



Utility you can trust™

UT18-35PFE Specifications

1.1			UTILEV	UTILEV	UTILEV	UTILEV	UTILEV
_ω 1.2	-		UT18PFE	UT20PFE	UT25PFE	UT30PFE	UT35PFE
Characteristics 1.5	Power: battery, diesel, LPG, electric mains		Battery	Battery	Battery	Battery	Battery
E 1.4	Operation: manual, pedestrian, stand, seat, orderpicker		Seat	Seat	Seat	Seat	Seat
[] 1.5	Load capacity	Q (kg)	1750	2000	2500	3000	3500
통 1.6	Load centre	c (mm)	500	500	500	500	500
1.8	Load distance	x (mm)	406	455	455	475	475
1.9	Wheelbase (with mast vertical)	y (mm)	1380	1485	1485	1625	1625
ន្ទ 2.1	Unladen weight (max. battery)	kg	3090	3700	4180	5050	5450
Weights	Axle loading with load front/rear (max. battery)	kg	4300/590	5016/684	5920/760	7160/890	8020/930
≥.3	Axle loading without load, front/rear (max. battery)	kg	1440/1650	1628/2072	1780/2400	2424/2626	2450/3000
ഗ്ല 3.1	Tyres: L = pneumatic, V = cushion, SE = superelastic		SE	SE	SE	SE	SE
3.2	Tyre size, front		21x8-9	23x9-10	23x9-10	23x9-10	23x10-12
Wheels and Tyres 3:2	Tyre size, rear		5.00 - 8	18x7-8	18x7-8	18x7-8	200/50-10
<u>s</u> 3.5	Number of wheels, front/rear (X = driven)		2x/2	2x/2	2x/2	2x/2	2x/2
<u>2</u> 3.6	Track width, front	b10 (mm)	938	1058	1058	1058	1058
≥ 3.7	Track width, rear	b11 (mm)	897.5	960	960	960	960
4.	Mast tilt, forward $lpha$ /back eta	degrees	5/10	5/10	5/10	5/10	5/10
4.2	Height of mast, lowered	h1 (mm)	1976	2006	2006	2036	2186
4.3	Free lift 🛦	h2 (mm)	145	140	140	145	145
4.4	Lift height ▲	h3 (mm)	3000	3000	3000	3000	3000
4.5	Height of mast, extended +	h4 (mm)	3955	4056	4056	4152	4152
4.7	Height to top of overhead guard O	h6 (mm)	2130	2155	2155	2190	2190
4.8	Seat height X	h7 (mm)	1045	1070	1070	1070	1070
4.1	Towing coupling height	h10 (mm)	275	303	303	303	303
4.1	Overall length	11 (mm)	3018	3412	3412	3572	3652
4.2 4.2 4.2	Length to face of forks	12 (mm)	2098	2342	2342	2502	2582
4.2	1 Overall width	b1(mm)	1138	1265	1265	1265	1302
Ĕ 4.2	2 Fork dimensions	s/e/l (mm)	35/100/920	40/122/1070	40/122/1070	45/122/1070	50/122/1070
	Fork carriage to DIN 15173. Class, A/B ISO 2328		IS02328 2A	ISO2328 2A	IS02328 2A	IS02328 3A	IS02328 3A
4.2	4 Fork carriage width	b3 (mm)	1072	1118	1118	1200	1200
4.2	Width over forks	b5 (mm)	240/1000	260/1038	260/1038	290/1100	290/1100
4.3	Ground clearance under mast, with load	m1 (mm)	100	112	112	115	115
4.3	Ground clearance at centre of wheelbase	m2 (mm)	110	120	120	125	125
4.3	Aisle width with pallets 1 000mm long x 1 200mm wide	Ast (mm)	3506	3745	3745	3905	3985
4.3	4 Aisle width with pallets 800mm wide x 1 200mm long	Ast (mm)	3706	3945	3945	4105	4185
4.3	Outer turning radius	Wa (mm)	1900	2090	2090	2230	2310
4.3	Inner turning radius	b13 (mm)	680	730	730	730	730
5.1	Travel speed with/without load	km/h	13.5/14	14/14	14/14	14/14	12/13
