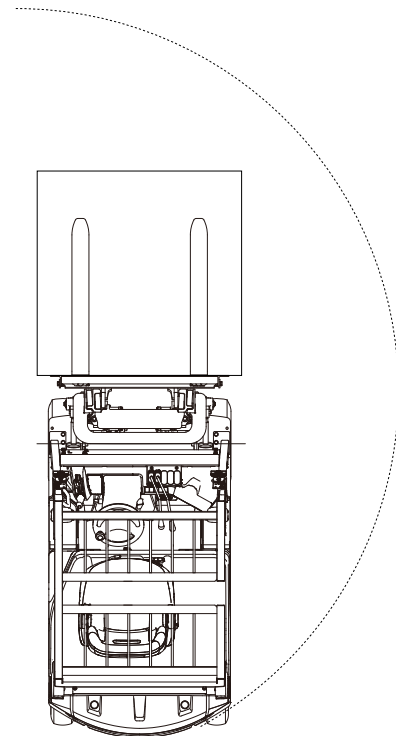
Yale Vision is a great addition to your management toolkit. But when you partner with your Yale Dealer, you get the best of both worlds – great fleet data plus the unmatched knowledge and experience that can help you get the most out of every truck in your fleet.



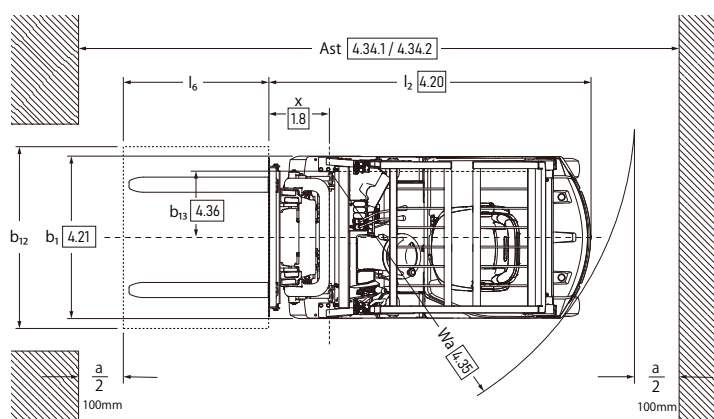
Side view



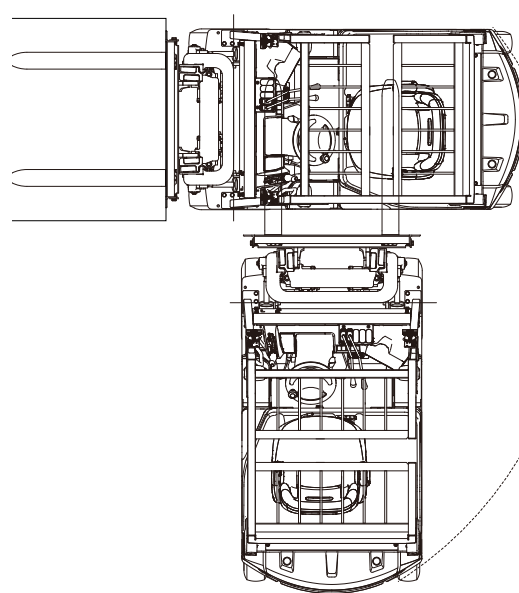
00-90 degree aisle



Top view



AST



FB15-35 RZ 2 GENERAL SPECIFICATIONS

GENERAL	1.1	Manufacturer		Yale						
	1.2	Model designation		FB15RZ 2	FB18RZ 2	FB20SRZ 2	FB20RZ 2	FB25RZ 2	FB30RZ 2	FB35SRZ 2
	1.3	Drive		Electric (battery)	Electric (battery)	Electric (battery)	Electric (battery)	Electric (battery)	Electric (battery)	Electric (battery)
	1.4	Operator type		Seated	Seated	Seated	Seated	Seated	Seated	Seated
	1.5	Rated capacity/rated load	Q (t)	1.50	1.75	2.00	2.00	2.50	3.00	3.50
	1.6	Load centre distance	c (mm)	500	500	500	500	500	500	500
	1.8	Load distance, centre of drive axle to fork	x (mm)	408	408	413	463	463	488	503
	1.9	Wheelbase	y (mm)	1420	1420	1420	1550	1550	1780	1780
	1.9	Wheelbase	y (mm)	1420	1420	1420	1550	1550	1780	1780
WEIGHT	2.1	Service weight (standard/dual tread) ^[4]	kg	2907/	3121/	3361/	3580/3663	4055/4138	4663/4719	5169/5169
	2.2	Axle loading, laden front/rear ^[4]	kg	3879/527	4281/588	4702/655	4974/606	5811/744	6837/826	7705/964
	2.3	Axle loading, unladen front/rear ^[4]	kg	1419/1488	1409/1712	1420/1941	1731/1849	1757/2298	2172/2491	2233/2936
TYRES	3.1	Tyres: P=Pneumatic, S=Pneumatic shape solid		S	S	S	S	S	S	S
	3.2	Tyre size, front (standard tread)		6.00-9	21x8-9	21x8-9	7.00-12	7.00-12	28x9-15	28x9-15
	3.2.1	Tyre size, front (dual tread)		N/A	N/A	N/A	5.50-15	5.50-15	5.50-15	6.00-15-10PR
	3.3	Tyre size, rear		5.00-8	5.00-8	5.00-8	18x7-8	18x7-8	6.50-10-10PR	6.50-10
	3.5	Wheels, number front/rear (x = driven wheels)		2x / 2	2x / 2	2x / 2	2x / 2	2x / 2	2x / 2	2x / 2
