



# **NEXEN**

LIFT TRUCK TECHNOLOGY

Nexen Aufero  
1600 - 3500kg  
3 & 4-Wheel Industrial & Li-Ion  
Electric Counter-Balance Forklifts

## FBAT16N - FBAT20N 3-Wheel Electric Counter Balance Forklift

- 48V AC drive system
- Full dual front drive wheels
- Intelligent Curtis controller & LED display
- Optimised safety and reliability
- Easy access for convenient service & maintenance
- Intuitive chassis & battery access door
- Comfortable operation and ergonomic controls

### 48V AC Drive System

The fully electric AC system is designed with two AC drive motors and one AC hydraulic motor, providing great performance for little cost. These AC motors do not require any regular inspection, or replacement of the brushes and contactors which reduces overall downtime and maintenance cost.

In comparison to traditional DC motors, the AC motors offer greater operating efficiency with extended services life and runtime. The power-saving feature helps the forklift during longer operation periods without compromising in productivity or performance.



Driving speed,  
fully laden/unladen:  
16-18:14/15(Km/h)  
20:13/15(Km/h)



Lifting speed,  
fully laden/unladen:  
16:0.32/0.42(m/s)  
18-20:0.30/0.42(m/s)



Turning radius:  
16-18:1550mm  
20:1680mm



Working aisle width:  
Pallet size 1000\*1200:  
16:3122mm  
18:3127mm  
20:3257mm  
Pallet size 800\*1200:  
16:3322mm  
18:3327mm  
20:3457mm



Climbing performance,  
fully laden/unladen S2 30mins:  
16-18:15/20  
20:13/18



Maximum mast height:  
6m





## Easy service & maintenance access

The FBAT series forklifts include a spring-assisted bonnet to enable easy battery access for maintenance and top-ups. Downtime is greatly reduced thanks to the Curtis on-board diagnostic system which helps engineers in troubleshooting when repairs are necessary.

The controller is housed in a compartment designed to protect it from dust, water, and other foreign material while still being easy to remove for maintenance/service access.

## Intelligent chassis & battery access door

The FBAT series enables a variety of methods in accessing or changing the batteries for convenience, ideal for continuous shift operation. With the battery side-door, you can access the battery from the side or lift the battery from the top like a traditional electric forklift.



Ergonomic design & comfortable operation



Clear L.E.D Display



Improved safety & reliability



Dual front wheel drive

## NEXEN ATTOLLO FBAT16N / FBAT18N / FBAT20N – Lead Acid Battery

			NEXEN	NEXEN	NEXEN	
			FBAT16N	FBAT18N	FBAT20N	
			Aufero	Aufero	Aufero	
			Curtis	Curtis	Curtis	
			Battery	Battery	Battery	
			Seated	Seated	Seated	
<b>CHARACTERISTICS</b>	1.1	Manufacturer				
	1.2	Model designation				
		Model – Manufacturer designation				
		Transmission				
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas				
	1.4	Operation: hand, pedestrian, standing, seated, order-picker				
	1.5	Load capacity / rated load	Q (kg)	1600	1800	2000
	1.6	Load centre distance	c (mm)	500	500	500
	1.8	Load distance, centre of drive axle to fork	x (mm)	372	377	377
1.9	Wheelbase	y (mm)	1360	1360	1490	
<b>WEIG HTS</b>	2.1	Service weight (incl. battery box)	kg	3100	3260	3420
	2.2	Axle loading, laden, front/rear	kg	4200 / 500	4550 / 510	4880 / 540
	2.3	Axle loading, unladen, front/rear	kg	1490 / 1610	1610 / 1650	1670 / 1750
<b>WHEELS &amp; TYRES</b>	3.1	Tyres: L=pneumatic, V=solid		V	V	V
	3.2	Tyre size, front		18x7-8	18x7-8	200/50-10
	3.3	Tyre size, rear		15x4-8	15x4-8	15x4-8
	3.5	Wheels, number front rear (X=driven wheels)		2x /2	2x/2	2x /2
	3.6	Tread, front	b <sub>10</sub> (mm)	960	960	984
	3.7	Tread, rear	b <sub>11</sub> (mm)	180	180	180
	4.1	Mast tilt, α = forward / β = back ( base duplex mast)	degrees	5 / 7	5 / 7	5 / 7
<b>DIMENSIONS</b>	4.2	Height of mast, lowered	h <sub>1</sub> (mm)	2008	2008	2008
	4.3	Free lift	h <sub>2</sub> (mm)	125	125	125
	4.4	Lift	h <sub>3</sub> (mm)	3000	3000	3000
	4.5	Height, mast extended <input checked="" type="checkbox"/>	h <sub>4</sub> (mm)	3981	3981	3981
	4.7	Height of overhead guard (cabin) $\updownarrow$	h <sub>6</sub> (mm)	2075	2075	2075
	4.8	Seat height / stand height <input type="checkbox"/>	h <sub>7</sub> (mm)	1030	1030	1030
	4.12	Coupling height	h <sub>10</sub> (mm)	465	465	465
	4.19	Overall length	l <sub>1</sub> (mm)	2845	3000	3130
	4.20	Length to face of forks	l <sub>2</sub> (mm)	1925	1930	2060
	4.21	Overall width, standard/wide/double	b <sub>1</sub> (mm)	1135	1135	1135
	4.22	Fork dimensions	l/w/t (mm)	920/100/35	1070/120/40	1070/120/40
	4.23	Fork carriage DIN 15173, class/type A,B		IIA	IIA	IIA
	4.24	Fork carriage width $\leftrightarrow$	b <sub>3</sub> (mm)	1040	1040	1040
	4.31	Ground clearance, laden, below mast	m <sub>1</sub> (mm)	123	123	123
	4.32	Ground clearance, centre of wheelbase	m <sub>2</sub> (mm)	105	105	105
	4.33	Aisle width for pallets 1000x1200 crossways $\updownarrow$	Ast (mm)	3122	3127	3257
4.34	Aisle width for pallets 800x1200 crossways $\updownarrow$	Ast (mm)	3322	3327	3357	
4.35	Outer turning radius	W <sub>a</sub> (mm)	1550	1550	1680	
4.36	Inner turning radius	b <sub>13</sub> (mm)				
<b>PERFORMANCE</b>	5.1	Travel speed, laden/unladen	km/h	14 / 15	14 / 15	13 / 15
	5.2	Lift speed, laden/unladen	m/sec	0.32 / 0.42	0.30 / 0.42	0.30 / 0.42
	5.3	Lowering speed, laden/unladen	m/sec	<600	<600	<600
	5.5	Drawbar pull, laden/unladen	N			
	5.6	Max. drawbar pull, laden/unladen	KN	13	14	16
	5.7	Gradeability, laden/unladen	%			
	5.8	Max. gradeability, laden/unladen	%	15 / 20	15 / 20	13 / 18
	5.10	Service brake		Hydraulic	Hydraulic	Hydraulic
<b>2ENGI NE</b>	6.1	Drive motor rating	kW	4.5x2	4.5x2	4.5x2
	6.2	Lift motor rating	kW	8.6	8.6	8.6
	6.3	Battery Standard		DIN	DIN	DIN
	6.4	Battery voltage, nominal capacity	V/Ah	48/455	48/455	48/560
<b>OTHER</b>	8.1	Type of drive control		AC	AC	AC
	8.2	Operating pressure for attachments	bar	17.5	17.5	17.5
	8.3	Oil volume for attachments	l/min	36	36	36
	8.4	Average noise level at operator's ear (Lpaz)	dB (A)	73	73	73
		Guaranteed sound power 2001/14/EC (Lwaz))	dB			
	8.5	Towing coupling, type DIN		Pin	Pin	Pin

