Runs 2 Shifts on 1 Battery Charge - Guaranteed on select models

Precise operation of travel and hydraulics with enhanced multifunction control handle options

Rigid mast allows for excellent load stability and capacity retention at higher heights

Spacious operator compartment, with sit-down operation capability, and extensive body padding for comfort, flexibility and functionality

Informative LCD premium display panel

ETR 420 / 416d

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

The ETR 420 single reach trucks and ETR 416d deep reach trucks boast superior performance – increasing hourly throughput and lowering overall cost of ownership – while keeping operators comfortable and productive.

• **High energy efficiency –** Run two shifts on one battery charge – The industry-exclusive Jungheinrrich "2 Shifts, 1 Charge" program guarantees that the ETR series will run for two full shifts on one battery charge on select models – with no interim charging, no battery changing and no additional charging equipment needed.

The key advantages:

- **Exceptional performance** – These reach trucks' hydraulic system can reach lifting speeds of up to 160 feet per minute, one of the fastest in the industry, allowing operators to move more product in less time.
- **Increased throughput** – 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** – With a cabin that promotes operator relaxation and productivity, fatigue is greatly minimized. From being able to operate the truck in a sit-down position, to the low entry and exit step, to the intuitive, multifunctional control handles, there are several standard features that make this well-designed reach truck ideal for the operator. The steering column is similar to the ones used in our lineup of moving mast reach trucks, providing additional adjustment capabilities for enhanced comfort. Productivity can be just as high in the last hour of the shift as in the first.
- **Enhanced awareness** – All information is immediately accessible on the easy-to-read LCD operator display. Operators have three pre-programmed drive and hydraulic performance modes to choose from, 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, securely and confidently position loads at all lift heights.
- **Maneuverability** – even with a slightly wider chassis than our traditional stand-up reach trucks, these reach trucks deliver greater productivity in applications where space is at a premium, such as 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, ultimately making it easier to maneuver the machine.

