

Industry-leading performance and efficiency from AC motors with proven Jungheinrich® technology

Precise operation of travel and hydraulics with enhanced multifunction control handle

New rigid mast results in excellent load stability and capacity retention at higher heights

Spacious operator compartment with extensive body padding combines comfort, flexibility and functionality

Informative display panel allows easy assessment of truck performance and condition



ETR 230 / 235 / 340 / 345 / 335d

36 Volt Electric Pantograph Reach Trucks (3,000 - 4,500 lbs.)

The ETR 230 / 235 / 340 / 345 single reach trucks and ETR 335d deep reach trucks boast strong performance – moving more pallets per hour and lowering overall cost of ownership – while keeping operators comfortable and productive.

The key advantages:

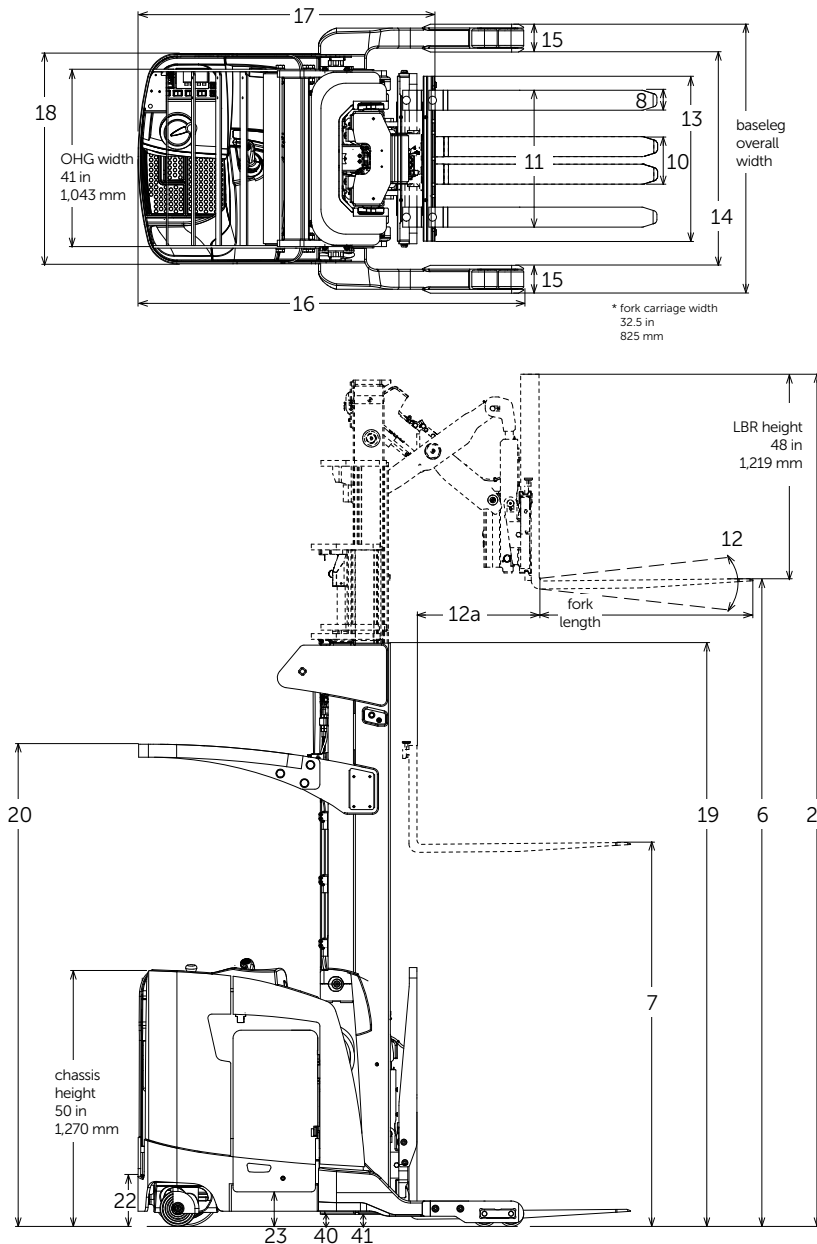
- **Higher performance** – one of the fastest in the industry, the reach truck's hydraulic system reaches a lifting speed of up to 165 feet per minute – helping your operators move more pallets in less time.
- **Greater productivity** – the ETR series can run up to two shifts on one battery charge allowing your operators to get the most out of their workday.
- **Premium ergonomics** – operators are more relaxed and productive largely due to the ergonomic compartment that minimizes operator fatigue. From the low step height, 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.
- **Improved awareness** – the clear operator display shows all the information needed to perform the task at hand. In addition, it allows operators to select from three pre-programmed drive and hydraulic performance modes to customize the truck for a particular application or operator skill level. All information is immediately displayed, contributing to the operator's overall awareness – leading to a more productive work environment.
- **Heavy-duty mast** – the Jungheinrich® ETR series features an enhanced-visibility, heavy-duty mast with durable rollers and mast rails designed to meet your most demanding applications. Combined with cushioning in mast staging functions, operators can precisely and securely position loads at all lift heights.
- **Space-saving design** – these reach trucks deliver greater productivity in any application where space is at a premium. The space-saving design means these trucks can stack and retrieve goods efficiently in narrow aisles and at high lift heights. Operators can also customize the drive and hydraulic settings to suit the application and their level of experience.

