



UX Series

ERP16-20UXT / 1,600 - 2,000kg

3-Wheel Electric Forklift

ERP16-20UXT features.

The Yale® ERP16-20UXT was designed for operations looking for a reliable, cost-effective solution to get the job done—all backed by the trusted Yale name.

Model range

The ERP16-20UXT consists of 1,600-2,000kg trucks, available in three different capacities:

1,600kg – ERP16UXT

1,800kg – ERP18UXT

2,000kg – ERP20UXT

Design

The design of the UX series has been engineered with the operator in mind. The ergonomically designed compartment provides a natural and comfortable environment to help reduce fatigue throughout the shift. A range of standard features and options help to configure the truck to the needs of the application.

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 minimize seal and pump wear. In addition, this keeps the control valve in good condition, leading to low service costs.

Low cost of ownership

The use of high quality and robust components contribute to reliable operations and lower wear and tear. This, together with fast availability of cost-effective replacement parts helps to reduce maintenance requirements and costs.





1 Wide view mast

The wide view mast provides the operator with a significant front field of view, minimizing blind spots and increasing operator comfort, thereby enabling safe, productive and efficient operation.

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 overhead guard features profiled steel, with high strength materials to help enhance reliability and operator protection.

5 AC Controller

AC controllers coupled with AC traction and hydraulic motors allow for precise truck controllability. The controllers are easily accessible which can also minimize 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.

Engineered for drivers.



Performance

- On-demand hydraulic power steering, with twin drive motor system, delivers superb maneuverability and low energy consumption
- Excellent stopping capability - delivered through maintenance free oil immersed brakes and regenerative braking system
- Simple and clear dash display helps keep the operator informed
- Display with integrated performance selection functions
- AC traction and lifting motors, with electronic control, deliver a high level of performance



Comfort

- Hydraulic power steering requires low steering effort without kick-back which helps with precise positioning
- Full suspension helps minimize driver fatigue
- Low noise and vibration
- Adjustable steering column and seat to accommodate a variety of operators
- Low entrance step and large floor space
- Ergonomically designed hand brake



Operations and compliance

- High visibility mast with soft landing absorbs shock
- Controlled mast lowering speed helps reduce damaging product
- Secure overhead guard
- LED lights as standard
- Operator presence system



Service

- AC traction and hydraulic motors help reduce maintenance cost
- 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 - minimizing 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 Tire (kg)	@ 600mm Single Pneumatic Tire (kg)
			Without LBR (mm)	With LBR (mm)					1.6t	1.6t
2LFL	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
	5500	3325	5990	6510	35	35	3	5	1150	1030
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
	4000	1850	4490	5010	1385	865	3	5	1600	1330
	4350	1975	4840	5360	1510	990	3	5	1500	1345
	4500	2025	4990	5510	1560	1040	3	5	1400	1255
3FFL	4800	2125	5290	5810	1660	1140	3	5	1300	1165
	5000	2225	5490	6010	1760	1240	3	5	1250	1120
	5500	2390	5990	6510	1925	1405	3	5	1150	1030
	6000	2575	6490	7010	2110	1590	3	5	1050	940
	6500	2790	6990	7510	2325	1805	3	5	900	805

