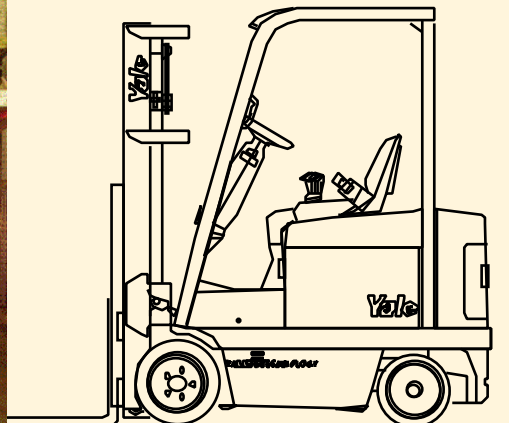


Electric Forklift Truck with AC Technology 1,600 kg - 2,000 kg

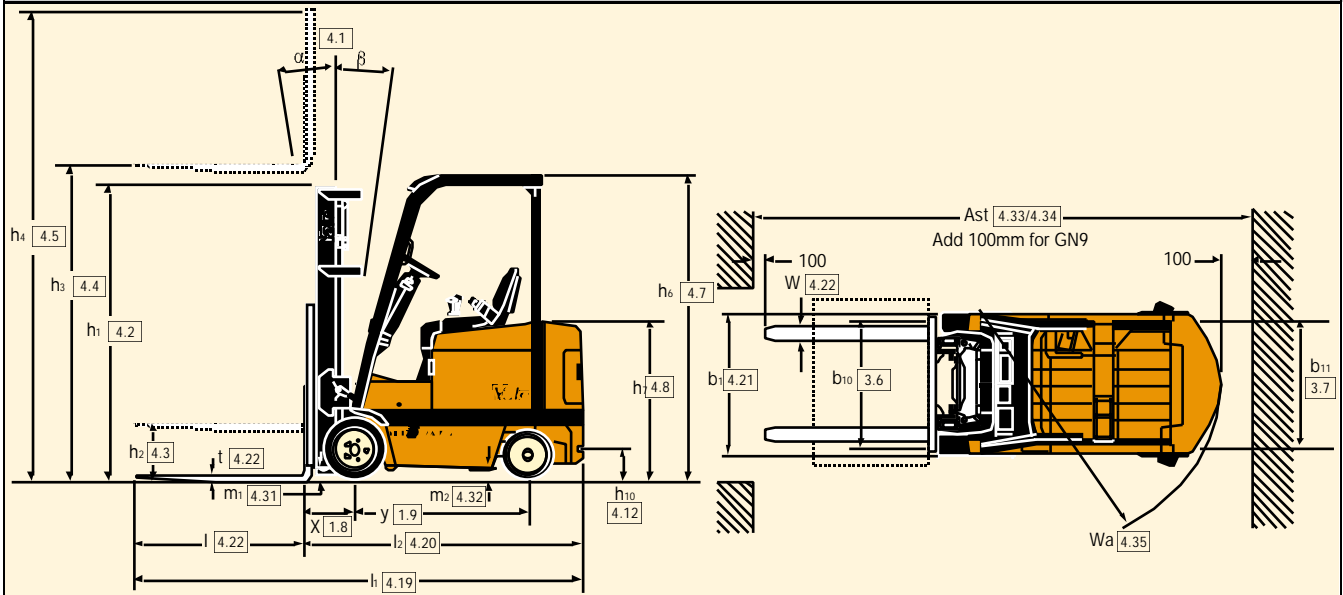
Yale

AAF



- Yale AC technology
- Optimum operator comfort
- Thermally controlled fans (TCF™)
- Available with Cushion and Supercushion tyres
- Easy battery changeovers
- 4 performance settings plus an extended shift setting allow a choice between high performance and extra economy