Specification data according to VDI 2198



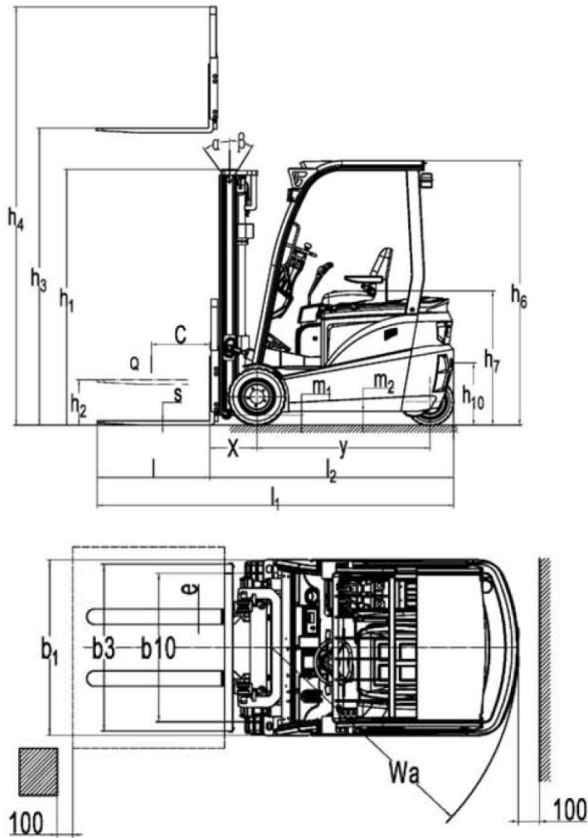
## NEXEN ATTOLLO FBAT16N / FBAT18N / FBAT20N – Li-Ion Battery

			NEXEN	NEXEN	NEXEN	
			FBAT16N	FBAT18N	FBAT20N	
			Aufero	Aufero	Aufero	
			Curtis	Curtis	Curtis	
			Battery	Battery	Battery	
			Seated	Seated	Seated	
<b>CHARACTERISTICS</b>	1.1	Manufacturer				
	1.2	Model designation				
		Model – Manufacturer designation				
		Transmission				
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas				
	1.4	Operation: hand, pedestrian, standing, seated, order-picker				
	1.5	Load capacity / rated load	Q (kg)	1600	1800	2000
	1.6	Load centre distance	c (mm)	500	500	500
	1.8	Load distance, centre of drive axle to fork	x (mm)	372	377	377
1.9	Wheelbase	y (mm)	1360	1360	1490	
<b>WEIG HTS</b>	2.1	Service weight (incl. battery box)	kg	3100	3260	3420
	2.2	Axle loading, laden, front/rear	kg	4200 / 500	4550 / 510	4880 / 540
	2.3	Axle loading, unladen, front/rear	kg	1490 / 1610	1610 / 1650	1670 / 1750
<b>WHEELS &amp; TYRES</b>	3.1	Tyres: L=pneumatic, V=solid		V	V	V
	3.2	Tyre size, front		18x7-8	18x7-8	200/50-10
	3.3	Tyre size, rear		15x4-8	15x4-8	15x4-8
	3.5	Wheels, number front rear (X=driven wheels)		2x / 2	2x/2	2x / 2
	3.6	Tread, front	b <sub>10</sub> (mm)	960	960	984
	3.7	Tread, rear	b <sub>11</sub> (mm)	180	180	180
	4.1	Mast tilt, α = forward / β = back ( base duplex mast)	degrees	5 / 7	5 / 7	5 / 7
<b>DIMENSIONS</b>	4.2	Height of mast, lowered	h <sub>1</sub> (mm)	2008	2008	2008
	4.3	Free lift	h <sub>2</sub> (mm)	125	125	125
	4.4	Lift	h <sub>3</sub> (mm)	3000	3000	3000
	4.5	Height, mast extended <input checked="" type="checkbox"/>	h <sub>4</sub> (mm)	3981	3981	3981
	4.7	Height of overhead guard (cabin) $\updownarrow$	h <sub>6</sub> (mm)	2075	2075	2075
	4.8	Seat height / stand height <input type="checkbox"/>	h <sub>7</sub> (mm)	1030	1030	1030
	4.12	Coupling height	h <sub>10</sub> (mm)	465	465	465
	4.19	Overall length	l <sub>1</sub> (mm)	2845	3000	3130
	4.20	Length to face of forks	l <sub>2</sub> (mm)	1925	1930	2060
	4.21	Overall width, standard/wide/double	b <sub>1</sub> (mm)	1135	1135	1135
	4.22	Fork dimensions	l/w/t (mm)	920/100/35	1070/120/40	1070/120/40
	4.23	Fork carriage DIN 15173, class/type A,B		IIA	IIA	IIA
	4.24	Fork carriage width $\leftrightarrow$	b <sub>3</sub> (mm)	1040	1040	1040
	4.31	Ground clearance, laden, below mast	m <sub>1</sub> (mm)	123	123	123
	4.32	Ground clearance, centre of wheelbase	m <sub>2</sub> (mm)	105	105	105
	4.33	Aisle width for pallets 1000x1200 crossways $\updownarrow$	Ast (mm)	3122	3127	3257
4.34	Aisle width for pallets 800x1200 crossways $\updownarrow$	Ast (mm)	3322	3327	3357	
4.35	Outer turning radius	W <sub>a</sub> (mm)	1550	1550	1680	
4.36	Inner turning radius	b <sub>13</sub> (mm)				
<b>PERFORMANCE</b>	5.1	Travel speed, laden/unladen	km/h	14 / 15	14 / 15	13 / 15
	5.2	Lift speed, laden/unladen	m/sec	0.32 / 0.42	0.30 / 0.42	0.30 / 0.42
	5.3	Lowering speed, laden/unladen	m/sec	<600	<600	<600
	5.5	Drawbar pull, laden/unladen	N			
	5.6	Max. drawbar pull, laden/unladen	KN	13	14	16
	5.7	Gradeability, laden/unladen	%			
	5.8	Max. gradeability, laden/unladen	%	15 / 20	15 / 20	13 / 18
	5.10	Service brake		Hydraulic	Hydraulic	Hydraulic
<b>2ENGINE</b>	6.1	Drive motor rating	kW	4.5x2	4.5x2	4.5x2
	6.2	Lift motor rating	kW	8.6	8.6	8.6
	6.3	Battery Standard		DIN	DIN	DIN
	6.4	Battery voltage, nominal capacity	V/Ah	48/300 Li-Ion	48/300 Li-Ion	48/300 Li-Ion
<b>OTHER</b>	8.1	Type of drive control		AC	AC	AC
	8.2	Operating pressure for attachments	bar	17.5	17.5	17.5
	8.3	Oil volume for attachments	l/min	36	36	36
	8.4	Average noise level at operator's ear (Lpaz)	dB (A)	73	73	73
	8.5	Guaranteed sound power 2001/14/EC (Lwaz)	dB			
	Towing coupling, type DIN		Pin	Pin	Pin	