	3.6	Tread, front (standard/dual tread)	b ₁₀ (mm)	910	949	949	970/1140	970/1140	1010/1140	1010/1140
	3.7	Tread, rear	β 11 (μm)	905	905	905	987	987	975	975
DIMENSIONS	4.1	Tilt of mast/fork carriage forward α / backward β	α / β (°)	6/10	6/10	6/10	6/10	6/10	6/10	6/10
	4.2	Height of mast, lowered	h ₁ (mm)	1995	1995	1995	1995	1995	2060	2140
	4.3	Free lift ^[5]	h ₂ (mm)	110	110	110	113	113	113	113
	4.4	Lift ^[5]	h ₃ (mm)	3000	3000	3000	3010	3010	3010	3010
	4.5	Height of mast, extended ^[7]	h ₄ (mm)	3611	3611	3611	3650	3650	3650	3844
	4.7	Height of overhead guard (cabin) ^[9]	h ₆ (mm)	2076	2076	2076	2119	2119	2147	2147
	4.8	Seat height relating to SIP/stand height ^[6]	h ₇ (mm)	1119	1119	1119	1162	1162	1190	1190
	4.12	Coupling height	h ₁₀ (mm)	286	286	286	306	306	301	301
	4.19	Overall length	l ₁ (mm)	3057	3090	3133	3289	3489	3710	3790
	4.20	Length to face of forks	l ₂ (mm)	2137	2170	2213	2369	2419	2640	2720
	4.21	Overall width ^[8]	b ₁ /b ₂ (mm)	1070	1135	1135	1160/1490	1160/1490	1235/1490	1235/1490
	4.22	Fork dimensions ISO 2331	s/e/l (mm)	35/100/920	35/100/920	40/122/920	40/122/920	40/122/1070	45/122/1070	50/150/1070
	4.23	Fork carriage ISO 2328, class/type A, B		2A	2A	2A	2A	2A	3A	3A
	4.24	Fork carriage width ^[7] ^[8]	b ₃ (mm)	920	920	920	1020	1020	1070	1070
	4.31	Ground clearance, laden, below mast	m ₁ (mm)	63	63	63	85	85	120	120
	4.32	Ground clearance, centre of wheelbase ^[11]	m ₂ (mm)	93	93	93	125	125	148	149
	4.33	Load dimension b ₁₂ × l ₆ crossways	b ₁₂ × l ₆ (mm)	1000 x 1200	1000 x 1200	1000 x 1200	1000 x 1200	1000 x 1200	1000 x 1200	1000 x 1200
	4.34	Aisle width predetermined load dimensions	Ast (mm)	3299	3329	3368	3512	3557	3796	3861
	4.34.1	Aisle width for pallets 1000 × 1200 crossways	Ast (mm)	3299	3329	3368	3512	3557	3796	3861
	4.34.2	Aisle width for pallets 800 × 1200 crossways	Ast (mm)	3100	3130	3169	3312	3357	3596	3661
