

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:

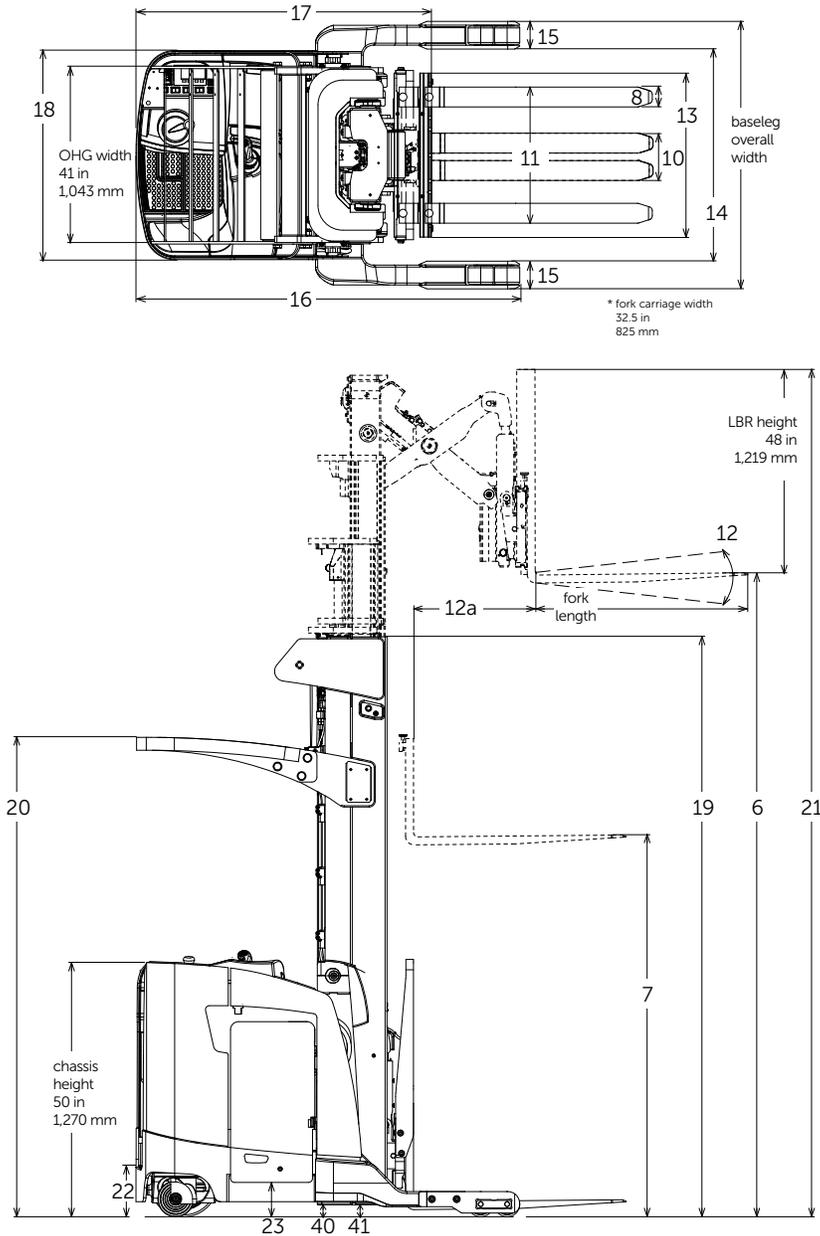
- **Higher performance** – one of the fastest in the industry, the reach truck's hydraulic system reaches a lifting speed of up to 165 feet per minute – helping your operators move more pallets in less time.
- **Greater productivity** – the ETR series can run up to two shifts on one battery charge, helping your operators 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 entry and exit step, to the intuitive, multifunctional control handle, there are several standard features that make this well-designed reach truck beneficial for the operator. Productivity can be just as high in the last hour of the shift as in the first.
- **Improved awareness** – All information is immediately accessible on the easy-to-read operator display – contributing to the operator's overall awareness. Operators can also select from three pre-programmed drive and hydraulic performance modes, allowing them to customize the truck for a particular application or operator skill level.

- **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 applications where space is at a premium. Featuring a space-saving design, this series can stack and retrieve goods efficiently in both 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

Characteristics	1	Model
	2	Type
	3	Power voltage
	4	Capacity at rated load center
	5	Capacity load center – distance from fork face
Dimensions	6	Maximum fork height
	7	Free fork height
	8	Fork width
	9	Fork thickness
	10	Fork spacing - out-to-out minimum
	11	Fork spacing - out-to-out maximum ¹⁾
	12	Tilt angle - forward / backward
	12a	Reach stroke
	13	Mast width ²⁾
	14	Baseleg opening
	15	Baseleg width ³⁾
	16	Overall length
	17	Length to fork face
	18	Overall chassis width
	19	Overall lowered height
	20	Overall height to top of overhead guard
	21	Overall height with extended mast
22	Step height	
23	Battery roller height	
24	Minimum outside turning radius	
25	Minimum aisle - 90° stack - zero clearance	
26	Load wheel centerline ⁴⁾	
Performance	27	Grade clearance ⁵⁾
	28	Travel speed loaded/empty – standard ⁶⁾
	29	Travel speed loaded /empty – high performance ⁶⁾
	30	Lift speed loaded / empty – standard
	31	Lift speed loaded / empty – high performance
	32	Lower speed loaded / empty – standard
	33	Lower speed loaded / empty – high performance
	34	Gradeability - loaded / empty - maximum
Weight	35	Truck weight - empty - without battery
	36	Battery weight - min
	37	Battery weight - max
Wheels, Chassis	38	Chassis type (stand/sit)
	39	Wheelbase
	40	Ground clearance - center of wheelbase
	41	Ground clearance - lowest point at mast
	42	Tire size - steer
	43	Tire size - caster
	44	Tire size - load wheels
45	Brake type	
Motors	46	Traction / pump / steer motor type
	47	Traction motor output (60 minute rating) – standard
	48	Traction motor output (60 minute rating) – high performance
	49	Pump motor output (5 minute rating)
	50	Steer motor output (60 minute rating)
Other	51	Battery maximum capacity - (6 hour rating)
	52	Battery compartment length ⁷⁾
	53	Battery compartment width
	54	Battery compartment height