Specification data according to VDI 2198

**Attollo 3-Wheel Electric Mast Specifications**

Mast Type	Lift Height	Overall Mast Height		Free Lift	Tilt F/B	Capacity @ 500mm LC		
		Lowered	Extended			1.6t	1.8t	2.0t
	mm	mm	mm	mm	Deg	kg	kg	kg
Wide-View Duplex Mast	2500	1758	3481	125	5/7	1600	1800	2000
	2700	1858	3681	125	5/7	1600	1800	2000
	3000	2008	3981	125	5/7	1600	1800	2000
	3300	2158	4281	125	5/7	1600	1800	2000
	3500	2258	4481	125	5/7	1600	1800	2000
	3700	2358	4681	125	5/7	1600	1800	2000
	4000	2558	4981	125	3/5	1500	1750	1900
	4300	2708	5281	125	3/5	1450	1650	1800
	4500	2808	5481	125	3/5	1400	1450	1600
Wide-View Duplex FFL Mast	5000	3083	5981	125	3/5	1000	1100	1400
	2500	1758	3474	793	5/7	1600	1800	2000
	2700	1858	3674	893	5/7	1600	1800	2000
	3000	2008	3974	1043	5/7	1600	1800	2000
	3300	2158	4274	1193	5/7	1600	1800	2000
	3500	2258	4474	1293	5/7	1600	1800	2000
	3700	2358	4674	1393	5/7	1600	1800	2000
	4000	2558	4974	1593	5/7	1500	1750	1900
	4300	2708	5274	1743	3/5	1450	1650	1800
Wide-View Triplex FFL Mast	4500	2808	5474	1843	3/5	1400	1450	1600
	5000	3083	5974	2118	3/5	1000	1100	1400
	4000	1953	4980	988	3/5	1500	1750	1900
	4350	2078	5329	1113	3/5	1450	1600	1700
	4500	2128	5479	1163	3/5	1400	1450	1600
	4800	2228	5779	1263	3/5	1200	1300	1400
	5000	2328	5979	1363	3/5	1050	1100	1300
5500	2478	6479	1513	3/5	800	900	1000	
6000	2678	6565	1713	3/5	600	650	700	



#### TRUCK DIMENSIONS:

#### RATED CAPACITIES:

#### LEGEND:

Load centre: distance from front forks surface to load gravity centre

Rated load: based on calculated values for vertical masts (ISO 1074) up to 4500 for all variants with pneumatic single tyres

#### NOTES:

All specifications listed in the tables are affected by the vehicle equipment and condition and also by operating area nature and conditions. Please contact your Nexen forklift truck dealer in case of critical or specific specifications for a proposed application. All three wheel forklift trucks could be ordered with electric or hydraulic steering wheel.

#### LEGEND:

- calculated value according to VDI 2198, EN 1726-1, DIN 15 172 and VDI 3973

- measured between road surface and top surface of the forks

- with load backrest. Subtract 660mm if load backrest is removed

-  $h_6$  subject to +/- 5mm tolerance

- Full-suspension seat in depressed position

- with load backrest. Subtract 16mm if load backrest is removed

- Values based on the VDI 2198 standard calculation. Additional 100mm are recommended by the British Industrial Truck Association for extra operating margin at the rear of the truck

- Consult your Nexen forklift truck dealer

- Centre of gravity of unladen truck

$Ast = W_a + x + l_6 + a$  (refer to lines 4.33 and 4.34)

$W_a$  – outer turning radius

$a = 200\text{mm}$  – minimum operating clearance (according to VDI 2198)

$x$  - Load distance, centre of drive axle to fork

$l_6$  – load length

#### NOTICE:

Handle elevated loads with care as the truck stability is reduced when the carriage is lifted up. Keep minimal mast tilt angle during loads elevation.

Operators must be trained and adhere to the instructions included in the operating manual.

## FBA16N - FBA35N

### 4-Wheel Electric Counterbalance

- Unique and pleasing aesthetic
- Excellent visibility, promoting safe operation
- Robust design with high stability
- Easy access for convenient service & maintenance
- Comfortable and ergonomic operating space
- Reduced noise and vibration for quiet workspace



Excellent ergonomic design



Maximise efficiency with low energy consumption



Wide-view mast for improved visibility



Rear handle with horn function

### Standard DC Voltage Converter

The standard DC voltage converter equalises the use of batteries to extend the battery life.

The AC power system is highly efficient and offers complete protective functions, including speed and temperature sensors which improve the forklift's reliability and service life.



Working aisle width:  
 Pallet size 1000\*1200  
 16-18: 3161mm  
 20: 3583mm  
 25: 3588mm  
 30: 3985mm  
 35: 4055mm  
 Pallet size 800\*1200  
 16-18: 3361mm  
 20: 3713mm  
 25: 3718mm  
 30: 4115mm  
 35: 4185mm



Climbing performance,  
 fully laden/unladen S2 30mins: 13/15



Maximum mast height::  
 1.6-2.0: 6000mm  
 2.5-3.5: 6500mm





## Reliable and safe

The motor controllers, contactors, power plugs, emergency switches, instrument panels, and accelerators, etc. are all sourced from reputable and world renowned manufacturers.