ERP18UXT Mast and Capacity Chart

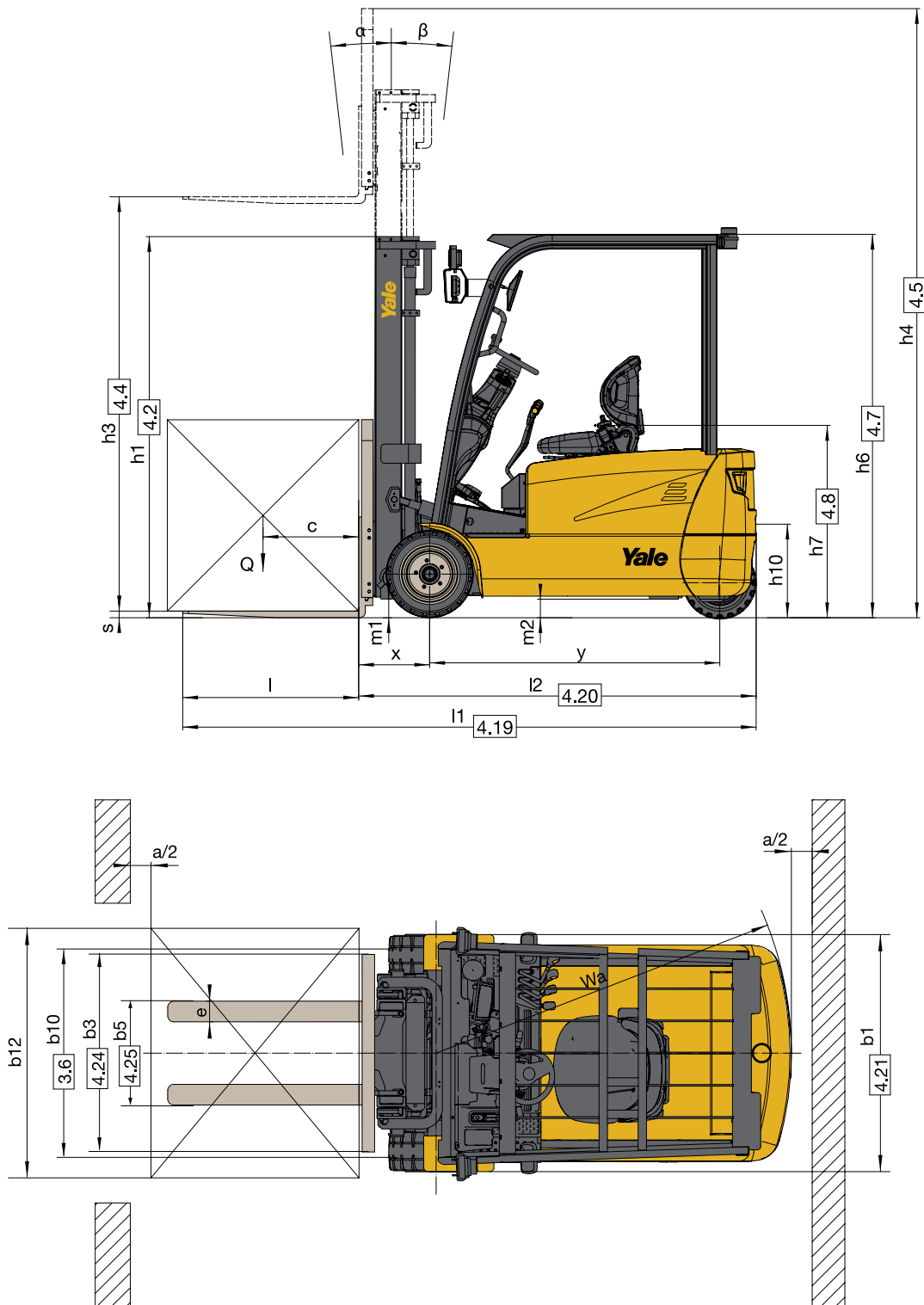
	Max fork height (mm)	Overall Extended Height			Free Lift		Mast Tilt		Capacity without Side Shift	
		Lowered height (mm)	Lift height		Without LBR (mm)	With LBR (mm)	Forward (Deg)	Back (Deg)	@ 500mm Single Pneumatic Tire (kg)	@ 600mm Single Pneumatic Tire (kg)
			Without LBR (mm)	With LBR (mm)					1.8t	1.8t
2LFL	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
	5500	3325	5990	6510	35	35	3	5	1200	1075
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
	4000	1850	4490	5010	1385	865	3	5	1800	1500
	4350	1975	4840	5360	1510	990	3	5	1700	1525
	4500	2025	4990	5510	1560	1040	3	5	1600	1435
3FFL	4800	2125	5290	5810	1660	1140	3	5	1500	1345
	5000	2225	5490	6010	1760	1240	3	5	1450	1300
	5500	2390	5990	6510	1925	1405	3	5	1200	1075
	6000	2575	6490	7010	2110	1590	3	5	1100	985
	6500	2790	6990	7510	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 Tire (kg)	@ 600mm Single Pneumatic Tire (kg)
			Without LBR (mm)	With LBR (mm)					1.6t	1.6t
2LFL	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
	5500	3325	5990	6510	54	54	3	5	1300	1165
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
	4000	1850	4490	5010	1385	865	3	5	2000	1665
	4350	1975	4840	5360	1510	990	3	5	1900	1705
	4500	2025	4990	5510	1560	1040	3	5	1800	1615
3FFL	4800	2125	5290	5810	1660	1140	3	5	1650	1480
	5000	2225	5490	6010	1760	1240	3	5	1500	1345
	5500	2390	5990	6510	1925	1405	3	5	1300	1165
	6000	2575	6490	7010	2110	1590	3	5	1200	1075
	6500	2790	6990	7510	2325	1805	3	5	1000	895

Note: For integral sideshifts deduct 50kg from stated capacity

Truck Dimensions ERP16-20UXT



NOTE: The Industrial Truck Association (ITA) defines the formula for calculating Right Angle Stack on 3-wheel trucks with counter rotating load wheels as:

$$\text{Right Angle Stack} = \text{OTR} + \sqrt{(\text{Load Distance} + \text{Load Length})^2 + \left(\frac{\text{Load Width}}{2}\right)^2} \quad (\text{For a } 40'' \text{ wide by } 48'' \text{ long})$$

Yale uses the above ITA formula to calculate Right Angle Stack on our 3 and 4 wheel trucks with a zero turn steer axle and counter rotating load wheels.