ETR 230 / 235

340 / 345 / 335d

Technical Data

as of: 03/2015



Characteristics	Model		ETR 230		ETR 235		ETR 340		ETR 345		ETR 335d	
	Type		Single Reach		Single Reach		Single Reach		Single Reach		Deep Reach	
1	Model		ETR 230		ETR 235		ETR 340		ETR 345		ETR 335d	
2	Type		Single Reach		Single Reach		Single Reach		Single Reach		Deep Reach	
3	Power voltage		36		36		36		36		36	
4	Capacity at rated load center	lb kg	3,000	1,400	3,500	1,600	4,000	1,810	4,500	2,040	3,500	1,580
5	Capacity load center - distance from fork face	in mm	24	600	24	600	24	600	24	600	24	600
6	Maximum fork height	in mm	242	6,145	242	6,145	242	6,145	242	6,145	242	6,145
7	Free fork height	in mm	59	1,500	59	1,500	59	1,500	59	1,500	59	1,500
8	Fork width	in mm	3.9	100	3.9	100	3.9	100	3.9	100	3.9	100
9	Fork thickness	in mm	1.4	35	1.4	35	1.6	40	1.6	40	1.4	35
10	Fork spacing - out-to-out minimum	in mm	12	305	12	305	12	305	12	305	12	305
11	Fork spacing - out-to-out maximum ¹⁾	in mm	31.5	802	31.5	802	31.5	802	31.5	802	31.5	802
12	Tilt angle - forward / backward	deg	3° / 4°		3° / 4°		3° / 4°		3° / 4°		3° / 4°	
12a	Reach stroke	in mm	24	610	24	610	24	610	24	610	42	1,067
13	Mast width ²⁾	in mm	30.2	766	30.2	766	32.2	816	32.2	816	32.2	816
14	Baseleg opening	in mm	33 - 49	839 - 1,245	33 - 49	839 - 1,245	33 - 49	839 - 1,245	33 - 49	839 - 1,245	33 - 49	839 - 1,245
15	Baseleg width ³⁾	in mm	5.5	140	5.5	140	5.5	140	5.5	140	5	127
16	Overall length	in mm	74.1	1,882	76.1	1,932	76.1	1,932	76.1	1,932	78.1	1,983
17	Length to fork face	in mm	52	1,321	55	1,397	55	1,397	55	1,397	62.3	1,582
18	Overall chassis width	in mm	41.5	1,054	41.5	1,054	41.5	1,054	41.5	1,054	41.5	1,054
19	Overall lowered height	in mm	107	2,720	107	2,720	107	2,720	107	2,720	107	2,720
20	Overall height to top of overhead guard	in mm	95	2,413	95	2,413	95	2,413	95	2,413	95	2,413
21	Overall height with extended mast	in mm	290	7,370	290	7,370	290	7,370	290	7,370	290	7,370
22	Step height	in mm	9.8	250	9.8	250	9.8	250	9.8	250	9.8	250
23	Battery roller height	in mm	7	178	7	178	7	178	7	178	7	178
24	Minimum outside turning radius	in mm	68.74	1,746	70.74	1,797	70.74	1,797	70.74	1,797	70.74	1,797
25	Minimum aisle - 90° stack - zero clearance	in mm	Please consult your Jungheinrich dealer									
26	Load wheel centerline ⁴⁾	in mm	5.3	133	5.3	133	5.3	133	5.3	133	5.3	133
27	Grade clearance ⁵⁾	%	13		13		15.5		15.5		15.5	
28	Travel speed loaded/empty - standard ⁶⁾	mph km/h	6.8 / 7.5	11.0 / 12.1	6.8 / 7.5	11.0 / 12.1	7.5 / 7.5	12.1 / 12.1	7.5 / 7.5	12.1 / 12.1	7.5 / 7.5	12.1 / 12.1
29	Travel speed loaded/empty - high performance ⁶⁾	mph km/h	-	-	-	-	7.5 / 8.0	12.1 / 12.9	7.5 / 8.0	12.1 / 12.9	7.5 / 8.0	12.1 / 12.9
