



ERP16-20UXT ERP16-20UXTL

SPEC SHEET

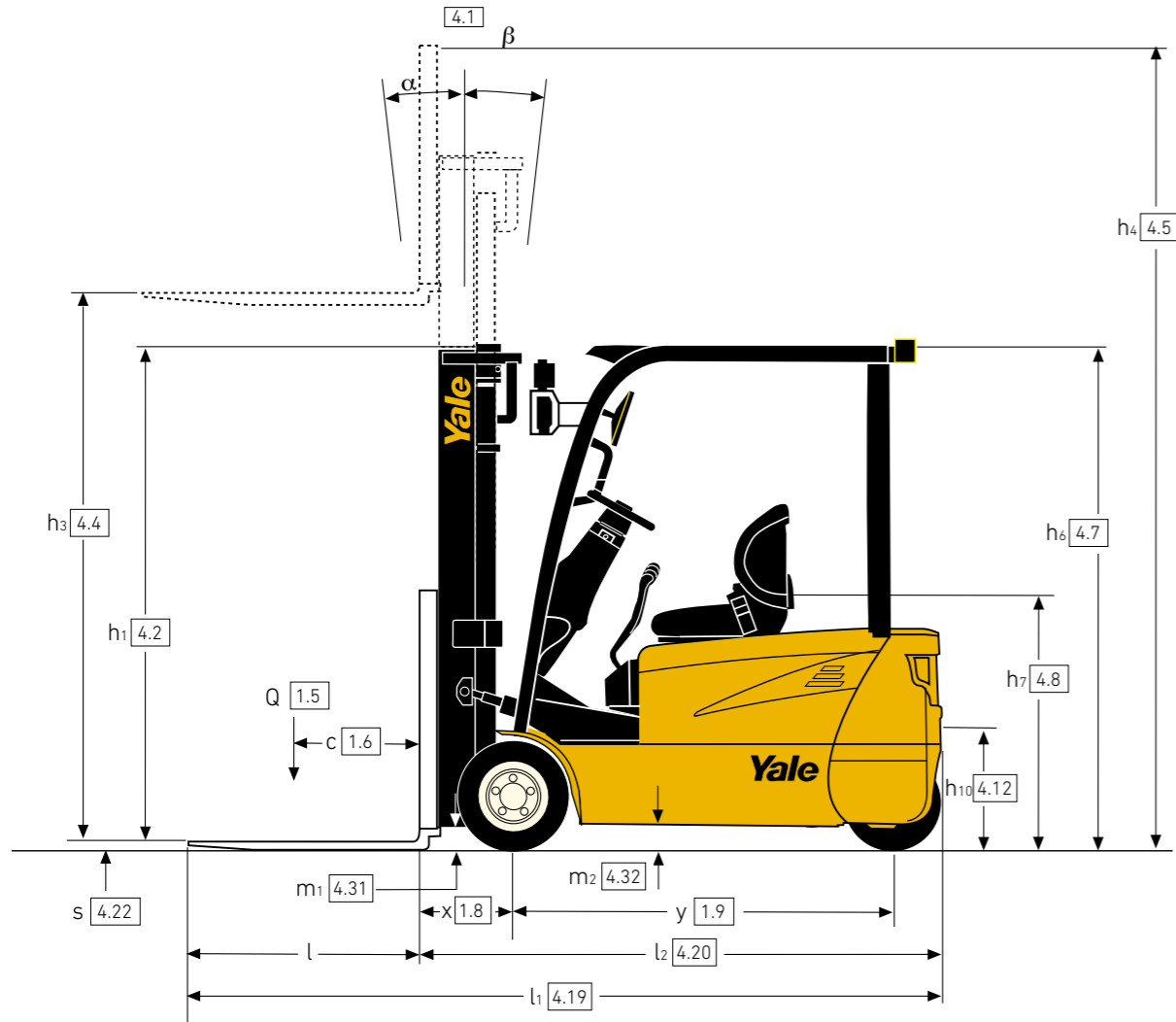
1,600 - 2,000 kg

UXT Series

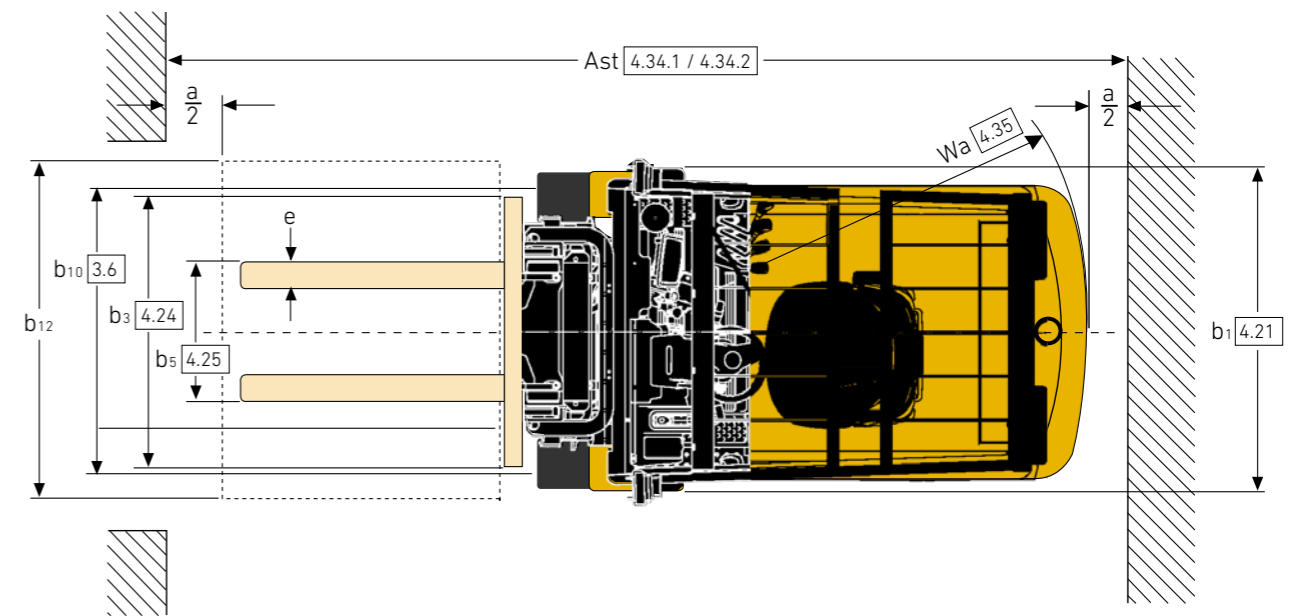
Three Wheel Electric
Forklift Trucks

TRUCK DIMENSIONS – UXT SERIES

$Ast = Wa + x + l_6 + a$
 a = Minimum operating clearance of 200mm
 l_6 = Load length