5.2	Lifting speed with/without load	m/sec	0.28/0.43	0.26/0.39	0.25/0.39	0.25/0.40	0.21/0.40
_m 5.3	Lowering speed with/without load	m/sec	0.38/0.42	0.39/0.42	0.40/0.41	0.40/0.40	0.41/0.39
5.5	Drawbar pull with/without load, 60 minute rating	N	9500/11000	12000/12500	16000/17000	18000/19000	18500/19000
5.5 5.7 5.7	Maximum drawbar pull with/without load, 30 minute rating	N	12000	14000	18000	22000	23000
를 5.7	Gradeability with/without load, 30 minute rating	%	12/13	11/12	11/12	11/12	11/12
5.8	Maximum gradeability with/without load, 5 minute rating	%	15/16	13/14	13/14	13/14	13/14
5.9	Acceleration time with/without load 10m	sec	5.1/5.3	5.2/4.6	5.3/4.7	5.3/5	5.5/5.2
5.1	Service brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
6.1	Drive Motor, S2, 60min rating	kW	8	11	11	15	15
호 6.2	Lifting motor, S3 15% rating	kW	8.6	8.6	8.6	10	10
o S 6.3	Battery DIN 43531/35/36 A, B, C, no		No	No	No	No	No
	Pottory voltage (conscity (Ehr note)	V/Ah	48/420	48/630	48/630	80/500	80/500
요 6.4	Battery voltage/capacity (5hr rate)		760	1050	1050	1530	1530
Electric Motor 6:9 6:9 6:9 6:9 6:9 6:9 6:9 6:9 6:9 6:9		kg					0.5
6.5 6.5 6.6	Battery weight (min/max)	kg kWh/h	6.4	6.8	7.5	9.3	9.5
	Battery weight (min/max) Energy consumption in accordance with VDI cycle		6.4 MOSFET/AC	6.8 MOSFET/AC	7.5 MOSFET/AC	9.3 MOSFET/AC	
6.6	Battery weight (min/max) Energy consumption in accordance with VDI cycle						
6.6	Battery weight (min/max) Energy consumption in accordance with VDI cycle Drive control Manufacturer		MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC	MOSFET/AC
6.6 8.1	Battery weight (min/max) Energy consumption in accordance with VDI cycle Drive control Manufacturer	kWh/h	MOSFET/AC CURTIS	MOSFET/AC CURTIS	MOSFET/AC CURTIS	MOSFET/AC CURTIS	MOSFET/AC CURTIS
6.6 8.1 10.	Battery weight (min/max) Energy consumption in accordance with VDI cycle Drive control Manufacturer Operating pressure for attachments Oil flow for attachments	kWh/h bar	MOSFET/AC CURTIS 145	MOSFET/AC CURTIS 175	MOSFET/AC CURTIS 175	MOSFET/AC CURTIS 175	MOSFET/AC CURTIS 175
6.6 8.1 10. 10. 10.	Battery weight (min/max) Energy consumption in accordance with VDI cycle Drive control Manufacturer Operating pressure for attachments Oil flow for attachments	kWh/h bar I/min	MOSFET/AC CURTIS 145 65	MOSFET/AC CURTIS 175 65	MOSFET/AC CURTIS 175 65	MOSFET/AC CURTIS 175 65	MOSFET/AC CURTIS 175 65
6.6 8.1 10.	Battery weight (min/max) Energy consumption in accordance with VDI cycle Drive control Manufacturer Operating pressure for attachments Oil flow for attachments ● Average noise level at operator's ear ★	kWh/h bar I/min	MOSFET/AC CURTIS 145 65 73	MOSFET/AC CURTIS 175 65 73	MOSFET/AC CURTIS 175 65 74	MOSFET/AC CURTIS 175 65 74	MOSFET/AC CURTIS 175 65 74