The high-frequency MOSFET integral controller ensures a comfortable and intuitive driving and lifting experience with excellent speed control. The motor and controller work together perfectly for safe and reliable operation with safety precautions in place to avoid unexpected downtime.

## Low noise, minimal vibration

A cushioning device has been installed to many key components, such as the battery and motor which, when paired with the optimised structural design, keeps vibration to a minimum for maximum comfort.

The lowering speed automatically reduces before the forks make contact with the ground to reduce sound and impact of collision.

The rear axle is fitted with a damping system which compensates for uneven or cluttered road surfaces for optimal driver comfort.



Right hydraulic operating levers



Aesthetically pleasing arc design



Easy access to components for convenient maintenance



Foot pedal parking brake system



Clear L.E.D Display



Travel speed, full laden/unladen:

16-18:13/15(Km/h)

20-25:13/14(Km/h)

30-35:12/13(Km/h)



Lifting speed, full laden/unladen:

16-18:0.32/0.42(m/s)

20-25:0.31/0.40(m/s)

30-35:0.30/0.39(m/s)



Turning radius:

16-18:1820mm

20-25:2050mm

30:2230mm

35:2300mm

## NEXEN AUFERO FBA16N / FBA18N / FBA20N – Lead Acid Battery

		NEXEN	NEXEN	NEXEN
		FBA16N	FBA18N	FBA20N
<b>CHARACTERISTICS</b>	1.1	Manufacturer		
	1.2	Model designation		
		Model – Manufacturer designation		
		Engine		
		Transmission		
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		
	1.4	Operation: hand, pedestrian, standing, seated, order-picker		
	1.5	Load capacity / rated load Q (kg)		
	1.6	Load centre distance c (mm)		
	1.8	Load distance, centre of drive axle to fork x (mm)		
1.9	Wheelbase y (mm)			
<b>WEIG HTS</b>	2.1	Service weight (incl. battery)  kg		
	2.2	Axle loading, laden, front/rear  kg		
	2.3	Axle loading, unladen, front/rear  kg		
<b>WHEELS &amp; TYRES</b>	3.1	Tyres: L=pneumatic, V=solid		
	3.2	Tyre size, front		
	3.3	Tyre size, rear		
	3.5	Wheels, number front rear (X=driven wheels)		
	3.6	Tread, front b <sub>10</sub> (mm)		
<b>DIMENSIONS</b>	3.7	Tread, rear b <sub>11</sub> (mm)		
	4.1	Mast tilt, α = forward / β = back ( base duplex mast) degrees		
	4.2	Height of mast, lowered h <sub>1</sub> (mm)		
	4.3	Free lift  h <sub>2</sub> (mm)		
	4.4	Lift  h <sub>3</sub> (mm)		
	4.5	Height, mast extended <input checked="" type="checkbox"/> h <sub>4</sub> (mm)		
	4.7	Height of overhead guard (cabin)  h <sub>6</sub> (mm)		
	4.8	Seat height / stand height <input type="checkbox"/> h <sub>7</sub> (mm)		
	4.12	Coupling height h <sub>10</sub> (mm)		
	4.19	Overall length l <sub>1</sub> (mm)		
	4.20	Length to face of forks l <sub>2</sub> (mm)		
	4.21	Overall width, standard/wide/double b <sub>1</sub> (mm)		
	4.22	Fork dimensions t/w/l (mm)		
	4.23	Fork carriage DIN 15173, class/type A,B		
	4.24	Fork carriage width $\leftrightarrow$ b <sub>3</sub> (mm)		
	4.31	Ground clearance, laden, below mast m <sub>1</sub> (mm)		
	4.32	Ground clearance, centre of wheelbase m <sub>2</sub> (mm)		
	4.33	Aisle width for pallets 1000x1200 crossways  Ast (mm)		
	4.34	Aisle width for pallets 800x1200 crossways  Ast (mm)		
	4.35	Outer turning radius W <sub>a</sub> (mm)		
4.36	Inner turning radius b <sub>13</sub> (mm)			
<b>PERFORMANCE</b>	5.1	Travel speed, laden/unladen  km/h		
	5.2	Lift speed, laden/unladen  m/sec		
	5.3	Lowering speed, laden/unladen  m/sec		
	5.5	Drawbar pull, laden/unladen  N		
	5.6	Max. drawbar pull, laden/unladen  KN		
	5.7	Gradeability, laden/unladen  %		
	5.8	Max. gradeability, laden/unladen  %		
	5.10	Service brake		
<b>ENGINE</b>	6.1	Drive motor rating S2 60 min kW		
	6.2	Lift motor rating at S3 15% kW		
	6.3	Battery standard		
	6.4	Battery voltage, nominal capacity k5 V/Ah		
	6.5	Battery weight Kg		
<b>OTHER</b>	8.1	Type of drive control		
	8.2	Operating pressure for attachments Mpa		
	8.3	Oil volume for attachments l/min		
	8.4	Average noise level at operator's ear (Lpaz) dB (A)		
		Guaranteed sound power 2001/14/EC (Lwaz)) dB		
8.5	Towing coupling, type DIN			
		Hepu Drive Motor	Hepu Drive Motor	Hepu Drive Motor
		Curtis Controller	Curtis Controller	Curtis Controller
		Electric	Electric	Electric
		Seated	Seated	Seated
		1600	1800	2000
		500	500	500
		381	381	463
		1360	1360	1500
		3100	3250	4010
		4160 / 540	4380 / 670	5310 / 700
		1500 / 1600	1550 / 1700	2000 / 2010
		L	L	L
		6.50-10-10PR	6.50-10-10PR	23x9-10-18PR
		5.00-8-10PR	5.00-8-10PR	18x7-8-14PR
		2x / 2	2x / 2	2x / 2
		970	970	1040
		920	920	950
		6 / 10	6 / 10	6 / 10
		2000	2000	2045
		129	129	120
		3000	3000	3000
		3983	3983	3977
		2195	2195	2190
		1110	1110	1100
		290	290	295
		2981	2981	3393
		2061	2061	2323
		1150	1150	1260
		35/100/920	35/100/920	40/120/1070
		IIA	IIA	IIA
		1040	1040	1040
		100	100	110
		110	110	125
		3161	3161	3583
		3361	3361	3713
		1820	1820	2050
		13/15	13/15	13/14
		0.32 / 0.42	0.30 / 0.42	0.31 / 0.40
		<0.6	<0.6	<0.6
		13 / 12.7	13 / 12.75	16 / 15.75
		13 / 15	13 / 15	13 / 15
		Hydraulic	Hydraulic	Hydraulic
		6.8	6.8	11
		8.6	8.6	8.6
		DIN	DIN	BS
		48 / 400	48 / 450	48 / 600
		695	695	947
		AC	AC	AC
		17.5	17.5	17.5
		36	36	36
		Pin	Pin	Pin

