

We build a better future



*Some of the photos may include optional equipment.

North America Only

FORKLIFT TRUCKS Environmentally - Friendly

20/25/30/32BC-7 AC



New Criterion of Forklift Trucks

Hyundai introduces a new line of 7-series battery forklift trucks. Excellent power and performance make your business more profitable.



*Some of the photos may include optional equipment.

The New AC Control B Series

Designed with a durable frame and built to offer excellent stability and a smooth ride, AC Control B Series trucks are real workhorses.



*Some of the photos may include optional equipment.

High Technology ZAPI Controller Eliminates Almost All Noise

The efficient, 8Khz(high frequency) ZAPI controller provides smooth operation and protection for low & high voltage, overheating and fault recording.

- Features**
- Regeneration : Direction change, Deceleration, Braking
 - The new AC motors offers a of 10% greater efficiency than traditional DC motors
 - Various performance models are available to maximize efficiency and equipped to work in all types of operations
 - Enhanced Efficiency
 - H (High) Mode, N (Normal) Mode, E (Economic) Mode
 - Turtle Mode : 10km/h



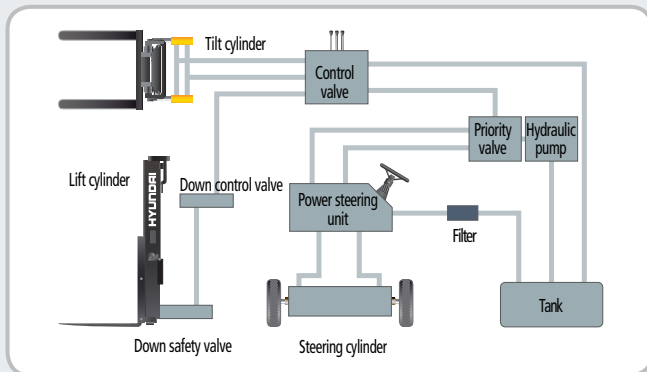
Superior Power & Optimal Performance

Efficient, smooth running and ergonomically designed AC control series are built to meet your needs.

Fork Safety Features

When the forks are being lowered, a down-control valve maintains the controlled speed.

The down-safety valve prevents forks from dropping down in case of sudden damage of hydraulic line.



Anti-Rollback System, Faster Travel Speed & Gradeability

ZAPI's anti-rollback system provides safe ramp operation plus exceptional ramp start capabilities.

The powerful high-output motors provide greater acceleration, better gradeability and faster travel speed on any tough terrain or slope.



State-of-the-Art Hydraulic System

The latest large-capacity hydraulic system reacts quickly during operation, and a low noise control valve increases both efficiency and durability.



Increased Mast tilting Angle

Utilizing the mast tilting angle of 6 degrees forward and 8 degrees backward, the operator can rapidly perform loading and unloading jobs safely.



Clean and Reliable Brakes

The adoption of DUO-SERVO type drum brake improves braking performance.

A self-adjusting function maintains proper brake adjustment to compensate for lining wear.



Fully Hydrostatic Power Steering

A hydraulic steering system ensures smooth & precise steering which prevents kick-back.



OPSS (Operator Presence Sensing System)

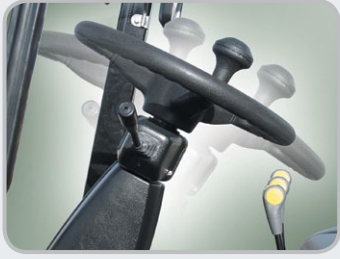
Control of mast tilting, lifting and lowering is not possible through operation of the appropriate control when the operator is not in the seat.

Travel Speed (MAX)

| Model | mph |
|--------|------|
| 20BC-7 | 11.2 |
| 25BC-7 | 11.2 |
| 30BC-7 | 11.2 |
| 32BC-7 | 11.2 |

Gradeability (MAX)

| Model | % |
|--------|----|
| 20BC-7 | 20 |
| 25BC-7 | 19 |
| 30BC-7 | 18 |
| 32BC-7 | 17 |



Adjustable Steering Wheel

Steering wheel can be adjusted by a lever on the right-hand side for the most comfortable operator position.



