
Yale UX Series

3-Wheel Electric Forklift

ERP16-20UXT / 1600-2000KG



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People. Products. Productivity.™

Features

1 Wide View Mast

The wide view mast delivers excellent visibility of the load and operator's forward field of view. Thus optimising comfort and productivity.

2 Small, Adjustable Steering Wheel

The small diameter steering wheel requires low effort, promoting light and precise operation. The adjustable steer column optimises comfort and convenience.

3 Wide and Low Step

The conveniently positioned non-slip step coupled with large grab handles provide easy and secure access to the truck.

4 High Strength Overhead Guard

The profiled steel overhead guard features high strength materials to enhance reliability and operator protection.

5 AC Controller

European designed controllers optimise battery power consumption. AC traction and hydraulic motors improve precision. All are easily accessible to minimise service time.

6 Dual Drive Motors

The compact structure of the drive system provides adequate access for maintenance. Precision cut gears are incorporated, leading to reduced wear and lower noise levels.



Overview

The Yale® UX Series provides the ideal solution to meet your less frequent usage needs, without compromising on performance.

The Range

The ERP16-20UXT range is available in three different capacities:

1,600KG – ERP16UXT

1,800KG – ERP18UXT

2,000KG – ERP20UXT

Design

The design of the UX range has been engineered with the driver in mind. The ergonomically designed operator compartment, with a familiar layout, means that drivers will be able to work effortlessly. A range of standard features and options allow the truck to be configured to the needs of the application

Low Cost of Ownership

The use of high quality and robust components within the UX series deliver a reliable operation with limited wear and tear. Maintenance costs and requirements are further reduced by simple, readily available, genuine and cost effective replacement parts.

Hydraulics

High quality cylinders with hard chrome rods reduce seal wear for long life. A full-flow, low pressure filter on the return line keeps the hydraulic oil clean, which helps to minimise seal and pump wear. In addition, this keeps the control valve in good condition, leading to low service costs.

Engineered for Drivers



► Performance

- On-demand hydraulic power steering, with twin drive motor system, delivers superb manoeuvrability and low energy consumption
- Excellent stopping capability - delivered through maintenance free oil immersed brakes and regenerative braking system
- Simple and clear dash display helps the operator to be fully informed
- Display with integrated performance selection functions
- AC traction and lifting motors, with electronic control, improves performance
- Sequential seatbelt interlock available to comply with Australia ISO standards



► Comfort

- Hydraulic power steering requires low steering effort for precise positioning
- Driver fatigue minimised by full suspension, superior comfort and lumbar support seat
- Adjustable steering column and seat to suit all operators
- Low noise and vibration
- Low entrance step, large uncluttered floor space and ergonomically positioned pedals
- Ergonomic handbrake and operator controls – maximising comfort



► Safety and Compliance

- High visibility, shock absorbing mast as standard enables soft landing
- Controllable mast lowering speed to avoid damage
- Secure overhead guard, passed CE drop test
- LED lights as standard
- Operator presence system



► Service

- AC traction and hydraulic motors reduce maintenance costs
- Easy service access to the controllers – mounted inside the counterweight, at waist height, protected by removable cover
- IP54 Design – protects the hydraulic and drive motor components
- Readily accessible drivetrain - minimising service time
- CANbus communication simplifies troubleshooting

► ERP16UXT Mast and Capacity Chart

	Max fork height (mm)	Overall Extended Height			Free Lift		Mast Tilt		Capacity without Side Shift	
		Lowered height (mm)	Lift height		Without LBR (mm)	With LBR (mm)	Forward (Deg)	Back (Deg)	@ 500mm Single Pneumatic Tyre (kg)	@ 600mm Single Pneumatic Tyre (kg)
			Without LBR (mm)	With LBR (mm)					1.6T	1.6T
2FL	3000	1975	3490	4010	35	35	6	6	1600	1435
	3300	2125	3790	4310	35	35	6	6	1600	1435
	3500	2225	3990	4510	35	35	6	6	1600	1435
	3700	2325	4190	4710	35	35	6	6	1600	1435
	4000	2525	4490	5010	35	35	3	5	1600	1435
	4500	2775	4990	5510	35	35	3	5	1400	1255
	5000	3025	5490	6010	35	35	3	5	1250	1120
2FFL	3000	1975	3490	4010	1510	990	6	6	1600	1435
	3300	2125	3790	4310	1660	1140	6	6	1600	1435
	3500	2225	3990	4510	1760	1240	6	6	1600	1435
	3700	2325	4190	4710	1860	1340	6	6	1600	1330
	4000	2525	4490	5010	2060	1540	3	5	1600	1330
	4500	2775	4990	5510	2385	1865	3	5	1600	1330
	5000	3025	5490	6010	2660	2140	3	5	1500	1345
3FFL	3000	1975	3490	4010	1510	990	3	5	1400	1255
	3300	2125	3790	4310	1560	1040	3	5	1400	1255
	3500	2225	3990	4510	1660	1140	3	5	1300	1165
	3700	2325	4190	4710	1760	1240	3	5	1250	1120
	4000	2525	4490	5010	1925	1405	3	5	1150	1030
	4500	2775	4990	5510	2110	1590	3	5	1050	940
	5000	3025	5490	6010	2325	1805	3	5	900	805

