



**STRONG PARTNERS.  
TOUGH TRUCKS.™**

# **J1.5-3.5UT**

## **4-WHEEL ELECTRIC FORKLIFT**

**[WWW.HYSTER.COM](http://WWW.HYSTER.COM)**

## > OVERVIEW

The Hyster® UT series provides the ideal solution to meet your needs, without compromising on performance.

### 1 HIGH STRENGTH OVERHEAD GUARD

The overhead guard features profiled steel, with high strength materials to help enhance reliability and operator protection.

### 2 LOW STEP HEIGHT

The conveniently positioned low step provides easy access to the truck.

### 3 AC CONTROLLER

AC controllers coupled with AC traction and hydraulic motors allow for precise truck controllability. The controllers are easily accessible which can also minimize service time.

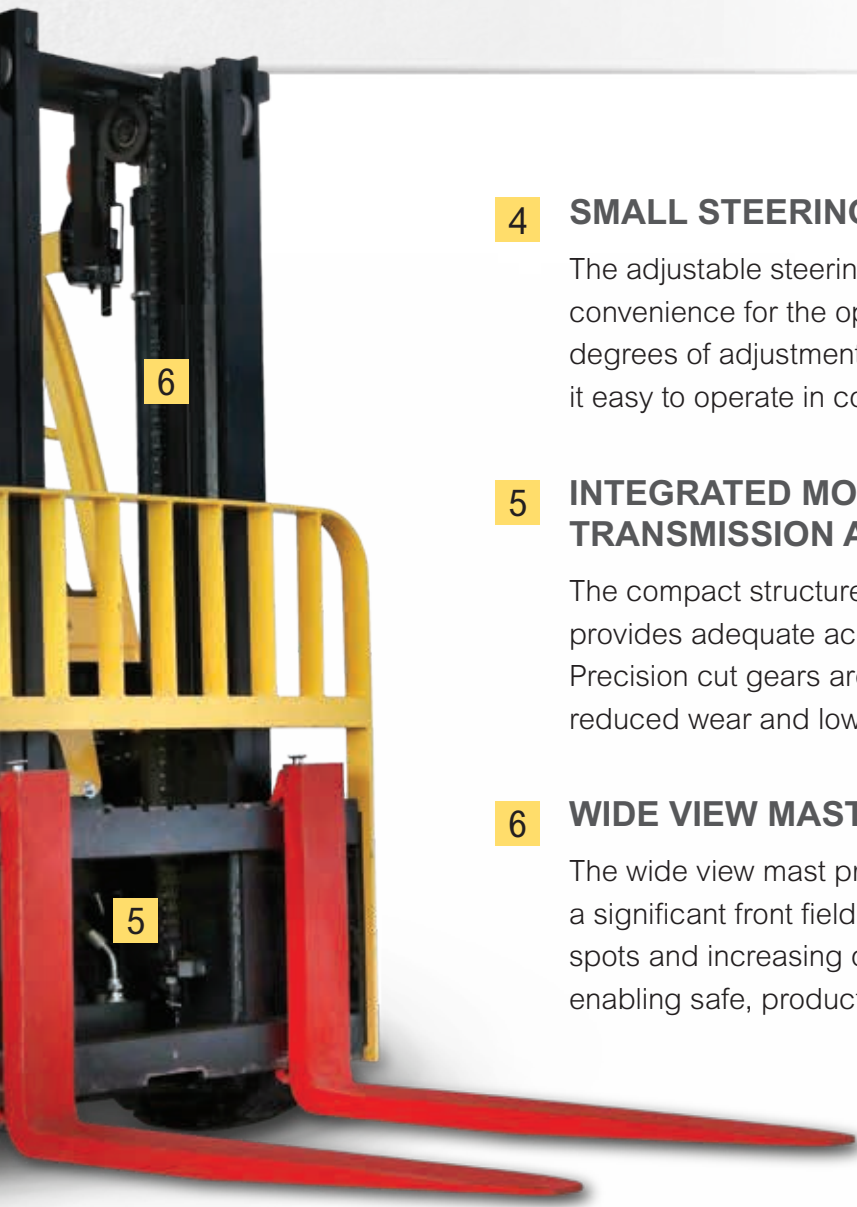


## THE RANGE

|                  |                  |
|------------------|------------------|
| 1,500kg – J1.5UT | 2,500kg – J2.5UT |
| 1,800kg – J1.8UT | 3,000kg – J3.0UT |
| 2,000kg – J2.0UT | 3,500kg – J3.5UT |

## DESIGN

The design of the UT series has been engineered with the operator in mind. The ergonomically designed compartment provides a natural and comfortable environment to help reduce fatigue throughout the shift. A range of standard features and options help to configure the truck to the needs of the application.