Some documentation incorrectly calculates Right Angle Stack on a 3-Wheel zero-turn truck with counter rotating load wheels using the following formula: **Right Angle Stack = OTR + Load Distance + Load Length**. This formula generates a value which is invalid and lower than actual Right Angle Stack. When making comparisons, be sure the correct ITA formula is used to calculate Right Angle Stack.

General Specifications ERP16-20UXT

		Yale	Yale	Yale		
Distinguishing mark	1.1	Manufacturer	Yale	Yale	Yale	
	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	Q (kg)	Seated	Seated	Seated
	1.5	Load capacity	c (mm)	1600	1800	2000
	1.6	Load centre	x (mm)	500	500	500
	1.8	Load distance	Y (mm)	371	371	371
	1.9	Wheelbase	kg	1400	1400	1515
	Weight	2.1	Unladen weight (max. battery)	kg	3120	3190
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)		1480 / 1640	1500 / 1690	1580 / 1810
Tires, chassis	3.1	Tires: L=pneumatic, V=cushion, SE= superelastic		SE	SE	SE
	3.2	Tire size, front		18 x 7-8	18 x 7-8	200 / 50-10
	3.3	Tire 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)	b10 (mm)	2x / 2	2x / 2	2x / 2
	3.6	Track width, front	(mm)	933	933	952
	3.7	Track width, rear	degrees	186	186	186
	Dimensions	4.1	Mast tilt, forward / back	h1 (mm)	6 / 6	6 / 6
4.2		Height of mast, lowered	h3 (mm)	1992	1992	1990
4.4		Lift height "	h4 (mm)	3036	3036	3045
4.5		Height of mast, extended E	h6 (mm)	4030	4030	4000
4.7		Height to top of overhead guard m	h7 (mm)	2002	2002	2004
4.8		Seat height u	h10 (mm)	965	965	965
4.12		Towing coupling height	l1 (mm)	445	445	485
4.19		Overall length (with forks)	l2 (mm)	2894	2894	3153
4.2		Length to face of forks	b1 (mm)	1974	1974	2084
4.21		Overall width	s/e/l (mm)	1084	1084	1140
4.22		Fork dimensions		35 / 100 / 920	35 / 100 / 920	40 / 120 / 1070
4.23		Fork carriage DIN 15173. Class, A / B	b3 (mm)	2A	2A	2A
4.24		Fork carriage width E	b5 (mm)	950	950	950
4.25		Width over forks	m1 (mm)	890	890	890
4.31		Ground clearance, laden, below mast	m2 (mm)	90	90	90
4.32		Ground clearance at centre of wheelbase	Ast (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	Wa (mm)	3415	3415	3410
4.35		Outer turning radius	b13 (mm)	1601	1601	1716
4.36		Inner turning radius	km/h	0	0	0
Performance data	5.1	Travel speed laden / unladen	mm/s	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	N	344 / 420	382 / 421	390 / 430
	5.6	Maximum drawbar pull laden / unladen, 5 minute rating	%	15500 / 10000	15000 / 10500	15500 / 12000
	5.8	Maximum gradeability with / without load, 5 minute rating	sec	20 / 30	20 / 30	20 / 30
5.9	Acceleration time with / without load 10m		4.4 / 4.3	4.4 / 4.3	5.9 / 5.6	
Electric-Motor	5.1	Service brake	kW	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		11	11	11
	6.3	Battery DIN 43531 / 35 / 36 A, B, C, no	V/Ah	43531A	43531A	43531A
	6.4	Battery voltage / capacity (5hr rate)	kg	48 / 460	48 / 460	48 / 600
	6.5	Battery weight (min/max)	kg (lbs)	898 (1980) / 992 (2185)	898 (1980) / 992 (2185)	1034 (2280) / 1142 (2515)
	6.5	Battery dimensions (width/length/height)	mm (in)	830(32.6) / 630(24.8) / 627(24.6)	830(32.6) / 630(24.8) / 627(24.6)	830(32.6) / 738(29.0) / 627(24.6)
6.6	Power consumption in accordance with VDI cycle		5.19	5.3	5.7	
Additional data	8.1	Drive control		AC	AC	AC
	8.1	Manufacturer	bar	ZAPI	ZAPI	ZAPI
	8.2	Operating pressure for attachments x	Vmin	145	175	175
	8.3	Oil volume for attachments	dB (A)	38	38	38
	8.4	Average noise level at operator's ear ~		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