Specification data according to VDI 2198

## NEXEN AUFERO FBA16N / FBA18N / FBA20N – Li-Ion Battery

			NEXEN	NEXEN	NEXEN
			FBA16N	FBA18N	FBA20N
<b>CHARACTERISTICS</b>	1.1	Manufacturer			
	1.2	Model designation			
		Model – Manufacturer designation			
		Engine			
		Transmission			
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas			
	1.4	Operation: hand, pedestrian, standing, seated, order-picker			
	1.5	Load capacity / rated load	Q (kg)		
	1.6	Load centre distance	c (mm)		
1.8	Load distance, centre of drive axle to fork	x (mm)			
1.9	Wheelbase	y (mm)			
<b>WEIG HTS</b>	2.1	Service weight (incl. battery)	kg		
	2.2	Axle loading, laden, front/rear	kg		
	2.3	Axle loading, unladen, front/rear	kg		
<b>WHEELS &amp; TYRES</b>	3.1	Tyres: L=pneumatic, V=solid			
	3.2	Tyre size, front			
	3.3	Tyre size, rear			
	3.5	Wheels, number front rear (X=driven wheels)			
	3.6	Tread, front	b <sub>10</sub> (mm)		
3.7	Tread, rear	b <sub>11</sub> (mm)			
<b>DIMENSIONS</b>	4.1	Mast tilt, α = forward / β = back ( base duplex mast)	degrees		
	4.2	Height of mast, lowered	h <sub>1</sub> (mm)		
	4.3	Free lift	h <sub>2</sub> (mm)		
	4.4	Lift	h <sub>3</sub> (mm)		
	4.5	Height, mast extended <input checked="" type="checkbox"/>	h <sub>4</sub> (mm)		
	4.7	Height of overhead guard (cabin)	h <sub>6</sub> (mm)		
	4.8	Seat height / stand height <input type="checkbox"/>	h <sub>7</sub> (mm)		
	4.12	Coupling height	h <sub>10</sub> (mm)		
	4.19	Overall length	l <sub>1</sub> (mm)		
	4.20	Length to face of forks	l <sub>2</sub> (mm)		
	4.21	Overall width, standard/wide/double	b <sub>1</sub> (mm)		
	4.22	Fork dimensions	t/w/l (mm)		
	4.23	Fork carriage DIN 15173, class/type A,B			
	4.24	Fork carriage width $\leftrightarrow$	b <sub>3</sub> (mm)		
	4.31	Ground clearance, laden, below mast	m <sub>1</sub> (mm)		
	4.32	Ground clearance, centre of wheelbase	m <sub>2</sub> (mm)		
	4.33	Aisle width for pallets 1000x1200 crossways	Ast (mm)		
	4.34	Aisle width for pallets 800x1200 crossways	Ast (mm)		
	4.35	Outer turning radius	W <sub>a</sub> (mm)		
	4.36	Inner turning radius	b <sub>13</sub> (mm)		
<b>PERFORMANCE</b>	5.1	Travel speed, laden/unladen	km/h		
	5.2	Lift speed, laden/unladen	m/sec		
	5.3	Lowering speed, laden/unladen	m/sec		
	5.5	Drawbar pull, laden/unladen	N		
	5.6	Max. drawbar pull, laden/unladen	KN	13 / 12.7	13 / 12.75
	5.7	Gradeability, laden/unladen	%		
	5.8	Max. gradeability, laden/unladen	%	13 / 15	13 / 15
	5.10	Service brake		Hydraulic	Hydraulic
	6.1	Drive motor rating S2 60 min	kW	6.8	11
	6.2	Lift motor rating at S3 15%	kW	8.6	8.6
<b>ENGINE</b>	6.3	Battery standard		DIN	BS
	6.4	Battery voltage, nominal capacity k5	V/Ah	48 / 300	48 / 300
	6.5	Battery weight	Kg	Li-Ion	Li-Ion
<b>OTHER</b>	8.1	Type of drive control		695	695
	8.2	Operating pressure for attachments	Mpa	AC	AC
	8.3	Oil volume for attachments	l/min	17.5	17.5
	8.4	Average noise level at operator's ear (Lpaz)	dB (A)		
		Guaranteed sound power 2001/14/EC (Lwaz))	dB	36	36
	8.5	Towing coupling, type DIN			
			Pin	Pin	