Easy Control Direction Lever

Finger tip control of forward and reverse lever allows the operator to remain in control of equipment.



Multi-Functional Switch

Integrated multi-functional switch lever enables the driver to operate lights and horn conveniently.



Prompt Response of Operating Control Levers

Only minimal operator's effort is required for precise, safe and productive control.



High visibility for Safe Operation

The operator is able to work with increased safety and accuracy due to a wider view.



Perfect Compartment Fit For Any Operator

An ergonomically designed operator's compartment enables the driver to select the most comfortable working position for increased productivity.



Optimum Pedal Position & Non-slip Mat

Based on human engineering, the accelerator and brake pedals are optimally positioned for convenience while operating the equipment.

Easily Adjustable Suspension Seat

An attractive and adjustable seat, based on a human design, provides greater comfort, safety and durability.

■ Options : Arm rest, Hip restraint



Comfortable Operation

A design based on human engineering relieves fatigue and increases operator's efficiency.

AC Control System Features

- _Excellent Control Ability
 - Various performance modes to meet all working conditions
 - Slow rolling on ramp & ramp start
- _Enhanced motor efficiency & Excellent regeneration



*Some of the photos may include optional equipment.



Self - Diagnostic LCD Monitor

The LCD monitor has a back-light system to provide a clear view of the system's operation in all environments. The monitor provides information about operation error, system fault, battery level, hour meter and selected performance mode. Other various functions

include items such as self diagnostics and password activation. These features can be accessed without the need of a laptop or handset.

Keyboard Buttons / Performance Mode

Operator can select performance mode easily according to working condition.

Console Box & Cup Holder

Additional storage spaces are located inside the operating space for operator's convenience.



High Durability & Simple Arrangement

An ideal arrangement of component parts ensures easy access and convenience for maintenance.



*Some of the photos may include optional equipment.



Strong Overhead Guard

The safety overhead guard exceeds EEC and ANSI regulations and protects the operator during hazardous work.



Parking Brake

Ratchet type parking brake requires less effort from the operator to set.



Hand Grip & Large Footboard

Wide "open" step and large hand grip offer convenience and safety when entering and exiting the truck.

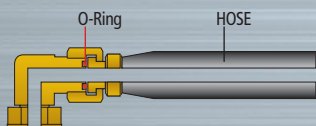


Rear Safety Lamp

Rear combination lamps with turn signal lamps, tail lamp and brake lights are positioned for high visibility to ensure safety.



Battery Locking System

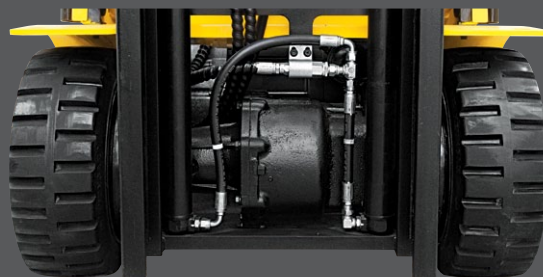


ORFS (O-Ring Face Seal)

ORFS type hose prevents the leaking of hydraulic oil.

High quality AC motors

Enclosed motors prolong durability. No brush and no connector.
(No arc and no spark)



Easy Maintenance & Serviceability

Battery change is easy with a swing-up compartment and a slotted overhead guard. Opening and closing of the battery cover is made easy with a gas-spring assisted cylinder.