#### **4 SMALL STEERING WHEEL**

The adjustable steering wheel position provides convenience for the operator as it provides 8 degrees of adjustment. Low steering effort makes it easy to operate in confined spaces.

#### **5 INTEGRATED MOTOR, TRANSMISSION AND AXLE**

The compact structure of the drive system provides adequate access for maintenance. Precision cut gears are incorporated, leading to reduced wear and lower noise levels.

#### **6 WIDE VIEW MAST**

The wide view mast provides the operator with a significant front field of view, minimizing blind spots and increasing operator comfort, thereby enabling safe, productive and efficient operation.

### **LOW COST OF OWNERSHIP**

The use of high quality and robust components contribute to reliable operations and lower wear and tear. This, together with fast availability of cost-effective replacement parts helps to reduce maintenance requirements and costs.

### **HYDRAULICS**

High quality cylinders with hard chrome rods reduce seal wear for long life. A full-flow, low pressure filter on the return line keeps the hydraulic oil clean, which helps to minimize seal and pump wear. In addition, this keeps the control valve in good condition, which can lead to low service costs.

## > ENGINEERED FOR OPERATORS



### SAFETY AND STABILITY

- High visibility mast with soft landing absorbs shock
- Controlled mast lowering speed helps reduce damaging product
- Secure overhead guard
- LED lights are standard
- Operator presence system
- Travel speed limiting
- Parking brake



### PERFORMANCE

- Simple and clear display of speed, power, error code, working hours to keep the operator informed
- Color display integrated with functions such as performance selection allows the operator to configure the truck to meet different application requirements
- AC traction and lifting motors, with electronic control, deliver a high level of performance



### COMFORT

- Hydraulic power steering requires low steering effort without kick-back which helps with precise positioning
- Full suspension seat
- Adjustable steering column and seat to accommodate a variety of operators
- Low entrance step and large floor space
- Ergonomically designed hand brake



### SERVICE

- AC traction and hydraulic motors help reduce maintenance cost
- Reliable IP54 design
- The controller assembly is mounted inside the counterweight and is protected by an easy-to-remove cover
- CANbus communication simplifies troubleshooting