	4.35	Turning radius	Wa (mm)	1857	1887	1921	2023	2068	2271	2331
	4.36	Internal turning radius	b ₁₃ (mm)	506	506	506	522	522	580	580
	4.42	Step height (from ground to running board) ^[10]	mm	450	450	450	460	460	487	487
	4.43	Step height (between intermediate step and floor)	mm	179.1	179.1	179.1	232.4	232.4	232.7	232.7
PERFORMANCE	5.1	Travel speed, laden/unladen ^[12]	km/h	14.9/15.9	14.9/15.9	14.8/15.9	14/15.3	13.6/15.2	14/16.5	13/16
	5.1.1	Travel speed, laden/unladen, reverse	km/h	14.9/15.9	14.9/15.9	14.8/15.9	14/15.3	13.6/15.2	14/16.5	13/16
	5.2	Lift speed, laden/unladen	m/s	0.42/0.625	0.385/0.625	0.405/0.625	0.38/0.605	0.33/0.605	0.305/0.49	0.275/0.485
	5.3	Lowering speed, laden/unladen	m/s	0.495/0.52	0.495/0.52	0.495/0.52	0.495/0.52	0.495/0.52	0.495/0.52	0.495/0.52
	5.5	Drawbar pull, laden/unladen ^[1]	N	9232/8861	9118/8791	9155/8791	13146/12650	13233/12611	13002/12585	13081/12585
	5.6	Max. drawbar pull, laden/unladen ^[2]	N	9232/8861	9118/8791	9155/8791	13146/12650	13233/12611	13002/12585	13081/12548
	5.7	Gradeability, laden/unladen ^[3]	%	7.7/11.4	6.8/10.5	6.2/9.9	6.2/9.6	5.4/8.8	6.1/10.2	5.4/9.3
	5.8	Max. gradeability, laden/unladen ^[2]	%	14.8/21.4	13.2/19.7	12.1/18.7	12.9/19.2	11.3/17.8	10.9/17.7	9.7/16.2
	5.10	Service brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
ELECTRIC	6.1	Drive motor rating S2 60 min	kW	6	6	6	8.3	8.3	11.7	11.7
	6.2	Lift motor rating at S3 15%	kW	9.6	9.6	9.6	9.6	9.6	16.2	16.2
	6.3	Battery according to DIN 43531/35/36 A, B, C, no		A	A	A	A	A	A	A
	6.4	Battery voltage/nominal capacity K5	(V)/(Ah)	48	48	48	48	48	72	72
	6.5	Battery weight (minimum)	kg	620	620	620	715	890	1055	1055
OTHER	8.1	Type of drive unit		IPM	IPM	IPM	IM	IM	IM	IM
	10.1	Operating pressure for attachments	bar	157	157	157	157	157	157	157
	10.3	Hydraulic oil tank, capacity	ℓ	21.8	21.8	21.8	21.8	21.8	21.8	21.8
	10.8	Towing coupling, type DIN		Pin	Pin	Pin	Pin	Pin	Pin	Pin