Easy Battery Replacement

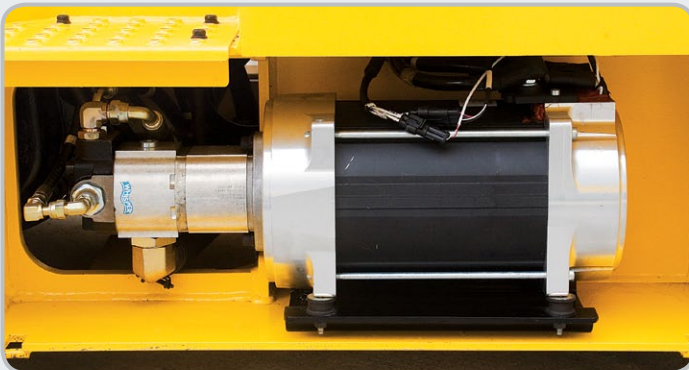
Battery change is easy with swing-up compartment and slotted overhead guard. Opening and closing of battery cover is made easy with a gas-spring assist cylinder.



A concentrated Fuse Box for Easy Inspection



Oil Tank Port



Hydraulic Motor



Battery Disconnect Lever / Switch



Easy to Check Brake Oil Level



High Visibility Headlights & Rear Work Light



DC-DC Converter

DC-DC converter exceeds UL & CE requirements to prevent short circuit, overload and reverse polarity

Mast Specification (20/25/30BC-7)

