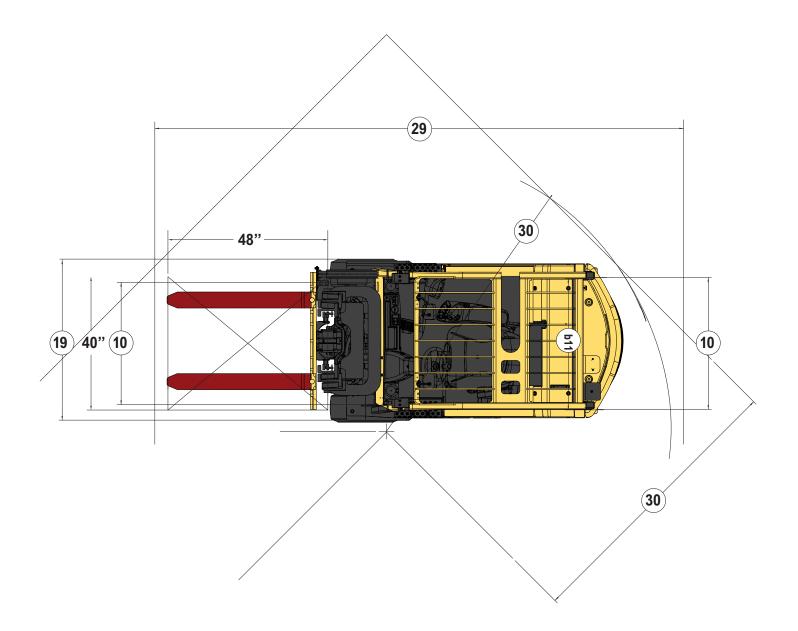


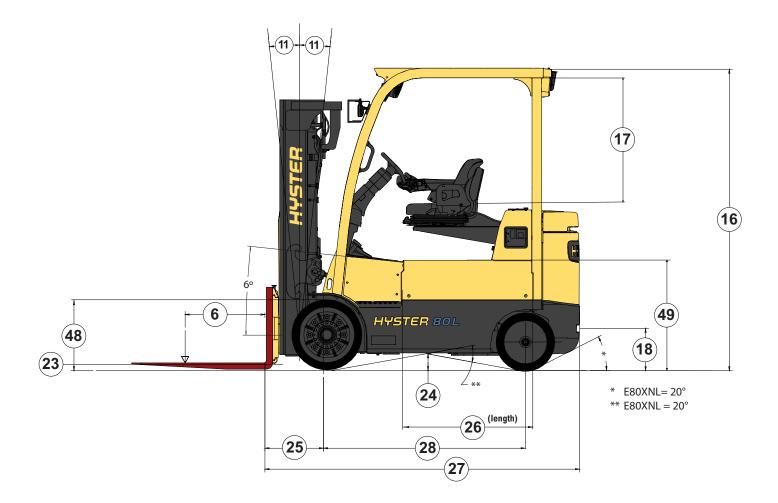
INTEGRATED LITHIUM-ION COUNTERBALANCED FORKLIFT PRODUCT TECHNICAL GUIDE



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Circled dimensions correspond to the line numbers on the tabulated chart inside the technical guide. Dimensions are in inches (millimeters).



