

N Series AEFN-1.6T / AEFN-1.8T

Mast table AEFN - 1.6T / AEFN - 1.8T

Designation	Lift height h ₁ (mm)	Free lift height h ₂ (mm)	Closed mast height h ₃ (mm)	Extended mast height h ₄ (mm)	Tilt forward/backward α/β(°)	Capacity table(kg) C=500(mm) without sideshift single solid tyres	
						AEFN - 1.6T	AEFN - 1.8T
Two-stage STD	2500	125	1760	3387	6/10	1600	1750
	2700	125	1860	3587	6/10	1600	1750
	3000	125	2010	3887	6/10	1600	1750
	3300	125	2160	4187	6/10	1600	1750
	3500	125	2260	4387	6/10	1600	1750
	3700	125	2360	4587	6/10	1600	1750
	4000	125	2560	4887	6/6	1500	1700
	4300	125	2710	5187	6/6	1450	1550
Two-stage FL	2500	807	1760	3473	6/10	1600	1750
	2700	907	1860	3673	6/10	1600	1750
	3000	1057	2010	3973	6/10	1600	1750
	3300	1207	2160	4273	6/10	1600	1750
	3500	1307	2260	4473	6/10	1600	1750
	3700	1407	2360	4673	6/10	1600	1750
	4000	1607	2560	4973	6/10	1500	1650
	Three-stage FFL	4000	954	1945	4981	6/6	1500
4300		1079	2070	5330	6/6	1450	1550
4500		1129	2120	5480	6/6	1400	1500
4800		1229	2220	5780	6/6	1300	1400
5000		1329	2320	5980	6/6	1100	1200
5500		1479	2470	6481	3/6	900	1000
6000		1679	2670	6980	3/6	600	700

Mast table AEFN - 2T / AEFN - 2.5T

Designation	Lift height h ₁ (mm)	Free lift height h ₂ (mm)	Closed mast height h ₃ (mm)	Extended mast height h ₄ (mm)	Tilt forward/backward α/β(°)	Capacity table(kg) C=500(mm) without sideshift single solid tyres	
						AEFN - 2T	AEFN - 2.5T
Two-stage STD	2000	120	1545	2977	6/10	2000	2500
	2500	120	1795	3227	6/10	2000	2500
	3000	120	2045	3977	6/10	2000	2500
	3300	120	2195	4277	6/10	2000	2500
	3500	120	2295	4477	6/10	2000	2500
	3600	120	2345	4577	6/10	2000	2500
	3700	120	2395	4677	6/6	2000	2500
	4000	120	2595	5077	6/6	2000	2450
	4300	120	2745	5377	6/6	1950	2300
	4500	120	2845	5577	6/6	1900	2100
Two-stage FL	2000	558	1545	2971	6/10	2000	2500
	2500	808	1795	3471	6/10	2000	2500
	3000	1058	2045	3971	6/10	2000	2500
	3300	1208	2195	4271	6/10	2000	2500
	3500	1308	2295	4471	6/10	2000	2500
	3600	1358	2345	4571	6/10	2000	2500
	3700	1408	2395	4671	6/6	2000	2500
	4000	1608	2595	4971	6/6	2000	2400
Three-stage FFL	4000	983	1970	4981	6/6	1900	2350
	4300	1108	2095	5331	6/6	1800	2200
	4500	1158	2145	5479	6/6	1750	2000
	4800	1258	2245	5779	6/6	1700	1900
	5000	1401	2388	5979	6/6	1600	1700
	5500	1635	2622	6479	3/6	1300	1400
	6000	1868	2855	6979	3/6	900	950
	6500	2102	3088	7479	3/3	500	550



