

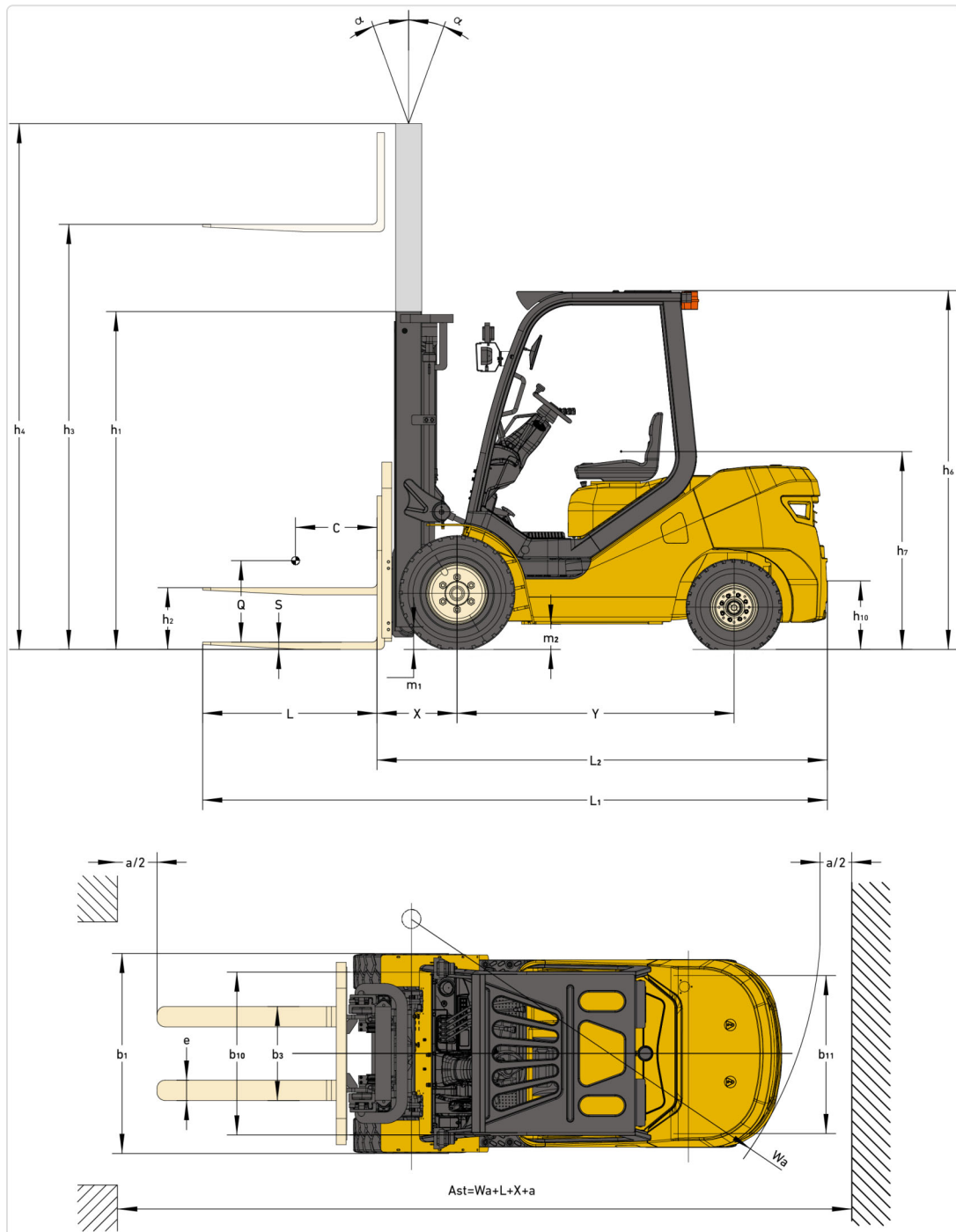


ERP2.0-
3.5MXLG
SERIES



INTEGRATED LITHIUM-ION
COUNTERBALANCE FORKLIFT
Technical Specifications

TRUCK DIAGRAM



TECHNICAL DATA

ERP2.0-3.0MXLG

Description	1.2	Model Designation		ERP2.0MXLG 115V	ERP2.0MXLG 154V	ERP2.5MXLG 115V	ERP2.5MXLG 154V
Distinguishing Mark	1.1	Manufacturer		Yale	Yale	Yale	Yale
	1.3	Drive		Electric	Electric	Electric	Electric
	1.4	Operator Type		Seated	Seated	Seated	Seated
	1.5	Rated Capacity/Rated Load	Q (kg)	2000	2000	2500	2500
	1.6	Load Centre Distance	c (mm)	500	500	500	500
	1.8	Load Distance, Centre Of Drive Axle To Fork	x (mm)	476	476	476	476
	1.9	Wheelbase (With Mast Vertical)	y (mm)	1600	1600	1600	1600
Weight	2.1	Service Weight	kg	3554	3671	3814	3931
	2.2	Axle Loading, Laden Front/Rear	kg	4899/655	5003/668	5569/745	5673/758
	2.3	Axle Loading, Unladen Front/Rear	kg	1370/2184	1410/2261	1485/2329	1530/2401
Tyres & Chassis	3.1	Tyres Front/Rear		pneumatic	pneumatic	pneumatic	pneumatic
	3.2	Tyre Size, Front		7.00-12-12PR	7.00-12-12PR	7.00-12-12PR	7.00-12-12PR
	3.3	Tyre Size, Rear		6.00-9-10PR	6.00-9-10PR	6.00-9-10PR	6.00-9-10PR
	3.5	Wheels, Number Front/Rear		2-Feb	2-Feb	2-Feb	2-Feb
	3.6	Tread, Front	b10 (mm)	970	970	970	970
	3.7	Tread, Rear	b11 (mm)	980	980	980	980
Dimensions	4.1	Tilt Of Mast/Fork Carriage, Forward/Backward	$\alpha / \beta (^{\circ})$	12-Jun	12-Jun	12-Jun	12-Jun
	4.2	Height, Mast Lowered	h1 (mm)	2010	2010	2010	2010
	4.3	Free Lift	h2 (mm)	160	160	160	160
	4.4	Lift	h3 (mm)	3000	3000	3000	3000
	4.5	Height, Mast Extended (1)	h4 (mm)	3990	3990	3990	3990
	4.7	Height Of Overhead Guard (Cabin) (2)	h6 (mm)	2180	2180	2180	2180
	4.8	Seat Height/Stand Height (3)	h7 (mm)	1190	1190	1190	1190
	4.12	Towing Coupling Height	h10 (mm)	250	250	250	250
	4.19	Overall Length	l1 (mm)	3630	3630	3692	3692
	4.2	Length To Face Of Forks	l2 (mm)	2560	2560	2622	2622
	4.21	Overall Width	b1 (mm)	1160/1590	1160/1590	1160/1590	1160/1590
	4.22	Fork Dimensions ISO 2331	s/e/l (mm)	40/122/1070	40/122/1070	40/122/1070	40/122/1070
	4.23	Fork Carriage ISO 2328, Class/Type A/B		IIA	IIA	IIA	IIA
	4.24	Fork Carriage Width (4)	b3 (mm)	1040	1040	1040	1040
	4.31	Ground Clearance, Laden, Below Mast	m1 (mm)	125	125	125	125
	4.32	Ground Clearance, Centre Of Wheelbase	m2 (mm)	130	130	130	130
4.33	Load Dimension B12 x L6 Crossways	b 12 x l 6 (mm)		1000*1000	1000*1000	1000*1000	1000*1000
4.34	Aisle Width With Predetermined Load Dimensions	Ast (mm)		4295	4295	4295	4295
4.34.1	Aisle Width With Pallets 1000mm x 1200mm Crossways	Ast (mm)		3972	3972	4023	4023
4.34.2	Aisle Width With Pallets 800mm x 1200mm Lengthways	Ast (mm)		4172	4172	4223	4223