[★] LPAZ, measured according to the test cycles and based on the weighting values contained in EN12053.

Specification data is based on VDI 2198, with the following configuration:
Complete truck with 3000mm 2-stage limited free lift mast, standard carriage overhead guard and standard superelastic drive and steer tyres.

lacktriangle Bottom of forks.

X Full suspension seat specified.

[◆] Without load backrest.

O h6 subject to +/- 5 mm tolerance.

Variable

UT18 PFE Mast Table

Mast Type	Maximum	Lowered	Overall Exte	ended Height	Free	e Lift	Mast Tilt
Iviast Type	Fork Height (mm)	Height (mm)	With LBR (mm)	Without LBR (mm)	With LBR (mm)	Without LBR (mm)	F º/ B º
	3300	2126	4255	3864	145	145	5/10
2-Stage LFL	3500	2226	4455	4064	145	145	5/10
	4000	2526	4955	4564	145	145	5/10
	4000	1976	4955	4570	1031	1416	5/6
	4500	2086	5455	5070	1141	1614	5/6
3-stage FFL	4800	2201	5755	5370	1256	1641	5/6
]	5500	2426	6455	6070	1481	1866	3/6
	6000	2651	6955	6570	1706	2091	3/6

UT20-25 PFE Mast Table

Mast Type	Maximum Lowered		Overall Exte	ended Height	Free	Mast Tilt	
Iviast Type	Fork Height (mm)	Height (mm)	With LBR (mm)	Without LBR (mm)	With LBR (mm)	Without LBR (mm)	F ⁰ / B ⁰
	3300	2186	4356	4034	140	140	5/10
2-Stage LFL	3500	2286	4556	4234	140	140	5/10
	4000	2586	5056	4734	140	140	5/10
	4300	1976	5356	5019	930	1267	5/6
	4500	2096	5556	5219	1050	1387	5/6
3-stage FFL	4800	2196	5856	5519	1150	1487	5/6
_	5500	2426	6556	6219	1380	1717	3/6
	6000	2641	7056	6719	1595	1932	3/6

UT30-35 PFE Mast Table

Mast Type	Maximum Lowered			Overall Extended Height				Free Lift				Mast Tilt
TVIGSU Type	Fork Height (mm)	Height (mm)		With LBR (mm)		Without LBR (mm)		With LBR (mm)		Without LBR (mm)		F 0/ B 0
		3.0t	3.5t	3.0t	3.5t	3.0t	3.5t	3.0t	3.5t	3.0t	3.5t	
2-Stage LFL	3300	2186	2336	4452	4452	4097	4164	145	145	145	145	5/10
	3500	2286	2436	4652	4652	4297	4364	145	145	145	145	5/10
	4000	2586	2686	5152	5152	4797	4864	145	145	145	145	5/10
	4300	2041	2141	5452	5452	5083	5092	899	999	1268	1359	5/6
	4500	2121	2221	5652	5652	5283	5292	979	1079	1348	1439	5/6
3-stage FFL	4800	2221	2321	5952	5952	5583	5592	1079	1179	1448	1539	5/6
, and	5500	2451	2551	6652	6652	6283	6292	1309	1409	1678	1769	3/6
	6000	2671	2717	7152	7152	6783	6792	1475	1575	1844	1935	3/6

UT18 PFE Capacity Table

Mast Type	Maximum Fork Height (mm)	Single Tyre Mast vertical to ground (kg)	Dual Tyre Mast vertical to ground (kg)	Single Tyre with ISS Mast vertical to ground (kg)	Dual Tyre with ISS Mast vertical to ground (kg)
	TOLK Height (ITITI)	1.8t	1.8t	1.8t	1.8t
	3300	1750	1750	1700	1700
2-Stage LFL	3500	1750	1750	1700	1700
	4000	1750	1750	1650	1650
	4000	1650	1750	1550	1650
	4500	1500	1550	1400	1450
3-stage FFL	4800	1350	1400	1250	1300
	5500	850	950	750	850
	6000	650	700	650	600

UT20-25 PFE Capacity Table

Mast Type	Maximum Fork Height (mm)	Single Tyre Mast vertical to ground (kg)		Dual Tyre Mast vertical to ground (kg)		Single Tyre with ISS Mast vertical to ground (kg)		Dual Tyre with ISS Mast vertical to ground (kg)	
	T OF K FIGIGING GITHER	2.0t	2.5t	2.0t	2.5t	2.0t	2.5t	2.0t	2.5t
	3300	2000	2500	2000	2500	1980	2480	1980	2480
2-Stage LFL	3500	2000	2500	2000	2500	1980	2480	1980	2480
	4000	1980	2380	2000	2480	1930	2330	1980	2380
	4300	1780	2080	1880	2330	1680	1980	1780	2230
	4500	1680	1980	1780	2230	1580	1880	1680	2130
3-stage FFL	4800	1580	1780	1680	2180	1480	1680	1580	2080
J	5500	1130	1280	1530	1980	1030	1180	1430	1880
	6000	780	880	1480	1680	680	780	1380	1580

UT30-35 PFE Capacity Table

Mast Type	Maximum Fork Height (mm)	Single Tyre Mast vertical to ground (kg)		Dual Tyre Mast vertical to ground (kg)		Single Tyre with ISS Mast vertical to ground (kg)		Dual Tyre with ISS Mast vertical to ground (kg)	
	T OF ICT TOIGHTO CITITIO	3.0t	3.5t	3.0t	3.5t	3.0t	3.5t	3.0t	3.5t
	3300	3000	3500	3000	3500	2900	3400	2900	3400
2-Stage LFL	3500	3000	3500	3000	3500	2900	3400	2900	3400
	4000	2950	3250	3000	3500	2850	3150	2900	3400
	4300	2500	2500	2500	2500	2500	2500	2500	2500
	4500	2500	2700	2800	3200	2400	3600	2700	3100
3-stage FFL	4800	2350	2450	2700	2950	2250	2350	2600	2850
	5500	1750	1900	2450	2800	1650	1800	2350	2700
	6000	1300	1300	2150	2300	1200	1200	2050	2200



Features Overview

Front End

The range of rigid Class II and III 2-stage LFL and 3-stage FFL masts feature heavy sections and large diameter rollers, and are compatible with factory fitted carriages, forks, integral sideshift and integral sideshift with fork positioner. The masts are mounted on the frame for maximum stability, supported by large tilt cylinders, and the design assists in reducing load damage due to the excellent visibility.