Truck Dimensions



Mast details and capacity ratings (kg) - Cushion tyres

| Model | | ERC 16 AAF | | | | | | | | | | | ERC 18 AAF | | | | | | ERC 20 AAF | | | | | |
|----------------------|-----------|---------------------|-------------|---------------------|------|---|-----------|-----------|-----------|--------------------|-----------|-----------|-------------|-----------|-----------|--------------------|-----------|-----------|-------------|-----------|-----------|--------------------|-----------|-----------|
| Tyres | | 18x6x12-1/8 | | | | | | | | | | | 18x6x12-1/8 | | | | | | 18x7x12-1/8 | | | | | |
| Width across tyres | | 945mm | | | | | | | | | | | 945mm | | | | | | 990mm | | | | | |
| Mast | OAH h1 | FFH h2+s | MFH h3+s | h4 | Tilt | | Forks | | | Integral Sideshift | | | Forks | | | Integral Sideshift | | | Forks | | | Integral Sideshift | | |
| | | | | | F | B | 500 LC | 600 LC | 700 LC | 500 LC | 600 LC | 700 LC | 500 LC | 600 LC | 700 LC | 500 LC | 600 LC | 700 LC | 500 LC | 600 LC | 700 LC | 500 LC | 600 LC | 700 LC |
| 2-Stg. LFL (V) | 1980 | 140 | 3030 | 3606 ⁽¹⁾ | 6 | 8 | 1600 | 1560 | 1410 | 1600 | 1470 | 1340 | 1800 | 1740 | 1580 | 1800 | 1650 | 1500 | 2000 | 1920 | 1740 | 2000 | 1820 | 1650 |
| | 2130 | 140 | 3330 | 3906 ⁽¹⁾ | 6 | 8 | 1600 | 1560 | 1410 | 1600 | 1470 | 1340 | 1800 | 1740 | 1570 | 1800 | 1640 | 1490 | 2000 | 1910 | 1730 | 1990 | 1810 | 1650 |
| | 2380 | 140 | 3830 | 4406 ⁽¹⁾ | 6 | 8 | 1600 | 1550 | 1400 | 1600 | 1460 | 1330 | 1800 | 1730 | 1570 | 1800 | 1640 | 1490 | 2000 | 1910 | 1730 | 1970 | 1810 | 1640 |
| | 2730 | 140 | 4330 | 4906 ⁽¹⁾ | 6 | 5 | 1560 | 1500 | 1360 | 1560 | 1430 | 1290 | 1750 | 1660 | 1520 | 1720 | 1560 | 1430 | 1950 | 1840 | 1680 | 1890 | 1750 | 1610 |
| 2-Stg. FFL (F) | 1980 | 1375 ⁽²⁾ | 3070 | 3675 ⁽¹⁾ | 6 | 8 | 1600 | 1550 | 1400 | 1600 | 1460 | 1330 | 1800 | 1730 | 1570 | 1800 | 1640 | 1490 | 2000 | 1910 | 1730 | 1980 | 1810 | 1640 |
| | 2080 | 1475 ⁽²⁾ | 3270 | 3875 ⁽¹⁾ | 6 | 8 | 1600 | 1550 | 1400 | 1600 | 1460 | 1330 | 1800 | 1730 | 1560 | 1800 | 1630 | 1490 | 2000 | 1900 | 1720 | 1970 | 1800 | 1640 |
| | 2380 | 1775 ⁽²⁾ | 3870 | 4475 ⁽¹⁾ | 6 | 8 | 1600 | 1540 | 1390 | 1600 | 1450 | 1320 | 1800 | 1690 | 1550 | 1780 | 1620 | 1480 | 1980 | 1900 | 1720 | 1940 | 1800 | 1630 |
| 3-Stg. FFL (E) | 1830 | 1230 ⁽²⁾ | 4050 | 4650 ⁽¹⁾ | 6 | 5 | 1600 | 1530 | 1390 | 1600 | 1450 | 1320 | 1790 | 1700 | 1540 | 1770 | 1610 | 1450 | 2000 | 1890 | 1710 | 1950 | 1790 | 1630 |
| | 1980 | 1380 ⁽²⁾ | 4500 | 5100 ⁽¹⁾ | 6 | 5 | 1380 | 1380 | 1340 | 1410 | 1380 | 1270 | 1410 | 1410 | 1410 | 1430 | 1430 | 1410 | 1790 | 1790 | 1660 | 1840 | 1720 | 1560 |
| | 2130 | 1530 ⁽²⁾ | 4950 | 5550 ⁽¹⁾ | 6 | 5 | 1090 | 1090 | 1090 | 1090 | 1090 | 1090 | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 1380 | 1380 | 1380 | 1410 | 1410 | 1410 |
| | 2380 | 1780 ⁽²⁾ | 5550 | 6150 ⁽¹⁾ | 6 | 5 | 750 | 750 | 750 | 750 | 750 | 750 | 700 | 700 | 700 | 700 | 700 | 700 | 950 | 950 | 950 | 950 | 950 | 950 |
| | 2580 | 1980 ⁽²⁾ | 6000 | 6600 ⁽¹⁾ | 6 | 5 | 540 | 540 | 540 | 520 | 520 | 520 | 500 | 500 | 500 | 480 | 480 | 480 | 700 | 700 | 700 | 680 | 680 | 680 |