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E80XNL SPECIFICATIONS

	1	Manufacturer				Hyster
	2	Model designation				E80XNL
RA	3	Power			Electric	
GENERAL	4	Operation				Sit
5	2 3 4 5	Rated capacity			lb (kg)	8000 (3629)
	6	Load center			in (mm)	24 (610)
	7	Tire type - cushion, soli	d, pneumatic, etc.	Drive/steer		Cushion/cushion
TIRES/ MHFFIS	8	Tire size		Drive/steer	in	22 x 9 x 16 / 18 x 7 x 12.1
쏦井	9	Wheels - number	X=driven	Drive/steer		2x/2
	10	Tread	Center of tires	Narr dr/wide dr/steer	in (mm)	37/41/38.3 (941/1041/972)
	11	Mast tilt		Std opt	degrees	5F/5B 8F/5B
	12	Mast - lowered height		Std mast	in (mm)	84.1 (2134)
	13	Free lift - top of fork	Std 2-stg limited free lift ma	st	in (mm)	5 (150)
			Opt 2-stg full free lift mast w	vith/without LBR	in (mm)	35/53 (900/1352)
	14	Lift height - top of fork	Std 2-stg limited free lift ma	st	in (mm)	120 (3050)
	15	Mast - extended height	Std mast with/without LBR		in (mm)	169/149 (4284/3783)
	16	Overhead guard height	Std/opt/opt flat plate		in (mm)	94/91/87.1 (2388/2311/2212)
	17	Sip to bottom std OHG		Susp/swivel/air-ride	in (mm)	39.0/38.9/38.5 (991/989/979)
NS	18	Tow pin height	Vertical center of pin		in (mm)	12.7 (324)
00	19	Overall width	Standard tread/wide tread		in (mm)	47.2/50 (1200/1270)
DIMENSIONS	19 20	Forks	Thickness x width x length		in (mm)	2 x 4.9 x 42 (50 x 125 x 1067)
N	21	Standard carriage width	1	Class III	in (mm)	42 (1067)
	23	Ground clearance	Lowest point	NL/RL	in (mm)	3.8/3.5 (96/90)
	24	Ground clearance	Center of truck	NL/RL	in (mm)	5.3/5.1 (134/130)
	25	Load distance	Center of wheel to face of fo		in (mm)	17.6 (447)
	27	Length to face of forks		Chassis length	in (mm)	100.3 (2548)
	28	Wheelbase			in (mm)	62 (1574)
	29	Right angle stack			in (mm)	154 (3911)
	30	Equal aisle	90° intersecting aisle		in (mm)	83 (2107)
	31	Outside turning radius	, i i i i i i i i i i i i i i i i i i i		in (mm)	88.2 (2240)
F	32	Truck weight	With/without battery	NL	lb (kg)	16420 (7448) / 15470 (7017)
古		Avia leading drive		NH (D)		
- E	33	Axle loading - drive	Static with max. wt. battery	NL/RL	lb (kg)	7120 (3230) / 20860 (9462)
WEIGHT	33 34	Axle loading - steer	Static with max. wt. battery Static with max. wt. battery	NL/RL NL/RL	lb (kg) lb (kg)	7120 (3230) / 20860 (9462) 9340 (4237) / 3300 (1497)
WEI		°				
WEI		°				9340 (4237) / 3300 (1497)
WEI		°			lb (kg)	9340 (4237) / 3300 (1497) STANDARD PERFORMANCE
WEI	34	Axle loading - steer	Static with max. wt. battery	NL/RL	lb (kg) VOLTS	9340 (4237) / 3300 (1497) STANDARD PERFORMANCE 80
WEI	34	Axle loading - steer	Static with max. wt. battery Extended shift off	NL/RL	lb (kg) VOLTS mph (km/h)	9340 (4237) / 3300 (1497) STANDARD PERFORMANCE 80 11.7/11.2 (18.8/18)
	34 36	Axle loading - steer Travel speed	Static with max. wt. battery Extended shift off Extended shift on	NL/RL NL/RL NL/RL	Ib (kg) VOLTS mph (km/h) mph (km/h)	9340 (4237) / 3300 (1497) STANDARD PERFORMANCE 80 11.7/11.2 (18.8/18) 10.9/10.8 (17.5/17.4)
	34 36	Axle loading - steer Travel speed	Static with max. wt. battery Extended shift off Extended shift on Std 2-stg LFL mast	NL/RL NL/RL NL/RL NL/RL NL/RL NL/RL	lb (kg) VOLTS mph (km/h) mph (km/h) ft/min (m/sec)	9340 (4237) / 3300 (1497) STANDARD PERFORMANCE 80 11.7/11.2 (18.8/18) 10.9/10.8 (17.5/17.4) 118/73 (0.6/0.37)
	34 36	Axle loading - steer Travel speed	Static with max. wt. battery Extended shift off Extended shift on Std 2-stg LFL mast Opt 2-stg FFL mast	NL/RL NL/RL NL/RL NL/RL NL/RL NL/RL NL/RL	b (kg) VOLTS mph (km/h) mph (km/h) ft/min (m/sec) ft/min (m/sec)	9340 (4237) / 3300 (1497) STANDARD PERFORMANCE 80 11.7/11.2 (18.8/18) 10.9/10.8 (17.5/17.4) 118/73 (0.6/0.37) 107/66 (0.542/0.334)
	34 36 37	Axle loading - steer Travel speed Lift speed	Static with max. wt. battery Extended shift off Extended shift on Std 2-stg LFL mast Opt 2-stg FFL mast Opt 3-stg FFL mast	NL/RL	Ib (kg) VOLTS mph (km/h) mph (km/h) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec)	9340 (4237) / 3300 (1497) STANDARD PERFORMANCE 80 11.7/11.2 (18.8/18) 10.9/10.8 (17.5/17.4) 118/73 (0.6/0.37) 107/66 (0.542/0.334) 110/68 (0.56/0.345)