TRUCK DIMENSIONS – UXT SERIES



VDI 2198 – GENERAL SPECIFICATIONS – UXT SERIES

GENERAL	Manufacturer		Yale			
	1-1	1-2	ERP16 UXT (L)	ERP18 UXT (L)	ERP20 UXT (L)	
1-2	Model designation					
1-3	Drive		Electric (battery)			
1-4	Operation		Seated			
1-5	Rated capacity/rated load	Q (t)	1600	1800	2000	
1-6	Load centre	c (mm)	500			
1-8	Load centre distance	x (mm)	371			
1-9	Wheelbase	y (mm)	1400	1515		
WEIGHT	2-1	Unladen weight (max. battery)	kg	3120	3190	3380
	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
TYRES	3-1	Tyres front/rear	Superelastic			
	3-2	Tyre size, front	ø mm x mm	18"7-8	200 / 50-10	
	3-3	Tyre size, rear	ø mm x mm	15"4 1 / 2-8		
	3-5	Wheels, number front/rear (x = driven wheels)	2 x / 2			
	3-6	Tread, front	b1ø (mm)	933	952	
	3-7	Tread, rear	b1s (mm)	186		
	4-1	Mast tilt, forward / backward	degrees	6.15 / 6.75		
DIMENSIONS	4-2	Height of mast, lowered	h1 (mm)	1992	1990	
	4-3	Free lift (1)	h2 (mm)	35	54	
	4-4	Lift height (1)	h3 (mm)	3036	3045	
	4-5	Height of mast, extended (2)	h4 (mm)	4030	4000	
	4-7	Height to top of overhead guard (3)	h6 (mm)	2002	2004	
	4-8	Seat height (4)	h7 (mm)	965		
	4-12	Towing coupling height	h1ø (mm)	445	485	
	4-19	Overall length(with forks)	l1 (mm)	2894	3153	
	4-20	Length to face of forks	l2 (mm)	1974	2084	
	4-21	Overall width	b1/b2 (mm)	1084	1140	
	4-22	Fork dimensions	s/e/l (mm)	35 / 100 / 920	40 / 120 / 1070	
	4-23	Fork carriage DIN 15173. Class, A/B	ISO2328 2A			
	4-24	Fork carriage width (2)	b3 (mm)	951	950	
	4-25	Width over forks	bs (mm)	200 / 890		
	4-31	Ground clearance, laden, below mast	m1 (mm)	89	88	
	4-32	Ground clearance at centre of wheelbase	m2 (mm)	96	95	
	4-34-1	Aisle width with pallets 1000mm long x 1200mm wide	Ast (mm)	3290	3445	
	4-34-2	Aisle width with pallets 800mm wide x 1200mm long	Ast (mm)	3415	3410	
	4-35	Outer turning radius	Wa (mm)	1601	1716	
	PERFORMANCE	5-1	Travel speed laden/unladen	km/h	14 / 16	
5-2		Lifting speed laden/unladen	m/s	352 / 500	349 / 500	310 / 500
5-3		Lowering speed laden/unladen	m/s	411 / 485	425 / 485	
5-5		Drawbar pull laden/unladen, 60 minute rating	N	NA		
5-6		Maximum drawbar pull laden/unladen, 5 minute rating	N	15500 / 10000	15000 / 10500	15500 / 12000
5-6-1		Maximum drawbar pull laden/unladen, 3 minute rating	NA			
5-7		Gradeability with/without load, 30 minute rating	NA			
5-8		Maximum Gradeability with/without load, 5 minute rating	20 / 30			
5-8-1		Maximum drawbar pull laden/unladen, 3 minute rating	NA			
5-9		Acceleration time with/without load 10m	sec	4.46 / 4.35	5.98 / 5.63	
5-9-1	Acceleration time with/without load 15m		5.79 / 5.51	6.95 / 6.79		
5-10	Service brake	Hydraulic				
ELECTRIC	6-1	Drive Motor Rating, S2, 60min	kW	2 x 5		
	6-2	Lifting motor, S3 15% rating	kW	11		
	6-2-1	Steering motor	NA			
	6-3	Battery DIN 43531 / 35 / 36 A, B, C, no	No	43531A		
	6-4-1	Battery voltage / capacity (5hr rate) Lead acid	(V)/(Ah)	48 / 500	48 / 640	
	6-4-2	Battery voltage / capacity (5hr rate) Li-ion	(V)/(Ah)	51.2V / 250-375-500Ah		
	6-5	Battery weight (min/max)	kg	945	1088	
	6-5-1	Battery dimensions	l/w/h (mm)	830 / 630 / 627	830 / 738 / 627	
6-5-2	Battery compartment dimensions	l/w/h (mm)	843 / 634 / 645	843 / 752 / 645		
6-6	Power consumption in accordance with VDI cycle	kWh/h	5.19	5.30	5.7	
OTHER	7-6	Turn over	t/h	102 t/h	105 t/h	108 t/h
	8-1	Drive control	AC			
	8-2	Manufacturer	ZAPI			
	10-1	Operating pressure for attachments (5)	bar	145	175	
	10-2	Oil volume for attachments	l/min.	38		
	10-7	Average noise level at operator's ear (6)	dB(A)	64.8	69.6	
	10-8	Towing coupling, type DIN	Ø32			
	10-3	Hydraulic Tank - capacity (drain & refill)	l	32		
10-6	Number of steering rotation	4				
10-6-1	Steering force	N	10			

- (1) Bottom of forks
 (2) Without load backrest
 (3) h_s subject to +/- 5mm tolerance

- (4) Full suspension specified
 (5) Variable
 (6) LPAZ, measured according to the test cycles and based on the weighting values contained in EN12053