# MAST SPECIFICATIONS



## J1.5-1.8UT MAST AND CAPACITY CHARTS

| Mast Type | Max fork height (mm) | Overall Extended Height |      |                  |      |               |      | Free lift        |               | Mast Tilt     |            | Capacity without side shift        |      |                                    |      |
|-----------|----------------------|-------------------------|------|------------------|------|---------------|------|------------------|---------------|---------------|------------|------------------------------------|------|------------------------------------|------|
|           |                      | Lowered height (mm)     |      | Lift height      |      |               |      | Without LBR (mm) | With LBR (mm) | Forward (Deg) | Back (Deg) | @ 500mm Single Pneumatic Tire (kg) |      | @ 600mm Single Pneumatic Tire (kg) |      |
|           |                      |                         |      | Without LBR (mm) |      | With LBR (mm) |      |                  |               |               |            | 1.5t                               | 1.8t | 1.5t                               | 1.8t |
|           |                      | 1.5t                    | 1.8t | 1.5t             | 1.8t | 1.5t          | 1.8t |                  |               |               |            |                                    |      |                                    |      |
| 2LFL      | 3300                 | 2140                    | 2140 | 4284             | 4284 | 3813          | 3813 | 135              | 135           | 5             | 10         | 1500                               | 1800 | 1350                               | 1620 |
|           | 3500                 | 2240                    | 2240 | 4484             | 4484 | 4013          | 4013 | 135              | 135           | 5             | 10         | 1500                               | 1800 | 1350                               | 1620 |
|           | 4000                 | 2540                    | 2540 | 4984             | 4984 | 4513          | 4513 | 135              | 135           | 5             | 10         | 1400                               | 1700 | 1260                               | 1532 |
| 2FFL      | 3000                 | 1990                    | 1990 | 3984             | 3984 | 3513          | 3513 | 1415             | 1030          | 5             | 10         | 1500                               | 1800 | 1350                               | 1620 |
|           | 3300                 | 2140                    | 2140 | 4284             | 4284 | 3813          | 3813 | 1565             | 1180          | 5             | 10         | 1500                               | 1800 | 1350                               | 1620 |
| 3FFL      | 4500                 | 2040                    | 2040 | 5484             | 5484 | 5013          | 5013 | 1470             | 1080          | 5             | 6          | 1200                               | 1400 | 1080                               | 1260 |
|           | 4800                 | 2140                    | 2140 | 5784             | 5784 | 5313          | 5313 | 1570             | 1180          | 5             | 6          | 1100                               | 1200 | 990                                | 1080 |
|           | 5500                 | 2405                    | 2405 | 6484             | 6484 | 6013          | 6013 | 1835             | 1445          | 3             | 6          | 750                                | 850  | 670                                | 760  |
|           | 6000                 | 2590                    | 2610 | 6984             | 6984 | 6513          | 6513 | 2040             | 1650          | 3             | 6          | 450                                | 550  | 400                                | 490  |

## J2.0-2.5UT MAST AND CAPACITY CHARTS

| Mast Type | Max fork height (mm) | Overall Extended Height |      |                  |      |               |      | Free lift        |               | Mast Tilt     |            | Capacity without side shift        |      |                                    |      |
|-----------|----------------------|-------------------------|------|------------------|------|---------------|------|------------------|---------------|---------------|------------|------------------------------------|------|------------------------------------|------|
|           |                      | Lowered height (mm)     |      | Lift height      |      |               |      | Without LBR (mm) | With LBR (mm) | Forward (Deg) | Back (Deg) | @ 500mm Single Pneumatic Tire (kg) |      | @ 600mm Single Pneumatic Tire (kg) |      |
|           |                      |                         |      | Without LBR (mm) |      | With LBR (mm) |      |                  |               |               |            | 2.0t                               | 2.5t | 2.0t                               | 2.5t |
|           |                      | 2.0t                    | 2.5t | 2.0t             | 2.5t | 2.0t          | 2.5t |                  |               |               |            |                                    |      |                                    |      |
| 2LFL      | 3300                 | 2165                    | 2165 | 3915             | 3915 | 4317          | 4317 | 140              | 140           | 5             | 10         | 2000                               | 2500 | 1810                               | 2260 |
|           | 3500                 | 2265                    | 2265 | 4115             | 4115 | 4517          | 4517 | 140              | 140           | 5             | 10         | 2000                               | 2500 | 1810                               | 2260 |
|           | 4000                 | 2565                    | 2565 | 4615             | 4615 | 5017          | 5017 | 140              | 140           | 5             | 10         | 2000                               | 2500 | 1810                               | 2260 |
| 2FFL      | 3000                 | 2015                    | 2015 | 3615             | 3615 | 4017          | 4017 | 1385             | 985           | 5             | 10         | 2000                               | 2500 | 1810                               | 2260 |
|           | 3300                 | 2165                    | 2165 | 3915             | 3915 | 4317          | 4317 | 1535             | 1135          | 5             | 10         | 2000                               | 2500 | 1810                               | 2260 |
| 3FFL      | 4500                 | 2075                    | 2075 | 5171             | 5171 | 5516          | 5516 | 1440             | 1040          | 5             | 6          | 1600                               | 2000 | 1450                               | 1810 |
|           | 4800                 | 2175                    | 2175 | 5471             | 5471 | 5816          | 5816 | 1540             | 1140          | 5             | 6          | 1250                               | 1700 | 1130                               | 1540 |
|           | 5500                 | 2440                    | 2440 | 6171             | 6171 | 6516          | 6516 | 1800             | 1400          | 3             | 6          | 900                                | 1200 | 810                                | 1090 |
|           | 6000                 | 2625                    | 2625 | 6671             | 6671 | 7016          | 7016 | 1990             | 1590          | 3             | 6          | 700                                | 800  | 630                                | 720  |