	34 36 37 38 38	Axle loading - steer Travel speed Lift speed Lower speed	Static with max. wt. battery Extended shift off Extended shift on Std 2-stg LFL mast Opt 2-stg FFL mast Opt 3-stg FFL mast Opt 2-stg FFL mast Opt 3-stg FFL mast	NL/RL	Ib (kg) VOLTS mph (km/h) mph (km/h) ft/min (m/sec)	9340 (4237) / 3300 (1497) STANDARD PERFORMANCE 80 11.7/11.2 (18.8/18) 10.9/10.8 (17.5/17.4) 118/73 (0.6/0.37) 107/66 (0.542/0.334) 110/68 (0.56/0.345) 94/104 (0.48/0.53) 75/91 (0.38/0.46) 77/98 (0.39/0.5)
PERFORMANCE	34 36 37	Axle loading - steer Travel speed Lift speed	Static with max. wt. battery Extended shift off Extended shift on Std 2-stg LFL mast Opt 2-stg FFL mast Opt 3-stg FFL mast Opt 2-stg LFL mast Opt 3-stg FFL mast Opt 3-stg FFL mast 5 minute rating	NL/RL NL/RL NL/RL NL/RL NL/RL NL/RL NL/RL NL/RL NL/RL NL/RL	Ib (kg) VOLTS mph (km/h) mph (km/h) ft/min (m/sec)	9340 (4237) / 3300 (1497) STANDARD PERFORMANCE 80 11.7/11.2 (18.8/18) 10.9/10.8 (17.5/17.4) 118/73 (0.6/0.37) 107/66 (0.542/0.334) 110/68 (0.56/0.345) 94/104 (0.48/0.53) 75/91 (0.38/0.46) 77/98 (0.39/0.5) 30.1/18.3
	34 36 37 37 38 38 39	Axle loading - steer Travel speed Lift speed Lower speed Gradeability	Static with max. wt. battery Extended shift off Extended shift on Std 2-stg LFL mast Opt 2-stg FFL mast Opt 3-stg FFL mast Opt 3-stg FFL mast Opt 3-stg FFL mast Opt 3-stg FFL mast S minute rating 60 minute rating	NL/RL	Ib (kg) VOLTS mph (km/h) mph (km/h) ft/min (m/sec)	9340 (4237) / 3300 (1497) STANDARD PERFORMANCE 80 11.7/11.2 (18.8/18) 10.9/10.8 (17.5/17.4) 118/73 (0.6/0.37) 107/66 (0.542/0.334) 110/68 (0.56/0.345) 94/104 (0.48/0.53) 75/91 (0.38/0.46) 77/98 (0.39/0.5) 30.1/18.3 10.9/7
	34 36 37 38 38	Axle loading - steer Travel speed Lift speed Lower speed	Static with max. wt. battery Extended shift off Extended shift on Std 2-stg LFL mast Opt 2-stg FFL mast Opt 3-stg FFL mast Opt 3-stg FFL mast Opt 3-stg FFL mast Opt 3-stg FFL mast S minute rating 60 minute rating 5 minute rating	NL/RL	Ib (kg) VOLTS mph (km/h) mph (km/h) ft/min (m/sec) % % LBF	9340 (4237) / 3300 (1497) STANDARD PERFORMANCE 80 11.7/11.2 (18.8/18) 10.9/10.8 (17.5/17.4) 118/73 (0.6/0.37) 107/66 (0.542/0.334) 110/68 (0.56/0.345) 94/104 (0.48/0.53) 75/91 (0.38/0.46) 77/98 (0.39/0.5) 30.1/18.3 10.9/7 4104/3941
	34 36 37 37 38 38 39 40	Axle loading - steer Travel speed Lift speed Lower speed Gradeability Drawbar pull	Static with max. wt. battery Extended shift off Extended shift on Std 2-stg LFL mast Opt 2-stg FFL mast Opt 3-stg FFL mast Std 2-stg LFL mast Opt 3-stg FFL mast Opt 3-stg FFL mast S minute rating 60 minute rating 60 minute rating	NL/RL	Ib (kg) VOLTS mph (km/h) mph (km/h) ft/min (m/sec)	9340 (4237) / 3300 (1497) STANDARD PERFORMANCE 80 11.7/11.2 (18.8/18) 10.9/10.8 (17.5/17.4) 118/73 (0.6/0.37) 107/66 (0.542/0.334) 110/68 (0.56/0.345) 94/104 (0.48/0.53) 75/91 (0.38/0.46) 77/98 (0.39/0.5) 30.1/18.3 10.9/7 4104/3941 1541/1526
	34 36 37 37 38 38 39	Axle loading - steer Travel speed Lift speed Lower speed Gradeability	Static with max. wt. battery Extended shift off Extended shift on Std 2-stg LFL mast Opt 2-stg FFL mast Opt 3-stg FFL mast Opt 2-stg FFL mast Opt 3-stg FFL mast Opt 3-stg FFL mast Opt 3-stg FFL mast Gon inute rating 60 minute rating 60 minute rating Method of control	NL/RL Service/parking	Ib (kg) VOLTS mph (km/h) mph (km/h) ft/min (m/sec) % % LBF	9340 (4237) / 3300 (1497) STANDARD PERFORMANCE 80 11.7/11.2 (18.8/18) 10.9/10.8 (17.5/17.4) 118/73 (0.6/0.37) 107/66 (0.542/0.334) 110/68 (0.56/0.345) 94/104 (0.48/0.53) 75/91 (0.38/0.46) 77/98 (0.39/0.5) 30.1/18.3 10.9/7 4104/3941 1541/1526 Hydraulic/spring applied
	34 36 37 37 38 38 39 40 41	Axle loading - steer Travel speed Lift speed Lower speed Gradeability Drawbar pull Brake	Static with max. wt. battery Extended shift off Extended shift on Std 2-stg LFL mast Opt 2-stg FFL mast Opt 3-stg FFL mast Std 2-stg LFL mast Opt 3-stg FFL mast Opt 3-stg FFL mast S minute rating 60 minute rating 60 minute rating	NL/RL Service/parking Service/parking	Ib (kg) VOLTS mph (km/h) mph (km/h) ft/min (m/sec) % % LBF	9340 (4237) / 3300 (1497) STANDARD PERFORMANCE 80 11.7/11.2 (18.8/18) 10.9/10.8 (17.5/17.4) 118/73 (0.6/0.37) 107/66 (0.542/0.334) 110/68 (0.542/0.334) 110/68 (0.56/0.345) 94/104 (0.48/0.53) 75/91 (0.38/0.46) 77/98 (0.39/0.5) 30.1/18.3 10.9/7 4104/3941 1541/1526 Hydraulic/spring applied Foot/automatic