Mast details and capacity ratings (kg) - Supercushion tyres

| Model | | ERP 16 AAF | | | | | | | | | | | ERP 18 AAF | | | | | | ERP 20 AAF | | | | | |
|----------------------|-----------|---------------------|-------------|---------------------|------|---|-----------|-----------|-----------|--------------------|-----------|-----------|------------|-----------|-----------|--------------------|-----------|-----------|------------|-----------|-----------|--------------------|-----------|-----------|
| Tyres | | 18 x 7-8 | | | | | | | | | | | 18 x 7-8 | | | | | | 200/50-10 | | | | | |
| Width across tyres | | 1075mm | | | | | | | | | | | 1075mm | | | | | | 1144mm | | | | | |
| Mast | OAH h1 | FFH h2+s | MFH h3+s | h4 | Tilt | | Forks | | | Integral Sideshift | | | Forks | | | Integral Sideshift | | | Forks | | | Integral Sideshift | | |
| | | | | | F | B | 500 LC | 600 LC | 700 LC | 500 LC | 600 LC | 700 LC | 500 LC | 600 LC | 700 LC | 500 LC | 600 LC | 700 LC | 500 LC | 600 LC | 700 LC | 500 LC | 600 LC | 700 LC |
| 2-Stg. LFL (V) | 1980 | 140 | 3030 | 3606 ⁽¹⁾ | 6 | 8 | 1600 | 1560 | 1410 | 1600 | 1470 | 1340 | 1800 | 1740 | 1580 | 1800 | 1650 | 1500 | 2000 | 1920 | 1740 | 2000 | 1820 | 1650 |
| | 2130 | 140 | 3330 | 3906 ⁽¹⁾ | 6 | 8 | 1600 | 1560 | 1410 | 1600 | 1470 | 1340 | 1800 | 1740 | 1570 | 1800 | 1640 | 1490 | 2000 | 1910 | 1730 | 1990 | 1810 | 1650 |
| | 2380 | 140 | 3830 | 4406 ⁽¹⁾ | 6 | 8 | 1600 | 1550 | 1400 | 1600 | 1460 | 1330 | 1800 | 1680 | 1540 | 1730 | 1590 | 1460 | 2000 | 1860 | 1700 | 1950 | 1780 | 1640 |
| | 2730 | 140 | 4330 | 4906 ⁽¹⁾ | 6 | 5 | 1560 | 1500 | 1360 | 1560 | 1430 | 1290 | 1720 | 1610 | 1470 | 1660 | 1520 | 1410 | 1930 | 1770 | 1660 | 1820 | 1680 | 1560 |
| 2-Stg. FFL (F) | 1980 | 1375 ⁽²⁾ | 3070 | 3675 ⁽¹⁾ | 6 | 8 | 1600 | 1550 | 1400 | 1600 | 1460 | 1330 | 1800 | 1730 | 1570 | 1800 | 1640 | 1490 | 2000 | 1910 | 1730 | 1980 | 1810 | 1640 |
| | 2080 | 1475 ⁽²⁾ | 3270 | 3875 ⁽¹⁾ | 6 | 8 | 1600 | 1550 | 1400 | 1600 | 1460 | 1330 | 1800 | 1730 | 1560 | 1800 | 1630 | 1490 | 2000 | 1900 | 1720 | 1970 | 1800 | 1640 |
| | 2380 | 1775 ⁽²⁾ | 3870 | 4475 ⁽¹⁾ | 6 | 8 | 1600 | 1540 | 1390 | 1600 | 1450 | 1320 | 1800 | 1650 | 1530 | 1710 | 1580 | 1450 | 1980 | 1850 | 1690 | 1920 | 1750 | 1630 |
| 3-Stg. FFL (E) | 1830 | 1230 ⁽²⁾ | 4050 | 4650 ⁽¹⁾ | 6 | 5 | 1600 | 1530 | 1390 | 1600 | 1450 | 1320 | 1770 | 1660 | 1540 | 1720 | 1590 | 1450 | 2000 | 1850 | 1710 | 1930 | 1770 | 1630 |
| | 1980 | 1380 ⁽²⁾ | 4500 | 5100 ⁽¹⁾ | 6 | 5 | 1540 | 1470 | 1340 | 1540 | 1380 | 1250 | 1700 | 1610 | 1470 | 1660 | 1520 | 1380 | 1930 | 1790 | 1630 | 1840 | 1700 | 1560 |
| | 2130 | 1530 ⁽²⁾ | 4950 | 5550 ⁽¹⁾ | 6 | 5 | 1340 | 1340 | 1270 | 1360 | 1320 | 1200 | 1360 | 1360 | 1360 | 1380 | 1380 | 1320 | 1810 | 1720 | 1560 | 1790 | 1630 | 1500 |
| | 2380 | 1780 ⁽²⁾ | 5550 | 6150 ⁽¹⁾ | 6 | 5 | 980 | 980 | 980 | 980 | 980 | 980 | 980 | 980 | 980 | 980 | 980 | 980 | 1360 | 1360 | 1360 | 1380 | 1380 | 1380 |
| | 2580 | 1980 ⁽²⁾ | 6000 | 6600 ⁽¹⁾ | 6 | 5 | 770 | 770 | 770 | 750 | 750 | 750 | 730 | 730 | 730 | 730 | 730 | 730 | 1090 | 1090 | 1090 | 1090 | 1090 | 1090 |

