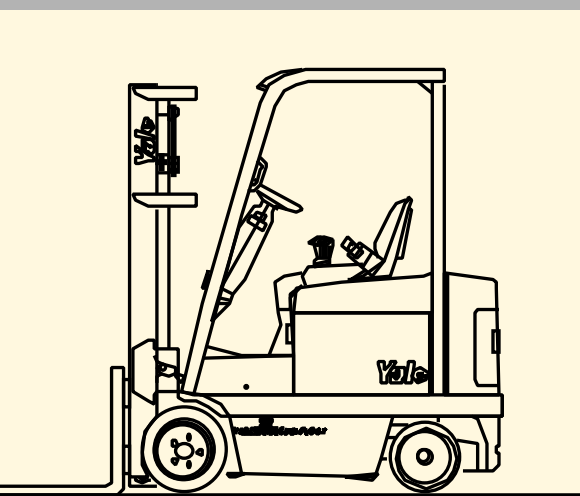




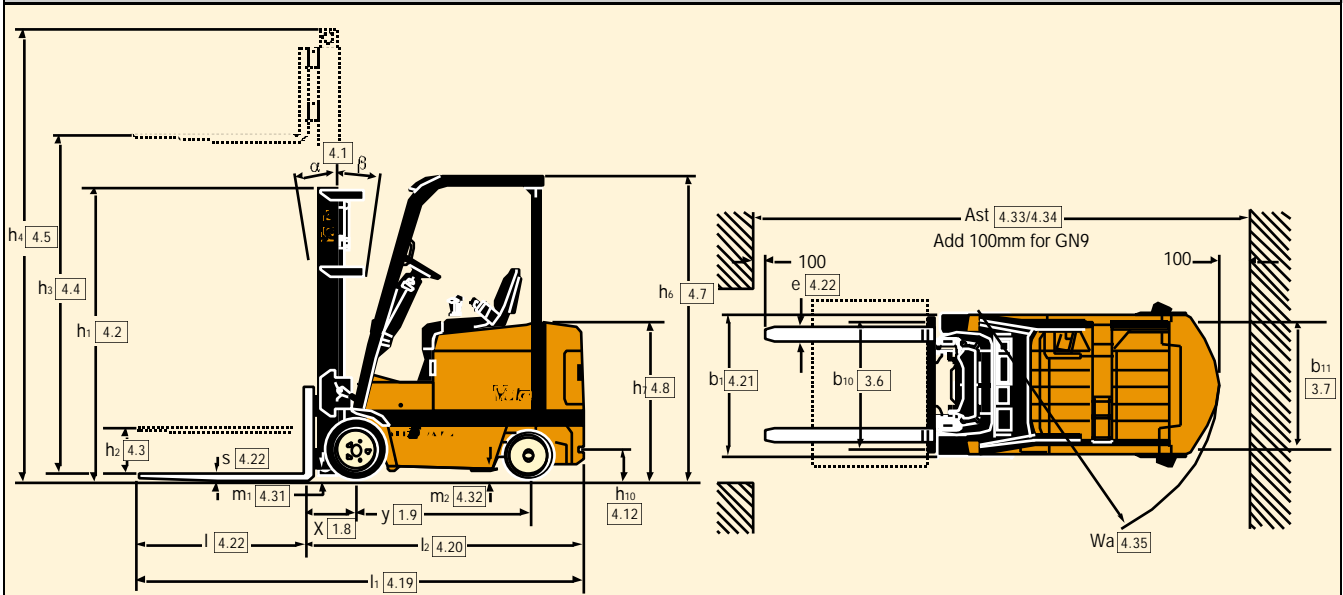
Electric Forklift Truck with AC Technology

1,600kg, 1,800kg and 2,000 kg



- Yale AC technology
- Optimum operator comfort
- Thermally controlled fans
- Available with Cushion and Supercushion tyres
- Easy battery changeovers
- Accutouch minilevers and Palmtech™ joystick available