Specification data according to VDI 2198

# NEXEN AUFERO FBA25N / FBA30N / FBA35N – Lead Acid Battery

		NEXEN	NEXEN	NEXEN	
		FBA25N	FBA30N	FBA35N	
CHARACTERISTICS	1.1	Manufacturer			
	1.2	Model designation			
		Model – Manufacturer designation			
		Engine			
		Transmission			
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas			
	1.4	Operation: hand, pedestrian, standing, seated, order-picker			
	1.5	Load capacity / rated load Q (kg)			
	1.6	Load centre distance c (mm)			
	1.8	Load distance, centre of drive axle to fork x (mm)			
1.9	Wheelbase y (mm)				
WEIG HTS	2.1	Service weight			
	2.2	Axle loading, laden, front/rear			
	2.3	Axle loading, unladen, front/rear			
WHEELS & TYRES	3.1	Tyres: L=pneumatic, V=solid			
	3.2	Tyre size, front			
	3.3	Tyre size, rear			
	3.5	Wheels, number front rear (X=driven wheels)			
	3.6	Tread, front b <sub>10</sub> (mm)			
	3.7	Tread, rear b <sub>11</sub> (mm)			
	DIMENSIONS	4.1	Mast tilt, α = forward / β = back ( base duplex mast) degrees		
4.2		Height of mast, lowered h <sub>1</sub> (mm)			
4.3		Free lift			
4.4		Lift			
4.5		Height, mast extended <input checked="" type="checkbox"/>			
4.7		Height of overhead guard (cabin)			
4.8		Seat height / stand height <input type="checkbox"/>			
4.12		Coupling height h <sub>10</sub> (mm)			
4.19		Overall length l <sub>1</sub> (mm)			
4.20		Length to face of forks l <sub>2</sub> (mm)			
4.21		Overall width, standard/wide/double b <sub>1</sub> (mm)			
4.22		Fork dimensions t/w/l (mm)			
4.23		Fork carriage DIN 15173, class/type A,B			
4.24		Fork carriage width $\leftrightarrow$ b <sub>3</sub> (mm)			
4.31		Ground clearance, laden, below mast m <sub>1</sub> (mm)			
4.32		Ground clearance, centre of wheelbase m <sub>2</sub> (mm)			
4.33		Aisle width for pallets 1000x1200 crossways			
4.34		Aisle width for pallets 800x1200 crossways			
4.35		Outer turning radius W <sub>a</sub> (mm)			
4.36		Inner turning radius b <sub>13</sub> (mm)			
PERFORMANCE		5.1	Travel speed, laden/unladen		
		5.2	Lift speed, laden/unladen		
	5.3	Lowering speed, laden/unladen			
	5.5	Drawbar pull, laden/unladen			
	5.6	Max. drawbar pull, laden/unladen			
	5.7	Gradeability, laden/unladen			
	5.8	Max. gradeability, laden/unladen			
	5.10	Service brake			
	6.1	Drive motor rating S2 60 min kW			
	6.2	Lift motor rating at S3 15% kW			
ENGINE	6.3	Battery standard			
	6.4	Battery voltage, nominal capacity k5 V/Ah			
	6.5	Battery weight Kg			
OTHER	8.1	Type of drive control			
	8.2	Operating pressure for attachments Mpa			
	8.3	Oil volume for attachments l/min			
	8.4	Average noise level at operator's ear (Lpaz) dB (A)			
		Guaranteed sound power 2001/14/EC (Lwaz)) dB			
	8.5	Towing coupling, type DIN			
		Hepu Drive Motor	Hepu Drive Motor	Hepu Drive Motor	
		Curtis Controller	Curtis Controller	Curtis Controller	
		Electric	Electric	Electric	
		Seated	Seated	Seated	
		2500	3000	3500	
		500	500	500	
		468	468	468	
		1500	1650	1650	
		4260	4850	5340	
		6020 / 750	7050 / 800	7770 / 1070	
		2000 / 2260	2220 / 2630	2210 / 3130	
		L	L	L	
		23x9-10-18PR	23x9-10-18PR	23x10-12	
		18x7-8-14PR	18x7-8-14PR	18x7-8	
		2x / 2	2x / 2	2x / 2	
		1040	1040	1058	
		950	960	960	
		6 / 10	6 / 10	6 / 10	
		2045	2045	2045	
		120	140	140	
		3000	3000	3000	
		3977	3977	3977	
		2190	2205	2205	
		1100	1110	1110	
		295	295	295	
		3398	3605	3645	
		2328	2535	2575	
		1260	1260	1290	
		40/120/1070	45/125/1070	50/125/1070	
		IIA	IIA	IIA	
		1040	1100	1100	
		110	110	110	
		120	120	120	
		3588	3985	4055	
		3718	4115	4185	
		2050	2230	2300	
		13 / 14	13 / 14	12 / 13	
		0.30 / 0.39	0.31 / 0.40	0.30 / 0.39	
		<0.6	<0.6	<0.6	
		16 / 15.8	17 / 16.7	17 / 16.75	
		13 / 15	13 / 15	13 / 15	
		Hydraulic	Hydraulic	Hydraulic	
		11	15	15	
		8.6	10	10	
		BS	DIN	DIN	
		48 / 600	80 / 500	80 / 500	
		947	1350	1350	
		AC	AC	AC	
		17.5	17.5	17.5	
		36	36	36	
		73	74	75	
		Pin	Pin	Pin	

Specification data according to VDI 2198

# NEXEN AUFERO FBA25N / FBA30N / FBA35N – Li-Ion Battery

		NEXEN	NEXEN	NEXEN	
		FBA25N	FBA30N	FBA35N	
CHARACTERISTICS	1.1	Manufacturer			
	1.2	Model designation			
		Model – Manufacturer designation			
		Engine			
		Transmission			
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas			
	1.4	Operation: hand, pedestrian, standing, seated, order-picker			
	1.5	Load capacity / rated load Q (kg)			
	1.6	Load centre distance c (mm)			
	1.8	Load distance, centre of drive axle to fork x (mm)			
1.9	Wheelbase y (mm)				
WEIGHTS	2.1	Service weight			
	2.2	Axle loading, laden, front/rear			
	2.3	Axle loading, unladen, front/rear			
WHEELS & TYRES	3.1	Tyres: L=pneumatic, V=solid			
	3.2	Tyre size, front			
	3.3	Tyre size, rear			
	3.5	Wheels, number front rear (X=driven wheels)			
	3.6	Tread, front b <sub>10</sub> (mm)			
	3.7	Tread, rear b <sub>11</sub> (mm)			
	DIMENSIONS	4.1	Mast tilt, α = forward / β = back ( base duplex mast) degrees		
4.2		Height of mast, lowered h <sub>1</sub> (mm)			
4.3		Free lift			
4.4		Lift			
4.5		Height, mast extended <input checked="" type="checkbox"/> h <sub>4</sub> (mm)			
4.7		Height of overhead guard (cabin)  h <sub>6</sub> (mm)			
4.8		Seat height / stand height <input type="checkbox"/> h <sub>7</sub> (mm)			
4.12		Coupling height h <sub>10</sub> (mm)			
4.19		Overall length l <sub>1</sub> (mm)			
4.20		Length to face of forks l <sub>2</sub> (mm)			
4.21		Overall width, standard/wide/double b <sub>1</sub> (mm)			
4.22		Fork dimensions t/w/l (mm)			
4.23		Fork carriage DIN 15173, class/type A,B			
4.24		Fork carriage width $\leftrightarrow$ b <sub>3</sub> (mm)			
4.31		Ground clearance, laden, below mast m <sub>1</sub> (mm)			
4.32		Ground clearance, centre of wheelbase m <sub>2</sub> (mm)			
4.33		Aisle width for pallets 1000x1200 crossways  Ast (mm)			
4.34		Aisle width for pallets 800x1200 crossways  Ast (mm)			
4.35		Outer turning radius W <sub>a</sub> (mm)			
4.36		Inner turning radius b <sub>13</sub> (mm)			
PERFORMANCE	5.1	Travel speed, laden/unladen  km/h			
	5.2	Lift speed, laden/unladen  m/sec			
	5.3	Lowering speed, laden/unladen  m/sec			
	5.5	Drawbar pull, laden/unladen  N			
	5.6	Max. drawbar pull, laden/unladen  KN			
	5.7	Gradeability, laden/unladen  %			
	5.8	Max. gradeability, laden/unladen  %			
	5.10	Service brake			
	6.1	Drive motor rating S2 60 min kW			
	6.2	Lift motor rating at S3 15% kW			
ENGINE	6.3	Battery standard			
	6.4	Battery voltage, nominal capacity k5 V/Ah			
	6.5	Battery weight Kg			
	OTHER	8.1	Type of drive control		
		8.2	Operating pressure for attachments Mpa		
8.3		Oil volume for attachments l/min			
8.4		Average noise level at operator's ear (Lpaz) dB (A)			
		Guaranteed sound power 2001/14/EC (Lwaz)) dB			
8.5		Towing coupling, type DIN			
		Hepu Drive Motor	Hepu Drive Motor	Hepu Drive Motor	
		Curtis Controller	Curtis Controller	Curtis Controller	
		Electric	Electric	Electric	
		Seated	Seated	Seated	
		2500	3000	3500	
		500	500	500	
		468	468	468	
		1500	1650	1650	
		4260	4850	5340	
		6020 / 750	7050 / 800	7770 / 1070	
		2000 / 2260	2220 / 2630	2210 / 3130	
		L	L	L	
		23x9-10-18PR	23x9-10-18PR	23x10-12	
		18x7-8-14PR	18x7-8-14PR	18x7-8	
		2x / 2	2x / 2	2x / 2	
		1040	1040	1058	
		950	960	960	
		6 / 10	6 / 10	6 / 10	
		2045	2045	2045	
		120	140	140	
		3000	3000	3000	
		3977	3977	3977	
		2190	2205	2205	
		1100	1110	1110	
		295	295	295	
		3398	3605	3645	
		2328	2535	2575	
		1260	1260	1290	
		40/120/1070	45/125/1070	50/125/1070	
		IIA	IIA	IIA	
		1040	1100	1100	
		110	110	110	
		120	120	120	
		3588	3985	4055	
		3718	4115	4185	
		2050	2230	2300	
		13 / 14	13 / 14	12 / 13	
		0.30 / 0.39	0.31 / 0.40	0.30 / 0.39	
		<0.6	<0.6	<0.6	
		16 / 15.8	17 / 16.7	17 / 16.75	
		13 / 15	13 / 15	13 / 15	
		Hydraulic	Hydraulic	Hydraulic	
		11	15	15	
		8.6	10	10	
		BS	DIN	DIN	
		48 / 400	80 / 400	80 / 400	
		Li-Ion	Li-Ion	Li-Ion	
		947	1350	1350	
		AC	AC	AC	
		17.5	17.5	17.5	
		36	36	36	
		73	74	75	
		Pin	Pin	Pin	