(1) Add 650mm with load backrest extension.

(2) Deduct 650mm with load backrest extension.

VDI 2198 - General Specifications

| | | Yale | | Yale | | Yale | | | | | |
|-----------------|----------------------|--|--------------------------------|------------|--------------|------------|--------------|------------|--------|------------|------|
| Characteristics | 1.1 | Manufacturer | Yale | | Yale | | Yale | | | | |
| | 1.2 | Model designation | ERC/ERP16AAF | | ERC/ERP18AAF | | ERC/ERP20AAF | | | | |
| | 1.3 | Drive: Electric | Battery | | Battery | | Battery | | | | |
| | 1.4 | Type of control - Stand-on, seated | Seated | | Seated | | Seated | | | | |
| | 1.5 | Load capacity | Q (kg) | 1600 | | 1800 | | 2000 | | | |
| | 1.6 | Load centre | c (mm) | 500 | | 500 | | 500 | | | |
| | 1.8 | Load distance | x (mm) | 360 | | 360 | | 360 | | | |
| | 1.9 | Wheelbase | y (mm) | 1220 | | 1220 | | 1220 | | | |
| | Weights | 2.1 | Unladen weight | kg | 3316 | | 3316 | | 3518 | | |
| 2.2 | | Axle loadings laden, front/rear | kg | 4150 | 766 | 4490 | 626 | 4807 | 712 | | |
| 2.3 | | Axle loadings unladen, front/rear | kg | 1422 | 1894 | 1422 | 1894 | 1396 | 2122 | | |
| Wheels & Tyres | 3.1 | Tyres - C=Cushion, SC=Supercushion, P= Pneumatic | C | | SC | | C | | SC | | |
| | 3.2 | Tyre size - front | 18x6x12.1 | | 18x7-8 | | 18x6x12.1 | | 18x7-8 | | |
| | 3.3 | Tyre size - rear | 15x5x11.25 | | 16x6-8 | | 15x5x11.25 | | 16x6-8 | | |
| | 3.5 | Number of wheels front/rear (X = driven) | 2 X | 2 | 2 X | 2 | 2 X | 2 | 2 X | 2 | |
| | 3.6 | Track width - front | b10 (mm) | 793 | | 897 | | 793 | | 897 | |
| | 3.7 | Track width - rear | b11 (mm) | 830 | | 860 | | 830 | | 860 | |
| | Dimensions | 4.1 | Mast tilt forward / backward | degrees | 6 | | 8 | | 6 | | 8 |
| 4.2 | | Height, mast lowered | h1 (mm) | 2130 | | 2130 | | 2130 | | 2130 | |
| 4.3 | | Free lift | h2 (mm) | 100 | | 100 | | 100 | | 100 | |
| 4.4 | | Lift height | h3 (mm) | 3290 | | 3290 | | 3290 | | 3290 | |
| 4.5 | | Height of mast extended | h4 (mm) | 3906 | | 3906 | | 3906 | | 3906 | |
| 4.7 | | Height to top of overhead guard ○ | h6 (mm) | 2175 | 2205 | 2175 | 2205 | 2175 | 2205 | 2175 | 2205 |
| 4.8 | | Seat height ✓✓✓ | h7 (mm) | 1125 | 1155 | 1125 | 1155 | 1125 | 1155 | 1125 | 1155 |
| 4.12 | | Coupling height | h10 (mm) | 232 | | 232 | | 232 | | 232 | |
| 4.19 | | Overall length | l1 (mm) | 2929 | | 2929 | | 2929 | | 2968 | |
| 4.20 | | Length to front face of forks | l2 (mm) | 1929 | | 1929 | | 1929 | | 1968 | |
| 4.21 | | Overall width | b1 (mm) | 945 | 1075 | 945 | 1075 | 990 | 1144 | 990 | 1144 |