| Mast Type | | Overall Height (Lowered) (in) | Maximum Fork Height (in) | Free Lift (in) | | | Tilt Angle (deg) Fwd / Bwd | Load Capacity without side shift at 24in LC (lb) | | | Load Capacity with side shift at 24in LC (lb) | | | Truck Weight (Unloaded) (lb) | | |
|--|---------------|-------------------------------------|--------------------------------|----------------|------------------|--------|-------------------------------|--|--------|--------|---|--------|--------|------------------------------------|--------|--------|
| | | | | With Backrest | Without Backrest | | | 20BC-7 | 25BC-7 | 30BC-7 | 20BC-7 | 25BC-7 | 30BC-7 | 20BC-7 | 25BC-7 | 30BC-7 |
| | | 20/25/30BC-7 | 20/25/30BC-7 | 20/25/30BC-7 | 20/25BC-7 | 30BC-7 | 20/25/30BC-7 | 20BC-7 | 25BC-7 | 30BC-7 | 20BC-7 | 25BC-7 | 30BC-7 | 20BC-7 | 25BC-7 | 30BC-7 |
| 2 / Stage limited free lift | V209 | 60.2 | 82.3 | 4.5 | 4.5 | 4.5 | 10 / 6 | 4,000 | 5,000 | 6,000 | 4,000 | 5,000 | 6,000 | 8,843 | 9,582 | 10,681 |
| | V300 | 78.1 | 118.1 | 4.5 | 4.5 | 4.5 | 6 / 8 | 4,000 | 5,000 | 6,000 | 4,000 | 5,000 | 6,000 | 8,963 | 9,701 | 10,818 |
| | *V330 | 84.0 | 129.9 | 4.5 | 4.5 | 4.5 | 6 / 8 | 4,000 | 5,000 | 6,000 | 4,000 | 5,000 | 6,000 | 9,006 | 9,744 | 10,865 |
| | V350 | 87.9 | 137.8 | 4.5 | 4.5 | 4.5 | 6 / 8 | 4,000 | 5,000 | 6,000 | 4,000 | 5,000 | 6,000 | 9,043 | 9,782 | 10,905 |
| | V370 | 93.9 | 145.7 | 4.5 | 4.5 | 4.5 | 6 / 8 | 4,000 | 5,000 | 6,000 | 4,000 | 5,000 | 6,000 | 9,092 | 9,830 | 10,957 |
| | V400 | 99.8 | 157.4 | 4.5 | 4.5 | 4.5 | 6 / 8 | 4,000 | 5,000 | 6,000 | 4,000 | 5,000 | 5,900 | 9,140 | 9,878 | 11,009 |
| | V430 | 105.7 | 169.3 | 4.5 | 4.5 | 4.5 | 6 / 8 | 4,000 | 5,000 | 6,000 | 4,000 | 4,900 | 5,800 | 9,241 | 9,980 | 11,114 |
| | V450 | 111.6 | 177.2 | 4.5 | 4.5 | 4.5 | 6 / 5 | 4,000 | 5,000 | 6,000 | 3,950 | 4,835 | 5,700 | 9,302 | 10,041 | 11,179 |
| | V470 | 115.5 | 185.0 | 4.5 | 4.5 | 4.5 | 6 / 5 | 4,000 | 4,940 | 5,950 | 3,840 | 4,780 | 5,650 | 9,334 | 10,072 | 10,687 |
| | V500 | 121.4 | 196.9 | 4.5 | 4.5 | 4.5 | 6 / 5 | 4,000 | 4,850 | 5,865 | 3,800 | 4,690 | 5,565 | 9,382 | 10,121 | 11,213 |
| 3 / Stage full free lift | TF370 / TS370 | 70.3 | 145.7 | 23.8 | 46.3 | 43.8 | 6 / 5 | 4,000 | 5,000 | 6,000 | 4,000 | 4,840 | 5,700 | 9,293 | 10,032 | 11,177 |
| | TF400 / TS400 | 74.2 | 157.4 | 27.8 | 50.3 | 47.8 | 6 / 5 | 4,000 | 4,960 | 5,975 | 4,000 | 4,800 | 5,675 | 9,339 | 10,077 | 11,225 |
| | TF430 / TS430 | 78.2 | 169.3 | 31.7 | 54.2 | 51.7 | 6 / 5 | 4,000 | 4,870 | 5,840 | 4,000 | 4,710 | 5,540 | 9,386 | 10,125 | 11,324 |
| | TF450 / TS450 | 82.1 | 177.2 | 35.6 | 58.1 | 55.7 | 6 / 5 | 4,000 | 4,805 | 5,775 | 3,940 | 4,645 | 5,475 | 9,434 | 10,173 | 11,335 |
| | TF470 / TS470 | 84.1 | 185.0 | 37.6 | 60.1 | 57.6 | 6 / 5 | 4,000 | 4,740 | 5,710 | 3,830 | 4,580 | 5,410 | 9,463 | 10,202 | 11,366 |
| | TF500 / TS500 | 87.9 | 196.9 | 41.5 | 64.1 | 61.6 | 6 / 5 | 3,900 | 4,650 | 5,600 | 3,740 | 4,490 | 5,300 | 9,515 | 10,254 | 11,420 |
| | TF550 / TS550 | 95.9 | 216.5 | 49.4 | 71.9 | 69.4 | 6 / 5 | 3,770 | 4,495 | 5,425 | 3,610 | 4,335 | 5,125 | 9,604 | 10,342 | 11,518 |
| | TF600 / TS600 | 103.7 | 236.2 | 57.3 | 79.8 | 77.3 | 6 / 5 | 2,690 | 3,275 | 3,970 | 2,530 | 3,115 | 3,670 | 9,770 | 10,508 | 11,696 |

* TS-Mast : 3-Stage Dual Full Free Lift Mast

* Standard

Mast Specification (32BC-7)