Specification data according to VDI 2198



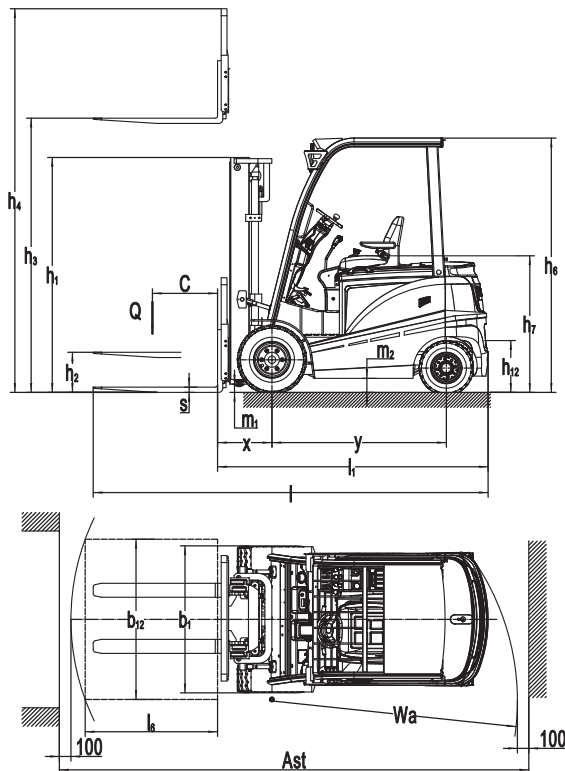
**FBA16N - FBA18N Mast Specifications**

Mast Type	Lift Height	Overall Height		Free Lift	Mast Tilt		Capacity @ 500mm LC	
		Lowered	Extended		FWD	BWD	FBA16N	FBA18N
	mm	mm	mm	mm	DEG	DEG	kg	kg
Two-Stage Mast	2500	1750	3483	129	6	10	1600	1750
	2700	1850	36883	129	6	10	1600	1750
	3000	2000	3983	129	6	10	1600	1750
	3300	2150	4283	129	6	10	1600	1750
	3500	2250	4483	129	6	10	1600	1750
	3700	2350	4683	129	6	10	1600	1750
	4000	2550	4983	129	6	6	1500	1600
	4350	2700	52883	129	6	6	1400	1500
	4500	2800	5483	129	6	6	1350	1450
	5000	3075	5983	129	6	6	1000	1100
Two-Stage Mast with Full Free Lift	2500	1750	3476	759	6	10	1600	1750
	2700	1850	3676	859	6	10	1600	1750
	3000	2000	3976	1009	6	10	1600	1750
	3300	2150	4276	1159	6	10	1600	1750
	3500	2250	4476	1259	6	10	1600	1750
	3700	2350	4676	1359	6	10	1600	1750
	4000	2550	4976	1559	6	10	1500	1600
	4350	2700	5276	1709	6	6	1400	1450
	4500	2800	5476	1809	6	6	1350	1450
	5000	3075	5976	2084	6	6	1000	1100
Three-Stage Mast with Full Free Lift	4000	1945	4981	954	6	6	1500	1600
	4350	2070	5330	1079	6	6	1400	1500
	4500	2120	5480	1129	6	6	1350	1450
	4800	2220	5780	1229	6	6	1000	1100
	5000	2320	5980	1329	6	6	1000	1100
	5500	2470	6481	1479	3	6	800	900
	6000	2670	6980	1679	3	6	600	700