| 4.22 | | Fork dimensions | s/e/l (mm) | 40x80x1000 | | 40x80x1000 | | 40x80x1000 | | 40x80x1000 | |
| 4.23 | | Fork carriage to DIN 15173, Class A/B | | IIA | | IIA | | IIA | | IIA | |
| 4.24 | | Fork carriage width ▶ | b3 (mm) | 939 | | 939 | | 939 | | 939 | |
| 4.31 | | Ground clearance under mast, laden | m1 (mm) | 87 | | 87 | | 87 | | 87 | |
| 4.32 | | Ground clearance, centre of wheelbase | m2 (mm) | 109 | | 109 | | 109 | | 109 | |
| 4.33 | | Aisle width for pallets 1000 x 1200 wide | Ast (mm) | 3226 | | 3226 | | 3226 | | 3261 | |
| 4.34 | | Aisle width for pallets 800 x 1200 long | Ast (mm) | 3417 | | 3417 | | 3417 | | 3452 | |
| 4.35 | | Outer turning radius | Wa (mm) | 1657 | | 1657 | | 1657 | | 1692 | |
| 4.36 | Inner turning radius | b13 (mm) | 447 | | 447 | | 447 | | 447 | | |
| Performance | 5.1 | Travel speed, laden/unladen | km/h | 14.3 | 15.3 | 14.0 | 15.3 | 13.5 | 15.3 | 13.5 | 15.3 |
| | 5.2 | Lifting speed, laden/unladen | m/sec | 0.49 | 0.68 | 0.47 | 0.68 | 0.45 | 0.68 | 0.45 | 0.68 |
| | 5.3 | Lowering speed, laden/unladen | m/sec | 0.51 | 0.47 | 0.51 | 0.47 | 0.51 | 0.47 | 0.51 | 0.47 |
| | 5.5 | Rated drawbar pull, laden/unladen (60 min) | N | 2672 | 3052 | 2589 | 3025 | 2499 | 2991 | 2499 | 2991 |
| | 5.6 | Max. drawbar pull, laden/unladen (5 min) | N | 6294 | 6718 | 6210 | 6691 | 6121 | 6657 | 6121 | 6657 |
| | 5.7 | Gradeability, laden/unladen (30 min) | % | 8 | 12 | 7 | 11 | 6 | 11 | 6 | 11 |
| | 5.8 | Max. gradeability, laden/unladen (5 min) | % | 14 | 21 | 13 | 20 | 12 | 19 | 12 | 19 |
| | 5.9 | Acceleration time, laden/unladen | sec | 5.1 | 5.0 | 5.1 | 5.0 | 5.1 | 5.0 | 5.1 | 5.0 |
| | 5.10 | Service brakes | | Hydraulic | | Hydraulic | | Hydraulic | | Hydraulic | |
| | Motor | 6.1 | Drive motor rating (S2 60 min) | kW | 10.5 | | 10.5 | | 10.5 | | 10.5 |
| 6.2 | | Hoist motor rating (S3 15%) | kW | 14.0 | | 14.0 | | 14.0 | | 14.0 | |
| 6.3 | | Battery DIN 43531/35/36 A, B, C, no | | no | | no | | no | | no | |
| 6.4 | | Battery voltage/capacity (5 hr rate) | V/ah | 48 / 720 | | 48 / 720 | | 48 / 720 | | 48 / 720 | |
| 6.5 | | Battery weight | kg | 943 | | 943 | | 943 | | 943 | |
| Other | 8.1 | Drive control | | AC | | AC | | AC | | AC | |
| | 8.2 | Operating pressure for attachments | bar | 155 | | 155 | | 155 | | 155 | |
| | 8.3 | Oil flow for attachments | l/min | 40 | | 40 | | 40 | | 40 | |
| | 8.4 | Average noise level at operator's ear ★ | dB (A) | 67 | | 67 | | 67 | | 67 | |
| | 8.5 | Towing coupling type | | Pin | | Pin | | Pin | | Pin | |