AEFN - 1.6T AEFN - 2T AEFN - 3T



AC 1600-3500kg

4-wheel Electric N SERIES FORKLIFT

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Type sheet for industrial truck acc. to VDI 219								
Distinguishing mark								
1.2	Manufacturer's type designation		AEFN - 1.6T	AEFN - 1.8T	AEFN - 2T	AEFN - 2.5T	AEFN - 3T	AEFN - 3.5T
1.3	Drive:electric(battery or mains),diesel,petrol gas,manual		Electric	Electric	Electric	Electric	Electric	Electric
1.4	Type of operation(hand,pedestrian,standing,seated,order-picker)		seated	seated	seated	seated	seated	seated
1.5	Load capacity/rated load	Q(kg)	1600	1750	2000	2500	3000	3500
1.6	Load centre distance	c(mm)	500	500	500	500	500	500
1.8	Load distance,centre of drive axle to fork	x(mm)	381	381	453	453	478	483
1.9	wheelbase	y(mm)	1360	1360	1500	1500	1650	1650
Weight								
2.1	Service weight incl. battery(see line 6.5)	kg	3120	3260	4010	4260	4890	5270
2.2	Axle loading ,laden front/rear	kg	3950/770	4420/690	5260/750	6020/750	7070/820	7750/1020
2.3	Axle loading,unladen front/rear	kg	1470/1650	1490/1770	1900/2110	1940/2320	2210/2680	2190/3080
Tyres,chassis								
3.1	Type:solid rubber,superelastic,pneumatic,polyurethane		Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Solid rubber
3.2	Tyres size,front		6.50-10-10PR	6.50-10-10PR	23×9-10-18PR	23×9-10-18PR	23×9-10-18PR	23×10-12
3.3	Tyres size,rear		5.00-8-10PR	5.00-8-10PR	18×7-8-14PR	18×7-8-14PR	18×7-8-14PR	200/50-10
3.5	Wheels,number front/rear(×=driven wheels)		2×/2	2×/2	2×/2	2×/2	2×/2	2×/2
3.6	Track width,front	b ₀ (mm)	1040	1040	1040	1040	1040	1058
3.7	Track width,rear	b ₁ (mm)	920	920	950	950	960	960
Dimensions								
4.1	Mast/fork carriage tilt forward/backward	α/β(°)	6/10	6/10	6/10	6/10	6/10	6/10
4.2	lowered mast height	h ₁ (mm)	2010	2010	2045	2045	2045	2045
4.3	Free lift	h ₂ (mm)	125	125	120	120	125	125
4.4	Lift height	h ₃ (mm)	3000	3000	3000	3000	3000	3000
4.5	Extended mast height	h ₄ (mm)	3887	3887	3977	3977	3977	3977
4.7	Overhead load guardheight	h ₅ (mm)	2200	2200	2210	2210	2210	2210
4.8	Seat height/standing height	h ₆ (mm)	1110	1110	1058	1058	1110	1110
4.12	Coupling height	h ₁₀ (mm)	290	290	295	295	295	295
4.19	Overall length	l ₁ (mm)	2981	2981	3393	3398	3605	3645
4.20	Length to face of forks	l ₂ (mm)	2061	2061	2323	2328	2535	2575
4.21	Overall width	b ₁ (mm)	1150	1150	1260	1260	1260	1290
4.22	Fork dimensions	s/e/l(mm)	35×100×920	35×100×920	40/120/1070	40/120/1070	45/125/1070	50/125/1070
4.24	Fork carriage width	b ₂ (mm)	920	920	1040	1040	1100	1100
4.31	Ground clearance ,laden,under mast	m ₁ (mm)	100	100	110	110	110	110
4.32	Ground clearance,centre of wheelbase	m ₂ (mm)	110	110	120	120	120	120
4.33	Aisle width for pallets 1000×1200 crossways	Ast(mm)	3161	3161	3713	3718	3898	3968
4.34	Aisle width for pallets 800×1200 lengthways	Ast(mm)	3361	3361	3913	3918	4098	4168
4.35	Turning radius	Wa(mm)	1820	1820	2050	2050	2230	2300
Performance								
5.1	Travel speed,laden/unladen	km/h	13/15	13/15	13/14	13/14	13/14	12/13
5.2	Lift speed,laden/unladen	m/s	0.32/0.42	0.30/0.42	0.30/0.4	0.27/0.39	0.31/0.4	0.30/0.39
5.3	lowering speed,laden/unladen	m/s	<600	<600	<0.6	<0.6	<0.6	<0.6
5.5	Drawbar pull,laden/unladen S ₂ 60 min	N	13000	13000	3300/2300	3300/2300	3500/2500	3800/2800
5.7	Max.Gradient performance,laden/unladen S ₂ 5 min	%	15/20	15/20	15/20	15/20	15/20	15/20
5.10	Service brake		hydraulic	hydraulic	hydraulic	hydraulic	hydraulic	hydraulic
Electric-engine								
6.1	Drive motor rating S ₂ 60 min	kW	6.8	6.8	11	11	15	15
6.2	Lift motor rating at S ₁ 15%	kW	8.6	8.6	8.6	8.6	10	10
6.3	Battery standard		BS	BS	BS	BS	BS	BS
6.4	Battery voltage,nominal capacity K ₂	V/Ah	48/400 (48/450/500)	48/450 (48/630/700/770)	48/600 (48/630/700/770)	48/600 (48/630/700/770)	80/500 (80/560/option)	80/500 (80/560/option)
6.5	Battery weight	kg	695	760	947	947	1350	1350
6.5	Battery dimensions l/w/h	mm	980×398×760	980×398×760	980/538/760	980/538/760	1016/688/760	1016/688/760
Additional data								
8.1	Type of drive control		AC	AC	AC	AC	AC	AC
8.2	Operating pressure for attachments	Mpa	17.5	17.5	17.5	17.5	17.5	17.5
8.3	Oil volume for attachments	l/min	36	36	36	36	36	36
8.4	Sound level at driver's ear according to EN 12.053	dB(A)	73	73	72	73	74	75