	34 36 37 37 38 38 39 40	Axle loading - steer Travel speed Lift speed Lower speed Gradeability Drawbar pull	Static with max. wt. battery Extended shift off Extended shift on Std 2-stg LFL mast Opt 2-stg FFL mast Opt 3-stg FFL mast Opt 2-stg FFL mast Opt 3-stg FFL mast Opt 3-stg FFL mast Opt 3-stg FFL mast Gon inute rating 60 minute rating 60 minute rating Method of control	NL/RL Service/parking	Ib (kg) VOLTS mph (km/h) mph (km/h) ft/min (m/sec) % % LBF	9340 (4237) / 3300 (1497) STANDARD PERFORMANCE 80 11.7/11.2 (18.8/18) 10.9/10.8 (17.5/17.4) 118/73 (0.6/0.37) 107/66 (0.542/0.334) 110/68 (0.542/0.334) 110/68 (0.542/0.334) 110/68 (0.542/0.334) 10/7/60 (0.542/0.334) 10/7/60 (0.39/0.5) 30.1/18.3 10.9/7 4104/3941 1541/1526 Hydraulic/spring applied Foot/automatic Lithium-ion
PERFORMANCE	34 36 37 37 38 38 39 40 41	Axle loading - steer Travel speed Lift speed Lower speed Gradeability Drawbar pull Brake	Static with max. wt. battery Extended shift off Extended shift on Std 2-stg LFL mast Opt 2-stg FFL mast Opt 3-stg FFL mast Opt 2-stg FFL mast Opt 3-stg FFL mast Opt 3-stg FFL mast Opt 3-stg FFL mast Gon inute rating 60 minute rating 60 minute rating Method of control	NL/RL Service/parking Service/parking	Ib (kg) VOLTS mph (km/h) ft/min (m/sec) % LBF LBF LBF	9340 (4237) / 3300 (1497) STANDARD PERFORMANCE 80 11.7/11.2 (18.8/18) 10.9/10.8 (17.5/17.4) 118/73 (0.6/0.37) 107/66 (0.542/0.334) 110/68 (0.542/0.334) 110/68 (0.542/0.334) 110/68 (0.542/0.334) 10/7/60 (0.542/0.334) 10/7/60 (0.542/0.334) 30.1/18.3 10.9/7 4104/3941 1541/1526 Hydraulic/spring applied Foot/automatic Lithium-ion STANDARD PERFORMANCE
PERFORMANCE	34 36 37 38 38 39 40 40 41 42	Axle loading - steer Travel speed Lift speed Lower speed Gradeability Drawbar pull Brake Battery	Static with max. wt. battery Extended shift off Extended shift on Std 2-stg LFL mast Opt 2-stg FFL mast Opt 3-stg FFL mast Opt 2-stg FFL mast Opt 3-stg FFL mast Opt 3-stg FFL mast Opt 3-stg FFL mast Gon inute rating 60 minute rating 60 minute rating Method of control	NL/RL Service/parking Service/parking Type	Ib (kg) VOLTS mph (km/h) ft/min (m/sec) % LBF LBF VOLTS	9340 (4237) / 3300 (1497) STANDARD PERFORMANCE 80 11.7/11.2 (18.8/18) 10.9/10.8 (17.5/17.4) 118/73 (0.6/0.37) 107/66 (0.542/0.334) 110/68 (0.56/0.345) 94/104 (0.48/0.53) 75/91 (0.38/0.46) 77/98 (0.39/0.5) 30.1/18.3 10.9/7 4104/3941 1541/1526 Hydraulic/spring applied Foot/automatic Lithium-ion STANDARD PERFORMANCE 80
PERFORMANCE	34 36 37 38 38 39 40 41 41 42 42	Axle loading - steer Travel speed Lift speed Lower speed Gradeability Drawbar pull Brake Battery Traction motor	Static with max. wt. battery Extended shift off Extended shift on Std 2-stg LFL mast Opt 2-stg FFL mast Opt 3-stg FFL mast Opt 2-stg FFL mast Opt 3-stg FFL mast Opt 3-stg FFL mast Opt 3-stg FFL mast Gon inute rating 60 minute rating 60 minute rating Method of control	NL/RL Service/parking Service/parking Type 60 minute rating	Ib (kg) VOLTS mph (km/h) ft/min (m/sec) % LBF LBF VOLTS hp (kW)	9340 (4237) / 3300 (1497) STANDARD PERFORMANCE 80 11.7/11.2 (18.8/18) 10.9/10.8 (17.5/17.4) 118/73 (0.6/0.37) 107/66 (0.542/0.334) 110/68 (0.56/0.345) 94/104 (0.48/0.53) 75/91 (0.38/0.46) 77/98 (0.39/0.5) 30.1/18.3 10.9/7 4104/3941 1541/1526 Hydraulic/spring applied Foot/automatic Lithium-ion STANDARD PERFORMANCE 80
	34 36 37 37 38 38 39 40 41 41 42 42 43 44	Axle loading - steer Travel speed Lift speed Lower speed Gradeability Drawbar pull Brake Battery Traction motor Pump motor	Static with max. wt. battery Extended shift off Extended shift on Std 2-stg LFL mast Opt 2-stg FFL mast Opt 3-stg FFL mast Opt 2-stg FFL mast Opt 3-stg FFL mast Opt 3-stg FFL mast Opt 3-stg FFL mast Gon inute rating 60 minute rating 60 minute rating Method of control	NL/RL Service/parking Service/parking Type 60 minute rating 15% rating	Ib (kg) VOLTS mph (km/h) ft/min (m/sec) % LBF LBF VOLTS	9340 (4237) / 3300 (1497) STANDARD PERFORMANCE 80 11.7/11.2 (18.8/18) 10.9/10.8 (17.5/17.4) 118/73 (0.6/0.37) 107/66 (0.542/0.344) 110/68 (0.56/0.345) 94/104 (0.48/0.53) 75/91 (0.38/0.46) 77/98 (0.39/0.5) 30.1/18.3 10.9/7 4104/3941 1541/1526 Hydraulic/spring applied Foot/automatic Lithium-ion STANDARD PERFORMANCE 80 28.2 (21) 48.3 (36)