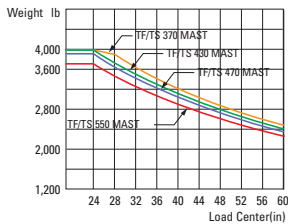
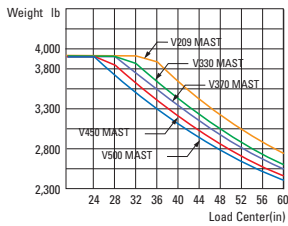
| Mast Type | | Overall Height (Lowered) (in) | Maximum Fork Height (in) | Free Lift | | Tilt Angle (deg) Fwd / Bwd | Load Capacity without side shift at 24in LC (lb) | Load Capacity with side shift at 24in LC (lb) | Truck Weight (Unloaded) (lb) |
|--|---------------|-------------------------------------|--------------------------------|--------------------|-----------------------|-------------------------------|--|---|------------------------------------|
| | | | | With Backrest (in) | Without Backrest (in) | | | | |
| | | | | 32BC-7 | 32BC-7 | | | | |
| 2 / Stage limited free lift | V290 | 78.1 | 114.2 | 4.5 | 4.5 | 6 / 8 | 6,500 | 6,500 | 11,196 |
| | *V320 | 84.0 | 126.0 | 4.5 | 4.5 | 6 / 8 | 6,500 | 6,500 | 11,243 |
| | V340 | 87.9 | 133.9 | 4.5 | 4.5 | 6 / 8 | 6,500 | 6,500 | 11,284 |
| | V360 | 93.9 | 145.7 | 4.5 | 4.5 | 6 / 8 | 6,500 | 6,500 | 11,336 |
| | V390 | 99.8 | 157.5 | 4.5 | 4.5 | 6 / 8 | 6,500 | 6,400 | 11,387 |
| | V420 | 105.7 | 169.3 | 4.5 | 4.5 | 6 / 8 | 6,500 | 6,300 | 11,492 |
| | V440 | 111.6 | 177.2 | 4.5 | 4.5 | 6 / 5 | 6,480 | 6,180 | 11,557 |
| | V460 | 115.5 | 185.0 | 4.5 | 4.5 | 6 / 5 | 6,395 | 6,095 | 11,591 |
| | V490 | 121.4 | 196.9 | 4.5 | 4.5 | 6 / 5 | 6,305 | 6,005 | 11,643 |
| 3 / Stage full free lift | TF370 / TS370 | 72.2 | 145.7 | 25.8 | 45.8 | 6 / 5 | 6,500 | 6,200 | 11,606 |
| | TF400 / TS400 | 76.2 | 157.4 | 29.7 | 49.8 | 6 / 5 | 6,350 | 6,050 | 11,654 |
| | TF430 / TS430 | 80.1 | 169.3 | 33.7 | 53.7 | 6 / 5 | 6,240 | 5,940 | 11,709 |
| | TF450 / TS450 | 84.1 | 177.2 | 37.6 | 57.6 | 6 / 5 | 6,150 | 5,850 | 11,763 |
| | TF470 / TS470 | 86.0 | 185.0 | 39.6 | 59.6 | 6 / 5 | 6,085 | 5,785 | 11,795 |
| | TF500 / TS500 | 90.0 | 196.9 | 43.5 | 63.5 | 6 / 5 | 5,950 | 5,650 | 11,849 |
| | TF550 / TS550 | 97.8 | 216.5 | 51.4 | 71.4 | 6 / 5 | 5,775 | 5,475 | 11,947 |
| | TF600 / TS600 | 105.7 | 236.2 | 59.3 | 79.3 | 6 / 5 | 4,255 | 3,955 | 12,123 |

* TS-Mast : 3-Stage Dual Full Free Lift Mast

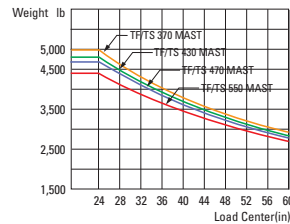
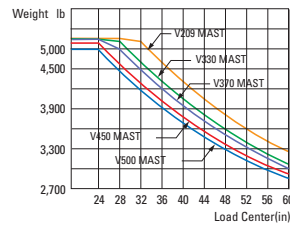
* Standard

Load Capacity

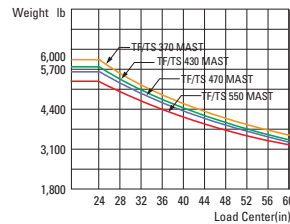
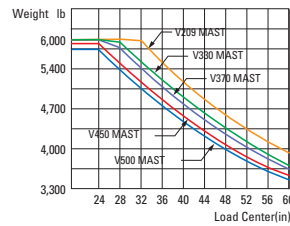
20BC-7