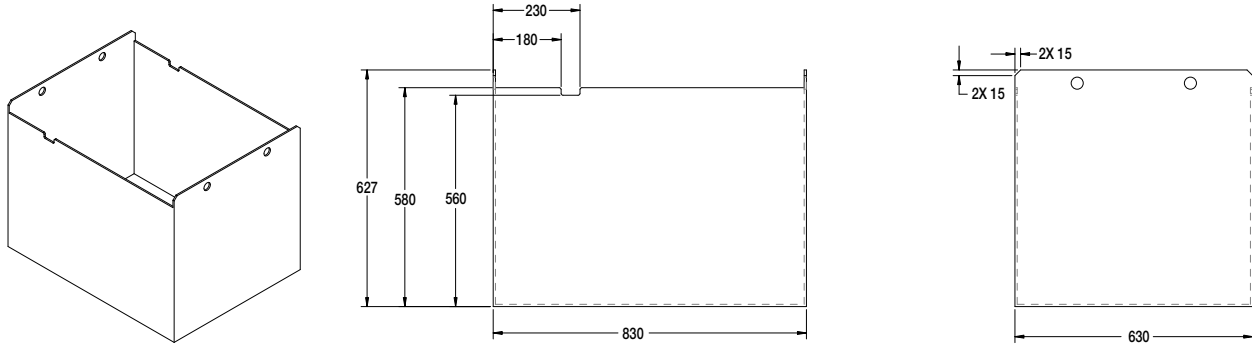
Specification data is based on VDI 2198, with the following configuration:
Complete truck with 3000mm 2-stage limited free lift mast, standard carriage and forks, overhead guard and standard superelastic drive and steer tires.

Battery Compartment Specifications ERP16-20UXT

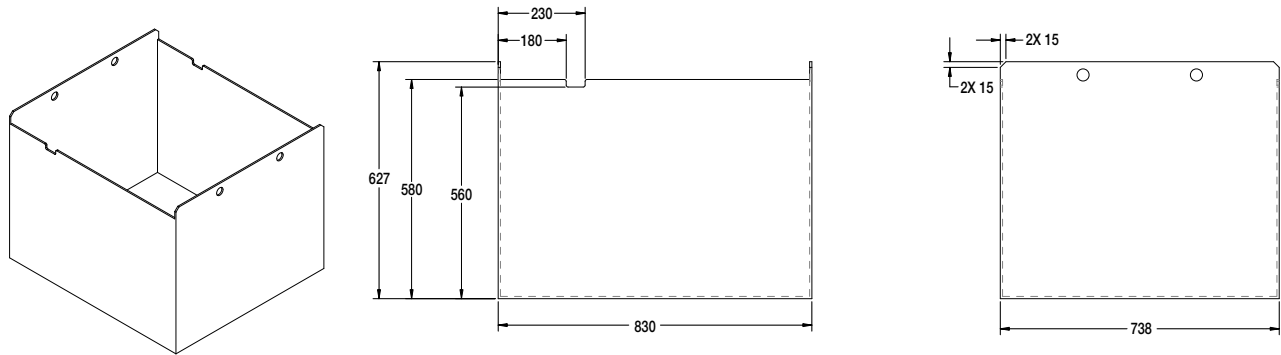
Model			Compartment Size		
			Width	Length	Height
ERP016-018UXT	Vertical extract	mm (in)	843 (33.1)	634 (24.9)	645 (25.3)
ERP020UXT	Vertical extract	mm (in)	843 (33.1)	752 (29.6)	645 (25.3)

Battery Type: "EO" (Without Cover)
 Battery Compartment Length is measured front to rear.
 Battery Compartment Width is measured across the truck
 Battery Lead: Length 250mm (10"), Position "B", 2/0 AWG

ERP016-018UXT



ERP020UXT



For more information, or to find your nearest Yale® dealer, go to Yale.com.



YALE MATERIALS HANDLING CORPORATION

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Truck performance may be affected by the condition of the vehicle, how it is equipped and the application. Consult your Yale® Industrial Truck Dealer if any of the information shown is critical to your application. Specifications are subject to change without notice.

2351A 9/2021 Trucks may be shown with optional equipment.