★ L(eq) at driver's ear to BITA GN20
 ✓✓✓ Deduct 9mm for semi-suspension seat
 ▶ Subtract 32mm for no load backrest

○ h6 subject to +/- 5 mm tolerance
 All variable weights and dimensions are based on the following specifications:-

Unladen truck with min. battery, standard seat and overhead guard:-
 2 stage LFL mast 3330mm.

Hook type carriage with load backrest 1010mm
 Fork length 1000mm

Models:

16AAF, 18AAF, 20AAF

AC Technology

Yale AC technology traction and hoist motors are suitable for the most arduous applications. Smooth forward and reverse directional changes providing seamless driving action. With the extended shift setting deactivated, AC technology provides increased speed and acceleration, even when fully laden, and increased speed on grade.

As well as improving performance, AC technology reduces maintenance and allows service intervals of 1000 hours*.

Performance modes

Performance of the truck can be tailored to the requirements of your application or the preferences of your driver, with 4 preset performance modes available. For maximum speed and acceleration, choose mode 4, or for more delicate manoeuvres and extended battery life, mode 1 is ideal.

Your service technician can alter the top speed and acceleration of mode 4, with modes 1, 2 and 3 being automatically adjusted as percentages of setting 4.

Extended shift setting

All AAF series trucks feature an extended shift setting (accessible via the dash display with service password), which provides exceptionally energy efficient performance for when you require continuous operation over longer periods without recharging the battery.

Truck Management system The AAF boasts a comprehensive truck management system.

Operator passwords enable the warehouse manager to maintain tight control of the fleet. Passwords can be linked to the performance settings to suit driver preferences, or the operating environment, and higher performance modes can be limited for drivers with less experience or for handling fragile loads.

Operator passwords can be combined with the truck inspection function to prompt the operator to carry out vital checks of the truck prior to use. If the

driver indicates that the vehicle passes the truck inspection, the truck will operate normally. If not, the truck will operate in mode 1, minimising any potential damage to the truck, and the operator will be prompted to have the machine checked by a service technician via a message on the dash display.

Service passwords provide controlled access to the service functions of the vehicle, via the dash display.

Unlike most trucks, the AAF runs thermally controlled fans (TCF™) that only begin to operate when needed; when the controllers' temperature rises above certain limits.

Masts

A full range of Yale Hi-Vis 2 stg LFL and 2 and 3 stage FFL masts are available.

Yale hi-vis masts are designed for maximum visibility, with widely spaced channels, lift chains and main lift cylinders.

Low lifetime costs

Decreased maintenance and an increased service interval contribute to a low life time cost.

- Hard working AC technology reduces service intervals to 1000 hours*.
- The AC hoist and traction motors and brushless DC steering motor completely eliminate brushes, meaning that the motors require a minimum of maintenance.
- Yale Auto Deceleration System (ADS) allows the truck to slow down to a stop when the operator's foot is released from the accelerator pedal improving brake life reducing new parts cost.
- CANbus technology results in a minimum of wiring, and transmits data effectively and efficiently, enabling early warning of maintenance requirements and rapid fault detection.
- The service password system gives instant access to service functions, and your service technician can make use of a service PC to aid diagnosis and minimise downtime.

Driver comfort

The AAF is designed for optimum operator comfort with spacious operator compartment, easy to handle control levers and adjustable seat. A higher seating position allows the driver maximum field of vision for more accurate positioning and fork tip visibility.

An ergonomically positioned handgrip eases entry and exit from the truck.

The comprehensive dash display includes performance mode selector, password access systems and a wide range of truck status indicators.

There is a choice of 20 languages for operators, and service technicians can choose between 5 pre-installed languages and one custom language.

Fault codes are displayed alphanumerically to minimise downtime.

In addition, AC drive control and the exceptionally low noise level (67 dB(A) equivalent sound pressure at operator's ear) provide a comfortable ride.

* Excludes mast lubrication and wheel nut torque checks (required at 500 hour service intervals).



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Safety. This truck conforms to the current EU requirements. Specification is subject to change without notice

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Truck shown with optional equipment