► ERP18UXT Mast and Capacity Chart

	Max fork height (mm)	Overall Extended Height			Free Lift		Mast Tilt		Capacity without Side Shift	
		Lowered height (mm)	Lift height		Without LBR (mm)	With LBR (mm)	Forward (Deg)	Back (Deg)	@ 500mm Single Pneumatic Tyre (kg)	@ 600mm Single Pneumatic Tyre (kg)
			Without LBR (mm)	With LBR (mm)					1.8T	1.8T
2FL	3000	1975	3490	4010	35	35	6	6	1800	1615
	3300	2125	3790	4310	35	35	6	6	1800	1615
	3500	2225	3990	4510	35	35	6	6	1800	1615
	3700	2325	4190	4710	35	35	6	6	1800	1615
	4000	2525	4490	5010	35	35	3	5	1800	1615
	4500	2775	4990	5510	35	35	3	5	1600	1435
	5000	3025	5490	6010	35	35	3	5	1450	1300
2FFL	3000	1975	3490	4010	1510	990	6	6	1800	1615
	3300	2125	3790	4310	1660	1140	6	6	1800	1615
	3500	2225	3990	4510	1760	1240	6	6	1800	1615
	3700	2325	4190	4710	1860	1340	6	6	1800	1500
	4000	2525	4490	5010	2060	1540	3	5	1800	1500
	4500	2775	4990	5510	2385	1865	3	5	1800	1500
	5000	3025	5490	6010	2660	2140	3	5	1700	1525
3FFL	3000	1975	3490	4010	1510	990	3	5	1600	1435
	3300	2125	3790	4310	1560	1040	3	5	1600	1435
	3500	2225	3990	4510	1660	1140	3	5	1500	1345
	3700	2325	4190	4710	1760	1240	3	5	1450	1300
	4000	2525	4490	5010	1925	1405	3	5	1200	1075
	4500	2775	4990	5510	2110	1590	3	5	1100	985
	5000	3025	5490	6010	2325	1805	3	5	950	850

► ERP20UXT Mast and Capacity Chart

	Max fork height (mm)	Overall Extended Height			Free Lift		Mast Tilt		Capacity without Side Shift	
		Lowered height (mm)	Lift height		Without LBR (mm)	With LBR (mm)	Forward (Deg)	Back (Deg)	@ 500mm Single Pneumatic Tyre (kg)	@ 600mm Single Pneumatic Tyre (kg)
			Without LBR (mm)	With LBR (mm)					2.0T	2.0T
2FL	3000	1975	3490	4010	54	54	6	6	2000	1795
	3300	2125	3790	4310	54	54	6	6	2000	1795
	3500	2225	3990	4510	54	54	6	6	2000	1795
	3700	2325	4190	4710	54	54	6	6	2000	1795
	4000	2525	4490	5010	54	54	3	5	2000	1795
	4500	2775	4990	5510	54	54	3	5	1800	1615
	5000	3025	5490	6010	54	54	3	5	1500	1345
2FFL	3000	1975	3490	4010	1510	990	6	6	2000	1795
	3300	2125	3790	4310	1660	1140	6	6	2000	1795
	3500	2225	3990	4510	1760	1240	6	6	2000	1795
	3700	2325	4190	4710	1860	1340	6	6	2000	1665
	4000	2525	4490	5010	2060	1540	3	5	2000	1665
	4500	2775	4990	5510	2385	1865	3	5	2000	1665
	5000	3025	5490	6010	2660	2140	3	5	2000	1665
3FFL	3000	1975	3490	4010	1510	990	3	5	1900	1705
	3300	2125	3790	4310	1560	1040	3	5	1800	1615
	3500	2225	3990	4510	1660	1140	3	5	1650	1480
	3700	2325	4190	4710	1760	1240	3	5	1500	1345
	4000	2525	4490	5010	1925	1405	3	5	1300	1165
	4500	2775	4990	5510	2110	1590	3	5	1200	1075
	5000	3025	5490	6010	2325	1805	3	5	1000	895