4.35	Turning Radius	Wa (mm)		2296	2296	2347	2347

Description	1.2	Model Designation	ERP2.0MXLG 115V	ERP2.0MXLG 154V	ERP2.5MXLG 115V	ERP2.5MXLG 154V
Performance Data	4.36	Inner Turning Radius	745	745	745	745
	5.1	Travel Speed, Laden/Unladen	15/15	19/19	15/15	19/19
	5.1.1	Travel Speed, Laden/Unladen, Backwards	12-Dec	16/16	12-Dec	16/16
	5.2	Lifting Speed, Laden/Unladen	400/430	510/540	400/430	510/540
	5.3	Lowering Speed, Laden/Unladen	420/500	420/500	420/500	420/500
	5.5	Drawbar Pull, Laden/Unladen	16000/13000	19000/15000	17000/15000	23000/16000
	5.8	Maximum Gradeability, Laden/Unladen	15/15	20/20	15/15	20/20
	5.9	Acceleration Time, Laden/Unladen 15m	5.6/5.5	5.6/5.5	5.6/5.5	5.6/5.5
Electric Engine	5.1	Service Brake	Hydraulic	Hydraulic	Hydraulic	Hydraulic
	6.1	Drive Motor Rating S2 60 Min	Kw 15	21.6	15	21.6
	6.2	Lift Motor Rating At S3 15 %	Kw 15	22.6	15	22.6
	6.3	Battery According To DIN 43531/35/36 A, B, C, No	no	no	no	no
	6.4	Battery Voltage/Nominal Capacity K5	(V)/(Ah) 115.9V/228Ah	154.5V/228Ah	115.9V/228Ah	154.5V/228Ah
	6.5	Battery Weight	kg 274	356	274	356
	6.6	Energy Consumption According To VDI Cycle	kWh/h 4.79	5.7	5.15	6.2
	6.7	Turnover Output	t/h 136.3	163.6	146.4	174.7
	6.8	Energy Consumption At Turnover Output	kWh in 1 h 5.86	5.9	6.33	6.3
Additionalat Data	8.1	Type Of Drive Unit	PM AC	PM AC	PM AC	PM AC
	10.1	Operating Pressure For Attachments	bar 140	140	140	140
	10.2	Oil Volume For Attachments (5)	l/min 64	64	64	64
	10.7	Sound Pressure Level At The Driver's Seat	dB (A) 66	66	66	66
	10.7.1	Sound Power Level During The Work Cycle (6)	dB (A) 82	81	82	81
	10.8	Towing Coupling, Type DIN	PIN	PIN	PIN	PIN

Specifications - ERP3.0-3.5MXLG

Description	1.2	Model Designation	ERP3.0MXLG 115V	ERP3.0MXLG 154V	ERP3.5MXTLG 115V	ERP3.5MXTLG 154V
Distinguishing Mark	1.1	Manufacturer	Yale	Yale	Yale	Yale
	1.3	Drive	Electric	Electric	Electric	Electric
	1.4	Operator Type	Seated	Seated	Seated	Seated
	1.5	Rated Capacity/Rated Load	Q (kg) 3000	3000	3500	3500
	1.6	Load Centre Distance	c (mm) 500	500	500	500
	1.8	Load Distance, Centre Of Drive Axle To Fork	x (mm) 491	491	510	510
Weight	1.9	Wheelbase (With Mast Vertical)	y (mm) 1700	1700	1700	1700
	2.1	Service Weight	kg 4314	4356	4714	4756
	2.2	Axle Loading, Laden Front/Rear	kg 6450/864	6488/868	7244/970	7283/973
	2.3	Axle Loading, Unladen Front/Rear	kg 1726/2588	1742/2614	1861/2853	1878/2862
	3.1	Tyres Front/Rear	pneumatic	pneumatic	pneumatic	pneumatic
Tyres & Chassis	3.2	Tyre Size, Front	28×9-15-14PR	28×9-15-14PR	28×9-15-14PR	28×9-15-14PR
	3.3	Tyre Size, Rear	6.50-10-10PR	6.50-10-10PR	6.50-10-10PR	6.50-10-10PR
	3.5	Wheels, Number Front/Rear	2/2	2/2	2/2	2/2