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	1590	1440	1600	1500	1370	1800	1770	1600	1800	1670	1520	2000	1950	1760	2000	1850	1680
	2130	140	3330	3906 ⁽¹⁾	6	8	1600	1580	1430	1600	1500	1360	1800	1760	1600	1800	1670	1520	2000	1940	1760	2000	1840	1680
	2380	140	3830	4406 ⁽¹⁾	6	8	1600	1580	1430	1600	1490	1360	1800	1760	1590	1800	1660	1510	2000	1940	1750	2000	1840	1670
	2730	140	4330	4906 ⁽¹⁾	6	5	1560	1540	1380	1560	1450	1320	1750	1680	1540	1750	1560	1450	1950	1860	1700	*1950	*1860	*1700
2-Stg. FFL (F)	1980	1351 ⁽²⁾	3015	3675 ⁽¹⁾	6	8	1600	1580	1430	1600	1490	1360	1800	1760	1590	1800	1660	1510	2000	1940	1750	2000	1840	1670
	2080	1451 ⁽²⁾	3215	3875 ⁽¹⁾	6	8	1600	1570	1420	1600	1490	1350	1800	1750	1590	1800	1660	1510	2000	1930	1750	2000	1840	1670
	2380	1751 ⁽²⁾	3815	4475 ⁽¹⁾	6	8	1600	1560	1420	1600	1480	1350	1800	1740	1580	1780	1650	1500	1990	1930	1740	1990	1830	1660
3-Stg. FFL (E)	1830	1206 ⁽²⁾	4000	4650 ⁽¹⁾	6	5	1600	1560	1410	1600	1480	1340	1790	1720	1560	1790	1630	1500	2000	1920	1740	2000	1820	1660
	1980	1356 ⁽²⁾	4450	5100 ⁽¹⁾	6	5	1540*	1520*	1360*	1540*	1430*	1290*	1720*	1660*	1500*	1720*	1560*	1430*	1950*	1860*	1860*	1950*	1770*	1610*
	2080	1456 ⁽²⁾	4750	5400 ⁽¹⁾	6	5	1520*	1470*	1340*	1520*	1380*	1270*	1720*	1660*	1500*	1720*	1560*	1380*	1900*	1810*	1630*	1900*	1720*	1500*
	2130	1506 ⁽²⁾	4900	5550 ⁽¹⁾	6	5	1500*	1450*	1320*	1500*	1360*	1250*	1610*	1590*	1450*	1660*	1520*	1380*	1770*	1770*	1610*	1810*	1700*	1540*
	2380	1756 ⁽²⁾	5500	6150 ⁽¹⁾	6	5	1220*	1220*	1220*	1220*	1220*	1160*	1220*	1220*	1220*	1250*	1250*	1250*	1340*	1340*	1340*	1360*	1360*	1360*
2580	1956 ⁽²⁾	5950	6600 ⁽¹⁾	6	5	1000*	1000*	1000*	1000*	1000*	1000*	980*	980*	980*	980*	980*	980*	1040*	1040*	1040*	1070*	1070*	1070*	

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	1590	1440	1600	1500	1370	1800	1770	1600	1800	1670	1520	2000	1950	1760	2000	1850	1680
	2130	140	3330	3906 ⁽¹⁾	6	8	1600	1580	1430	1600	1500	1360	1800	1760	1600	1800	1670	1520	2000	1940	1760	1990	1840	1680
	2380	140	3830	4406 ⁽¹⁾	6	8	1600	1580	1430	1600	1490	1360	1800	1710	1570	1780	1640	1510	2000	1890	1750	1980	1810	1670
	2730	140	4330	4906 ⁽¹⁾	6	5	1560	1520	1380	1560	1450	1320	1720	1630	1520	1700	1560	1450	1950	1810	1680	1880	1750	1610
2-Stg. FFL (F)	1980	1351 ⁽²⁾	3015	3675 ⁽¹⁾	6	8	1600	1580	1430	1600	1490	1360	1800	1760	1590	1800	1660	1510	2000	1940	1750	2000	1840	1670
	2080	1451 ⁽²⁾	3215	3875 ⁽¹⁾	6	8	1600	1570	1420	1600	1490	1350	1800	1750	1590	1800	1660	1510	2000	1930	1750	2000	1840	1670
	2380	1751 ⁽²⁾	3815	4475 ⁽¹⁾	6	8	1600	1560	1420	1600	1480	1350	1800	1700	1560	1760	1630	1500	2000	1880	1740	1970	1800	1660
3-Stg. FFL (E)	1830	1206 ⁽²⁾	4000	4650 ⁽¹⁾	6	5	1600	1560	1410	1600	1480	1340	1790	1700	1560	1770	1610	1500	2000	1900	1740	1950	1800	1660
	1980	1356 ⁽²⁾	4450	5100 ⁽¹⁾	6	5	1540	1500	1360	1540	1410	1290	1720	1660	1500	1700	1560	1430	1930	1840	1680	1880	1750	1590
	2080	1456 ⁽²⁾	4750	5400 ⁽¹⁾	6	5	1500	1450	1320	1500	1360	1250	1540	1540	1450	1540	1520	1380	1880	1770	1610	1840	1680	1540
	2130	1506 ⁽²⁾	4900	5550 ⁽¹⁾	6	5	1410	1410	1290	1430	1340	1220	1410	1410	1410	1450	1450	1340	1840	1770	1590	1840	1680	1520
	2380	1756 ⁽²⁾	5500	6150 ⁽¹⁾	6	5	1040	1040	1040	1070	1070	1070	1040	1040	1040	1040	1040	1040	1430	1430	1430	1450	1450	1410
2580	1956 ⁽²⁾	5950	6600 ⁽¹⁾	6	5	820	820	820	820	820	820	790	790	790	790	790	790	1160	1160	1160	1160	1160	1160	