30	Lift speed loaded / empty - standard	fpm m/s	100 / 128	0.51 / 0.65	100 / 128	0.51 / 0.65	75 / 120	0.38 / 0.60	75 / 120	0.38 / 0.60	75 / 120	0.38 / 0.60
31	Lift speed loaded / empty - high performance	fpm m/s	-	-	-	-	90 / 165	0.45 / 0.84	90 / 165	0.45 / 0.84	90 / 165	0.45 / 0.84
32	Lower speed loaded / empty - standard	fpm m/s	108 / 108	0.55 / 0.55	108 / 108	0.55 / 0.55	110 / 110	0.55 / 0.55	110 / 110	0.55 / 0.55	110 / 110	0.55 / 0.55
33	Lower speed loaded / empty - high performance	fpm m/s	-	-	-	-	110 / 110	0.55 / 0.55	110 / 110	0.55 / 0.55	110 / 110	0.55 / 0.55
34	Gradeability - loaded / empty - maximum	%	9 / 9		9 / 9		9 / 9		9 / 9		9 / 9	
35	Truck weight - empty - without battery	lb kg	6,850	3,100	6,850	3,100	7,050	3,200	7,050	3,200	7,400	3,350
36	Battery weight - min	lb kg	1,800	910	1,800	910	2,000	910	2,000	910	2,000	910
37	Battery weight - max	lb kg	2,300	1,050	2,300	1,050	2,300	1,050	2,300	1,050	2,300	1,050
38	Chassis type (stand/sit)		Stand		Stand		Stand		Stand		Stand	
39	Wheelbase	in mm	59.5	1,511	61.5	1,562	61.5	1,562	61.5	1,562	61.5	1,562
40	Ground clearance - center of wheelbase	in mm	2.4	61	2.4	61	2.4	61	2.4	61	2.4	61
41	Ground clearance - lowest point at mast	in mm	2.4	61	2.4	61	2.4	61	2.4	61	2.4	61
42	Tire size - steer	in mm	13.5 x 5.5	343 x 140	13.5 x 5.5	343 x 140	13.5 x 5.5	343 x 140	13.5 x 5.5	343 x 140	13.5 x 5.5	343 x 140
43	Tire size - caster	in mm	7 x 4	180 x 100	7 x 4	180 x 100	7 x 4	180 x 100	7 x 4	180 x 100	7 x 4	180 x 100
44	Tire size - load wheels	in mm	5 x 3.62	127 x 92	5 x 3.62	127 x 92	5 x 3.62	127 x 92	5 x 3.62	127 x 92	5 x 3.62	127 x 92
45	Brake type		Electromagnetic Disc		Electromagnetic Disc		Electromagnetic Disc		Electromagnetic Disc		Electromagnetic Disc	
46	Traction / pump / steer motor type		AC Induction		AC Induction		AC Induction		AC Induction		AC Induction	
47	Traction motor output (60 minute rating) - standard	hp kW	6.0	4.5	6.0	4.5	6.0	4.5	6.0	4.5	6.0	4.5
48	Traction motor output (60 minute rating) - high performance	hp kW	-	-	-	-	9.2	6.9	9.2	6.9	9.2	6.9
49	Pump motor output (5 minute rating)	hp kW	27.2	20	27.2	20	27.2	20	27.2	20	27.2	20
50	Steer motor output (60 minute rating)	hp kW	1.0	0.7	1.0	0.7	1.0	0.7	1.0	0.7	1.0	0.7
51	Battery maximum capacity - (6 hour rating)	A/H	1,120		1,120		1,120		1,120		1,120	
52	Battery compartment length ⁷⁾	in mm	14.25	362	16.25	413	16.25	413	16.25	413	16.25	413
53	Battery compartment width	in mm	38.42	976	38.42	976	38.42	976	38.42	976	38.42	976
54	Battery compartment height	in mm	31.65	804	31.65	804	31.65	804	31.65	804	31.65	804