PERFORMANCE	34 36 37 38 39 40 41 42 43 44 45	Axle loading - steer Travel speed Lift speed Lower speed Gradeability Drawbar pull Brake Battery Traction motor Pump motor Traction motor	Static with max. wt. battery Extended shift off Extended shift on Std 2-stg LFL mast Opt 2-stg FFL mast Opt 3-stg FFL mast Opt 2-stg FFL mast Opt 3-stg FFL mast Opt 3-stg FFL mast Opt 3-stg FFL mast Gon inute rating 60 minute rating 60 minute rating Method of control	NL/RL Service/parking Service/parking Type 60 minute rating 15% rating Type/control method	Ib (kg) VOLTS mph (km/h) ft/min (m/sec) % LBF LBF VOLTS hp (kW)	9340 (4237) / 3300 (1497) STANDARD PERFORMANCE 80 11.7/11.2 (18.8/18) 10.9/10.8 (17.5/17.4) 118/73 (0.6/0.37) 107/66 (0.542/0.334) 110/68 (0.56/0.345) 94/104 (0.48/0.53) 75/91 (0.38/0.46) 77/98 (0.39/0.5) 30.1/18.3 10.9/7 4104/3941 1541/1526 Hydraulic/spring applied Foot/automatic Lithium-ion STANDARD PERFORMANCE 80 28.2 (21) 48.3 (36) AC/transistor
PERFORMANCE	34 36 37 37 38 38 39 40 41 41 42 42 43 44 45 46	Axle loading - steer Travel speed Lift speed Lift speed Cover speed Gradeability Drawbar pull Brake Battery Traction motor Pump motor Traction motor Pump motor	Static with max. wt. battery Extended shift off Extended shift on Std 2-stg LFL mast Opt 2-stg FFL mast Opt 3-stg FFL mast Opt 2-stg FFL mast Opt 3-stg FFL mast Opt 3-stg FFL mast Opt 3-stg FFL mast Gon inute rating 60 minute rating 60 minute rating Method of control	NL/RL Service/parking Service/parking Type 60 minute rating 15% rating Type/control method Type/control method	Ib (kg) VOLTS mph (km/h) ft/min (m/sec) % LBF LBF VOLTS hp (kW)	9340 (4237) / 3300 (1497) STANDARD PERFORMANCE 80 11.7/11.2 (18.8/18) 10.9/10.8 (17.5/17.4) 118/73 (0.6/0.37) 107/66 (0.542/0.334) 110/68 (0.56/0.345) 94/104 (0.48/0.53) 75/91 (0.38/0.46) 77/98 (0.39/0.5) 30.1/18.3 10.9/7 4104/3941 1541/1526 Hydraulic/spring applied Foot/automatic Lithium-ion STANDARD PERFORMANCE 80 28.2 (21) 48.3 (36) AC/transistor
PERFORMANCE	34 36 37 38 39 40 41 42 43 44 45 46 47	Axle loading - steer Travel speed Lift speed Lift speed Cover speed Gradeability Drawbar pull Brake Battery Traction motor Pump motor Traction motor Pump motor Number of speeds	Static with max. wt. battery Extended shift off Extended shift on Std 2-stg LFL mast Opt 2-stg FFL mast Opt 3-stg FFL mast Opt 2-stg FFL mast Opt 3-stg FFL mast Opt 3-stg FFL mast Opt 3-stg FFL mast Gon inute rating 60 minute rating 60 minute rating Method of control	NL/RL Service/parking Service/parking Type 60 minute rating 15% rating Type/control method	Ib (kg) VOLTS mph (km/h) mph (km/h) ft/min (m/sec) % <th>9340 (4237) / 3300 (1497) STANDARD PERFORMANCE 80 11.7/11.2 (18.8/18) 10.9/10.8 (17.5/17.4) 118/73 (0.6/0.37) 107/66 (0.542/0.334) 110/68 (0.56/0.345) 94/104 (0.48/0.53) 75/91 (0.38/0.46) 77/98 (0.39/0.5) 30.1/18.3 10.9/7 4104/3941 1541/1526 Hydraulic/spring applied Foot/automatic Lithium-ion STANDARD PERFORMANCE 80 28.2 (21) 48.3 (36) AC/transistor AC/transistor</th>	9340 (4237) / 3300 (1497) STANDARD PERFORMANCE 80 11.7/11.2 (18.8/18) 10.9/10.8 (17.5/17.4) 118/73 (0.6/0.37) 107/66 (0.542/0.334) 110/68 (0.56/0.345) 94/104 (0.48/0.53) 75/91 (0.38/0.46) 77/98 (0.39/0.5) 30.1/18.3 10.9/7 4104/3941 1541/1526 Hydraulic/spring applied Foot/automatic Lithium-ion STANDARD PERFORMANCE 80 28.2 (21) 48.3 (36) AC/transistor AC/transistor
ELECTRIC PERFORMANCE	34 36 37 38 39 40 41 42 43 44 45 46 47 48	Axle loading - steer Travel speed Lift speed Lift speed Gradeability Drawbar pull Brake Battery Traction motor Pump motor Traction motor Pump motor Number of speeds Step height	Static with max. wt. battery Extended shift off Extended shift on Std 2-stg LFL mast Opt 2-stg FFL mast Opt 3-stg FFL mast Opt 2-stg FFL mast Opt 3-stg FFL mast Opt 3-stg FFL mast Opt 3-stg FFL mast Gon inute rating 60 minute rating 60 minute rating Method of control	NL/RL Service/parking Service/parking Type/control method Type/control method Traction/pump	Ib (kg) WOLTS mph (km/h) mph (km/h) ft/min (m/sec) %	9340 (4237) / 3300 (1497) STANDARD PERFORMANCE 80 11.7/11.2 (18.8/18) 10.9/10.8 (17.5/17.4) 118/73 (0.6/0.37) 107/66 (0.542/0.334) 110/68 (0.56/0.345) 94/104 (0.48/0.53) 75/91 (0.38/0.46) 77/98 (0.39/0.5) 30.1/18.3 10.9/7 4104/3941 1541/1526 Hydraulic/spring applied Foot/automatic Lithium-ion STANDARD PERFORMANCE 80 28.2 (21) 48.3 (36) AC/transistor AC/transistor Infinitely variable/infinitely variable 21.1 (536)
