

Powerful and efficient 3-phase
AC drive, lift and steer control

Ergonomic and spacious operator
compartment

Compact design for maximum
maneuverability

The right performance package for
your business



ETV / ETM 214 / 216

Sit-Down Moving Mast Reach Truck (3,000 / 3,500 lbs.)

The ETV / ETM 214 / 216 reach trucks offer the right solution for a wide range of applications. What features are most important to your business?

- **Performance** – Can drive up to 8.7 mph¹⁾ (loaded or unloaded) with excellent acceleration characteristics.
- **Energy efficient** – Jungheinrich® 4th generation AC technology allows for up to two shifts on a single battery charge.
- **Outstanding residual capacities** – With lift heights over 35 feet, this truck can reach your tallest racks and can typically retain full capacity over 27 feet (depending on the reach truck configuration).

Premium ergonomics come standard with our moving mast reach trucks. This includes:

- Spacious, highly-adjustable operator compartment suitable for a wide range of operators.
- Automotive-style drive pedals allow for intuitive operation.
- The soloPILOT and multiPILOT control handles are both ergonomic and highly productive.
- The driving direction switch is a different color for better visibility. The horn button is integrated in the front area for faster operation. The optional acknowledgement button for clamped attachments is integrated for easy and fast operation.

- curveCONTROL, which provides automatic speed reduction during cornering, provides the operator with confidence while driving the reach truck, particularly when working in confined areas.

¹⁾ With drivePLUS Option. Refer to specification sheet for standard drive speeds.