JUNGHEINRICH®

Technical Data

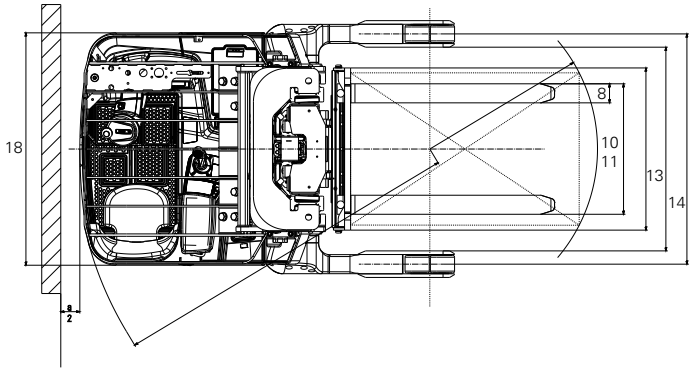
Characteristics	1	Model			ETR 420		ETR 416d	
	2	Type			**Single Reach**		**Deep Reach**	
	3	Power voltage			36		36	
	4	Capacity at rated load center	lb	*kg*	4,500	*2,000*	3,500	*1,600*
	5	Capacity load center – distance from fork face	in	*mm*	24	*600*	24	*600*
Dimensions	6	Maximum fork height	in	*mm*	450	*11,430*	450	*11,430*
	7	Free fork height	in	*mm*	59	*1,500*	59	*1,500*
	8	Fork width	in	*mm*	3.9	*100*	3.9	*100*
	9	Fork thickness	in	*mm*	1.6	*40*	1.6	*40*
	10	Fork spacing - out-to-out minimum	in	*mm*	14.2	*360*	14.2	*360*
	11	Fork spacing - out-to-out maximum [1]	in	*mm*	32.5	*825*	32.5	*825*
	12	Tilt angle - forward / backward	deg		3° / 4°		3° / 4°	
	12a	Reach stroke	in	*mm*	24	*610*	42	*1,067*
	13	Carriage width [2]	in	*mm*	32.5	*825*	32.5	*825*
	14	Baseleg opening	in	*mm*	33-49	*839-1,245*	33-49	*839-1,245*
	15	Baseleg width [3]	in	*mm*	5.5	*140*	5.5	*140*
	16	Overall length	in	*mm*	77.4	*1,967*	79.4	*2,018*
	17	Length to fork face	in	*mm*	56.0	*1,422*	63.3	*1,607*
	18	Overall chassis width	in	*mm*	48	*1,220*	48	*1,220*
	19	Overall lowered height	in	*mm*	107	*2,720*	107	*2,720*
	20	Overall height to top of overhead guard	in	*mm*	92.5	*2,349*	92.5	*2,349*
	21	Overall height with extended mast	in	*mm*	290	*7,370*	290	*7,370*
	22	Step height	in	*mm*	9.8	*250*	9.8	*250*
	23	Battery roller height	in	*mm*	7	*178*	7	*178*
	24	Minimum outside turning radius	in	*mm*	73.1	*1,858*	73.1	*1,858*
	25	Minimum aisle - 90° stack - zero clearance	in	*mm*	Please consult your Jungheinrich dealer			
Performance	27	Grade clearance [5]	%		14		14	
	28	Travel speed loaded/empty [6]	mph	*km/h*	7.5 / 8.0	*12.1 / 12.9*	7.5 / 8.0	*12.1 / 12.9*
	30	Lift speed loaded / empty	fpm	*m/s*	90 / 165	*0.45 / 0.86*	90 / 165	*0.45 / 0.86*
	32	Lower speed loaded / empty	fpm	*m/s*	110 / 110	*0.55 / 0.55*	110 / 110	*0.55 / 0.55*
	34	Gradeability - loaded / empty - maximum	%		9 / 10		9/ 10	
Weight	35	Truck weight - empty - without battery	lb	*kg*	7,050	*3,200*	7,400	*3,350*
	36	Battery weight - min	lb	*kg*	2,000	*910*	2,000	*910*
	37	Battery weight - max	lb	*kg*	2,300	*1,050*	2,300	*1,050*
Wheels, Chassis	38	Chassis type (stand/sit)			Sit / Stand		Sit / Stand	
	39	Wheelbase	in	*mm*	62.9	*1,597*	62.9	*1,597*
	40	Ground clearance - center of wheelbase	in	*mm*	2.4	*61*	2.4	*61*
	41	Ground clearance - lowest point at mast	in	*mm*	2.4	*61*	2.4	*61*
	42	Tire size - steer	in	*mm*	13.5 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*
	44	Tire size - load wheels	in	*mm*	5 x 3.62	*127 x 92*	5 x 3.62	*127 x 92*
	45	Brake type			Electromagnetic Disc		Electromagnetic Disc	
Motors	46	Traction / pump / steer motor type			AC Induction		AC Induction	
	47	Traction motor output (60 minute rating)	hp	*kW*	9.2	*6.9*	9.2	*6.9*
	49	Pump motor output (5 minute rating)	hp	*kW*	*27.2*	*20*	*27.2*	*20*
	50	Steer motor output (60 minute rating)	hp	*kW*	1.0	*0.7*	1.0	*0.7*
Other	51	Battery maximum capacity - (6 hour rating)	A/H		1,120		1,120	
	52	Battery compartment length [7]	in	*mm*	16.25	*413*	16.25	*413*
	53	Battery compartment width	in	*mm*	38.86	*987*	38.86	*987*
	54	Battery compartment height	in	*mm*	34.17	*868*	34.17	*868*