**FBA20N - FBA25N Mast Specifications**

Mast Type	Lift Height	Overall Height		Free Lift	Mast Tilt		Capacity @ 500mm LC	
		Lowered	Extended		FWD	BWD	FBA20N	FBA25N
	mm	mm	mm	mm	DEG	DEG	kg	kg
Two-Stage Mast	2000	1545	2977	120	6	10	2000	2500
	2500	1795	3227	120	6	10	2000	2500
	3000	2045	3977	120	6	10	2000	2500
	3300	2195	4277	120	6	10	2000	2500
	3500	2295	4477	120	6	10	2000	2500
	3600	2345	4577	120	6	10	2000	2500
	3700	2395	4677	120	6	6	2000	2500
	4000	2595	5077	120	6	6	2000	2500
	4300	2745	5377	120	6	6	1850	2100
	4500	2845	5577	120	6	6	1700	2000
	5000	3145	6077	120	6	6	1400	1600
	5500	3395	6677	120	3	6	1050	1200
	6000	3645	7177	120	3	6	700	800
Two-Stage Mast with Full Free Lift	2000	1545	2970	558	6	10	2000	2500
	2500	1795	3471	808	6	10	2000	2500
	3000	2045	3971	1058	6	10	2000	2500
	3300	2195	4271	1208	6	10	2000	2500
	3500	2295	4471	1308	6	10	2000	2500
	3600	2345	4571	1358	6	10	2000	2500
	3700	2395	4671	1408	6	6	2000	2500
	4000	2595	4971	1608	6	6	2000	2500
	4300	2745	5271	17588	6	6	1850	2100
	4500	2845	5471	1858	6	6	1700	2000
	5000	3145	5971	2158	6	6	1400	1600
	5500	3395	6471	2408	3	6	1050	1200
	6000	3645	6971	2658	3	6	700	800
Three-Stage Mast with Full Free Lift	4000	1970	4981	983	6	6	1900	2300
	4300	2095	5331	1108	6	6	1700	2000
	4500	2145	5479	1158	6	6	1600	1900
	4800	2245	5779	1258	6	6	1400	1600
	5000	2388	5979	1404	6	6	1300	1500
	5500	2622	6479	1635	3	6	1000	1150
	6000	2855	6979	1868	3	6	700	800

Mast Specifications FBA30-35N						Capacity table(kg)	
Designation	Lift	Free	Closed	Extended	Tilt forward/ backward	C=500mm	
	height	Lift	mast height	mast height		without sideshift	
	h <sub>3</sub>	h <sub>2</sub>	h <sub>1</sub>	h <sub>4</sub>		single pneumatic tyres	
	mm	mm	mm	mm	α/β(°)	FBA30N	FBA35N
Two-stage	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	2850	3200
	4300	125	2745	5377	6 / 6	2700	3000
	4500	125	2845	5577	6 / 6	2500	2600
5000	125	3145	6077	6 / 6	2100	2100	
Two-stage FFL	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
	3600	1363	2345	4571	6 / 10	3000	3500
	3700	1413	2395	4671	6 / 6	3000	3500
	4000	1613	2595	4971	6 / 6	2850	3200
	4300	1763	2745	5271	6 / 6	2700	2850
	4500	1863	2845	5471	6 / 6	2500	2600
5000	2163	3145	5971	6 / 6	2100	2100	
Three-stage FFL	4000	988	1970	4981	6 / 6	2750	3200
	4300	1113	2095	5331	6 / 6	2600	3000
	4500	1163	2145	5479	6 / 6	2400	3000
	4800	1263	2245	5779	6 / 6	2200	2500
	5000	1406	2388	5979	6 / 6	2000	2400
	5500	1640	2622	6479	3 / 6	1500	1750
	6000	1873	2855	6979	3 / 6	1200	1250
	6500	2107	3088	7479	3 / 6	800	900



**NOTES:**

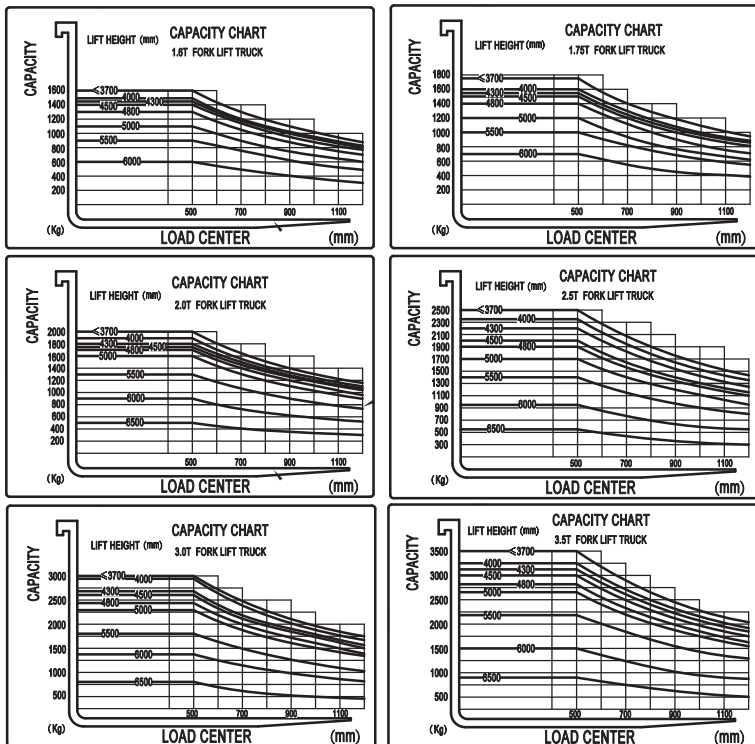
All specifications listed in the tables are affected by the vehicle equipment and condition and also by operating area nature and conditions. Please contact your Nexen forklift truck dealer in case of critical or specific specifications for a proposed application. All three wheel forklift trucks could be ordered with electric or hydraulic steering wheel.

**LEGEND:**

- calculated value according to VDI 2198, EN 1726-1, DIN 15 172 and VDI 3973
- measured between road surface and top surface of the forks
- with load backrest. Subtract 660mm if load backrest is removed
- $h_6$  subject to +/- 5mm tolerance
- Full-suspension seat in depressed position
- with load backrest. Subtract 16mm if load backrest is removed
- Values based on the VDI 2198 standard calculation. Additional 100mm are recommended by the British Industrial Truck Association for extra operating margin at the rear of the truck
- Consult your Nexen forklift truck dealer
- Centre of gravity of unladen truck

**TRUCK DIMENSIONS:**

**RATED CAPACITIES:**



**LEGEND:**

Load centre: distance from front forks surface to load gravity centre  
 Rated load: based on calculated values for vertical masts (ISO 1074) up to 4500 for all variants with pneumatic single tyres

**NOTICE:**

Handle elevated loads with care as the truck stability is reduced when the carriage is lifted up. Keep minimal mast tilt angle during loads elevation. Operators must be trained and adhere to the instructions included in the operating manual.

$Ast = W_a + x + l_6 + a$  (refer to lines 4.33 and 4.34)  
 $W_a$  – outer turning radius  
 $a = 200\text{mm}$  – minimum operating clearance (according to VDI 2198)  
 $x$  - Load distance, centre of drive axle to fork  
 $l_6$  – load length

**Notes:**

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