N Series AEFN-3T / AEFN 3.5T

Master table AEFN-3T / AEFN-3.5T

Designation	Lift height h ₁ (mm)	Free lift height h ₂ (mm)	Closed mast height h ₃ (mm)	Extended mast height h ₄ (mm)	Tilt forward/backward α/β(°)	Capacity table(kg) C=500(mm) without sideshift single solid tyres	
						AEFN-3T	AEFN-3.5T
Two-stage STD	2000	125	1545	2977	6/10	3000	3500
	2500	125	1795	3227	6/10	3000	3500
	3000	125	2045	3977	6/10	3000	3500
	3300	125	2195	4277	6/10	3000	3500
	3500	125	2295	4477	6/10	3000	3500
	3600	125	2345	4577	6/10	3000	3500
	3700	125	2395	4677	6/6	3000	3500
	4000	125	2595	5077	6/6	2950	3300
	4300	125	2745	5377	6/6	2850	3250
Two-stage FL	2000	563	1545	2971	6/10	3000	3500
	2500	813	1795	3471	6/10	3000	3500
	3000	1063	2045	3971	6/10	3000	3500
	3300	1213	2195	4271	6/10	3000	3500
	3500	1313	2295	4471	6/10	3000	3500
Three-stage FFL	4000	988	1970	4981	6/6	2900	3250
	4300	1113	2095	5331	6/6	2700	3150
	4500	1163	2145	5479	6/6	2600	3000
	4800	1263	2245	5779	6/6	2400	2800
	5000	1406	2388	5979	6/6	2300	2650
Three-stage FFL	5500	1640	2622	6479	3/6	1800	2200
	6000	1873	2855	6979	3/6	1400	1500
	6500	2107	3088	7479	3/3	800	900

- ADVANTAGE:**
- Compact and Elegant Design
 - Excellent Visibility
 - Ergonomics Details
 - High Stability
 - Easy Maintenance
 - Reliability and Safety
 - Comfortable Operation
 - Environmental-friendly
 - High Efficiency and Low-Energy Consumption

Reliability and Safety

Motor controllers, contactors, power switch, emergency switch, display, accelerators and other key electrical components adopt international famous brand. Advanced AC high frequency integrated MOSFET controller and CAN-bus technology. High frequency MOSFET integrated controller ensures smooth and accurate driving and lifting, excellent acceleration, motor and controller performance matching delivers safety and reliability such as regenerative braking and reverse connection as well ramp anti-slipping. Operation sequence protection and electronic self-protection function, Emergency power off switch as standard configuration, meets the European safety norms.

High Efficiency and Energy-saving

Different speed mode to choose for different applications under different environments. Standard DC converter is balanced using batteries, extending battery life. High efficiency AC power system, complete protection, comes with speed sensor, temperature sensor, greatly improves reliability and life expectancy. Special tire patterns for electric forklifts, energy-saving more than 10% for driving (Optional)

Low noise and environmental-friendly

Cushioning devices added to motor, batteries and other locations, as well as the optimization of vehicle body frame structure, reducing the vibration of the truck; Low-noise pump together with load sensing steering gear, makes the truck noise extremely low. Descending speed will automatically slow down before the fork lowered to the minimum height, so it substantially reduces the impact noise. Rear axle using the flexible shock absorption system, effective filtering the ground clutters, makes the driver much comfortable.