Technical data

| Characteristics | 1.1 Manufacturer | | | Jungheinrich | | Jungheinrich | | Jungheinrich | | | | |
|-----------------------------|---|---|-----|--------------------------------|----------|----------------|-------------------------------------|-------------------------|-------------------------------------|-------------------------|-------------------------------------|-------------------------|
| | 1.2 Model | | | ETM 214 | | ETV 214 | | ETM216 | | | | |
| Weights | G = fork, E = integrated sideshift | | | GE | | GE | | GE | | | | |
| | 1.3 Drive | | | electric | | electric | | electric | | | | |
| | 1.4 Type of operation | | | seated | | seated | | seated | | | | |
| | 1.5 Load capacity/rated load | Q | lbs | kg | 3,000 | 1,380 | 3,000 | 1,380 | 3,500 | 1,580 | | |
| | 1.6 Load center distance | c | in | mm | 24 | 610 | 24 | 610 | 24 | 610 | | |
| Wheels, Chassis | 1.8 Load distance, center of drive axle to fork | | | x | in | mm | 13.6 ¹⁾ | 345 ¹⁾ | 16.4 ¹⁾ | 417 ¹⁾ | 15.6 ¹⁾ | 395 ¹⁾ |
| | Mast pushed forward | | | x ₁ | in | mm | 8.1 | 205 | 8.1 | 205 | 8.1 | 205 |
| | 1.9 Wheelbase | | | y | in | mm | 55.5 | 1,410 | 55.5 | 1,410 | 57.5 | 1,460 |
| Dimensions | 2.1 Service weight including battery (see line 6.5) | | | | lbs | kg | 6,545 | 2,975 | 6,600 | 3,000 | 6,842 | 3,110 |
| | 2.3 Axle loading: unloaded, drive/load | | | | lbs | kg | 3,935 / 2,623 | 1,785 / 1,190 | 4,034 / 2,574 | 1,830 / 1,170 | 4,045 / 2,811 | 1,835 / 1,275 |
| | 2.4 Axle loading: fork advanced, loaded drive/load | | | | lbs | kg | 1,060 / 8,585 | 481 / 3,894 | 1,262 / 8,440 | 572 / 3,828 | 1,142 / 9,242 | 518 / 4,192 |
| | 2.5 Axle loading: fork retracted, loaded drive/load | | | | lbs | kg | 3,376 / 6,270 | 1,531 / 2,844 | 3,590 / 6,112 | 1,628 / 2,772 | 3,636 / 6,749 | 1,649 / 3,061 |
| Performance | 3.1 Tires | | | Vulkollan® | | Vulkollan® | | Vulkollan® | | | | |
| | 3.2 Tire size, drive | | | | in | mm | 13.5 x 4.5 | 343 x 114 | 13.5 x 4.5 | 343 x 114 | 13.5 x 4.5 | 343 x 144 |
| | 3.3 Tire size, load | | | | in | mm | 11.2 x 3.9 | 285 x 100 | 11.2 x 3.9 | 285 x 100 | 11.2 x 3.9 | 285 x 100 |
| | 3.5 Wheels – number, drive / load (x = driven wheels) | | | | | | 1x / 2 | | 1x / 2 | | 1x / 2 | |
| | 3.7 Track width, load side | | | b ₁₁ | in | mm | 38.8 | 986 | 44.7 | 1,136 | 38.8 | 986 |
| | 4.1 Mast – fork carriage tilt, forward/backward | | | degrees | | | 1 / 3 ²⁾ | | 1 / 3 ²⁾ | | 1 / 3 ²⁾ | |
| | 4.2 Collapsed mast height | | | h ₁ | in | mm | 103 | 2,600 | 103 | 2,600 | 103 | 2,600 |
| Motors | 4.3 Free-lift | | | h ₂ | in | mm | 61 ⁷⁾ | 1,956 | 61 ⁷⁾ | 1,956 | 61 ⁷⁾ | 1,956 |
| | 4.4 Maximum fork height (MFH) | | | h ₃ | in | mm | 244 | 6,200 | 244 | 6,200 | 244 | 6,200 |
| | 4.5 Overall extended height (OAE) | | | h ₄ | in | mm | 309 | 6,844 | 309 | 6,844 | 309 | 6,844 |
| | 4.7 Overhead load guard (cab) height | | | h ₆ | in | mm | 86.3 | 2,190 | 86.3 | 2,190 | 86.3 | 2,190 |
| | 4.8 Seat height | | | h ₇ | in | mm | 37.8 | 960 | 37.8 | 960 | 37.8 | 960 |
| | 4.10 Height of wheel arms | | | h ₈ | in | mm | 12.5 | 315 | 12.5 | 315 | 12.5 | 315 |
| | 4.19 Overall length | | | l ₁ | in | mm | 95.2 ¹⁾ | 2,418 ¹⁾ | 92.4 ¹⁾ | 2,346 ¹⁾ | 95.2 ¹⁾ | 2,418 ¹⁾ |