Description	1.2	Model Designation	ERP3.0MXLG 115V	ERP3.0MXLG 154V	ERP3.5MXTLG 115V	ERP3.5MXTLG 154V
	3.6	Tread, Front	b10 (mm)	1000	1000	1000
	3.7	Tread, Rear	b11 (mm)	970	970	970
Dimensions	4.1	Tilt Of Mast/Fork Carriage, Forward/Backward	$\alpha / \beta (^{\circ})$	6/12	6/12	6/12
	4.2	Height, Mast Lowered	h1 (mm)	2150	2150	2150
	4.3	Free Lift	h2 (mm)	165	170	170
	4.4	Lift	h3 (mm)	3000	3000	3000
	4.5	Height, Mast Extended (1)	h4 (mm)	4100	4100	4100
	4.7	Height Of Overhead Guard (Cabin) (2)	h6 (mm)	2205	2205	2205
	4.8	Seat Height/Stand Height (3)	h7 (mm)	1215	1215	1215
	4.12	Towing Coupling Height	h10 (mm)	260	260	260
	4.19	Overall Length	l1 (mm)	3763	3853	3853
	4.20	Length To Face Of Forks	l2 (mm)	2693	2783	2783
	4.21	Overall Width	b1 (mm)	1228/1730	1228/1730	1228/1730
	4.22	Fork Dimensions ISO 2331	s/e/l (mm)	45/122/1070	50/122/1070	50/122/1070
	4.23	Fork Carriage ISO 2328, Class/Type A/B	IIIA	IIIA	IIIA	IIIA
	4.24	Fork Carriage Width (4)	b3 (mm)	1100	1100	1100
	4.31	Ground Clearance, Laden, Below Mast	m1 (mm)	140	140	140
	4.32	Ground Clearance, Centre Of Wheelbase	m2 (mm)	155	155	155
	4.33	Load Dimension B12 x L6 Crossways	b 12 x l 6 (mm)	1000*1000	1000*1000	1000*1000
	4.34	Aisle Width With Predetermined Load Dimensions	Ast (mm)	4295	4295	4295
	4.34.1	Aisle Width With Pallets 1000mm x 1200mm Crossways	Ast (mm)	4136	4225	4225
	4.34.2	Aisle Width With Pallets 800mm x 1200mm Lengthways	Ast (mm)	4336	4425	4425
	4.35	Turning Radius	Wa (mm)	2445	2515	2515
	4.36	Inner Turning Radius	b13 (mm)	823	823	823
Performance Data	5.1	Travel Speed, Laden/Unladen	km/h	19/19	15/15	19/19
	5.1.1	Travel Speed, Laden/Unladen, Backwards	km/h	16/16	12/12	16/16
	5.2	Lifting Speed, Laden/Unladen	mm/s	350/380	350/380	430/500
	5.3	Lowering Speed, Laden/Unladen	mm/s	420/500	420/500	420/500
	5.5	Drawbar Pull, Laden/Unladen	N	19000/16000	19000/16000	27000/17000
	5.8	Maximum Gradeability, Laden/Unladen	%	20/20	15/15	20/20
	5.9	Acceleration Time, Laden/Unladen 15m	sec	5.6/5.5	5.6/5.5	5.6/5.5
Electric Engine	5.10	Service Brake	Hydraulic	Hydraulic	Hydraulic	Hydraulic
	6.1	Drive Motor Rating S2 60 Min	Kw	15	15	21.6
	6.2	Lift Motor Rating A1 S3 15 %	Kw	15	15	22.6
	6.3	Battery According To DIN 43531/35/36 A, B, C, No		no	no	no
	6.4	Battery Voltage/Nominal Capacity K5	(V)/(Ah)	115.9V/228Ah	115.9V/228Ah	154.5V/228Ah
	6.5	Battery Weight	kg	274	274	356
	6.6	Energy Consumption According To VDI Cycle	kWh/h	5.84	6.38	7.07

Description	1.2	Model Designation		ERP3.0MXLG 115V	ERP3.0MXLG 154V	ERP3.5MXTLG 115V	ERP3.5MXTLG 154V
	6.7	Turnover Output	t/h	166.6	193.9	181.8	212.1
	6.8	Energy Consumption At Turnover Output	kWh in 1 h	7.17	6.6	7.84	7.21
	8.1	Type Of Drive Unit		PM AC	PM AC	PM AC	PM AC
Additional Data	10.1	Operating Pressure For Attachments	bar	140	140	140	140
	10.2	Oil Volume For Attachments (5)	l/min	64	64	64	64
	10.7	Sound Pressure Level At The Driver's Seat	dB (A)	66	66	66	66
	10.7.1	Sound Power Level During The Work Cycle (6)	dB (A)	82	81	82	81
	10.8	Towing Coupling, Type DIN		PIN	PIN	PIN	PIN

(1) Without load backrest. (2) HS subject to +/- 5mm tolerance. (3) Full suspension seat in depressed position. (4) Add 32mm with load backrest. (5) Variable. (6) LPAZ, measured according to the test cycles and based on the weighing 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 and 1070mm forks, overhead guard and standard pneumatic drive and steel tyres.