* Wide tread required. ⁽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	Operation	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 (max. battery)	kg		3500		3710				
2.2		Axle loading laden, front/rear (max. battery)	kg	4115	805	4455	660	4790	725			
2.3		Axle loading unladen, front/rear (max. battery)	kg	1440	2065	1440	2065	1440	2270			
Wheels & Tyres	3.1	Tyres: P=pneumatic, C=cushion, SC=supercushion	C		SC		C		SC			
	3.2	Tyre size - front	18 x 6 x 12.125		18 x 7-8		18 x 6 x 12.125		18 x 7-8			
	3.3	Tyre size - rear	15 x 5 x 11.25		16 x 6-8		15 x 5 x 11.25		16 x 6-8			
	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, standard/wide tread	b10 (mm)	793	897	793	897	812	937			
	3.7	Track width, rear	b11 (mm)	817	846	817	846	817	846			
	Dimensions	4.1	Mast tilt, forward / back	degrees		6		8		6		8
4.2		Height of mast, lowered	h1 (mm)		2130		2130		2130			
4.3		Free lift ▲	h2 (mm)		100		100		100			
4.4		Lift height ▲	h3 (mm)		3290		3290		3290			
4.5		Height of mast, extended +	h4 (mm)		3906		3906		3906			
4.7		Height to top of overhead guard ○	h6 (mm)		2175		2205		2175		2205	
4.8		Seat height ✕	h7 (mm)		1125		1155		1125		1155	
4.12		Towing coupling height	h10 (mm)		232		232		232			
4.19		Overall length	l1 (mm)		2929		2929		2968			
4.20		Length to front face of forks	l2 (mm)		1929		1929		1968			
4.21		Overall width	b1 (mm)		945		1075		990		1144	
4.22		Fork dimensions	s/e/l (mm)		40x80x1000		40x80x1000		40x80x1000			
4.23		Fork carriage DIN 15173. Class, A/B			IIA		IIA		IIA			
4.24		Fork carriage width ▶	b3 (mm)		910		910		910			
4.31		Ground clearance under mast, laden	m1 (mm)		87		87		87			
4.32		Ground clearance at centre of wheelbase	m2 (mm)		109		109		109			
4.33		Aisle width with pallets 1000 long x 1200 wide	Ast (mm)		3226		3226		3261			
4.34		Aisle width for pallets 800 wide x 1200 long	Ast (mm)		3417		3417		3452			
4.35		Outer turning radius	Wa (mm)		1657		1657		1692			
4.36	Inner turning radius	b13 (mm)		447		447		447				
Performance	5.1	Travel speed laden/unladen	km/h		14.3		15.3		14.0		15.3	
	5.2	Lifting speed laden/unladen	m/sec		0.49		0.68		0.47		0.68	
	5.3	Lowering speed laden/unladen	m/sec		0.51		0.47		0.51		0.47	
	5.5	Drawbar pull laden/unladen, 60 minute rating	N		2672		3052		2589		3025	
	5.6	Max. drawbar pull laden/unladen, 5 minute rating	N		6294		6718		6210		6691	
	5.7	Gradeability laden/unladen, 30 minute rating	%		8		12		7		11	
	5.8	Max. gradeability, laden/unladen, 5 minute rating	%		14		21		13		20	
	5.9	Acceleration time laden/unladen	sec		5.1		5.0		5.1		5.0	
	5.10	Service brake			Hydraulic		Hydraulic		Hydraulic		Hydraulic	
	Motor	6.1	Drive motor output (S2 60 minute rating)	kW		13.7		13.7		13.7		13.7
6.2		Lifting motor, (S3 15% rating)	kW		14.0		14.0		14.0		14.0	
6.3		Battery to DIN 43531/35/36 A, B, C, no			no		no		no		no	
6.4		Battery voltage/capacity at 5hr rate	V/ah		48		690		48		690	
6.5		Battery weight (min/max)	kg		943		1132		943		1132	
6.6		Power consumption in accordance with VDI cycle	kWh/h									
Other	8.1	Drive control			AC electronic		AC electronic		AC electronic		AC electronic	
	8.2	Working 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)		69		69		69		69	
	8.5	Towing coupling type			Pin		Pin		Pin		Pin	

★ L_{PAZ}, measured according to the test cycles and based on the weighting values contained in EN12053

▲ Top of forks

✕ Low rider fitted add 37mm for full suspension seat

+ Without load backrest

▶ Add 32mm with load backrest

○ h₆ subject to +/- 5mm tolerance, add 63mm for raised guard

† Variable

Spec sheet truck based on :- 3330mm top of fork 2 stage LFL mast with standard carriage and 1000mm forks with LBR with extended shift on.

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.
- Auto Regen Braking optimises the shift life of the battery.
- 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 alpha-numerically 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.

Options

- Foot directional control
- Lighting kits
- Reverse alarm
- Integrated Sideshift
- Accutouch minilevers
- Palmtech™ joystick

* 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