## J3.0UT MAST AND CAPACITY CHARTS

| Mast Type | Max fork height (mm) | Overall Extended Height |                  |               | Free lift        |               | Mast Tilt     |            | Capacity without side shift        |                                    |
|-----------|----------------------|-------------------------|------------------|---------------|------------------|---------------|---------------|------------|------------------------------------|------------------------------------|
|           |                      | Lowered height (mm)     | Lift height      |               | Without LBR (mm) | With LBR (mm) | Forward (Deg) | Back (Deg) | @ 500mm Single Pneumatic Tire (kg) | @ 600mm Single Pneumatic Tire (kg) |
|           |                      |                         | Without LBR (mm) | With LBR (mm) |                  |               |               |            |                                    |                                    |
|           |                      |                         | 3.0t             | 3.0t          |                  |               |               |            | 3.0t                               | 3.0t                               |
| 2LFL      | 3300                 | 2195                    | 3940             | 4440          | 165              | 165           | 5             | 10         | 3000                               | 2720                               |
|           | 3500                 | 2295                    | 4140             | 4640          | 165              | 165           | 5             | 10         | 3000                               | 2720                               |
|           | 4000                 | 2595                    | 4640             | 5140          | 165              | 165           | 5             | 10         | 2850                               | 2580                               |
| 2FFL      | 3000                 | 2045                    | 3640             | 4140          | 1390             | 935           | 5             | 10         | 3000                               | 2720                               |
|           | 3300                 | 2195                    | 3940             | 4440          | 1540             | 1085          | 5             | 10         | 3000                               | 2720                               |
| 3FFL      | 4500                 | 2095                    | 5165             | 5640          | 1510             | 975           | 5             | 6          | 2500                               | 2270                               |
|           | 4800                 | 2195                    | 5465             | 5940          | 1610             | 1075          | 5             | 6          | 2250                               | 2040                               |
|           | 5500                 | 2460                    | 6165             | 6640          | 1865             | 1330          | 3             | 6          | 1600                               | 1450                               |
|           | 6000                 | 2645                    | 6665             | 7140          | 2060             | 1525          | 3             | 6          | 1200                               | 1090                               |

## J3.5UT MAST AND CAPACITY CHARTS

| Mast Type | Max fork height (mm) | Overall Extended Height |                  |               | Free lift        |               | Mast Tilt     |            | Capacity without side shift        |                                    |
|-----------|----------------------|-------------------------|------------------|---------------|------------------|---------------|---------------|------------|------------------------------------|------------------------------------|
|           |                      | Lowered height (mm)     | Lift height      |               | Without LBR (mm) | With LBR (mm) | Forward (Deg) | Back (Deg) | @ 500mm Single Pneumatic Tire (kg) | @ 600mm Single Pneumatic Tire (kg) |
|           |                      |                         | Without LBR (mm) | With LBR (mm) |                  |               |               |            |                                    |                                    |
|           |                      |                         | 3.5t             | 3.5t          |                  |               |               |            |                                    |                                    |
| 2LFL      | 3300                 | 2270                    | 4010             | 4440          | 170              | 170           | 5             | 10         | 3500                               | 3180                               |
|           | 3500                 | 2370                    | 4210             | 4640          | 170              | 170           | 5             | 10         | 3500                               | 3180                               |
|           | 4000                 | 2670                    | 4710             | 5140          | 170              | 170           | 5             | 10         | 3300                               | 3000                               |
| 2FFL      | 3000                 | 2120                    | 3700             | 4100          | 1415             | 1000          | 5             | 10         | 3500                               | 3180                               |
|           | 3300                 | 2270                    | 4000             | 4400          | 1565             | 1150          | 5             | 10         | 3500                               | 3180                               |
| 3FFL      | 4500                 | 2170                    | 5250             | 5650          | 1510             | 975           | 5             | 6          | 2800                               | 2550                               |
|           | 4800                 | 2270                    | 5550             | 5950          | 1610             | 1075          | 5             | 6          | 2500                               | 2270                               |
|           | 5500                 | 2535                    | 6250             | 6650          | 1865             | 1330          | 3             | 6          | 1700                               | 1540                               |
|           | 6000                 | 2720                    | 6750             | 7150          | 2060             | 1525          | 3             | 6          | 1300                               | 1180                               |