ELECTRIC PERFORMANCE	34 36 37 38 39 40 41 42 43 44 45 46 47 48 49	Axle loading - steer Travel speed Lift speed Cover speed Gradeability Drawbar pull Brake Battery Traction motor Pump motor Traction motor Pump motor Number of speeds Step height Floor height	Static with max. wt. battery	NL/RL Service/parking Service/parking Type 60 minute rating 15% rating Type/control method Type/control method	Ib (kg) WOLTS mph (km/h) mph (km/h) ft/min (m/sec) ft/min (m/sec) <t< th=""><th>9340 (4237) / 3300 (1497) STANDARD PERFORMANCE 80 11.7/11.2 (18.8/18) 10.9/10.8 (17.5/17.4) 118/73 (0.6/0.37) 107/66 (0.542/0.334) 110/68 (0.542/0.334) 110/68 (0.56/0.345) 94/104 (0.48/0.53) 75/91 (0.38/0.46) 77/98 (0.39/0.5) 30.1/18.3 10.9/7 4104/3941 1541/1526 Hydraulic/spring applied Foot/automatic Lithium-ion STANDARD PERFORMANCE 80 28.2 (21) 48.3 (36) AC/transistor Infinitely variable/infinitely variable 21.1 (536) 33.7 (855)</th></t<>	9340 (4237) / 3300 (1497) STANDARD PERFORMANCE 80 11.7/11.2 (18.8/18) 10.9/10.8 (17.5/17.4) 118/73 (0.6/0.37) 107/66 (0.542/0.334) 110/68 (0.542/0.334) 110/68 (0.56/0.345) 94/104 (0.48/0.53) 75/91 (0.38/0.46) 77/98 (0.39/0.5) 30.1/18.3 10.9/7 4104/3941 1541/1526 Hydraulic/spring applied Foot/automatic Lithium-ion STANDARD PERFORMANCE 80 28.2 (21) 48.3 (36) AC/transistor Infinitely variable/infinitely variable 21.1 (536) 33.7 (855)
PERFORMANCE	34 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	Axle loading - steer Travel speed Lift speed Lift speed Cover speed Gradeability Drawbar pull Brake Battery Traction motor Pump motor Traction motor Pump motor Number of speeds Step height Floor height Attachment relief press	Static with max. wt. battery	NL/RL Service/parking Service/parking Type/control method Type/control method Traction/pump	Ib (kg) WOLTS mph (km/h) mph (km/h) ft/min (m/sec) % % % % UDLTS hp (kW) hp (kW) in (mm) in (mm) psi (bar)	9340 (4237) / 3300 (1497) STANDARD PERFORMANCE 80 11.7/11.2 (18.8/18) 10.9/10.8 (17.5/17.4) 118/73 (0.6/0.37) 107/66 (0.542/0.334) 110/68 (0.56/0.345) 94/104 (0.48/0.53) 75/91 (0.38/0.46) 77/98 (0.39/0.5) 30.1/18.3 10.9/7 4104/3941 1541/1526 Hydraulic/spring applied Foot/automatic Lithium-ion STANDARD PERFORMANCE 80 28.2 (21) 48.3 (36) AC/transistor Infinitely variable/infinitely variable 21.1 (536) 33.7 (855) 2250 (155)
ELECTRIC PERFORMANCE	34 36 37 38 39 40 41 42 43 44 45 46 47 48 49	Axle loading - steer Travel speed Lift speed Cover speed Gradeability Drawbar pull Brake Battery Traction motor Pump motor Traction motor Pump motor Number of speeds Step height Floor height	Static with max. wt. battery	NL/RL Service/parking Service/parking Type 60 minute rating 15% rating Type/control method Traction/pump Lowest point	Ib (kg) WOLTS mph (km/h) mph (km/h) ft/min (m/sec) ft/min (m/sec) <t< th=""><th>9340 (4237) / 3300 (1497) STANDARD PERFORMANCE 80 11.7/11.2 (18.8/18) 10.9/10.8 (17.5/17.4) 118/73 (0.6/0.37) 107/66 (0.542/0.334) 110/68 (0.542/0.334) 110/68 (0.56/0.345) 94/104 (0.48/0.53) 75/91 (0.38/0.46) 77/98 (0.39/0.5) 30.1/18.3 10.9/7 4104/3941 1541/1526 Hydraulic/spring applied Foot/automatic Lithium-ion STANDARD PERFORMANCE 80 28.2 (21) 48.3 (36) AC/transistor Infinitely variable/infinitely variable 21.1 (536) 33.7 (855)</th></t<>	9340 (4237) / 3300 (1497) STANDARD PERFORMANCE 80 11.7/11.2 (18.8/18) 10.9/10.8 (17.5/17.4) 118/73 (0.6/0.37) 107/66 (0.542/0.334) 110/68 (0.542/0.334) 110/68 (0.56/0.345) 94/104 (0.48/0.53) 75/91 (0.38/0.46) 77/98 (0.39/0.5) 30.1/18.3 10.9/7 4104/3941 1541/1526 Hydraulic/spring applied Foot/automatic Lithium-ion STANDARD PERFORMANCE 80 28.2 (21) 48.3 (36) AC/transistor Infinitely variable/infinitely variable 21.1 (536) 33.7 (855)