MAST DATA

ERP2.0MXLG MAST DIMENSIONS AND RATED CAPACITY @ 500mm LOAD CENTRE

Mast Type	Maximum Fork Height (mm)	Lowered Height (mm)	Extended Height with LBR (mm)	Extended Height without LBR (mm)	Free Lift Height without LBR	Back Tilt	Capacity with PSS tyres without sideshift (kg)	Capacity with PSS tyres with sideshift (kg)	Capacity with Pneumatic tyres without sideshift (kg)	Capacity with Pneumatic tyres with sideshift (kg)
2 STAGE LIMITED FREE LIFT (LFL) MAST	3000	2010	3575	3990	160	12	2000	1980	2000	1980
	3300	2160	3875	4290	160	12	2000	1970	2000	1970
	3500	2260	4075	4490	160	12	2000	1970	2000	1970
	3700	2360	4275	4690	160	6	2000	1960	2000	1960
	4000	2560	4575	4990	160	6	2000	1940	2000	1940
	4500	2810	5075	5490	160	6	1910	1850	1790	1750
	5000	3060	5575	5990	160	6	1810	1750	1350 (1810~)	1300 (1740~)
	5500	3360	6075	6490	60	6	1490 (1700~)	1450 (1640~)	1020 (1520~)	950 (1470~)
	6000	3610	6575	6990	160	6	1110 (1580~)	1070 (1520~)	740 (1180~)	670 (1130~)
	3000	2010	3590	3990	1420	12	2000	1940	2000	1940
3 STAGE FULL FREE LIFT (FFL) MAST	3300	2160	3890	4290	1570	12	2000	1940	2000	1940
	3500	2260	4090	4490	1670	12	2000	1930	2000	1930
	4350	2010	4867	5340	1390	6	1890	1820	1890	1820
	4500	2060	5017	5490	1440	6	1860	1790	1790	1770
	4800	2160	5317	5790	1540	6	1800	1730	1500 (1790~)	1460 (1730~)
	5000	2260	5517	5990	1640	6	1750	1680	1330 (1750~)	1280 (1690~)
	5500	2425	6017	6490	1800	6	1450 (1650~)	1410 (1590~)	940 (1490~)	880 (1450~)
	6000	2610	6517	6990	1990	6	1060 (1530~)	1000 (1480~)	650 (1140~)	580 (1090~)
	6500	2825	7017	7490	2215	6	760 (1410~)	700 (1360~)	410 (850~)	330 (800~)
	3000	2010	3590	3990	1420	12	2000	1940	2000	1940

ERP2.0MXLG MAST DIMENSIONS AND RATED CAPACITY @ 600mm LOAD CENTRE

Mast Type	Maximum Fork Height (mm)	Lowered Height (mm)	Extended Height with LBR (mm)	Extended Height without LBR (mm)	Free Lift Height without LBR	Back Tilt	Capacity with PSS tyres without sideshift (kg)	Capacity with PSS tyres with sideshift (kg)	Capacity with Pneumatic tyres without sideshift (kg)	Capacity with Pneumatic tyres with sideshift (kg)
2 STAGE LIMITED FREE LIFT (LFL) MAST	3000	2010	3575	3990	160	12	1860	1800	1860	1800
	3300	2160	3875	4290	160	12	1860	1790	1860	1790
	3500	2260	4075	4490	160	12	1850	1790	1850	1790
	3700	2360	4275	4690	160	6	1850	1780	1850	1780
	4000	2560	4575	4990	160	6	1830	1760	1830	1760
	4500	2810	5075	5490	160	6	1740	1680	1740	1680
	5000	3060	5575	5990	160	6	1640	1590	1380 (1640~)	1330 (1590~)
	5500	3360	6075	6490	60	6	1530 (1540~)	1480 (1490~)	1040 (1530~)	990 (1470~)
	6000	3610	6575	6990	160	6	1170 (1430~)	1120 (1380~)	760 (1220~)	700 (1170~)
	3000	2010	3590	3990	1420	12	1830	1770	1830	1770
2 STAGE FULL FREE LIFT (FFL) MAST	3300	2160	3890	4290	1570	12	1820	1760	1820	1760
	3500	2260	4090	4490	1670	12	1820	1750	1820	1750
	4350	2010	4867	5340	1390	6	1710	1650	1710	1650
	4500	2060	5017	5490	1440	6	1680	1620	1680	1620
	3000	2010	3590	3990	1420	12	1830	1770	1830	1770
	3300	2160	3890	4290	1570	12	1820	1760	1820	1760
	3500	2260	4090	4490	1670	12	1820	1750	1820	1750
	4350	2010	4867	5340	1390	6	1710	1650	1710	1650
	4500	2060	5017	5490	1440	6	1680	1620	1680	1620
	3000	2010	3590	3990	1420	12	1830	1770	1830	1770

Mast Type	Maximum Fork Height (mm)	Lowered Height (mm)	Extended Height with LBR (mm)	Extended Height without LBR (mm)	Free Lift Height without LBR	Back Tilt	Capacity with PSS tyres without sideshift (kg)	Capacity with PSS tyres with sideshift (kg)	Capacity with Pneumatic tyres without sideshift (kg)	Capacity with Pneumatic tyres with sideshift (kg)
	4800	2160	5317	5790	1540	6	1630	1570	1540	1500
	5000	2260	5517	5990	1640	6	1590	1530	1360 (1590~)	1320 (1530~)
	5500	2425	6017	6490	1800	6	1490	1440	970 (1490~)	910 (1430~)
	6000	2610	6517	6990	1990	6	1110 (1390~)	1050 (1340~)	670 (1180~)	600 (1130~)
	6500	2825	7017	7490	2215	6	790 (1280~)	730 (1230~)	430 (890~)	350 (830~)