**Note:** For integral sideshift deduct 50kg from stated capacity



# SPECIFICATIONS

| GENERAL          | 1.1                                                | Manufacturer                                            |                              | HYSTER         | HYSTER         | HYSTER         | HYSTER         | HYSTER         | HYSTER         |
|------------------|----------------------------------------------------|---------------------------------------------------------|------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
|                  | 1.2                                                | Model designation                                       |                              | J1.5UT         | J1.8UT         | J2.0UT         | J2.5UT         | J3.0UT         | J3.5UT         |
|                  | 1.3                                                | Power: battery, diesel, LPG, electric mains             |                              | Bateria        | Bateria        | Bateria        | Bateria        | Bateria        | Bateria        |
|                  | 1.4                                                | Operation: manual, pedestrian, stand, seat, orderpicker |                              | Sentado        | Sentado        | Sentado        | Sentado        | Sentado        | Sentado        |
|                  | 1.5                                                | Load capacity                                           | Q (kg)                       | 1500           | 1800           | 2000           | 2500           | 3000           | 3500           |
|                  | 1.6                                                | Load center                                             | c (mm)                       | 500            | 500            | 500            | 500            | 500            | 500            |
|                  | 1.8                                                | Load distance                                           | x (mm)                       | 410            | 410            | 454            | 454            | 475            | 495 5          |
|                  | 1.9                                                | Wheelbase                                               | y (mm)                       | 1380           | 1380           | 1485           | 1485           | 1670           | 1690           |
| WEIGHT           | 2.1                                                | Unladen weight (max. battery)                           | kg                           | 2950           | 3230           | 3930           | 4100           | 4750           | 5400           |
|                  | 2.2                                                | Axle loading, laden front/rear (max. battery)           | kg                           | 3960/490       | 4280/610       | 5160/750       | 5755/845       | 6900/850       | 7865/1035      |
|                  | 2.3                                                | Axle loading, unladen front/rear (max. battery)         | kg                           | 1390/1560      | 1290/1800      | 1895/2035      | 1650/2450      | 2070/2680      | 2300/3100      |
| TIRES, CHASSIS   | 3.1                                                | Tires: L=pneumatic, V=cushion SE= super elastic         |                              | SE             | SE             | SE             | SE             | SE             | SE             |
|                  | 3.2                                                | Tire size, front                                        |                              | 6.00-9         | 21x8-9         | 23 x 9-10      | 23 x 9-10      | 23 x 9-10      | 23 x 10-12     |
|                  | 3.3                                                | Tire size, rear                                         |                              | 5.00-8         | 5.00-8         | 18 x 7-8       | 18 x 7-8       | 18 x 7-8       | 200/50-10      |
|                  | 3.5                                                | Number of wheels, front/rear (X = driven)               |                              | 2x/2           | 2x/2           | 2x/2           | 2x/2           | 2x/2           | 2x/2           |
|                  | 3.6                                                | Track width, front                                      | b10 (mm)                     | 955            | 955            | 1058           | 1058           | 1065           | 1124           |
|                  | 3.7                                                | Track width, rear                                       | b11 (mm)                     | 920            | 920            | 960            | 960            | 980            | 1010           |
|                  | DIMENSIONS                                         | 4.1                                                     | Mast tilt, forward a /back b | degrees        | 5/10           | 5/10           | 5/10           | 5/10           | 5/10           |
| 4.2              |                                                    | Height of mast, lowered                                 | h1 (mm)                      | 2000           | 2000           | 2015           | 2015           | 2045           | 2120           |
| 4.3              |                                                    | Free lift, *                                            | h2 (mm)                      | 135            | 135            | 140            | 140            | 165            | 165            |
| 4.4              |                                                    | Lift height, *                                          | h3 (mm)                      | 3000           | 3000           | 3000           | 3000           | 3000           | 3000           |
| 4.5              |                                                    | Height of mast, extended E                              | h4 (mm)                      | 3980           | 3980           | 3980           | 3980           | 3980           | 3980           |
| 4.7              |                                                    | Height to top of overhead guard m                       | h6 (mm)                      | 2155           | 2155           | 2152           | 2152           | 2152           | 2138           |
| 4.8              |                                                    | Seat height u                                           | h7 (mm)                      | 1080           | 1080           | 1080           | 1080           | 1080           | 1080           |
| 4.12             |                                                    | Towing coupling height                                  | h10 (mm)                     | 290            | 290            | 250            | 250            | 270            | 270            |
| 4.19             |                                                    | Overall length (with forks)                             | l1 (mm)                      | 2993           | 2993           | 3356 5         | 3356 5         | 3618           | 3709           |
| 4.20             |                                                    | Length to face of forks                                 | l2 (mm)                      | 2073           | 2073           | 2286.5         | 2286.5         | 2548           | 2639           |
| 4.21             |                                                    | Overall width                                           | b1 (mm)                      | 1120           | 1120           | 1285           | 1285           | 1285           | 1365           |