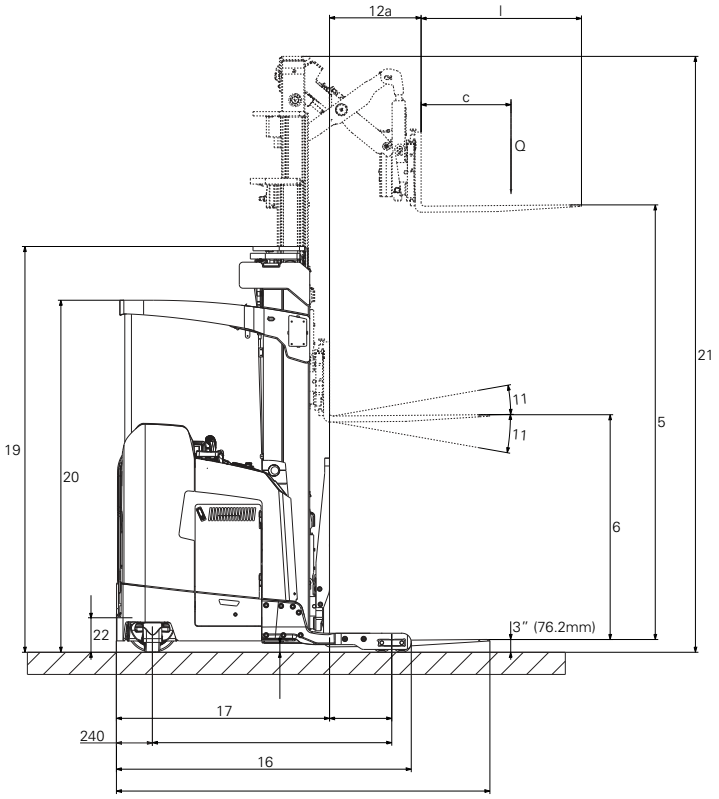
1) Maximum fork spacing 27.5 inches (698 mm) with 33 inch BLO.
2) Out-to-out dimension across mast outer channels.
3) 5.9 inches (150 mm) on single reach trucks with MFH over 332 inches (8430 mm).
4) 7.3 inches (186 mm) on single reach trucks with mast MFH above 332 inches (8430 mm).
5) Reduce grade 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).

This specification sheet only provides technical values for the standard truck. Non-standard tires, different masts, additional equipment, etc., could produce other values.
Rights reserved for technical changes and improvements.

as of: 06/2021

ETR 420 / 416d





Add 9.1 in (230mm) for extended operator backrest

Note: Equipping this model (these models) with a power source (e.g. Lithium-ion, Hydrogen Fuel cell, etc.) that has not been previously approved by the factory is considered a modification. Per OSHA 1910.178 and ANSI/ITSDF B56.1, please consult with your factory representative prior to installing any non-OEM power source that has not been previously approved.

The Jungheinrich Advantage

Overhead guard visibility

Excellent visibility, heavy-duty mast

Jungheinrich masts provide excellent visibility and residual capacities to high lift heights.

- The strong mast and narrow, angled overhead guard promote excellent visibility to the load even in high stacking applications.
- The smooth mast staging and mast cushioning mechanism 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 sideshifter helps improve maneuverability.
- Fork heights up to 450 inches.

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 and less wear components.
- Longer operating times due to energy reclamation during braking.

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.

Multifunction control handle

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.
- Optional horizontal multifunction ECHO control handle available for added flexibility and operating preference.

Lithium-Ion Availability:

- Greater power efficiency
- Run for 24 hours a day, 7 days a week with opportunity charging
- Zero battery maintenance
- No watering
- No more battery exchanges
- No gas emissions, odor or acidification
- No special charging areas or equipment needed
- Longer lasting life cycles (up to 3,000)
- 5-year warranty on batteries
- 2-year warranty on chargers

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)

Operator compartment

Spacious and ergonomic operator compartment

The spacious, slightly wider than the traditional operator compartment, combines comfort and functionality to improve operator efficiency.

- Location of operator controls allows for a flexible side stance position or sit-down operation within the compartment.
- Dual operator pedals allow for standing or sit-down operation.
- Low-effort electric power steering for precise control with minimal effort.
- Highly-informative display provides the operator with vital information at just a quick glance.
- Anti-fatigue floor mat and generous padding for knees, hips, back and armrest.
- Storage space for operator's equipment, paperwork and materials.

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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