Powerful 3-phase AC technology built into the drive, lift and steering motors

State-of-the-art, multi-functional control handle allows operator to work three functions simultaneously

Rugged mast with excellent visibility and hydraulic cushioning for efficient load handling

Spacious operator compartment offers a combination of comfort, flexibility and function

Operator display offers information you need to know in an easy-to-read format

ETB 130 – 140 / ETB 230 – 340

24 and 36 Volt Electric Straddle Truck (3000-4000 lbs.)

The ETB series straddle truck boasts strong performance – moving more pallets per hour and lowering overall cost of ownership – while keeping operators comfortable and productive.

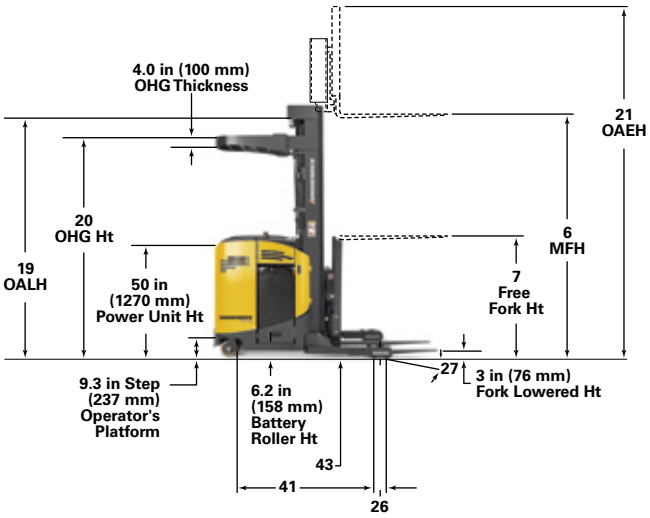
The key advantages:

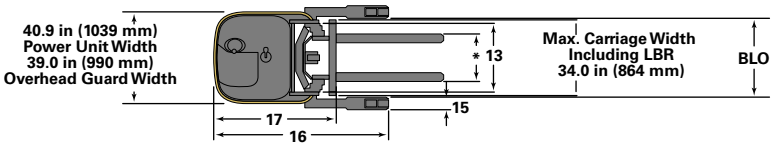
- Higher performance due to 3-phase AC technology. AC motors require no carbon brushes, which eliminates the cost of replacements, reduces the need for servicing and allows for longer operating times.
- Greater productivity is also achieved through a space-saving design. This means the trucks can work in smaller aisles, leaving more space available for products.
- Operators are more relaxed and productive largely due to the ergonomic compartment that minimizes operator fatigue. From the low step height, to the steering wheel which does not encroach into the operator space and to the intuitive, multifunction control handle, the operator benefits from the excellent design. Productivity can be just as high in the last hour of the shift as in the first.
- The clear operator display shows all the information needed to perform the task at hand. In addition, the display on the ETB 230/ETB 340 allows operators to select a number of pre-programmed drive and hydraulic settings to customize the truck for a particular application or operator skill level. All information is immediately displayed, contributing to the operator's overall awareness – increasing confidence and leading to a more productive work environment.
- The ETB features a high-visibility, heavy-duty mast with durable rollers and mast rails designed to meet your most demanding applications. Combined with hydraulic cushioning in the mast staging function, operators can precisely and securely position loads at all lift heights.

The ETB series straddle truck delivers greater productivity in any application where space is at a premium. Its space-saving design means the truck can stack goods efficiently in narrow aisles and at high lift heights. Operators on the ETB 230/ETB 340 can also customize the drive and hydraulic settings to suit the application and their level of experience.

JUNGHEINRICH

ETB 130 - 140 / ETB 230 - 340





* Fork spacing: See 10 and 11 for minimum and maximum widths.

Mast Table - 24/36 Volt Straddle Trucks										
Designation	Maximum Fork Height 2)		Overall Lowered Height 1)		Overall Extended Height 2) 4)		Free Lift 3) 5)		Overhead Guard Height 1)	
	in	mm	in	mm	in	mm	in	mm	in	mm
Three Stage Mast (ETB130/ETB140/ ETB230/ETB340)	170	4310	89	2265	218	5550	54	1370	88.75	2265
	198	5000	89	2265	246	6250	54	1370	88.75	2265
	210	5300	95	2415	258	6600	60	1520	94.75	2390
	240	6050	107	2720	288	7350	72	1825	94.75	2390
	258	6550	113	2880	306	7800	78	1980	94.75	2390
	270	6850	119	3030	318	8100	84	2130	94.75	2390

Footnotes:
1) Tolerance = ± 0.5 in. (± 13 mm).
2) Tolerance = +2.5 in./- 0.5 in. (+67 m /- 13 mm).
3) Tolerance = ± 1 in. (± 25 mm).
4) Calculated with standard 48 in. (1219 mm) high load backrest.
5) Calculated with standard 48 in. (1219 mm) high load backrest. May be increased if lower backrest (optional) is ordered.