MAST DIMENSIONS - UXT SERIES

Max. lift height (mm)	Overall Extended Height Mast				Free Lift		Load Distance (mm)	Mast Tilt		Loading		
	Lowered height (mm)	Lift Height (mm)		Without LBR (mm)	With LBR (mm)	F (°)		B (°)	Load centre (500mm)			
		Without LBR (mm)	With LBR (mm)						Single Tyre (kg)			
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(°)	(°)	16UXT	18UXT	20UXT	
2-Stage Limited Free-Lift (LFL) Mast												
3300	2125	3790	4310	0	0	376	6.5	6.5	1600	1800	2000	
3700	2325	4190	4710	0	0	376	6.5	6.5	1600	1800	2000	
4000	2525	4490	5010	0	0	376	3.5	5	1600	1800	2000	
4500	2775	4990	5510	0	0	376	3.5	5	1400	1600	1800	
5000	3025	5490	6010	0	0	376	3.5	5	1250	1450	1500	
5500	3325	5990	6510	0	0	376	3.5	5	1150	1200	1300	
6000	3575	6490	7010	0	0	376	3.5	5	1050	1100	1200	
2-Stage Full Free-Lift (FFL) Mast												
3300	2125	3790	4310	1660	1140	376	3.5	6.5	1600	1800	2000	
3700	2325	4190	4710	1860	1340	376	3.5	6.5	1600	1800	2000	
3-Stage Full Free-Lift (FFL) Mast												
4350	1975	4840	5360	1510	990	376	3.5	5	1500	1700	1900	
4800	2125	5290	5810	4660	1140	376	3.5	5	1300	1500	1650	
5000	2225	5490	6010	1760	1240	376	3.5	5	1250	1450	1500	
5500	2390	5990	6510	1925	1405	376	3.5	5	1150	1200	1300	
6000	2575	6490	7010	2110	1590	376	3.5	5	1050	1100	1200	

All values are nominal values and they are subject to tolerances.

LI-ION BATTERY DATA	48 Volt ERP16-20UXT(L)		
Battery Type	51.2V250AH	51.2V375AH	51.2V500AH
Dimension (L x W x H, mm) (w/o CWT)	754 X 470 X 610		
Weight (Kg) (w/o CWT)	276		
Battery Colour	HYG HCE-51 Black		
Nominal Voltage (V)	51.2		
Maximum Voltage (V)	57.9		
Minimum Voltage (V)	40.8		
Nominal Capacity (Ah)	250	375	500
Usable Capacity (Ah)	225	356	475
Energy (Kwh)	12.8	19.2	25.6
Nominal Discharge Current (A)	220	300	
Maximum Discharge Current -5s (A)	400	500	
Nominal Charge Current (A)	100	150	200
Maximum Charge Current -5s (A)	200	300	400
Operating Temperature	-10°— 45°	-25°— 45°	
Charging Temperature (C)	0°— 45°		
Power Connector	DIN 160A		
Power Connector Position	Floating on top		
Charge Connector	DIN 160A		
Charge Connector Position	Fixed lateral side or on top		
Antiarc Type	n/a		
CANBUS Protocol	HYG		
CANBUS Speed	125Kbps for CH & TR		
Chemistry	LFP		

LI-ION CACTI CHARGER DATA	48 Volt ERP16-20UXT(L)		
For Corresponding Li-ion Battery Type	51.2V250AH	51.2V375AH	51.2V500AH
CACTi Charger description	HWCD18-48V		
Charger type	Three Phase Lithium Ion LFP CACTi charger with 160A connector		
Charger type	48V 100A (4.8kW)	48V 150A (7.2kW)	48V 150A (7.2kW)
Charge time	250AH: Single - 2.5hr, Dual - 1.5hr	375AH: Single - 2.5hr, Dual - 1.5hr	500AH: Single - 3.2hr, Dual - 1.9hr
Output Voltage Range	18-60VDC		
Current Limit Adjustable Range	2A-100A	2A-150A	2A-150A
AC Input Voltage Range	320-475VAC		
AC Input Frequency	45H-65Hz		
AC Power Factor (PF)	≥0.99		
AC Current distribution (THD)	≤5%		
Peak-to-peak Noise (DC Output)	≤1%		
Stabilization Accuracy (DC Output)	≤±0.5%		
Steady Flow Accuracy (DC Output)	≤±0.5%		
Current Sharing (DC Output)	≤±5%		
Effectiveness (DC Output)	Output 18-60Vdc, Load ≥50% Nominal, the overall efficiency ≥93% Output 70-100Vdc, Load ≥50% Nominal, the overall efficiency ≥94%		
Protection (DC Output)	Short circuit, over current, over voltage, reverse connection, current backflow protection		
Working Temperature (C)	-30°-55° normal operation; 57°-75° derating output; 75° or more shutdown protection		
Storage Temperature (C)	-40°-75°		
Relative Humidity	0-95%		
Altitude	≤2000m full load, 2000-3000m in accordance with GB/T3859.2-1993 5.11.2 predetermined, derating		
Output plug-in Specifications	Comply with GB/T 20234-2015.3		
Cooling Method	Forced air cooling		
Dimension (L x W x H, mm)	558 x 330 x 617		
Weight (Kg)	54		
Protection Level	IP23		