1) Maximum fork spacing 27.5 inches (698 mm) with 33 inch BLO.
 2) Out-to-out dimension across mast outer channels.
 3) 5.9 inches (150 mm) on single reach trucks with MFH over 332 inches (8430 mm).
 4) 7.3 inches (186 mm) on single reach trucks with mast MFH above 332 inches (8430 mm).
 5) Reduce grade clearance by 1.5% with 18.25 inch (463 mm) battery compartment length or 21.25 inch (539 mm) battery compartment length vs. 16.25 inch (412 mm) length.
 6) Maximum speed attainable, after break-in period, varies with truck travel direction, weight, rolling resistance, mast height, options and battery condition.
 7) 21.25 inch (539 mm) battery compartment length standard on chassis with MFH over 332 inches (8430 mm).

The Jungheinrich Advantage

Enhanced visibility, heavy-duty mast

Jungheinrich masts provide excellent visibility to high lift heights.

- The sturdy mast and narrow, angled overhead guard promote excellent visibility to the load even in high stacking applications.
- The hydraulic mast cushioning and mast staging functions mean loads are handled smoothly.
- Shim-adjustable canted mast rollers.
- Heavy, interlocking mast rails.
- Optional integral sideshifter helps improve maneuverability.
- Fork heights up to 450 inches.



Overhead guard visibility

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.
- Highly-informative display provides all essential information needed for the operator to stay productive.
- Anti-fatigue floor mat and generous padding for knees, hips, back and armrest.
- Storage space for operator's equipment, paperwork and materials.

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 auxiliary hydraulic functions.
- Rounded palm rest helps reduce operator fatigue over long shifts.



Multifunction control handle

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 and information requests can be performed with easily accessible buttons.



Operator compartment

Operator control panel

The easy-to-read control panel displays the information the operator needs to perform daily tasks.

- Battery discharge indicator
- 180° / 360° steer direction indicator
- Parking brake indicator
- Clock
- Hour meter
- Performance mode selector (1-3)

Powerful Jungheinrich 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 uptime due to maintenance-free motors without carbon brushes.
- Longer operating times due to energy reclamation during braking.

Parts when you need them

Jungheinrich's Parts Fast or Parts Free Guarantee ensures next-business-day delivery by 5:00 PM of all Jungheinrich parts in the United States, or they're free, including freight. For customers in Canada and Mexico, the guarantee ensures shipping of parts within 24 hours from the time the order was placed by the dealer. See your local Jungheinrich dealer for program details.

* Programs may be subject to change without notice and may vary by region. Please ask your local Jungheinrich dealer for complete terms and conditions.



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