| | 4.20 Length to fork face, headlength | | | l ₂ | in | mm | 50.0 ¹⁾ | 1,268 ¹⁾ | 47.1 ¹⁾ | 1,196 ¹⁾ | 50.0 ¹⁾ | 1,268 ¹⁾ |
| | 4.21 Overall width | | | b ₁ /b ₂ | in | mm | 44.1 / 44.1 | 1,120 / 1,120 | 50 / 50 | 1,270 / 1,270 | 44.1 / 44.1 | 1,120 / 1,120 |
| | 4.22 Fork dimensions, thick/width | | | s/e/l | in | mm | 1.6 / 4.7 / 45.3 | 40 / 120 / 1,150 | 1.6 / 4.7 / 45.3 | 40 / 120 / 1,150 | 1.6 / 4.7 / 45.3 | 40 / 120 / 1,150 |
| | 4.23 Fork carriage, ISO class/type A, B | | | | | | 2 / B | | 2 / B | | 2 / B | |
| | 4.24 Fork carriage width | | | b ₃ | in | mm | 32.7 | 830 | 32.7 | 830 | 32.7 | 830 |
| | 4.25 Overall fork width | | | b ₅ | in | mm | 13.2 / 22.1 | 335 / 560 | 13.2 / 28.7 | 335 / 730 | 13.2 / 22.1 | 335 / 560 |
| | 4.26 Distance from wheel arms/loading surfaces | | | b ₄ | in | mm | 30.7 | 782 | 37 | 942 | 30.7 | 782 |
| Other Details | 4.32 Ground clearance, center of wheelbase | | | m ₂ | in | mm | 3.14 | 80 | 3.14 | 80 | 3.14 | 80 |
| | 4.33 Aisle width (for 48 x 40 pallets) | | | Ast | in | mm | 111 ³⁾ | 2,819 ³⁾ | 111 ³⁾ | 2,819 ³⁾ | 112 ³⁾ | 2,845 ³⁾ |
| | 4.37 Length to tip of outrigger | | | l ₇ | in | mm | 70.6 | 1,792 | 70.6 | 1,792 | 72.5 | 1,842 |
| | 5.1 Travel speed, loaded/unloaded | | | | mph | kph | 6.8-8.7 ⁵⁾ | 11-14 ³⁾ | 6.8-8.7 ⁵⁾ | 11-14 ³⁾ | 6.8 - 8.7 ⁵⁾ | 11 - 14 ³⁾ |
| | 5.2 Lift speed, loaded | | | | ft / min | m / s | 74.8-100.4 ⁶⁾ | 0.38-0.51 ⁴⁾ | 74.8-100.4 ⁶⁾ | 0.38-0.51 ⁴⁾ | 68.9-94.5 ⁶⁾ | 0.35-0.48 ⁴⁾ |
| Mast | Lift speed, unloaded | | | | ft / min | m / s | 137.8 ⁶⁾ | 0.070 ⁴⁾ | 137.8 ⁶⁾ | 0.070 ⁴⁾ | 137.8 ⁶⁾ | 0.070 ⁴⁾ |
| | 5.3 Lowering speed, loaded/unloaded | | | | ft / min | m / s | 108.3 | 0.55 | 108.3 | 0.55 | 108.3 | 0.55 |
| | 5.4 Reach speed, loaded/unloaded | | | | ft / min | m / s | 39.4-47.2 ⁶⁾ | 0.20-0.24 ⁴⁾ | 39.4-47.2 ⁶⁾ | 0.20-0.24 ⁴⁾ | 39.4-47.2 ⁶⁾ | 0.20-0.24 ⁴⁾ |
| | 5.7 Gradeability, loaded/unloaded | | | | | % | 9 / 13 | | 9 / 13 | | 8 / 12 | |
| | 5.8 Maximum gradeability, loaded/unloaded | | | | | % | 10 / 15 | | 10 / 15 | | 10 / 15 | |
| | 5.9 Acceleration time, loaded/unloaded | | | | | sec | 5.1-4.6 / 4.8-4.3 ³⁾ | | 5.1-4.6 / 4.8-4.3 ³⁾ | | 5.1-4.6 / 4.8-4.3 ³⁾ | |
| | 5.10 Service brake | | | | | | electric | | electric | | electric | |
| | 6.1 Drive motor (rating S ₂ 60 minutes) | | | | | kW / hp | 6.0-8.5 / 8.0-11.4 ⁵⁾ | | 6.0-8.5 / 8.0-11.4 ⁵⁾ | | 6.0-8.5 / 8.0-11.4 ⁵⁾ | |
| | 6.2 Lift motor rating at S ₃ 15% | | | | | kW / hp | 13.3-15.5 / 17.8-20.8 ⁶⁾ | | 13.3-15.5 / 17.8-20.8 ⁶⁾ | | 13.3-15.5 / 17.8-20.8 ⁶⁾ | |
| | 6.4 Battery voltage | | | | | V | 48 | 500 | 48 | 500 | 48 | 500 ¹⁾ |
| 6.5 Battery weight, minimum | | | | | lbs | 1,653 | 750 | 1,653 | 750 | 1,653 | 750 | |
| Battery dimensions, l/w/h | | | | | in | 40.7/13.9/31.0 | 1,035/353/787 | 48.1/11.1/31.0 | 1,223/283/787 | 40.7/13.9/31.0 | 1,035/353/787 | |
| Other Details | 8.1 Type of drive control | | | | | | impulse / AC | | impulse / AC | | impulse / AC | |
| | 8.2 Operating pressure for attachments | | | | psi | bar | 2,176 | 150 | 2,176 | 150 | 2,176 | 150 |
| | 8.3 Oil volume for attachments | | | | gal/min | l/min | 5.3 | 20 | 5.3 | 20 | 5.3 | 20 |
| | 8.4 Sound level at driver's ear | | | | | dB (A) | 68 | | 68 | | 68 | |