^[8] Standard / Wide tread

^[12] 30 minute rating

^[6] Full suspension seat specified at mid-point of suspension travel.

^[8] Add 32mm with load backrest

^[11] 90mm with horizontal battery removal

^[1] 60 minute rating

^[4] Max. battery

Standard hood specified. 1051mm with raised hood.

^[9] h₆ subject to +/- 5 mm tolerance

^[12] HiP performance

^[2] 5 minute rating

^[8] Bottom of forks

^[7] Without load backrest

^[10] With vertical battery removal; add 34 mm with horizontal removal

Mast specifications

FB15-18RZ 2

Maximum fork height (mm)	Fork thickness (mm)	Back tilt (deg)	Overall lowered height (mm)	Overall extended height (mm)	Free lift* (mm)
2-STAGE LFL					
3035	35	10	1995	4105	145
3335	35	10	2145	4405	145
3535	35	10	2245	4605	145
3735	35	10	2345	4805	145
4035	35	6	2595	5105	145
4335	35	6	2745	5405	145
4535	35	6	2845	5605	145
4835	35	6	2995	5905	145
5035	35	6	3095	6105	145
2-STAGE FFL					
3025	35	10	1995	4095	925
3325	35	10	2145	4395	1075
3525	35	10	2245	4595	1175
3725	35	10	2345	4795	1275
4125	35	6	2595	5195	1525
3-STAGE FFL					
4025	35	6	1895	5095	825
4375	35	6	1995	5445	925
4525	35	6	2045	5595	975
4825	35	6	2145	5895	1075
5125	35	6	2245	6195	1175
5425	35	6	2345	6495	1275
6025	35	6	2595	7095	1525

FB20-25RZ 2

Maximum fork height (mm)	Fork thickness (mm)	Back tilt (deg)	Overall lowered height (mm)	Overall extended height (mm)	Free lift* (mm)
2-STAGE LFL					
3050	40	10	1995	4120	155
3350	40	10	2170	4420	155
3550	40	10	2270	4620	155
3750	40	10	2420	4820	155
4050	40	10	2620	5120	155
4350	40	6	2770	5420	155
4550	40	6	2870	5620	155
4850	40	6	3020	5920	155
5050	40	6	3120	6120	155
2-STAGE FFL					
3000	40	10	1995	4070	925
3390	40	10	2270	4460	1200
3590	40	10	2370	4660	1300
3840	40	10	2520	4910	1450
4190	40	10	2720	5260	1650
3-STAGE FFL					
4135	40	6	1970	5205	900
4345	40	6	2040	5415	970
4585	40	6	2120	5655	1050
4840	40	6	2205	5910	1135
5035	40	6	2270	6105	1200
5335	40	6	2370	6405	1300
5535	40	6	2470	6605	1400
5685	40	6	2520	6755	1450
6035	40	6	2720	7105	1650

FB20SRZ 2

Maximum fork height (mm)	Fork thickness (mm)	Back tilt (deg)	Overall lowered height (mm)	Overall extended height (mm)	Free lift* (mm)
2-STAGE LFL					
3040	40	10	1995	4105	150
3340	40	10	2145	4405	150
3540	40	10	2245	4605	150
3740	40	10	2345	4805	150
4040	40	6	2595	5105	150
4340	40	6	2745	5405	150
4540	40	6	2845	5605	150
4840	40	6	2995	5905	150
5040	40	6	3095	6105	150
2-STAGE FFL					
3030	40	10	1995	4095	930
3330	40	10	2145	4395	1080
3530	40	10	2245	4595	1180
3730	40	10	2345	4795	1280
4130	40	6	2595	5195	1530
3-STAGE FFL					
4030	40	6	1895	5095	830
4380	40	6	1995	5445	930
4530	40	6	2045	5595	980
4830	40	6	2145	5895	1080
5130	40	6	2245	6195	1180
5430	40	6	2345	6495	1280
6030	40	6	2595	7095	1530