Note: For integral sideloaders deduct 50kg from stated capacity

1.1 Manufacturer		YALE	YALE	YALE	
Distinguishing mark	1.2 Model designation	ERP16UXT	ERP18UXT	ERP20UXT	
	1.3 Power: battery, diesel, LPG, electric mains	Battery	Battery	Battery	
	1.4 Operation: manual, pedestrian, stand, seat, orderpicker	Seated	Seated	Seated	
	1.5 Load capacity	Q (kg)	1600	1800	2000
	1.6 Load centre	c (mm)	500	500	500
Weight	1.8 Load distance	x (mm)	371	371	371
	1.9 Wheelbase	Y (mm)	1400	1400	1515
	2.1 Unladen weight (max. battery)	kg	3120	3190	3380
Tyres, chassis	2.2 Axle loading, laden front / rear (max. battery)	kg	4010 / 660	4420 / 510	4870 / 580
	2.3 Axle loading, unladen front / rear (max. battery)	kg	1480 / 1640	1500 / 1690	1580 / 1810
	3.1 Tyres: L=pneumatic, V=cushion, SE= superelastic	SE	SE	SE	
Dimensions	3.2 Tyre size, front		18 x 7-8	18 x 7-8	200 / 50-10
	3.3 Tyre size, rear		15 x 4.5-8	15 x 4.5-8	15 x 4.5-8
	3.5 Number of wheels, front / rear (X = driven)		2x / 2	2x / 2	2x / 2
	3.6 Track width, front	b10 (mm)	933	933	952
	3.7 Track width, rear	(mm)	186	186	186
	4.1 Mast tilt, forward α / back β	degrees	6 / 6	6 / 6	6 / 6
	4.2 Height of mast, lowered	h1 (mm)	1992	1992	1990
	4.4 Lift height *	h3 (mm)	3036	3036	3045
	4.5 Height of mast, extended E	h4 (mm)	4030	4030	4000
	4.7 Height to top of overhead guard m	h6 (mm)	2002	2002	2004
	4.8 Seat height u	h7 (mm)	965	965	965
	4.12 Towing coupling height	h10 (mm)	445	445	485
	4.19 Overall length (with forks)	l1 (mm)	2894	2894	3153
	4.2 Length to face of forks	l2 (mm)	1974	1974	2084
	4.21 Overall width	b1 (mm)	1084	1084	1140
	4.22 Fork dimensions	s/e/l (mm)	35 / 100 / 920	35 / 100 / 920	40 / 120 / 1070
	4.23 Fork carriage DIN 15173. Class, A / B		2A	2A	2A
	4.24 Fork carriage width E	b3 (mm)	950	950	950
	4.25 Width over forks	b5 (mm)	890	890	890
	4.31 Ground clearance, laden, below mast	m1 (mm)	90	90	90
4.32 Ground clearance at centre of wheelbase	m2 (mm)	96	96	96	
4.33 Aisle width with pallets 1000 mm long x 1200 mm wide	Ast (mm)	3290	3290	3445	
4.34 Aisle width with pallets 800 mm wide x 1200 mm long	Ast (mm)	3415	3415	3410	
4.35 Outer turning radius	Wa (mm)	1601	1601	1716	
4.36 Inner turning radius	b13 (mm)	0	0	0	
Performance data	5.1 Travel speed laden / unladen	km/h	14 / 16	14 / 16	14 / 16
	5.2 Lifting speed laden / unladen	mm/s	352 / 500	349 / 500	310 / 500
	5.3 Lowering speed laden / unladen	mm/s	344 / 420	382 / 421	390 / 430
	5.6 Maximum drawbar pull laden / unladen, 5 minute rating	N	15500 / 10000	15000 / 10500	15500 / 12000
	5.8 Maximum gradeability with / without load, 5 minute rating	%	20 / 30	20 / 30	20 / 30
5.9 Acceleration time with / without load 10m	sec	4.4 / 4.3	4.4 / 4.3	5.9 / 5.6	
Electric-Motor	6.1 Service brake		Hydraulic	Hydraulic	Hydraulic
	6.1 Drive Motor Rating, S2, 60min	kW	2 x 5.0	2 x 5.0	2 x 5.0
	6.2 Lifting motor, S3 15% rating	kW	11	11	11
	6.3 Battery DIN 43531 / 35 / 36 A, B, C, no		43531A	43531A	43531A
	6.4 Battery voltage / capacity (5hr rate)	V/Ah	48 / 460	48 / 460	48 / 600
	6.5 Battery weight (min/max)	kg	945	945	1090
Additional data	Battery dimensions	l/w/h (mm)	830 / 630 / 627	830 / 630 / 627	830 / 738 / 627
	6.6 Power consumption in accordance with VDI cycle	kWh/h	5.19	5.3	5.7
	8.1 Drive control		AC	AC	AC
	8.2 Manufacturer		ZAPI	ZAPI	ZAPI
	8.2 Operating pressure for attachments x	bar	145	175	175
8.3 Oil volume for attachments	Vmin	38	38	38	
8.4 Average noise level at operator's ear \rightarrow	dB (A)	64.8	64.8	69.6	
8.5 Towing coupling, type DIN		Ø32	Ø32	Ø32	

- LPAZ, measured according to the test cycles and based on the weighting values contained in EN12053
 * Bottom of forks
 u Full suspension specified
 E Without load backrest
 m h6 subject to +/- 5 mm tolerance
 x Variable

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