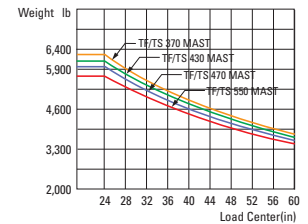
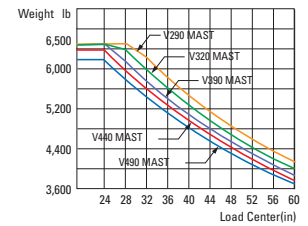
25BC-7



30BC-7



32BC-7



Various Attachments



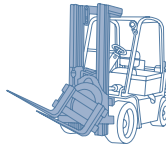
Side Shift



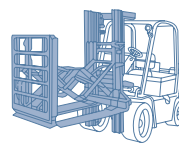
Hinged Fork



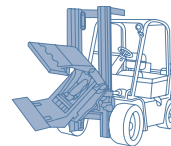
Hinged Bucket



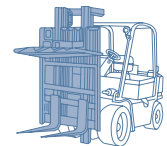
Rotating Fork



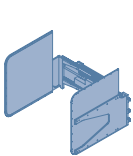
Push Pull



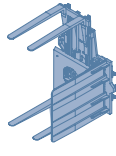
Rotating Roll Clamp



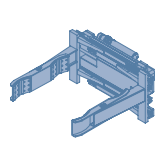
Load Stabilizer



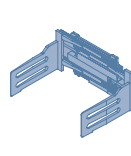
Carton Clamp



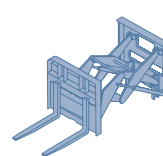
Pallet Invert



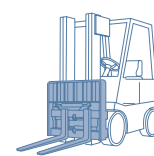
Drum Clamp



Bale Clamp



Load Extender



Fork Positioner

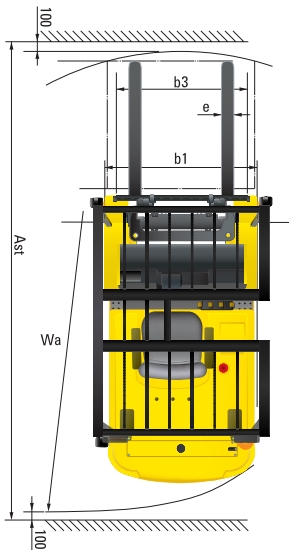
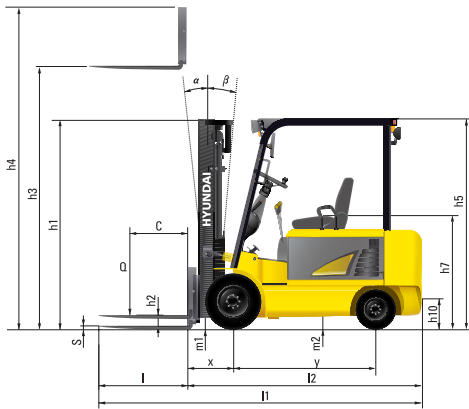
Optional Items

- **Mast**
3-Stage Full Free Lift, 3-Stage Dual Full Free Lift
4-Stage Full Free Lift
- **Fork(in)**
35.4 / 39.3 / 41.3 / 47.2 / 53.1 / 59.0 / 64.9 / 70.8
- **Overshoe(in)**
59.0 / 66.9 / 70.8

- **Side Shift**
- **Integral Side Shift**
- **Tire**
Smooth Rubber Type
Non-Marking (Lug or Smooth Type)
- **Cold Storage**
- **Dual Voltage** (36/48 V)

- **SBR**
(Side Battery Removing)
- **UL EE**
- **Finger Tip Control**
- **Strobe Light** (Amber, Red, Blue)