		ETR 230		ETR 235		ETR 340		ETR 345		ETR 335d	
		Single Reach		Single Reach		Single Reach		Single Reach		Deep Reach	
		36		36		36		36		36	
lb	kg	3,000	1,400	3,500	1,600	4,000	1,810	4,500	2,040	3,500	1,580
in	mm	24	600	24	600	24	600	24	600	24	600
in	mm	242	6,145	242	6,145	242	6,145	242	6,145	242	6,145
in	mm	59	1,500	59	1,500	59	1,500	59	1,500	59	1,500
in	mm	3.9	100	3.9	100	3.9	100	3.9	100	3.9	100
in	mm	1.4	35	1.4	35	1.6	40	1.6	40	1.4	35
in	mm	12	305	12	305	12	305	12	305	12	305
in	mm	31.5	802	31.5	802	31.5	802	31.5	802	31.5	802
deg		3° / 4°		3° / 4°		3° / 4°		3° / 4°		3° / 4°	
in	mm	24	610	24	610	24	610	24	610	42	1,067
in	mm	30.2	766	30.2	766	32.2	816	32.2	816	32.2	816
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
in	mm	5.5	140	5.5	140	5.5	140	5.5	140	5	127
in	mm	74.1	1,882	76.1	1,932	76.1	1,932	76.1	1,932	78.1	1,983
in	mm	52	1,321	55	1,397	55	1,397	55	1,397	62.3	1,582
in	mm	41.5	1,054	41.5	1,054	41.5	1,054	41.5	1,054	41.5	1,054
in	mm	107	2,720	107	2,720	107	2,720	107	2,720	107	2,720
in	mm	95	2,413	95	2,413	95	2,413	95	2,413	95	2,413
in	mm	290	7,370	290	7,370	290	7,370	290	7,370	290	7,370
in	mm	9.8	250	9.8	250	9.8	250	9.8	250	9.8	250
in	mm	7	178	7	178	7	178	7	178	7	178
in	mm	68.74	1,746	70.74	1,797	70.74	1,797	70.74	1,797	70.74	1,797
Please consult your Jungheinrich dealer											
in	mm	5.3	133	5.3	133	5.3	133	5.3	133	5.3	133
%		13		13		15.5		15.5		15.5	
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
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
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
fpm	m/s	-	-	-	-	90 / 165	0.45 / 0.84	90 / 165	0.45 / 0.84	90 / 165	0.45 / 0.84
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
fpm	m/s	-	-	-	-	110 / 110	0.55 / 0.55	110 / 110	0.55 / 0.55	110 / 110	0.55 / 0.55
%		9 / 9		9 / 9		9 / 9		9 / 9		9 / 9	
lb	kg	6,850	3,100	6,850	3,100	7,050	3,200	7,050	3,200	7,400	3,350
lb	kg	1,800	910	1,800	910	2,000	910	2,000	910	2,000	910
lb	kg	2,300	1,050	2,300	1,050	2,300	1,050	2,300	1,050	2,300	1,050
		Stand		Stand		Stand		Stand		Stand	
in	mm	59.5	1,511	61.5	1,562	61.5	1,562	61.5	1,562	61.5	1,562
in	mm	2.4	61	2.4	61	2.4	61	2.4	61	2.4	61
in	mm	2.4	61	2.4	61	2.4	61	2.4	61	2.4	61
in	mm	13.5 x 5.5	343 x 140								
in	mm	7 x 4	180 x 100								
in	mm	5 x 3.62	127 x 92								
		Electromagnetic Disc		Electromagnetic Disc		Electromagnetic Disc		Electromagnetic Disc		Electromagnetic Disc	
		AC Induction		AC Induction		AC Induction		AC Induction		AC Induction	
hp	kW	6.0	4.5	6.0	4.5	6.0	4.5	6.0	4.5	6.0	4.5
hp	kW	-	-	-	-	9.2	6.9	9.2	6.9	9.2	6.9
hp	kW	27.2	20	27.2	20	27.2	20	27.2	20	27.2	20
hp	kW	1.0	0.7	1.0	0.7	1.0	0.7	1.0	0.7	1.0	0.7
A/H		1,120		1,120		1,120		1,120		1,120	
in	mm	14.25	362	16.25	413	16.25	413	16.25	413	16.25	413
in	mm	38.42	976	38.42	976	38.42	976	38.42	976	38.42	976
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 smooth mast staging and mast cushioning improve overall material handling performance by reducing the risk of damaging loads, racks and surroundings.
- Shim-adjustable canted mast rollers.
- Heavy, interlocking mast rails.
- Optional integral sidershifter 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 the operator with vital information to remain productive throughout the shift.
- 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 the reach truck's drive and hydraulic settings based on your 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 display panel provides the operator with key information to complete his day-to-day 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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