FEATURES LIST					
PERFORMANCE	STD	OPT	VISIBILITY	STD	OPT
48 volt electrical system REMA 160A Connector for ERP16-20UTX(L)	•		Audible Reverse Alarm		•
Standard Construction	•		Amber Strobe Light - Ignition Activated	•	
Vertical Battery Removal -without rollers Lift Out	•		Parking Alarm	•	
Without Battery on Lead Acid models	•		Less lights	•	
Without Charger on Lead Acid models	•		LED Work Lights Two Front LED Work Lights with Stop, Tail, Indicator, and Reverse Lights		•
Li-ion Integrated Battery on L models	•		LED Two Front / One Rear Work Light Package with Brake / Tail / Back-Up Lights with Turn Signals		•
48V 250Ah (12.8kWh) Integrated Li-ion battery		•	Blue spot lights		•
48V 375Ah (19.2kWh) Integrated Li-ion battery		•			
48V 500Ah (25.6kWh) Integrated Li-ion battery		•			
Li-ion Charger on L models	•				
48V 100A (4.8kW) Three Phase Lithium Ion LFP CACTi charger with 160A connector		•			
48V 150A (7.2kW) Three Phase Lithium Ion LFP CACTi charger with 160A connector		•			
Less Li-ion Charger		•			
DRIVE	STD	OPT	ERGONOMICS	STD	OPT
Integrated Directional Switch	•		Overhead Guard - 2010mm or new 2056mm	•	
MONOTROL® Directional Control Pedal		•	Dual Mirrors Side View	•	
Tyres - Super Elastic	•		Panoramic mirror		•
Tyres - Super Elastic - Non-Marking		•	Dual USB Ports	•	
Rear Wheel Angle Indicator	•		12V Outlet - automotive style socket under the dash	•	
Power Steering and Tilt Adjustable Steering column	•		Rear Drive Handle with Horn Button		•
Steering Wheel with Spinner Knob	•		Full Suspension Vinyl Seat	•	
			Full Suspension Cloth Seat		•
			Black Seat Belt - Black - With Traction Interlock	•	
			Standard Seat Belt		•
			Black Seat Belt - Black - With sequential Interlock		•
LIFT	STD	OPT	OPERATION	STD	OPT
2 Stage Limited Free Lift Mast 3300mm	•		Key Switch Start	•	
Available with range of 2 Stage Limited Free Lift and 2 or 3 Stage Full Free Lift Masts		•	Traction Speed Limiter		•
6.5° Forward / 6.5° Back Mast Tilt	•		Operator Presence System (OPS)	•	
3.5° Forward / 5° Back Mast Tilt		•	Manual Park brake	•	
			SUPPLEMENTAL	STD	OPT
			12 Months / 2,000 Hours Manufacturer's Warranty	•	
			60 months / 7,500 hours Integrated Li-ion Battery Warranty	•	
			12 months Li-ion CACTi Charger warranty	•	
			Literature Package	•	
HANDLING	STD	OPT			
With Tilt Cylinder Boots	•				
970 mm wide class II ERP16-20UTX(L), hook-type standard carriage	•				
Hook Type Integral Sideshift Carriage		•			
930 mm high class II ERP16-20UTX(L) Load Backrest	•				
Hook Type Standard Taper Forks - 920mm x 100mm x 35mm	•				
Hook Type Standard Taper Forks - 1070mm x 100mm x 35mm		•			
Hook Type Standard Taper Forks - 1150mm x 100mm x 35mm		•			
Hook Type Standard Taper Forks - 1220 x 100mm x 35mm		•			
Hook Type Standard Taper Forks - 1070mm x 122mm x 40mm	•				
Hook Type Standard Taper Forks - 1150 x 122mm x 40mm		•			
Hook Type Standard Taper Forks - 1220 x 122mm x 40mm		•			
2 Function (0 Auxiliary) Hydraulic Valve	•				
3 Function (1 Auxiliary) Hydraulic Valve		•			
4 Function (2 Auxiliary) Hydraulic Valve		•			

All values are nominal values and they are subject to tolerances.



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Yale Materials Handling Corporation is one of the oldest manufacturers of lift trucks in the world. We've been in the business of lifting since 1875 and we apply that experience to help customers solve materials handling challenges. Our full line of lift trucks range in capacity from 1 to 16 tonne and are powered by internal combustion engines or electric options. Yale also offers robotic solutions, telemetry, fleet management, parts, financing and training. From traditional lift truck equipment to emerging technologies, our goal, every day, is to work with our nationwide dealer network to continually improve and provide the solutions you need, when and how you need them.

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Yale Lift Truck Technologies


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