1) Other battery sizes change these values

2) Dependent on type of mast

3) Including 8 inch (200 mm) maneuvering space; second value is for floor storage

4) Lift height up to 220.5 inches

5) Second value for "Drive Plus" option

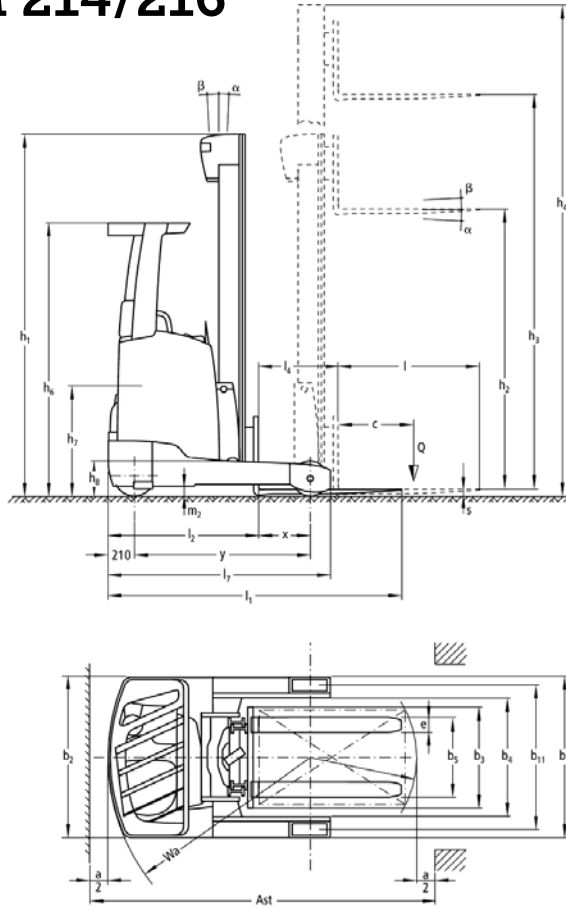
6) Second value for "Lift Plus" option

7) Includes load backrest of 39.5 inches / 1,000 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.

ETV/ETM 214/216

| | | |
|------|-------------------------------------|-------------------------|
| 1.1 | Jungheinrich | |
| 1.2 | ETV 216 | |
| | GE | |
| 1.3 | electric | |
| 1.4 | seated | |
| 1.5 | 3,500 | 1,580 |
| 1.6 | 24 | 610 |
| 1.8 | 15.6 ¹⁾ | 396 ¹⁾ |
| | 8.1 | 205 |
| 1.9 | 57.5 | 1,460 |
| 2.1 | 6,899 | 3,136 |
| 2.3 | 4,149 / 2,765 | 1,882 / 1,254 |
| 2.4 | 1,149 / 9,293 | 521 / 4,215 |
| 2.5 | 3,656 / 6,786 | 1,658 / 3,078 |
| 3.1 | Vulkollan® | |
| 3.2 | 13.5 x 4.5 | 343 x 144 |
| 3.3 | 11.2 x 3.9 | 285 x 100 |
| 3.5 | 1x / 2 | |
| 3.7 | 44.7 | 1,136 |
| 4.1 | 1 / 3 ²⁾ | |
| 4.2 | 103 | 2,600 |
| 4.3 | 61 ⁷⁾ | 1,956 |
| 4.4 | 244 | 6,200 |
| 4.5 | 309 | 6,844 |
| 4.7 | 86.3 | 2,190 |
| 4.8 | 37.8 | 960 |
| 4.10 | 12.5 | 315 |
| 4.19 | 95.2 ¹⁾ | 2,418 ¹⁾ |
| 4.20 | 50.0 ¹⁾ | 1,268 ¹⁾ |
| 4.21 | 50 / 50 | 1,270 / 1,270 |
| 4.22 | 1.6 / 4.7 / 45.3 | 40 / 120 / 1,150 |
| 4.23 | 2 / B | |
| 4.24 | 32.7 | 830 |
| 4.25 | 13.2 / 28.7 | 335 / 730 |
| 4.26 | 37 | 942 |
| 4.32 | 3.14 | 80 |
| 4.33 | 12 ³⁾ | 2,845 ³⁾ |
| 4.37 | 72.5 | 1,842 |
| 5.1 | 6.8 - 8.7 ⁵⁾ | 11 - 14 ³⁾ |
| 5.2 | 68.9-94.5 ⁶⁾ | 0.35-0.48 ⁴⁾ |
| | 137.8 ⁶⁾ | 0.070 ⁴⁾ |
| 5.3 | 108.3 | 0.55 |
| 5.4 | 39.4-47.2 ⁶⁾ | 0.20-0.24 ⁴⁾ |
| 5.7 | 8 / 12 | |
| 5.8 | 10 / 15 | |
| 5.9 | 5.1-4.6 / 4.8-4.3 ³⁾ | |
| 5.10 | electric | |
| 6.1 | 6.0-8.5 / 8.0-11.4 ⁵⁾ | |
| 6.2 | 13.3-15.5 / 17.8-20.8 ⁶⁾ | |
| 6.4 | 48 | 500 ¹⁾ |
| 6.5 | 1,653 | 750 |
| | 48.1/11.1/31.0 | 1,223/283/787 |
| 8.1 | impulse / AC | |
| 8.2 | 2,176 | 150 |
| 8.3 | 5.3 | 20 |
| 8.4 | 68 | |