The following chargers are approved to use with the E80XNL lithium-ion battery:

Posicharge ProCORE (80V) - 10kW, 15kW, 20kW or 30kW single cable
Ecotec Fast Charge Access (80V): Available in 5kW-28kW (charger input voltage dependent) Please contact your local dealer for more information on approved chargers.

Above specifications, unless otherwise listed, are for a standard truck without optional equipment.Right angle stack and equal Intersecting aisle dimensions provided with a 48" long and 40" wide pallet load, allowing zero clearance.

CERTIFICATION: Hyster® lift trucks meet the design and construction requirements of B56.1-1969, per OSHA Section 1910.178(a)(2), and also comply with the B56.1 revision in effect at time of manufacture. Certification of compliance with the applicable ANSI standards appears on the lift truck. Performance specifications are for a truck equipped as described under standard equipment on this technical guide. Performance specifications are affected by the condition of the vehicle and how it is equipped, as well as by the nature, condition of the operating area, proper service and maintenance of the vehicle. If these specifications are critical, the proposed application should be discussed with your dealer.

BATTERY SPECIFICATIONS AND ONBOARD CHARGING

The battery run time and battery charge time tables are a helpful guide to visualize the truck run time with different batteries in different applications. (The tables are a guide only and not a replacement for a site survey and full power study.)

Heavy – High throughput, typically runs full capacity, runs either attachments or has high lifts **Medium** – High throughput, runs near capacity without attachments or high lifts **Light** – Lower throughput, runs less than rated capacity without attachments or high lifts

The onboard charging option allows integrated lithium-ion forklifts to be charged via commonly available infrastructure without any facility equipment. Ideal for applications with limited charging options or those with the downtime for slower charging due to lower hour usage.

BATTERY SPECIFICATIONS					
E80XNL BATTERY RUN TIME					
Pottory size		Application			
Battery size	Heavy	Medium	Light		
52.4kWh	5h 45m	8h 0m	11h 0m		
43.7kWh	4h 45m	6h 45m	9h 0m		
34.9kWh	3h 45m	5h 30m	7h 0m		
	E80XNL BATTE	RY CHARGE TIME			
Charger size		Battery size			
Charger Size	52.4kWh	43.7kWh	34.9kWh		
30kW	1h 45m	1h 30m	1h 15m		
20kW	2h 45m	2h 15m	1h 45m		
15kW	3h 30m	3h 0m	2h 30m		
10kW	5h 30m	4h 30m	3h 30m		
5kW	10h 30m	8h 45m	7h 0m		

Note: Run time is from	100% to lift-lock out	Charge time is from lift-lock
out to 100%.		

ONBOARD CHARGING					
ONBOARD CHARGE TIME					
Charger size	Battery size				
Charger size	52.4kWh	43.7kWh	34.9kWh		
6kW (240V outlet)	8h 5m	6h 45m	5h 25m		
1.4kW (120V outlet)	34h 30m	28h 45m	23h 0m		
BATTERY RECHARGE TIME FOLLOWING 1 HOUR OF OPERA					
Charger size	Application				
Gliarger Size	Heavy	Medium	Light		
6kW (240V outlet)	1h 30m	1h 10m	0h 50m		
1.4kW (120V outlet)	6h 20m	4h 30m	3h 20m		