Dimension



Specification

Identification

| | | HYUNDAI | | | |
|------|--|----------|----------|----------|----------|
| 1. 1 | Manufacturer | | | | |
| 1. 2 | Manufacturer's type designation | 20BC-7 | 25BC-7 | 30BC-7 | 32BC-7 |
| 1. 3 | Drive : electric(battery or mains) ,diesel, petrol, fuel gas, manual | Electric | Electric | Electric | Electric |
| 1. 4 | Type of operation : hand, pedestrian, standing, seated, order - picker | Seated | Seated | Seated | Seated |
| 1. 5 | Load capacity / rated load | Q (lb) | 4,000 | 5,000 | 6,000 |
| 1. 6 | Load center distance | c (in) | 24 | 24 | 24 |
| 1. 8 | Load distance, center of drive axle to fork | x (in) | 18 | 18 | 18 |
| 1. 9 | Wheelbase | y (in) | 50.1 | 50.1 | 55.1 |

Weights

| | | | | | | |
|------|-------------------------------------|------|----------------|----------------|----------------|----------------|
| 2. 1 | Service weight | (lb) | 8,878 | 9,617 | 10,737 | 11,116 |
| 2. 2 | Axle loading, loaded front / rear | (lb) | 11,093 / 1,785 | 12,691 / 1,926 | 14,654 / 2,083 | 15,472 / 2,144 |
| 2. 3 | Axle loading, unloaded front / rear | (lb) | 3,828 / 5,050 | 3,609 / 6,008 | 4,190 / 6,547 | 4,136 / 6,980 |

Wheels, Chassis

| | | | | | |
|------|---|---------------|---------------|---------------|---------------|
| 3. 1 | Tires : solid rubber(V), superelastic(SE), pneumatic(P), polyurethane(PE) | V | V | V | V |
| 3. 2 | Tires size, front(φ x width) | 21 x 7 x 15 | 21 x 7 x 15 | 21 x 8 x 15 | 21 x 8 x 15 |
| 3. 3 | Tires size, rear(φ x width) | 16 x 6 x 10.5 | 16 x 6 x 10.5 | 16 x 6 x 10.5 | 16 x 6 x 10.5 |
| 3. 5 | Wheels, number front rear(x = driven wheels) | 2 x / 2 | 2 x / 2 | 2 x / 2 | 2 x / 2 |
| 3. 6 | Track width, front | in | 35 | 35 | 36 |
| 3. 7 | Track width, rear | in | 35.8 | 35.8 | 35.8 |

Basic Dimensions

| | | | | | | |
|-------|---|----------------|--------------------|--------------------|-------------------|-------------------|
| 4. 1 | Mast / fork carriage tilt forward / backward | degrees | 6 / 8 | 6 / 8 | 6 / 8 | 6 / 8 |
| 4. 2 | Lowered mast height | h1 (in) | 84 | 84 | 84 | 84 |
| 4. 3 | Free lift | h2 (in) | 4.5 | 4.5 | 4.5 | 4.5 |
| 4. 4 | Lift height | h3 (in) | 129.9 | 129.9 | 129.9 | 126 |
| 4. 5 | Extended mast height | h4 (in) | 176.6 | 176.6 | 176.6 | 172.6 |
| 4. 7 | Overhead load guard (cab) height | h5 (in) | 88 | 88 | 88 | 88 |
| 4. 8 | Seat height / Standing height | h7 (in) | 47 | 47 | 47 | 47 |
| 4. 12 | Coupling height | h10 (in) | 10.8 | 10.8 | 10.8 | 10.8 |
| 4. 19 | Overall length | l1 (in) | 125.3 | 127.6 | 133.1 | 134.4 |
| 4. 20 | Length to face of forks | l2 (in) | 83.9 | 86.3 | 91.8 | 93.1 |
| 4. 21 | Overall width | b1 (in) | 43.8 | 43.8 | 44 | 44 |
| 4. 22 | Fork dimensions | s / e / l (in) | 1.77 x 3.94 x 41.3 | 1.77 x 3.94 x 41.3 | 1.77 x 4.8 x 41.3 | 1.77 x 4.8 x 41.3 |
| 4. 23 | Fork carriage ISO 2328, class / type A, B | II / A | II / A | III / A | III / A | III / A |
| 4. 24 | Fork - carriage width | b3 (in) | 40.2 | 40.2 | 40.2 | 40.2 |
| 4. 31 | Ground clearance, loaded, under mast | m1 (in) | 3.54 | 3.54 | 3.54 | 3.54 |
| 4. 32 | Ground clearance, centre of wheelbase | m2 (in) | 4.21 | 4.21 | 4.21 | 4.21 |
| 4. 33 | Aisle width for pallets 1,000 x 1,200 crossways | Ast (in) | 138.6 | 139.6 | 145.5 | 146.6 |
| 4. 34 | Aisle width for pallets 800 x 1,200 length ways | Ast (in) | 130.7 | 131.7 | 137.6 | 138.8 |
| 4. 35 | Turning radius | Wa (in) | 74.2 | 75.2 | 81.3 | 82.5 |