| Mast Table ETV / ETM 214 / 216 | | | | | | | | | | |
|---|---|-------|-------------------------------|-------|-----------------------------|-------|--|--------|------------------------------------|-------------------------------------|
| | Collapsed mast height h ₁ | | Lift height h ₃ | | Free lift h ₂ | | Extended mast height h ₄ | | Mast tilt forward / backward | Fork tilt forward / backward* |
| | in | mm | in | mm | in | mm | in | mm | α° / β° | α° / β° |
| Three-stage mast DZ (Full free-lift) | 81 | 2,050 | 179 | 4,550 | 39.5 | 1,406 | 221 | 5,194 | 1 / 5 | — |
| | 87 | 2,200 | 196 | 5,000 | 45.5 | 1,556 | 238 | 5,644 | 1 / 5 | 2 / 5 |
| | 91 | 2,300 | 208 | 5,300 | 49 | 1,656 | 250 | 5,944 | 1 / 5 | 2 / 5 |
| | 95 | 2,400 | 220 | 5,600 | 53 | 1,756 | 262 | 6,244 | 1 / 3 | 2 / 5 |
| | 99 | 2,500 | 232 | 5,900 | 57 | 1,856 | 274 | 6,544 | 1 / 3 | 2 / 5 |
| | 103 | 2,600 | 244 | 6,200 | 61 | 1,956 | 286 | 6,844 | 1 / 3 | 2 / 5 |
| | 107 | 2,700 | 255 | 6,500 | 65 | 2,056 | 297 | 7,144 | 0.5 / 2 | 2 / 5 |
| | 111 | 2,800 | 267 | 6,800 | 69 | 2,156 | 309 | 7,444 | 0.5 / 2 | 2 / 5 |
| | 115 | 2,900 | 279 | 7,100 | 73 | 2,256 | 321 | 7,744 | 0.5 / 2 | 2 / 5 |
| | 119 | 3,000 | 291 | 7,400 | 77 | 2,356 | 333 | 8,044 | 0.5 / 2 | 2 / 5 |
| | 123 | 3,100 | 303 | 7,700 | 80.5 | 2,456 | 345 | 8,344 | 0.5 / 2 | 2 / 5 |
| | 126 | 3,200 | 314 | 8,000 | 84.5 | 2,556 | 357 | 8,644 | 0.5 / 2 | 2 / 5 |
| | 130 | 3,300 | 326 | 8,300 | 88.5 | 2,656 | 368 | 8,944 | 0.5 / 2 | 2 / 5 |
| | 132 | 3,340 | 331 | 8,420 | 90 | 2,696 | 373 | 9,064 | 0.5 / 2 | 2 / 5 |
| | 136 | 3,440 | 343 | 8,720 | 94 | 2,796 | 385 | 9,364 | 0.5 / 2 | 2 / 5 |
| | 140 | 3,540 | 355 | 9,020 | 98 | 2,896 | 397 | 9,664 | 0.5 / 2 | 2 / 5 |
| | 145 | 3,670 | 370 | 9,410 | 103 | 3,026 | 412 | 10,054 | — | 2 / 5 |
| 152 | 3,840 | 390 | 9,920 | 110 | 3,196 | 432 | 10,564 | — | 2 / 5 | |
| 156 | 3,950 | 403 | 10,250 | 114 | 3,306 | 445 | 10,894 | — | 2 / 5 | |
| 160 | 4,040 | 414 | 10,520 | 117 | 3,396 | 456 | 11,164 | — | 2 / 5 | |
| 162 | 4,100 | 421 | 10,700 | 120 | 3,456 | 463 | 11,344 | — | 2 / 5 | |