| 4.22             |                                                    | Fork dimensions                                         | s/e/l (mm)                   | 35/100/920     | 35/100/920     | 40/122/1070    | 40/122/1070    | 45/122/1070    | 50/122/1070    |
| 4.23             |                                                    | Fork carriage DIN 15173. Class, A/B                     |                              | 2A             | 2A             | 2A             | 2A             | 3A             | 3A             |
| 4.24             |                                                    | Fork carriage width E                                   | b3 (mm)                      | 1040           | 1040           | 1040           | 1040           | 1100           | 1100           |
| 4.25             |                                                    | Width over forks                                        | b5 (mm)                      | 890            | 890            | 1000           | 1000           | 1060           | 1060           |
| 4.31             |                                                    | Ground clearance, laden, below mast                     | m1 (mm)                      | 95             | 95             | 65             | 65             | 65             | 80             |
| 4.32             | Ground clearance at center of wheelbase            | m2 (mm)                                                 | 105                          | 105            | 95             | 95             | 110            | 83             |                |
| 4.33             | Aisle width with pallets 1000mm long x 1200mm wide | Ast (mm)                                                | 3541                         | 3541           | 3732           | 3732           | 4025           | 4101           |                |
| 4.34             | Aisle width with pallets 800mm wide x 1200mm long  | Ast (mm)                                                | 3741                         | 3741           | 3932           | 3932           | 4225           | 4301           |                |
| 4.35             | Outer turning radius                               | Wa (mm)                                                 | 1965                         | 1965           | 2080           | 2080           | 2349           | 2405           |                |
| 4.36             | Inner turning radius                               | b13 (mm)                                                | 703                          | 703            | 599            | 599            | 830            | 815            |                |
| PERFORMANCE DATA | 5.1                                                | Travel speed laden/unladen                              | km/h                         | 15/16          | 15/16          | 15/16          | 15/16          | 15/16          | 15/16          |
|                  | 5.2                                                | Lifting speed laden/unladen                             | mm/s                         | 320/400        | 300/400        | 320/400        | 280/400        | 320/400        | 280/400        |
|                  | 5.3                                                | Lowering speed laden/unladen                            | mm/s                         | 390/500        | 390/500        | 390/420        | 390/420        | 390/420        | 400/320        |
|                  | 5.6                                                | Maximum drawbar pull laden/unladen, 5 minute rating     | N                            | 11600/7500     | 11600/7500     | 13000/10500    | 13000/10500    | 19000/11000    | 19000/11000    |
|                  | 5.8                                                | Maximum gradeability with/without load, 5 minute rating | %                            | 15/23          | 14/22          | 15/23          | 15/22          | 15/22          | 15/22          |
|                  | 5.9                                                | Acceleration time with/without load 10m                 | sec                          | 5/4.5          | 5/4.5          | 5.4/4.5        | 5.5/4.7        | 5.5/4.7        | 5.7/5.2        |
|                  | 5.10                                               | Service brake                                           |                              | Hidráulico     | Hidráulico     | Hidráulico     | Hidráulico     | Hidráulico     | Hidráulico     |
| ELECTRIC-MOTOR   | 6.1                                                | Drive Motor Rating, S2, 60min                           | kW                           | 6.5            | 6.5            | 8.5            | 8.5            | 11.5           | 11.5           |
|                  | 6.2                                                | Lifting motor, S3 15% rating                            | kW                           | 8.6            | 8.6            | 11             | 11             | 15             | 15             |
|                  | 6.4                                                | Battery voltage/capacity (5hr rate)                     | V/Ah                         | 48/420         | 48/420         | 48/600         | 48/600         | 80/500         | 80/500         |
|                  | 6.5                                                | Battery weight (min/max)                                | kg                           | 710            | 710            | 950            | 950            | 1420           | 1420           |
|                  | NEW                                                | Battery dimensions                                      | l/w/h(mm)                    | 985/465/750    | 985/465/750    | 1028/500/780   | 1028/500/780   | 1028/674/780   | 1028/674/780   |
|                  | 6.6                                                | Power consumption in accordance with VDI cycle          | kWh/h                        | 4.8            | 5.0            | 5.7            | 6.2            | 7.6            | 8.0            |
| OTHER            | 8.1                                                | Drive control                                           |                              | CA             | CA             | CA             | CA             | CA             | CA             |
|                  |                                                    | Manufacturer                                            |                              | Curtis         | Curtis         | Curtis         | Curtis         | Curtis         | Curtis         |
|                  | 8.2                                                | Operating pressure for attachments x                    | bar                          | 145            | 145            | 175            | 175            | 175            | 175            |
|                  | 8.3                                                | Oil volume for attachments                              | l/min                        | 38             | 38             | 38             | 38             | 38             | 38             |
|                  | 8.4                                                | Average noise level at operator's ear ~                 | dB (A)                       | 70.3           | 70.3           | 67.5           | 67.5           | 71.8           | 71.8           |
|                  | 8.5                                                | Towing coupling, type DIN                               |                              | Clavija de Ø30 | Clavija de Ø30 | Clavija de Ø30 | Clavija de Ø30 | Clavija de Ø30 | Clavija de Ø30 |