ERP2.5MXLG MAST DIMENSIONS AND RATED CAPACITY @ 500mm LOAD CENTRE

Mast Type	Maximum Fork Height (mm)	Lowered Height (mm)	Extended Height with LBR (mm)	Extended Height without LBR (mm)	Free Lift Height without LBR	Back Tilt	Capacity with PSS tyres without sideshift (kg)	Capacity with PSS tyres with sideshift (kg)	Capacity with Pneumatic tyres without sideshift (kg)	Capacity with Pneumatic tyres with sideshift (kg)
2 STAGE LIMITED FREE LIFT (LFL) MAST	3000	2010	3575	3990	160	12	2500	2460	2500	2460
	3300	2160	3875	4290	160	12	2500	2450	2500	2450
	3500	2260	4075	4490	160	12	2500	2450	2500	2450
	3700	2360	4275	4690	160	6	2500	2440	2500	2440
	4000	2560	4575	4990	160	6	2500	2420	2500	2420
	4500	2810	5075	5490	160	6	2400	2320	2290 (2400~)	2260 (2320~)
	5000	3060	5575	5990	160	6	2170 (2290~)	2140 (2210~)	1740 (2270~)	1700 (2200~)
	5500	3360	6075	6490	160	6	1700 (2150~)	1660 (2080~)	1310 (1900~)	1260 (1870~)
	6000	3610	6575	6990	160	6	1260 (2010~)	1210 (1950~)	970 (1480~)	900 (1440~)
	3000	2010	3590	3990	1420	12	2500	2430	2500	2430
3 STAGE FULL FREE LIFT (FFL) MAST	3300	2160	3890	4290	1570	12	2500	2430	2500	2430
	3500	2260	4090	4490	1670	12	2500	2420	2500	2420
	4350	2010	4867	5340	1390	6	2050	1980	2050	1980
	4500	2060	5017	5490	1440	6	2020	1950	2020	1950
	4800	2160	5317	5790	1540	6	1960	1890	1900 (1960~)	1870 (1890~)
	5000	2260	5517	5990	1640	6	1910	1850	1690 (1910~)	1650 (1840~)
	5500	2425	6017	6490	1800	6	1610 (1820~)	1570 (1750~)	1220 (1800~)	1170 (1740~)
	6000	2610	6517	6990	1990	6	1160 (1700~)	1110 (1640~)	870 (1420~)	810 (1380~)
	6500	2825	7017	7490	2215	6	830 (1570~)	780 (1510~)	580 (1080~)	510 (1020~)

ERP 2.5MXLG MAST DIMENSIONS AND RATED CAPACITY @ 400mm LOAD CENTRE

Mast Type	Maximum Fork Height (mm)	Lowered Height (mm)	Extended Height with LBR (mm)	Extended Height without LBR (mm)	Free Lift Height without LBR	Back Tilt	Capacity with PSS tyres without sideshift (kg)	Capacity with PSS tyres with sideshift (kg)	Capacity with Pneumatic tyres without sideshift (kg)	Capacity with Pneumatic tyres with sideshift (kg)
2 STAGE LIMITED FREE LIFT (LFL) MAST	3000	2010	3575	3990	160	12	2300	2230	2300	2230
	3300	2160	3875	4290	160	12	2300	2230	2300	2230
	3500	2260	4075	4490	160	12	2290	2220	2290	2220
	3700	2360	4275	4690	160	6	2290	2220	2290	2220
	4000	2560	4575	4990	160	6	2270	2200	2270	2200
	4500	2810	5075	5490	160	6	2170	2110	2170	2110
	5000	3060	5575	5990	160	6	2060	2000	1780 (2060~)	1740 (2000~)
	5500	3360	6075	6490	160	6	1770 (1950~)	1720 (1890~)	1350 (1930~)	1310 (1870~)

Mast Type	Maximum Fork Height (mm)	Lowered Height (mm)	Extended Height with LBR (mm)	Extended Height without LBR (mm)	Free Lift Height without LBR	Back Tilt	Capacity with PSS tyres without sideshift (kg)	Capacity with PSS tyres with sideshift (kg)	Capacity with Pneumatic tyres without sideshift (kg)	Capacity with Pneumatic tyres with sideshift (kg)
2 STAGE FULL FREE LIFT (FFL) MAST	6000	3610	6575	6990	160	6	1320 (1830~)	1270 (1770~)	1000 (1540~)	940 (1500~)
	3000	2010	3590	3990	1420	12	2280	2210	2280	2210
	3300	2160	3890	4290	1570	12	2280	2200	2280	2200
	3500	2260	4090	4490	1670	12	2270	2200	2270	2200
3 STAGE FULL FREE LIFT (FFL) MAST	4350	2010	4867	5340	1390	6	1860	1800	1860	1800
	4500	2060	5017	5490	1440	6	1830	1770	1830	1770
	4800	2160	5317	5790	1540	6	1780	1720	1780	1720
	5000	2260	5517	5990	1640	6	1740	1680	1730	1670
	5500	2425	6017	6490	1800	6	1640	1580	1270 (1640~)	1220 (1580~)
	6000	2610	6517	6990	1990	6	1230 (1540~)	1180 (1490~)	910 (1480~)	850 (1430~)
	6500	2825	7017	7490	2215	6	870 (1430~)	810 (1380~)	610 (1120~)	540 (1070~)

ERP3.0MXLG MAST DIMENSIONS AND RATED CAPACITY @ 500mm LOAD CENTRE

Mast Type	Maximum Fork Height (mm)	Lowered Height (mm)	Extended Height with LBR (mm)	Extended Height without LBR (mm)	Free Lift Height without LBR	Back Tilt	Capacity with PSS tyres without sideshift (kg)	Capacity with PSS tyres with sideshift (kg)	Capacity with Pneumatic tyres without sideshift (kg)	Capacity with Pneumatic tyres with sideshift (kg)
2 STAGE LIMITED FREE LIFT (LFL) MAST	Maximum Fork Height (mm)	Lowered Height (mm)	Extended Height with LBR (mm)	Extended Height without LBR (mm)	Free Lift Height without LBR	Back Tilt	Pneumatic Shaped Solid tyres Without sideshift (kg)	Pneumatic Shaped Solid tyres With sideshift (kg)	Pneumatic Tyres Without sideshift (kg)	Pneumatic Tyres With sideshift (kg)
	3000	2075	3640	4100	165	12	3000	2950	3000	2950
	3300	2225	3940	4400	165	12	3000	2950	3000	2950
	3500	2325	4140	4600	165	12	3000	2950	3000	2950
	3700	2425	4340	4800	165	6	3000	2940	3000	2940
	4000	2625	4640	5100	165	6	3000	2920	3000	2920
	4500	2875	5140	5600	165	6	2860	2770	2860	2770
	5000	3125	5640	6100	165	6	2680	2650	2520 (2730~)	2500 (2650~)
	5500	3425	6140	6600	165	6	1930 (2630~)	1890 (2550~)	1800 (2620~)	1770 (2530~)
	6000	3675	6640	7100	165	6	1330 (2480~)	1290 (2400~)	1270 (2190~)	1210 (2160~)
	3000	2075	3650	4100	1425	12	3000	2920	3000	2920
	3300	2225	3950	4400	1575	12	3000	2910	3000	2910
	3500	2325	4150	4600	1675	12	3000	2910	3000	2910
	4350	2075	4950	5450	1475	6	2790	2700	2790	2700
3 STAGE FULL FREE LIFT (FFL) MAST	4500	2125	5100	5600	1525	6	2750	2670	2750	2670
	4800	2225	5400	5900	1625	6	2670	2600	2560 (2680~)	2510 (2600~)
	5000	2325	5600	6100	1725	6	2420 (2630~)	2400 (2550~)	2290 (2630~)	2260 (2550~)
	5500	2490	6100	6600	1880	6	1840 (2510~)	1810 (2430~)	1750 (2490~)	1710 (2420~)
	6000	2675	6600	7100	2075	6	1370 (2630~)	1330 (2290~)	1310 (2070~)	1260 (2030~)
	6500	2890	7100	7600	2260	6	1000 (2010~)	940 (1990~)	960 (1660~)	900 (1620~)