*Includes standard load backrest with height 39.5 inches.

The Jungheinrich Advantage

Jungheinrich's AC technology

- Jungheinrich's 4th generation AC technology provides improved performance and energy efficiency.
- Sealed motors, controllers and connectors provide for better durability especially when working in dusty or damp applications.
- AC Electric Power Steering provides improved serviceability, performance and energy efficiencies.
- AC motors lower maintenance costs by removing wear items commonly found in DC motors, such as contactors, brushes and springs.

Premium ergonomics

- Full suspension fabric seat with fore/aft, backrest and weight adjustments.
- Highly-adjustable operator compartment, which allows operators of various sizes to be comfortable and productive.
- Ergonomic and intuitive operator controls.

- All drive and hydraulic functions are comfortably controlled by either the multiPILOT or soloPILOT control handles.
- Low effort AC electric power steering.
- Premium, state-of-the-art 4" LED color display.
- Provides immediate feedback to both the operator and technician.
- 360° steer direction indicator.
- Battery discharge indicator.
- Three performance modes which can be modified to suit any application.
- Optional readouts such as lift height indicator and load weight display.

Robust and durable mast design

- Outstanding residual capacities.
- Excellent visibility both through and around the mast.
- Patented and proprietary mast reach cushioning allows for an improvement in operational productivities.
- Optional regenerative lowering can provide even more battery life, especially in those high lift applications.



multiPILOT hydraulic control (optional)

Performance-enhancing options to meet your application

- drivePLUS option increases drive speeds to 8.7 mph which can be especially beneficial for large warehouse applications.
- liftPLUS option increases lift speeds which can be advantageous in high lift applications.
- Anti-Slip Regulation (ASR) option for controlled acceleration on smooth or wet surfaces.
- A wide range of lift and lower limit options.

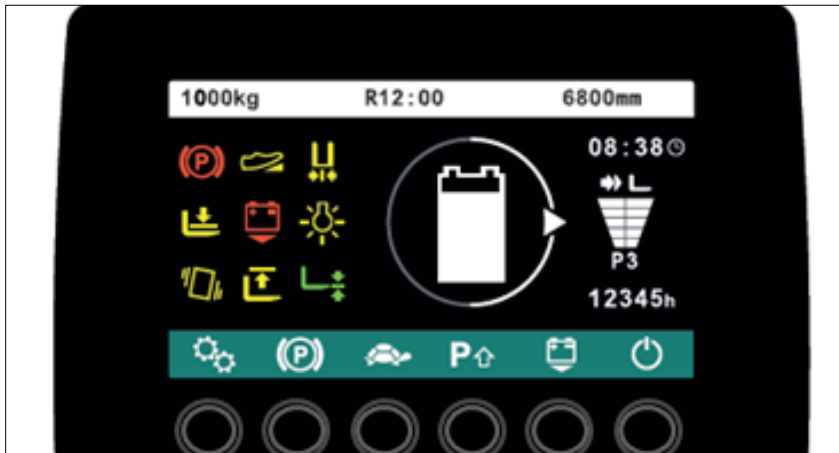
Lithium-ion Package Advantages

- Fast charging with no need for battery exchanges
- Maintenance-free with no odors from gases or acidification
- Longer service life and lower maintenance compared with lead-acid batteries
- Charging can be interrupted at anytime
- 5-year battery warranty included

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.



Informative Display