~ LPAZ, measured according to the test cycles and based on the weighting values contained in EN12053

\* Bottom of forks

u Full suspension specified

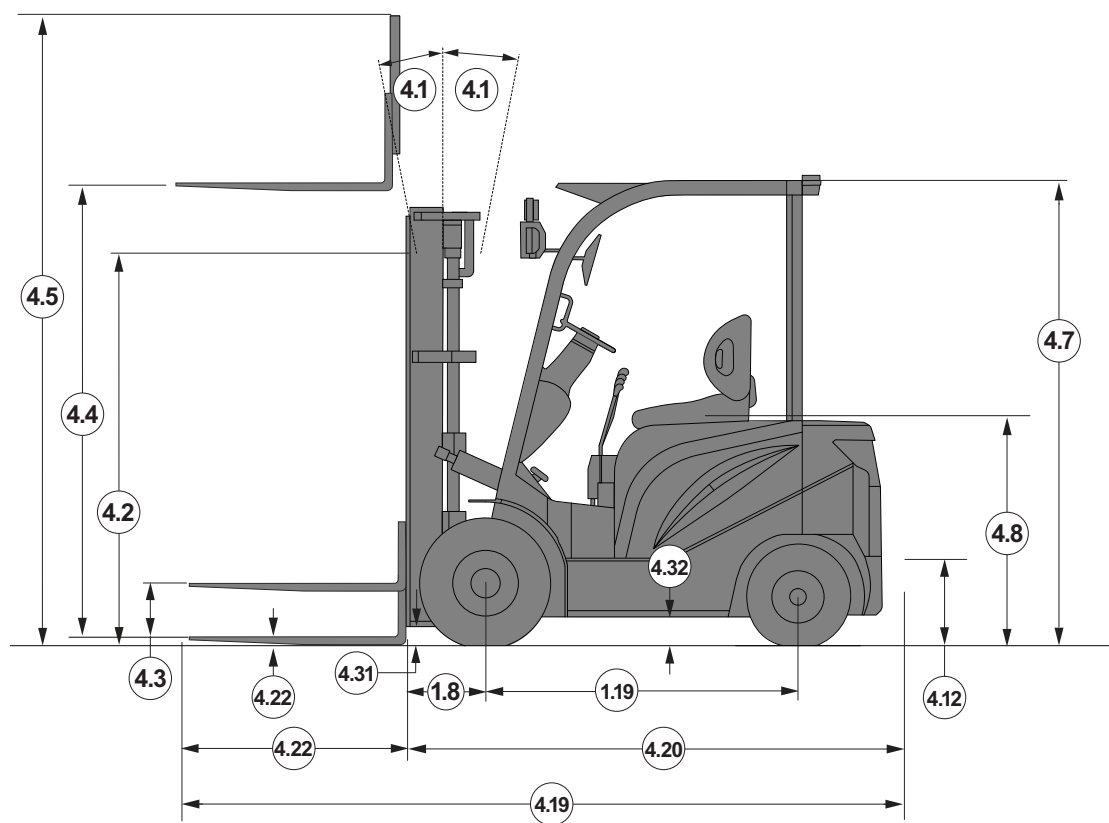
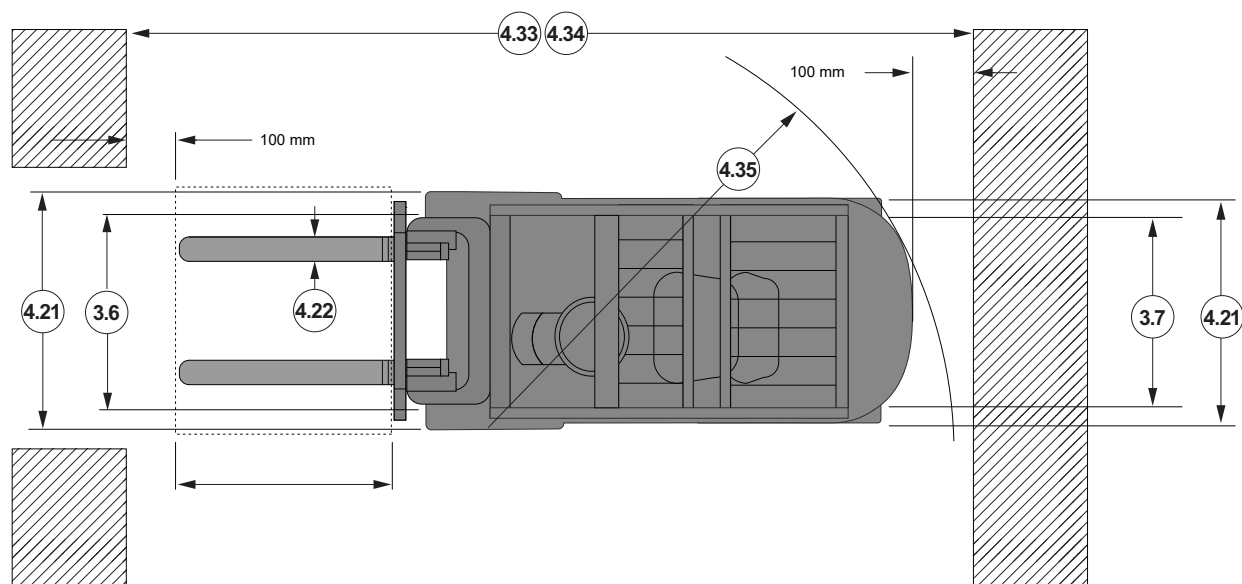
e Without load backrest

m h6 subject to +/- 5 mm tolerance

x Variable

Specification data is based on VDI 2198, with the following configuration:

Complete truck with 3000mm 2-stage limited free lift mast, standard carriage and forks, overhead guard and standard super elastic drive and steer tires.





Hyster Company  
P.O. Box 7006  
Greenville, North Carolina  
27835-7006  
Part No. J1.5-3.5UT/BTG/CARIB  
4/2020 Litho in U.S.A.

Visit us online at [www.hyster.com](http://www.hyster.com) or call us at 1-800-HYSTER-1.

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