Green campaign

To protect the environment



Graceful arc design



Excellent ergonomic design



Energy-saving



Excellent visibility thanks to optimized



Rear hand holder with horn function (Optional)



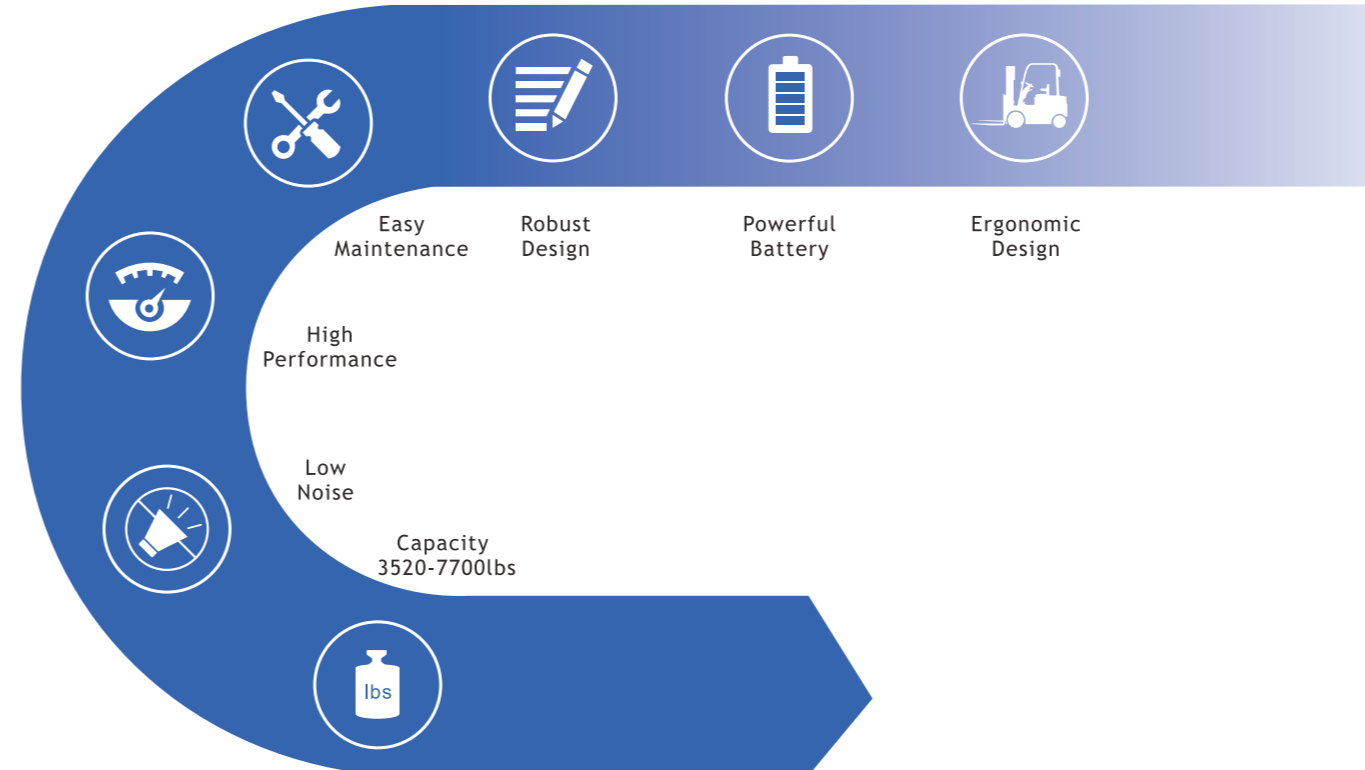
Hydraulic operating handle on the right side



Foot-type parking brake system



Big LED display



Easy maintenance and high stability

A+B. The fully-openable top seat cover and the side-openable construction makes battery-maintenance easier and faster for regular maintenance. For multi-shift operations, the battery can be easily replaced from the side by a manual pallet truck or electric pallet truck easily and safely, no crane, forklift or other special tools required for battery replacement. (Optional)

C. The fully sealed cover for the controller at the rear counterweight part ensures high protection of the controller and other electric components against the dust and water, and the openable cover is easy and fast for maintenance.

D. Equipped with big LED display with error code and false operation warning can easily monitor the running condition of the forklift.

E. Drive motor is arranged paralleled as international leaders do, the battery is located at the bottom of the chassis of the forklift which gives great stability with low gravity center.