FB30RZ 2

Maximum fork height (mm)	Fork thickness (mm)	Back tilt (deg)	Overall lowered height (mm)	Overall extended height (mm)	Free lift* (mm)
2-STAGE LFL					
3055	45	10	2060	4125	160
3355	45	10	2210	4425	160
3555	45	10	2310	4625	160
3755	45	10	2440	4825	160
4055	45	10	2640	5125	160
4355	45	6	2790	5425	160
4555	45	6	2890	5625	160
4855	45	6	3040	5925	160
5055	45	6	3140	6125	160
2-STAGE FFL					
3080	45	10	2140	4150	1070
3380	45	10	2290	4450	1220
3580	45	10	2390	4650	1320
3830	45	10	2540	4900	1470
4180	45	10	2740	5250	1670
3-STAGE FFL					
4125	45	6	1990	5195	920
4335	45	6	2060	5405	990
4575	45	6	2140	5645	1070
4705	45	6	2225	5775	1155
5025	45	6	2390	6095	1320
5325	45	6	2540	6395	1470
5525	45	6	2640	6595	1570
5725	45	6	2740	6795	1670
6025	45	6	2890	7095	1820

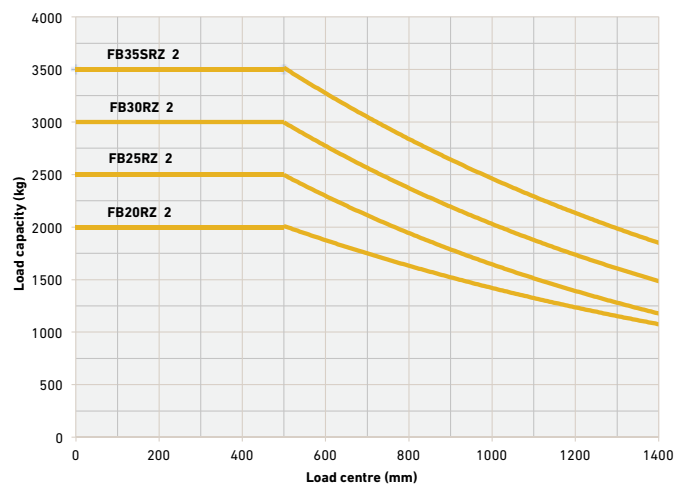
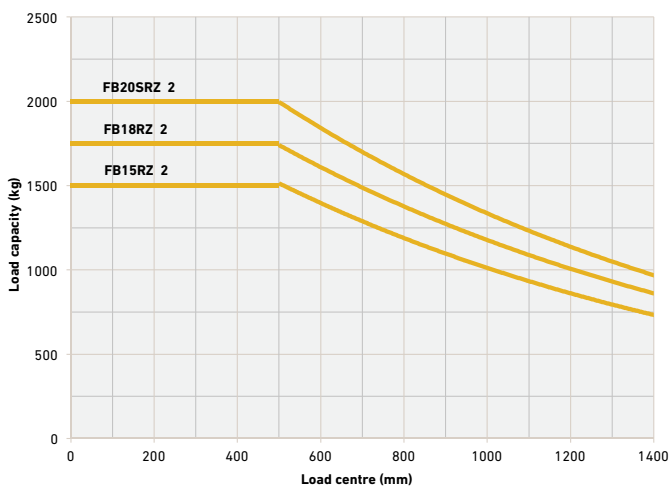
*With load backrest

Mast specifications

FB35SRZ 2

Maximum fork height (mm)	Fork thickness (mm)	Back tilt (deg)	Overall lowered height (mm)	Overall extended height (mm)	Free lift* (mm)
2-STAGE LFL					
3060	50	10	2140	4130	165
3360	50	10	2290	4430	165
3560	50	10	2390	4630	165
3760	50	10	2490	4830	165
4060	50	10	2690	5130	165
4360	50	6	2840	5430	165
4560	50	6	2940	5630	165
4860	50	6	3090	5930	165
5060	50	6	3190	6130	165
2-STAGE FFL					
3085	50	10	2190	4155	1120
3385	50	10	2340	4455	1270
3585	50	10	2440	4655	1370
3835	50	10	2590	4905	1520
4185	50	10	2790	5255	1720
3-STAGE FFL					
4130	50	6	2040	5200	970
4340	50	6	2110	5410	1040
4580	50	6	2190	5650	1120
4830	50	6	2340	5900	1270
5030	50	6	2440	6100	1370
5330	50	6	2590	6400	1520
5530	50	6	2690	6600	1620
5730	50	6	2790	6800	1720
6030	50	6	2940	7100	1870