E80XNL MAST DIMENSIONS

Maximum fork height (TOF) +	Overall lowered height	Overall extended height w/load backrest	Overall extended height w/o load backrest	Free-lift (TOF) w/ load backrest	Free-lift (TOF) w/o load backrest		
in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)		
2-STAGE LIMITED FREE-LIFT	2-STAGE LIMITED FREE-LIFT (LFL) MAST						
120 (3050)	84 (2134)	176 (4455)	149 (3783)	5 (150)	5 (150)		
143 (3650)	96 (2434)	193 (4884)	173 (4383)	5 (150)	5 (150)		
2-STAGE FULL FREE-LIFT (FFL) MAST							
121 (3075)	84 (2134)	170 (4309)	152 (3857)	35 (900)	53 (1352)		
144 (3675)	96 (2434)	194 (4909)	176 (4457)	47 (1200)	65 (1652)		
3-STAGE FULL FREE-LIFT (FFL) MAST							
173 (4415)	84 (2134)	223 (5649)	205 (5197)	35 (900)	53 (1352)		
185 (4715)	88 (2234)	235 (5949)	217 (5497)	39 (1000)	57 (1452)		
194 (4950)	92 (2334)	244 (6184)	226 (5732)	43 (1100)	61 (1552)		
218 (5550)	100 (2534)	268 (6784)	250 (6332)	51 (1300)	69 (1752)		

FEATURES AND OPTIONS

PERFORMANCE	070	0.07
PERFORMANCE	STD	OPT
80-volt electrical system	Х	
• 83.2V battery @630 Ah	х	
• 83.2V battery @525 Ah		Х
• 83.2V battery @420 Ah		Х
AC traction and pump motors (completely brushless)	Х	
Transistor drive and pump control	Х	
Advanced VSM (Vehicle System Manager)	Х	
Regenerative braking	Х	
Onboard charging	етр	X
DRIVE Smooth tread rubber drive tire and steer tire	STD X	OPT
Non-marking, rubber, or lug tread tires	~	v
Wide tread tires		x
LIFT	STD	× OPT
2-stage limited free lift (LFL) mast with maximum fork height of 120"	้อาบ	UPT
(3050mm) (E80XNL)	х	
5° forward and 5° back mast tilt	х	
2-stage full free lift mast	^	х
3-stage full free lift mast		x
8° forward/5° back tilt		x
HANDLING	STD	OPT
42" (1067mm) wide hook-type carriage with 48" (1219mm) high load		
backrest extension	х	
42" (1067mm) long forks	х	
48" (1220mm) wide hook type carriage w/ 48" high load backrest	~	
extension		Х
42" (1067mm) wide integral side shift (E80XNL)		х
48" (1220mm) integral sideshift carriage		х
Multiple fork lengths		х
Return to set tilt		х
Hydraulic attachment extension tubes with or without quick		v
disconnect fittings		Х
Load weight indicator		х
Accumulator		х
ERGONOMICS	STD	OPT
Foot directional control pedal	х	
TouchPoint mini-levers	х	
Steering wheel w/integral spinner knob	х	
Full suspension vinyl seat	Х	
Black, non-cinch seat belt with Emergency Locking Retractor (ELR)	х	
Park brake	Х	
Power assist braking	х	
On-demand hydrostatic power-assist steering	Х	
Auto Deceleration System (ADS)	х	
Multifunction display (high mount)	Х	
Easy ingress/egress with low step height and contoured handhold	х	
Operator convenience station	Х	
Adjustable tilt steering column	х	
Operator Presence System (OPS)	Х	
Cushioned floormat	х	
Seatside power disconnect button	Х	
Full-suspension cloth seat		х
Air-ride seat (vinyl or cloth)		Х

ERGONOMICS (CONTINUED)		OPT
Full-suspension swivel seat (vinyl or cloth)	310	X
Seatside directional control		
Telescoping steering column with tilt memory		X X
LED dome/reading light		X
Rear drive handle with horn button		Х
Dual rear view mirrors		Х
Panoramic rear view mirror		Х
Red, high-visibility, non-cinch seat belt with or without interlock		Х
Low mount display	OTD	X
OPERATION Standard and an incompany of a construction	STD	OPT
Standard environmental construction	X	
Key switch start	X	
94" grid style overhead guard	X	
3-function hydraulic control valve	X	
Integrated CANbus communication	Х	
Static strap	х	
Tow pin	Х	
Hyster Stability System (HSS [®])	х	
Cooler/freezer package – operating temperatures: -20°F to +120° F		х
4-function hydraulic control valve		х
Horizontal Battery Extraction (rollers)		х
Keyless start (with auxiliary key switch)		х
LED brake/tail/back-up light packages		х
LED and halogen work light packages		х
Key switch controlled lights		х
Audible alarm - reverse operation (manually adjustable to 87, 97 or 102 dB)		x
Visible amber strobe light - continuous activated, overhead guard		
mounted		X
Fire extinguisher - 2.5lb dry chemical		x
Impact monitor with programmable shutdown		х
Operator password start interlock		х
Operator daily checklist		х
System monitor - hydraulic low fluid level indicator and hydraulic filter		
service indicator		х
Programmable maintenance reminder		х
12-volt auxiliary power supply		х
Auxiliary DC-DC converter		х
91" grid style overhead guard		х
87" flat plate overhead guard		х
Hyster Reaction [™]		x
Battery cooling fan		х
Vented side paneling		х
SUPPLEMENTAL	STD	OPT
Operating manual	x	
12 month/2,000 hour full truck warranty	x	
36 month/6,000 hour powertrain warranty	x	
84 month/12,000 hours factory installed integrated lithium-ion battery		
warranty	X	
ENERGY SYSTEM	STD	OPT
Integrated lithium-ion	x	





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