ERP3.0MXLG MAST DIMENSIONS AND RATED CAPACITY @ 600mm LOAD CENTRE

Mast Type	Maximum Fork Height (mm)	Lowered Height (mm)	Extended Height with LBR (mm)	Extended Height without LBR (mm)	Free Lift Height without LBR	Back Tilt	Capacity with PSS tyres without sideshift (kg)	Capacity with PSS tyres with sideshift (kg)	Capacity with Pneumatic tyres without sideshift (kg)	Capacity with Pneumatic tyres with sideshift (kg)
2 STAGE LIMITED FREE LIFT (LFL) MAST	3000	2075	3640	4100	165	12	2770	2690	2770	2690
	3300	2225	3940	4400	165	12	2770	2690	2770	2690
	3500	2325	4140	4600	165	12	2760	2680	2760	2680
	3700	2425	4340	4800	165	6	2760	2680	2760	2680
	4000	2625	4640	5100	165	6	2740	2660	2740	2660
	4500	2875	5140	5600	165	6	2600	2520	2600	2520
2 STAGE FULL FREE LIFT (FFL) MAST	5000	3125	5640	6100	165	6	2480	2410	2480	2400
	5500	3425	6140	6600	165	6	2010 (2390~)	1970 (2320~)	1870 (2380~)	1840 (2300~)
	6000	3675	6640	7100	165	6	1400 (2260~)	1360 (2190~)	1320 (2230~)	1270 (2170~)
	3000	2075	3650	4100	1425	12	2740	2660	2740	2660
	3300	2225	3950	4400	1575	12	2730	2650	2730	2650
	3500	2325	4150	4600	1675	12	2730	2650	2730	2650
3 STAGE FULL FREE LIFT (FFL) MAST	4350	2075	4950	5650	1475	6	2530	2460	2530	2460
	4500	2125	5100	5600	1525	6	2500	2430	2500	2430
	4800	2225	5400	5900	1625	6	2440	2370	2430	2360
	5000	2325	5600	6100	1725	6	2390	2320	2290 (2390~)	2270 (2320~)
	5500	2490	6100	6600	1880	6	1870 (2280~)	1830 (2210~)	1770 (2270~)	1720 (2200~)
	6000	2675	6600	7100	2075	6	1410 (2150~)	1360 (2080~)	1340 (2100~)	1290 (2060~)
3 STAGE FULL FREE LIFT (FFL) MAST	6500	2890	7100	7600	2260	6	1020 (2010~)	970 (1950~)	980 (1700~)	930 (1660~)

Mast Type	Maximum Fork Height (mm)	Lowered Height (mm)	Extended Height with LBR (mm)	Extended Height without LBR (mm)	Free Lift Height without LBR	Back Tilt	Capacity with PSS tyres without sideshift (kg)	Capacity with PSS tyres with sideshift (kg)	Capacity with Pneumatic tyres without sideshift (kg)	Capacity with Pneumatic tyres with sideshift (kg)
2 STAGE LIMITED FREE LIFT (LFL) MAST	3000	2150	3700	4100	170	12	3500	3420	3500	3420
	3300	2300	4000	4400	170	12	3500	3410	3500	3410
	3500	2400	4200	4600	170	12	3500	3410	3500	3410
	3700	2500	4400	4800	170	6	3500	3400	3500	3400
	4000	2700	4700	5100	170	6	3420	3320	3420	3320
	4500	2950	5200	5600	170	6	3300	3200	3120 (3300-)	3120 (3200-)
2 STAGE FULL FREE LIFT (FFL) MAST	5000	3200	5700	6100	170	6	2870 (3180-)	2860 (3080-)	2530 (3160-)	2520 (3070-)
	5500	3500	6200	6600	170	6	2340 (3020-)	2320 (2930-)	2050 (2860-)	2030 (2850-)
	6000	3750	6700	7100	170	6	1870 (2810-)	1850 (2780-)	1640 (2430-)	1610 (2420-)
	3000	2150	3680	4100	1470	12	3500	3410	3500	3410
	3300	2300	3980	4400	1620	12	3500	3410	3500	3410
	3500	2400	4180	4600	1720	12	3500	3400	3500	3400
3 STAGE FULL FREE LIFT (FFL) MAST	4350	2150	4990	5450	1510	6	3470	3390	3140 (3460-)	3130 (3370-)
	4500	2200	5140	5600	1560	6	3320	3310	2960 (3420-)	2940 (3340-)
	4800	2300	5440	5900	1660	6	2940 (3390-)	2930 (3310-)	2610 (3350-)	2600 (3260-)
	5000	2400	5640	6100	1760	6	2730 (3340-)	2710 (3250-)	2410 (3240-)	2390 (3210-)
	5500	2565	6140	6600	1915	6	2200 (3140-)	2190 (3110-)	1940 (2750-)	1920 (2740-)
	6000	2750	6640	7100	2110	6	1780 (2710-)	1750 (2690-)	1560 (2350-)	1530 (2330-)