Performance Data

| | | | | | | |
|-------|---|------|-----------------|-----------------|-----------------|-----------------|
| 5. 1 | Travel speed, loaded / unloaded (48V) | mph | 10.6 / 11.2 | 10.6 / 11.2 | 10.6 / 11.2 | 10.6 / 11.2 |
| | (36V) | mph | 8 / 9 | 8 / 9 | 8 / 9 | 8 / 9 |
| 5. 2 | Lift speed, loaded / unloaded (48V) | fpm | 82.6 / 120 | 80.7 / 120 | 67 / 98.4 | 65 / 98.4 |
| | (36V) | fpm | 55 / 86.6 | 55 / 86.6 | 55 / 86.6 | 55 / 86.6 |
| 5. 3 | Lowering speed, loaded / unloaded | fpm | 98.4 / 88.6 | 98.4 / 88.6 | 98.4 / 88.6 | 98.4 / 88.6 |
| 5. 5 | Drawbar pull, loaded / unloaded S2 60 min | N | - | - | - | - |
| 5. 6 | Max. drawbar pull, loaded / unloaded S2 5 min | N | 12,124 / 12,203 | 11,987 / 12,112 | 11,822 / 11,992 | 11,776 / 11,958 |
| 5. 7 | Gradient performance, loaded / unloaded S2 30 min | % | - | - | - | - |
| 5. 8 | Max. gradient performance, loaded / unloaded S2 5 min | % | 20 / 20 | 17 / 19 | 15 / 18 | 14 / 17 |
| 5. 9 | Acceleration time, loaded / unloaded | - | - | - | - | - |
| 5. 10 | Service brake | Hyd. | Hyd. | Hyd. | Hyd. | Hyd. |

E - Motor

| | | | | | | |
|------|--|----|-----------------------|-----------------------|-----------------------|-----------------------|
| 6. 1 | Drive motor rating S2 60 min (48V) | kW | 14.2 | 14.2 | 14.2 | 14.2 |
| | (36V) | kW | - | - | - | - |
| 6. 2 | Pump motor rating at S3 - 15 % (48V) | kW | 18 | 18 | 18 | 18 |
| | (36V) | kW | - | - | - | - |
| 6. 4 | Battery voltage, nominal capacity KS (48V) | Ah | 740 | 740 | 845 | 845 |
| | (36V) | Ah | - | - | - | - |
| 6. 5 | Battery weight (min) | lb | 2,490 | 2,490 | 3,000 | 3,000 |
| | Battery compartment dimensions L / W / H | in | 39.76 / 30.55 / 23.62 | 39.76 / 30.55 / 23.62 | 39.76 / 34.49 / 23.62 | 39.76 / 34.49 / 23.62 |
| 6. 6 | Type of drive control | AC | AC | AC | AC | AC |



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