Technical Data

as of: 01/2010

					ETB130		ETB140		ETB230		ETB340	
Characteristics	1	Model										
	2	Type			Straddle		Straddle		Straddle		Straddle	
	3	Power voltage			24		24		36		36	
	4	Capacity at rated load center	lb	*kg*	3,000	*1,400*	4,000	*1,800*	3,000	*1,400*	4,000	*1,800*
	5	Capacity load center - distance from fork face	in	*mm*	24	*600*	24	*600*	24	*600*	24	*600*
Dimensions	6	Maximum fork height with triplex mast	in	*mm*	270	*6,850*	270	*6,850*	270	*6,850*	270	*6,850*
	7	Free fork height with maximum height triplex mast	in	*mm*	84.0	*2,135*	84.0	*2,135*	84.0	*2,135*	84.0	*2,135*
	8	Fork width	in	*mm*	4.0	*101*	4.0	*101*	4.0	*101*	4.0	*101*
	9	Fork thickness	in	*mm*	1.6	*40.0*	1.6	*40.0*	1.5	*38.0*	1.75	*44.0*
	10	Fork spacing - out-to-out minimum	in	*mm*	10.0	*254*	10.0	*254*	10.0	*254*	10.0	*254*
	11	Fork spacing - out-to-out maximum[1]	in	*mm*	31.5	*800*	31.5	*800*	31.5	*800*	31.5	*800*
	12	Tilt angle - forward / backward	deg		3° / 4°		3° / 4°		3°/4.5°		3°/4.5°	
	13	Mast width[2]	in	*mm*	31.0	*776*	31.0	*776*	31.0	*776*	31.0	*776*
	14	Baseleg opening	in	*mm*	33.0-49.0	*839-1,245*	33.0-49.0	*839-1,245*	33.0-49.0	*839-1,245*	33.0-49.0	*839-1,245*
	15	Baseleg width	in	*mm*	5.0	*127*	5.0	*127*	5.0	*127*	5.0	*127*
	16	Overall length	in	*mm*	75.9	*1,930*	75.9	*1,930*	75.9	*1,930*	78.0	*1,985*
	17	Length to fork face	in	*mm*	53.8	*1,370*	54.1	*1,375*	53.8	*1,370*	55.8	*1,420*
	18	Overall chassis width	in	*mm*	40.9	*1,039*	40.9	*1,039*	40.9	*1,039*	40.9	*1,039*
	19	Overall lowered height with maximum triplex mast	in	*mm*	119	*3,030*	119	*3,030*	119	*3,030*	119	*3,030*
	20	Overall lowered height to top of overhead guard	in	*mm*	94.7	*2,405*	94.7	*2,405*	94.0	*2,390*	94.0	*2,390*
	21	Overall height with extended maximum triplex mast	in	*mm*	318	*8,100*	318	*8,100*	318	*8,100*	318	*8,100*
	22	Step height	in	*mm*	9.3	*237*	9.3	*237*	9.3	*237*	9.3	*237*
	23	Battery roller height	in	*mm*	6.2	*158*	6.2	*158*	6.2	*158*	6.2	*158*
	24	Minimum outside turning radius	in	*mm*	70.8	*1,800*	70.8	*1,800*	70.8	*1,800*	72.8	*1,850*
	25	Minimum aisle - 90 deg. stack - zero clearance	in	*mm*	**PLEASE CONSULT YOUR JUNGHEINRICH DEALER**							
	26	Load wheel centerline	in	*mm*	5.3	*133*	5.3	*133*	5.3	*133*	5.3	*133*
	27	Grade clearance	in	*mm*	13.7		13.7		13.7		13.2	
Performance	28	Travel speed tractor first	mph	*km/h*	6.2	*9.9*	6.2	*9.9*	7.3	*11.6*	7.3	*11.6*
	29	Travel speed forks first	mph	*km/h*	6.0	*9.6*	6.0	*9.6*	6.5	*10.4*	6.5	*10.4*
	30	Lift speed loaded (triplex)	fpm	*m/s*	42.0	*0.21*	38.0	*0.19*	64.0	*0.32*	54.0	*0.27*
	31	Lift speed empty (triplex)	fpm	*m/s*	64.0	*0.32*	64.0	*0.32*	95.0	*0.47*	95.0	*0.47*
	32	Lower speed loaded (triplex)	fpm	*m/s*	110	*0.55*	110	*0.55*	110	*0.55*	110	*0.55*
	33	Lower speed empty (triplex)	fpm	*m/s*	90.0	*0.45*	90.0	*0.45*	90.0	*0.45*	90.0	*0.45*
	34	Maximum fork height with rated load	in	*mm*	240	*6,050*	240	*6,050*	258	*6,550*	240	*6,050*
	35	Gradeability - loaded - maximum			*5.0*		*5.0*		7.0		7.0	
	36	Gradeability - empty - maximum			8.0		8.0		7.0		7.0	
Weight	37	Truck weight - empty - with min weight battery	lb	*kg*	6,600	*2,995*	6,650	*3,020*	6,700	*3,050*	7,200	*3,275*
	38	Battery weight - min	lb	*kg*	1,700	*775*	1,700	*775*	1,600	*730*	2,000	*910*
	39	Battery weight - max	lb	*kg*	2,000	*910*	2,000	*910*	2,000	*910*	2,300	*1,050*
Chassis	40	Chassis type (stand/sit)			Stand		Stand		Stand		Stand	
	41	Wheelbase	in	*mm*	61.5	*1,560*	61.5	*1,560*	61.5	*1,560*	63.5	*1,615*
	42	Ground clearance - center of wheelbase	in	*mm*	2.0	*51.0*	2.0	*51.0*	2.0	*51.0*	2.0	*51.0*
	43	Ground clearance - lowest point at mast	in	*mm*	2.0	*51.0*	2.0	*51.0*	2.0	*51.0*	2.0	*51.0*
	44	Tire size - steer	in	*mm*	13.5x5.5	*343x140*	13.5x5.5	*343x140*	13.5x5.5	*343x140*	13.5x5.5	*343x140*
	45	Tire size - caster	in	*mm*	7.0x4.0	*180x100*	7.0x4.0	*180x100*	7.0x4.0	*180x100*	7.0x4.0	*180x100*
	46	Tire size - load wheels	in	*mm*	5.0x2.88	*127x73.0*	5.0x3.62	*127x92.0*	5.0x2.88	*127x73.0*	5.0x3.62	*127x92.0*
	47	Brake type			Electric Disc		Electric Disc		Electric Disc		Electric Disc	
Electrical	48	Traction motor type			AC Induction		AC Induction		AC Induction		AC Induction	
	49	Traction motor output kW (60 min. rating)			4.7	*3.5*	4.7	*3.5*	6.8	*5.1*	6.8	*5.1*
	50	Pump motor type			AC Induction		AC Induction		AC Induction		AC Induction	
	51	Pump motor output kW (5 minute rating)			6.7	*5.0*	6.7	*5.0*	14.7	*11.0*	14.7	*11.0*
	52	Steer motor type			AC Induction		AC Induction		AC Induction		AC Induction	
	53	Steer motor output kW (60 min. rating)			0.8	*0.6*	0.8	*0.6*	0.5	*0.4*	0.5	*0.4*
	54	Battery maximum capacity - A/H (6 hr. rating)			1,395		1,395		775		1,240	
	55	Battery compartment length			14.25	*361*	14.25	*361*	14.25	*361*	16.25	*412*
	56	Battery compartment width			38.58	*980*	38.58	*980*	38.58	*980*	38.58	*980*
	57	Battery compartment height			31.65	*804*	31.65	*804*	31.65	*804*	31.65	*804*