Capacity charts



STANDARD & OPTIONAL FEATURES

BATTERY	STD	OPT	TYRES	STD	OPT
Drop battery configuration	●		Single drive wheels	●	
Lateral battery extraction		●	Pneumatic tyres	●	
OPERATOR COMPARTMENT	STD	OPT	Dual drive wheels (2-3.5T only)		●
Large open access step	●		Solid tyres		●
Pendant style pedals	●		Non-marking tyres		●
Key start	●		TRANSMISSION CONTROL	STD	OPT
Tilt steering column	●		Forward/reverse lever	●	
Cup holder	●		Hydraulic control		●
LCD display	●		HYDRAULIC CONTROL	STD	OPT
Speedometer and odometer	●		Hydraulic interlock - no operator on seat	●	
Performance mode selection	●		Return to vertical tilt		●
Dual side view mirrors		●	SEAT	STD	OPT
Acrylic top cover		●	Full suspension seat	●	
Rear assist grip with horn button		●	Seat belt and hip restraint	●	
Load weight meter		●	Operator presence	●	
Front screen with wiper		●	Sequential seat belt interlock		●
Document clip		●	LIGHTS AND WARNINGS	STD	OPT
DRIVE CONTROL	STD	OPT	Full light kit	●	
AC drive and pump control	●		LED lights		●
Regenerative braking	●		Additional lights		●
Controlled accelerator adjustment	●		Pedestrian awareness light		●
Speed limit adjustment	●		LED rotating light		●
Anti rollback	●		Carriage mounted light		●
Water-resistant - IPX4	●		Fork mounted laser		●
PUMP CONTROLS	STD	OPT	TRUCK CONSTRUCTION	STD	OPT
Hydraulic speed adjustment	●		Cold store construction		●
Proportional control	●		Corrosion construction		●
STEER CONTROLS	STD	OPT	Traction motor cover		●
Synchroniser with turn speed control	●		FRONT END CONFIGURATIONS	STD	OPT
Hydraulics on demand	●		ISS carriage		●
ELECTRICAL CONTROL SYSTEM	STD	OPT	ISS carriage with fork positioning		●
Thermal protection	●				
Real time diagnostics	●				
Battery discharge with interrupt	●				
Auto shut off after 15 minutes	●				

About Yale

Yale Lift Truck Technologies leverages over a century of material handling experience and substantial investment in innovation to bring the most advanced technology-driven lift truck solutions to market. The company offers a full line of award-winning lift trucks, including reach trucks, order pickers, turret trucks, pallet jacks and trucks, pallet stackers, tow tractors and counterbalanced forklifts, as well as powerful operator assist solutions, proven robotics and a wide range of power sources to help customers adapt to today's demanding supply chain. Yale and its independent dealer network support these solutions with comprehensive after-sales service, parts, financing and training.

Yale Lift Truck Technologies is a trading name of Hyster-Yale Asia-Pacific Pty Ltd., a wholly owned subsidiary of Hyster-Yale Materials Handling, Inc.(NYSE:HY) which is headquartered in Cleveland, Ohio and operates globally.

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MATERIALS HANDLING FOR:

- Third-party logistics (3PL)
- Auto parts distribution
- Beverage
- Cold & frozen foods
- Food distribution
- Food processing
- Furniture & furnishings
- Government
- Health & pharma
- Home centers & durables
- Retail & e-commerce