Mast Type	Maximum Fork Height (mm)	Lowered Height (mm)	Extended Height with LBR (mm)	Extended Height without LBR (mm)	Free Lift Height without LBR	Back Tilt	Capacity with PSS tyres without sideshift (kg)	Capacity with PSS tyres with sideshift (kg)	Capacity with Pneumatic tyres without sideshift (kg)	Capacity with Pneumatic tyres with sideshift (kg)
	6500	2965	7140	7600	2290	6	1410 (2330~)	1380 (2300~)	1240 (2000~)	1200 (1970~)

ERP3.5MXLG MAST DIMENSIONS AND RATED CAPACITY @ 600mm LOAD CENTRE

Mast Type	Maximum Fork Height (mm)	Lowered Height (mm)	Extended Height with LBR (mm)	Extended Height without LBR (mm)	Free Lift Height without LBR	Back Tilt	Capacity with PSS tyres without sideshift (kg)	Capacity with PSS tyres with sideshift (kg)	Capacity with Pneumatic tyres without sideshift (kg)	Capacity with Pneumatic tyres with sideshift (kg)
2 STAGE LIMITED FREE LIFT (LFL) MAST	3000	2150	3700	4100	170	12	3210	3120	3210	3120
	3300	2300	4000	4400	170	12	3200	3110	3200	3110
	3500	2400	4200	4600	170	12	3190	3100	3190	3100
	3700	2500	4400	4800	170	6	3190	3100	3190	3100
	4000	2700	4700	5100	170	6	3120	3030	3110	3030
	4500	2950	5200	5600	170	6	3000	2920	3000	2910
	5000	3200	5700	6100	170	6	2880	2800	2600 (2880~)	2580 (2800~)
2 STAGE FULL FREE LIFT (FFL) MAST	5500	3500	6200	6600	170	6	2390 (2750~)	2380 (2670~)	2110 (2730~)	2080 (2660~)
	6000	3750	6700	7100	170	6	1940 (2610~)	1900 (2540~)	1700 (2510~)	1660 (2490~)
	3000	2150	3680	4100	1470	12	3200	3110	3200	3110
	3300	2300	3980	4400	1620	12	3190	3100	3190	3100
	3500	2400	4180	4600	1720	12	3190	3100	3190	3100
	4350	2150	4990	5450	1510	6	2940 (3090~)	2930 (3010~)	2630 (3080~)	2600 (3010~)
	4500	2200	5140	5600	1560	6	2730 (3030~)	2710 (2960~)	2430 (3030~)	2410 (2950~)
3 STAGE FULL FREE LIFT (FFL) MAST	4800	2300	5640	5900	1660	6	2230 (2900~)	2200 (2830~)	1970 (2790~)	1940 (2770~)
	5000	2400	5640	6100	1760	6	1810 (2750~)	1780 (2690~)	1580 (2390~)	1560 (2730~)
	5500	2565	6140	6600	1915	6	1430 (2380~)	1400 (2350~)	1260 (2040~)	1220 (2010~)
	6000	2750	6640	7100	2110	6	1780 (2710~)	1750 (2690~)	1560 (2350~)	1530 (2330~)
	6500	2965	7140	7600	2290	6	1410 (2330~)	1380 (2300~)	1240 (2000~)	1200 (1970~)

Cell with ~ = Dual tread specification

BATTERIES AND CHARGERS

Lithium-Ion Battery Specifications

Nominal Voltage	V	115.9V/228Ah (Yale)	154.5V/228Ah (Yale)
Chemistry		Lithium Iron Phosphate (LFP)	Lithium Iron Phosphate (LFP)
Nominal Energy Capacity	kWh	26.4	35.2
Charging Temperature	°C	0°C – 45°C	0°C – 45°C
Operating Temperature	°C	-10°C – 45°C *	-10°C – 45°C *
IP Rating		IP54	IP54
Charge Connector		DIN 160A	GB 250A Socket
Charge Connector Position		Side	Side

* Operating performance may be restricted below -10°C please consult the Operator Manual.

LI-ION CHARGER DATA

Description	Unit				
Part Number	-	HWCD18-115V60A	HWCD18-115V100A	HWCD18-153.6V100A	HWCD18-153.6V150A
Rated Output Voltage	V	115	115	154	154
Output Current	A	60	100	100	150
Typical Output Power	kW	8.3	13.8	18	20
20–80% Charge Time Estimate*	h	2h44m	1h22m	1h22m	54min
Output Connector		REMA160A	REMA160A	GB 125A	GB 200A
Protection**	-	->	->	->	->
Input Voltage	VAC	HF 320V-475V	HF 320V-475V	HF 320V-475V	HF 320V-475V
Input Current***	A	15.9	26.5	34.6	38.4
Typical Grid Power Required	KVA	10.9	18.2	23.7	26.3
Cable Length/Connector	ft (m)	10 (3) / Customer Provided Connector	10 (3) / Customer Provided Connector	10 (3) / Customer Provided Connector	10 (3) / Customer Provided Connector
Exterior Dimensions (L x W x H)	in (mm)	558 (L) ×330 (W) ×617 (H)	558 (L) ×330 (W) ×617 (H)	558 (L) ×330 (W) ×617 (H)	558 (L) ×330 (W) ×617 (H)
Weight	lb (kg)	47	47	47	47
Working Environment Temperature	°F (°C)	-22 to 158°F (-30 to 70°C)	-22 to 158°F (-30 to 70°C)	-22 to 158°F (-30 to 70°C)	-22 to 158°F (-30 to 70°C)
Storage Temperature	°F (°C)	-22 to 158°F (-30 to 70°C)	-22 to 158°F (-30 to 70°C)	-22 to 158°F (-30 to 70°C)	-22 to 158°F (-30 to 70°C)
Relative Humidity	%	0-95%	0-95%	0-95%	0-95%
Altitude	ft (m)	≤ 6562 (2000) full load 6562-9843 (2000-3000) derated	≤ 6562 (2000) full load 6562-9843 (2000-3000) derated	≤ 6562 (2000) full load 6562-9843 (2000-3000) derated	≤ 6562 (2000) full load 6562-9843 (2000-3000) derated
Ingress Protection Rating	-	IP54	IP54	IP54	IP54
3rd Party Rating	-	CE compliant	CE compliant	CE compliant	CE compliant
Warranty Term****	-	->	->	->	->

* Periodic full discharge and charge needed to balance cells and maintain battery warranty. See full warranty statement for complete details.