The Jungheinrich Advantage

High visibility, heavy-duty mast
Jungheinrich masts provide maximum space utilization and visibility to high lift heights.

- The sturdy mast and narrow, angled overhead guard promote good visibility to the load even in high stacking applications.
- Hydraulic cushioning in mast staging functions so loads are handled smoothly.
- Shim-adjustable canted mast rollers.
- Heavy, interlocking mast rails.
- Optional integral sideshifter helps improve capacity retention and maneuverability.
- Fork heights up to 270 inches.

'Superclear' view mast

Spacious and ergonomic operator compartment
The spacious operator compartment combines comfort and functionality to improve operator efficiency.

- Location of operator controls allows for a flexible side stance position within the compartment
- Low-effort electric power steering for precise control with minimal effort.
- Display with multiple hour meters, travel speed, travel direction, load weight display, fault code read-out and battery state-of-charge gauge with lift monitoring (ETB 230/ ETB 340 only).

Ergonomic operator compartment

- Intuitive multifunction control handle offers simultaneous control of drive, lift, lower and auxiliary hydraulic functions.
- Anti-fatigue floor mat and generous padding for knees, hips, back and armest.
- Storage space for operator's equipment.

Multifunction control handle
The intuitive, multifunction control handle is centrally positioned for easy access to truck functions.

- Maximum efficiency through simultaneous operation of travel, lift and one auxiliary function.
- Rounded palm rest helps reduce operator fatigue over long shifts.

Multifunction control handle

Operator display
The easy-to-read control panel displays the information the operator needs to perform daily tasks (NOTE: display features are for 36-volt units only. 24-volt units receive a basic display with battery discharge indicator).

- Travel speed.
- Travel direction.
- Battery state-of-charge.
- Load weight display.
- Text messaging of truck status and limiting conditions.
- Informational and warning icons.
- Language options.

Customized programming
Performance profiling allows you to customize drive and hydraulic settings based on the application, individual operator experience level and personal preferences. All display-based programming, performance requests and information queries can be performed with easily accessible buttons.

Powerful 3-phase AC technology
3-phase AC technology for drive, lift and steering offers several advantages over traditional direct current motors.

- Rapid acceleration and precise speed control
- Smooth directional changes
- Greater operational availability due to maintenance-free motors without carbon brushes.
- Longer operating times due to energy reclamation during braking.

1-877-JH-FORKS

www.jungheinrich-lift.com

JUNGHEINRICH
Well worthwhile