The carriages are Class II and III and are made from high tensile steel sections. The integral sideshift and sideshift with fork positioner options feature a machined structure of tensile steel bars and a double-ended hydraulic cylinder.

Hydraulics

High quality cylinders and hard chrome rods reduce seal wear, for long life and minimum fluid contamination

To keep the oil clean, there is a full-flow, low pressure filter on the return line, which helps to minimise seal and pump wear. This keeps the control valve in good condition, leading to low service costs. The hydraulic tank features a dipstick and oil breather.

The hydraulics are operated through cowl mounted levers, with a standard arrangement of 2-valve, 2-lever.

Brakes

The standard drum brakes, together with regenerative braking, offer excellent stopping capability. The truck also features an automotive style parking brake, located on the cowl.

Frame & Counterweight

The steel frame is extremely durable for a long life. The hydraulic and drive motor components are protected against the ingress of dirt and water. Easy access to the controllers (located in the counterweight) helps to minimise service time.

The compact and robust design of the truck enables the driver to complete handling tasks quickly and efficiently, with a low risk of damage to either the truck or the load.

Vented side panels provide air flow for cooling of the hydraulic pump and tank. Additional vents are available on the hood for hot climates.





Operator Compartment

A wide, low-mounted, non-slip step plus large grab handles allow the driver to get on and off the truck easily and the standard seat offers superior comfort and lumbar support.

The wide mast, low cowl and high seating position give the operator an excellent view of the forks, and of the operating environment, reducing the risk of load damage or collisions.

Well positioned lights ensure optimum vision to both the front and rear.

The automotive-style controls ensure ease of operation. The dash display includes performance parameter and fault code information, hour meter, battery level indicator and drive wheel alignment indicator.

The small diameter steering wheel features light, precise steering and is tilt adjustable for optimum comfort.

The manual hydraulic controls are cowl mounted within easy reach. Third and fourth function levers are available as options.

The uncluttered floor plate offers excellent foot space with well-placed accelerator and brake pedals and provides plenty of leg room to aid driver comfort.

Electronics

AC Technology features brushless motors that are protected against the ingress of dirt and water, which minimises damage and servicing costs. Roll-back is almost eliminated and higher travel speeds are attainable.

The drive and hoist systems are fully adjustable to suit the application and more than 30 performance parameters can be adjusted to suit the type of load, operating environment and skill of the driver. In-built diagnostics record intermittent faults and service requirements, which help reduce expensive service time.

Curtis AC Controllers optimise battery power, particularly helpful on ramps and long runs as well as high lifts. The truck is available with fully accessible 48V and 80V batteries with 560-700Ah capacity. 1.8t has a 180amp connector and 2.0-3.5t has a 320 amp connector.

Wheels and Steering

The on-demand hydraulic power steering delivers superb maneuverability and low energy consumption. The low steering force required further enhances operator comfort. The wheels feature a conventional rim assembly with superelastic tyres.

Drivetrain

Both axles are designed for durability and longevity. The compact drive axle features an AC Technology brushless drive motor, readily accessible from either the front or above, minimising servicing time.

Truck Dimensions $\mathsf{Ast} = \mathsf{Wa} + \mathsf{x} + \mathsf{I6} + \mathsf{a}$ a = Minimum operating clearance of 200mm16 = Load length 4.1 α h₄ 4.5 h₃ 4.4 h₆ 4.7 h₁ 4.2 h₇ 4.8 h₁₀ 4.12 m_1 4.31 m_2 m₂ 4.32 —у 1.19 -I 4.22 - I₂ 4.20 I₁ 4.19 - Ast 4.33/4.34 <u>a</u> 2 100mmb₁ 4.21 b₁₀ 3.6 e 4.22 b₁₁3.7 b₁4.21

Features

Standard Features Include:

- 48V AC Technology: 8kW Drive and 8.6 kW Hoist Motors (1.8t),
 - 11kW Drive and 8.6 kW Hoist Motors (2.0-2.5t)
- 80V AC Technology: 15kW Drive and 10kW Hoist Motors (3.0-3.5t)
- Curtis Traction & Pump Controller ■
- DC-DC converter
- Emergency Stop Button
- Mast: 2-stage LFL 3300mm
- Carriages: 1000mm, Class II, for 2-stage LFL Mast (1.8t)

1038mm, Class II, for 2-stage LFL Mast (2.0-2.5t)

1100mm, Class III, for 2-stage LFL Mast (3.0-3.5t)

Forks:
 920 x 100 x 35mm Class II (1.8t)
 1070 x 122 x 40mm Class II (2.0-2.5t)

1070 x 122 x 45mm Class III (3.0t) 1070 x 122 x 50mm Class III (3.5t)

- Superelastic Tyres:
 Drive: 21x8-9 (1.8t), 23x9-10 (2.0-3.0t), 23x10-12 (3.5t)
 Steer: 5.00-8 (1.8t), 18x7-8 (2.0-3.0t), 200/50-10 (3.5t)
- Two Function Cowl Mounted Manual Levers Lift / Tilt

- Forward / Reverse Directional Lever
- Two Pedal Layout
- Non-Suspension Seat (Vinyl) with Retractable Seat Belt (Non CE)
- Steering Wheel with Spinning Knob
- Tilt Adjustable Steering Column
- Power Steering
- Manual Park Brake
- Key Switch Start
- Entry Grab Handle
- Overhead Guard 2130mm (1.8t), 2155mm (2.0-2.5t), 2190mm (3.0-3.5t)
- LCD Dash Display
- Rear View Mirror
- Load Backrest
- Mast Tilt 5.0° Forward / 10.0° Back
- Strobe Light (magnetically mounted)
- Audible Reverse Alarm
- Lights 2 x Front Work, 2 x Front Turn, Rear Turn / Stop / Brake / Reverse
- Toolbox
- Towing Pin
- Operator Manual
- 12 Months / 2000 Hours Manufacturer's Warranty

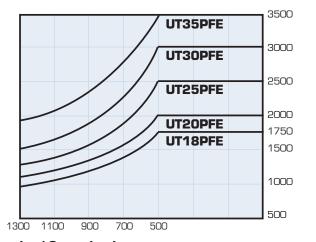
Rated

Load

Options Include:

- Valve & Hose Groups 3 way / 4 way
- 2-stage LFL Masts 3500-4000mm
- 3-stage FFL Masts 4000-6000mm
- Mast tilts vary depending on height
- Integral Sideshift
- Integral Sideshift with Fork Positioner
- 1070mm, 1150mm or 1220mm
- Non-marking Superelastic Drive and Steer Tyres
- Cab with Heater
- Clad-on Cab kits Front, Top and Rear / Front and Top / Top Panel
- Front and Rear Windscreen Washer
- 560-700Ah Batteries
- Full Suspension Seat
- Operator Presence System
- Rear Work Light
- Rear Drive handle with horn

Rated Capacities



Load Centre (mm)

Load Centre

Distance from forks to centre of gravity of load.

Rated Load

Based on vertical masts as shown in VDI table.





Overview

Utility you can trust™

The UTILEV® range of affordable forklift trucks delivers reliable and cost-effective materials handling solutions for applications across many industries, particularly where users require equipment without advanced functionality or attachments.

The product range has been designed to be easy to operate and maintain, and is backed up by a standard warranty and comprehensive parts availability.

Furthermore, a network of experienced distributors is on-hand to provide maintenance and support, whenever it is required.

The Range

The range consists of 1.8 to 3.5 tonne electric counterbalance forklift trucks, available in five different capacities.

1.8t - UT18PFE

2.0t - UT20PFE

2.5t - UT25PFE

3.0t - UT30PFE

3.5t - UT35PFE

Simple to Use

The ergonomically designed operator compartment, with a familiar automotive layout means that drivers will be able to work comfortably, preventing tiredness during handling operations.

A range of standard features and options help to ensure that the truck is configured to the needs of the application.

Easy to Maintain

Thanks to the simplicity of the components and specification, servicing can be carried out quickly and easily, even when PCs, laptops or diagnostic tools are not available

Affordable to Own

The use of proven, high quality, robust components, efficient filtration and excellent cooling result in reliable operation and lower wear and tear. This - together with the fast availability of cost-effective replacement parts - helps to reduce service and maintenance requirements and costs.

Standard service intervals are 500 hours and the trucks have a standard warranty of 2000hrs / 12 months.





Simple to Use, **Easy** to Maintain and **Affordable** to Own.

UTILEV - Utility you can trust™.

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