** Short circuit, overcurrent, overvoltage, reverse connection, current backflow protection, isolation.

*** Breaker typically 25% greater than input current, consult electrical professional for your situation.

****2 Year Warranty. Terms and Conditions Apply. See full warranty statement for complete details.

OPTIONS TABLE

Available Options - Latin America

Description	Standard	Option
PERFORMANCE	STD	OPT
115V Electrical System With Rema Connection	x	
154V Electrical System With GB Connection		x
Standard (-20°C To 40°C) Environmental Construction	x	
Drum Brakes	x	
Oil-Immersed Brakes		x
Antistatic Strap	x	
115.9V/228Ah (26.4 kWh) Integrated Li-Ion Battery	x	
Charger 115V-60A (323–475V Three-Phase Input) With REMA160A Connector	x	
Charger 115V-100A (323–475V Three-Phase Input) With REMA160A Connector		x
154.5V/228Ah (35.2 kWh) Integrated Li-Ion Battery		x
Charger 154V-100A (220V, 323–475V, 480V Three-Phase Input) With GB 125A Connector		x
Charger 154V-150A (220V, 323–475V, 480V Three-Phase Input) With GB 200A Connector		x
Battery Disconnect	x	
OPERATION	STD	OPT
Traction Speed Limiters	x	
Key Switch Start	x	
Manual Park Brake	x	
Automatic Park Brake		x
Telemetry Prepared	x	
Speed Reduction In Corners	x	
Yale Vision Wireless Monitoring	x	
Yale Vision Wireless Access		x
Yale Vision Wireless Verification		x
DRIVE	STD	OPT
Directional Lever	x	
Yale Foot Directional Control (FDC)		x
Integrated Directional Switch		x
Standard Tread Tyres	x	
Dual Tread Tyres		x
Tyres - Super Elastic		x
Tyres - Super Elastic - Non-Marking		x
Tyres - Pneumatic	x	
Steering Column Mounted Directional Control	x	
Steering Wheel With Spinner Knob	x	
Steer Column With Infinitely Adjustable Tilt	x	
On-Demand Power Steering	x	
On-Demand Hydrostatic Power Assist Steering With Synchronous Steering		x
LIFT	STD	OPT
2-Stage Limited Free Lift Mast – Class II/III	x	
2-Stage Full Free Lift (FFL) - Class II/III		x
3-Stage Full Free Lift Mast – Class II/III		x
6° Forward / 6° Back Mast Tilt		x
6° Forward / 12° Back Mast Tilt	x	
3° Forward / 6° Back Mast Tilt		x
Tilt Cylinder Boots	x	

Description	Standard	Option
HANDLING	STD	OPT
Hook Type Standard Carriage - 1038mm Class II		x
Hook Type Standard Carriage - 1100mm Class III	x	
Hook Type Standard Carriage - 1200mm Class II		x
Hook Type Integral Sideshift Carriage - 1040mm Class II		x
Hook Type Integral Sideshift Carriage - 1100mm Class III		x
Without Carriage		x
Hook Type Standard Taper Forks 45 x 122 x 1070mm	x	
Without Load Backrest		x
1080mm High Load Backrest Class III		x
940mm High Load Backrest Class II		x
Manual Lever Hydraulic Control	x	
Mini Lever Hydraulic Control		x
Clamping Function		x
2 Function (0 Auxiliary) Hydraulic Valve	x	
3 Function (1 Auxiliary) Hydraulic Valve		x
4 Function (2 Auxiliary) Hydraulic Valve		x
ERGONOMICS	STD	OPT
2180mm Overhead Guard ERP2.0-2.5MXLG	x	
2205mm Overhead Guard ERP3.0-3.5MXLG	x	
Non-Suspension Vinyl Seat	X	
Full Suspension Vinyl Seat (SC29) With Switch For OPS		X
Full Suspension Vinyl With Flip-Up Armrest (MSG65) – Premium		x
Standard Seat Belt With Interlock	x	
Cabin Options (Partial, PVC, Steel Doors)		x
Rear Drive Handle With Horn Button		x
Console Tray	x	
LCD Dash Display	x	
12V Supply With Twin USB Charging Sockets	x	
VISIBILITY	STD	OPT
LED Work Lights	x	
2 Front LED Work Lights With Stop, Tail, Indicator & Reverse Lights	x	
2 Front And 1 Rear LED Work Lights With Stop, Tail, Indicator & Reverse Lights		x
Audible Reverse Alarm		x
Amber Strobe Light - Ignition And Switch-Activated		x
Dual Side View Mirrors	x	
Rear Reflector	x	
Blue LED Pedestrian Awareness Spotlights		x
Red LED Pedestrian Awareness Perimeter Lines		x
Parking Alarm	x	
APPEARANCE	STD	OPT
Yale Gold Paint Base Truck	x	
SUPPLEMENTAL	STD	OPT
12 Month / 2,000 Hour Full Truck Warranty	x	
36 Month / 6,000 Hour Powertrain Warranty		x
5 Years / 3,000 Cycles Integrated Li-Ion Battery Warranty	x	

Description	Standard	Option
2 Years Li-Ion Charger Warranty	x	
Operating Manual	x	

COMPANY INFORMATION



Yale Lift Truck Technologies

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yale.com

SAFETY: Yale powered industrial trucks meet the design and construction requirements of local standards and regulations for the countries into which they are sold, including ANSI/ITSDF B56 (USA), Machinery Directive 2006/42/EC (EU), AS 2359 (Australia), and NR-11 (Brasil). Where permitted by local law, Yale products sold into countries outside of the EU or USA may be ordered in conformance with EU or USA requirements.

NOTICE: Care must be exercised when operating material handling equipment. Operators must be trained and must read, understand and follow the instructions contained in the operating manual. Products may be shown with optional equipment and/or features not available in all regions. Product performance may be affected by its condition, how it is equipped and the application. Specifications are subject to change without notice. Consult your Yale® Dealer if any of the information shown is critical to your application.

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