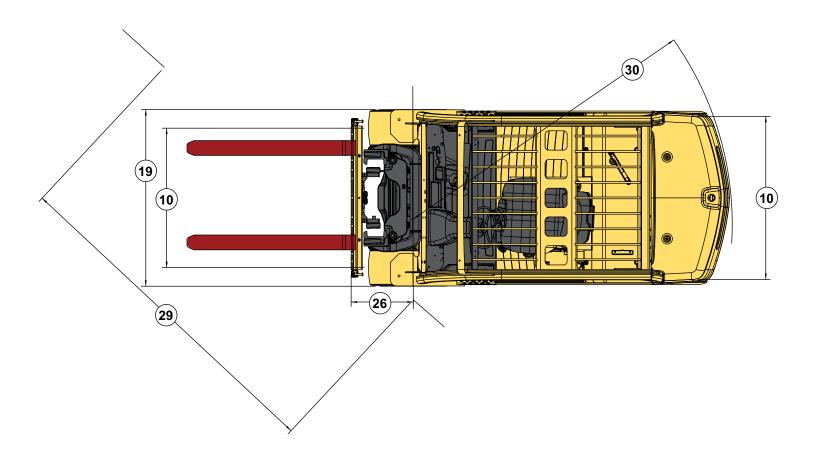
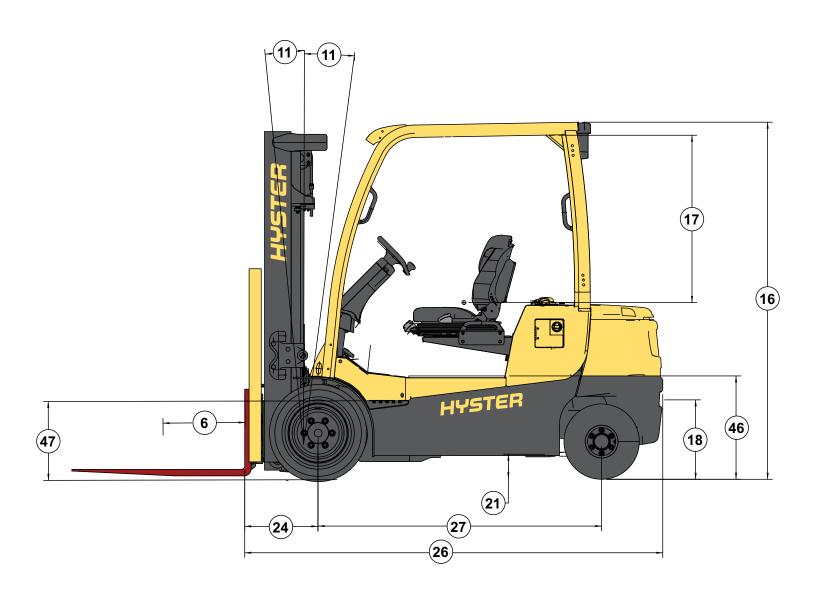


INTEGRATED LITHIUM-ION COUNTERBALANCED FORKLIFT

PRODUCT TECHNICAL GUIDE







SPECIFICATIONS

1 1				11. 4	
2	Manufacturer Madel designation			Hyst	
2	Model designation Power/voltage			J50X	
				Electric/8	
_	Operation		Ha (Iva)	Sit	
	Rated capacity		lb (kg)	5000 (2	,
	Load center		in (mm)	24 (6	,
	Tire type (std/opt)			Pneumatic/pneuma	
	Tire size (drive/steer)		in	23x10-12/	
_	Wheels - number X=drive	,	front/rear	2X/	
	Tread (center of tires) (st	,	in (mm)	36.9/41.5/39.1 (9	
_	Mast tilt (std/opt/opt) (fo		degrees	5/5 10/5	
	Mast - lowered height (st	d mast)	in (mm)	87 (21	192)
13	Free lift - top of fork	Std 2 std limited free lift mast	in (mm)	5 (14	10)
		Op 2 stg full free lift mast with/without LBR	in (mm)	37/64 (962	2/1628)
14	Lift height - top of fork	Std 2 stg limited free lift mast	in (mm)	133 (33	392)
15	Mast - extended height (s	std mast with/without LBR)	in (mm)	182/156 (46	322/3956)
16	Overhead guard height		in (mm)	86.3 (2	193)
17	SIP to bottom of OHG (se	eat depressed) (std/susp/air ride)	in (mm)	36.9/41.5/39.1 (9	
	Tow pin height (vertical c		in (mm)	10.3 (2	
	Overall width	Pneumatic tires (std/wide tread)	in (mm)	46.9/51.5 (1	•
, iii		PSS tires (std/wide tread)	in (mm)	46.2/50.7 (1	,
20	Forks (thickness x width :	,	in (mm)	1.6 x 3.9 x 42 (40	,
	Standard carriage width		in (mm)	42 (10	
	Ground clearance - lowes	et point (NI /DI)	in (mm)	3.9/3.3 (9	,
	Ground clearance - cente		in (mm)	5.4/5.3 (1	,
	Load distance (center of			· ·	,
_	_ `	•	in (mm)	15.9 (4	,
25	Battery compartment	Height	in (mm)	12.6 (3	•
		Width	in (mm)	29.1 (7	
		Length - nominal	Size	34	
		Length - actual	in (mm)	39.4 (1	,
_	Length to face of forks		in (mm)	97 (24	,
_	Wheelbase		in (mm)	68.9 (1	
28	Right angle stack		in (mm)	146.7 (3	3727)
29	Equal aisle (90° intersect	ing aisle)	in (mm)	80.5 (2	045)
30	Outside turing radius		in (mm)	81.6 (2	(073)
31	Truck weight (without bat	ttery - no load)	lb (kg)	8680 (3	3945)
32	Axle loading - drive - stat	ic with max weight battery (NL/RL)	lb (kg)	4855 (2205)/13	3270 (6020)
	Ayle loading - steer - stat	ic with max weight battery (NL/RL)	11 (1)		1765 (800)
	Axic loading stock state		lb (kg)	4680 (2125)/	1703 (000)
	Axio loading Steel State	is man noight satisfy (NE/NE)	lb (kg)	4680 (2125)/ Standard performance	PowerPlus performance
34	Travel speed (NL/RL)	is man may rough backery (Marita)	mph (kph)	· /	, ,
		Std 2 stg LFL mast (NL/RL)		Standard performance	PowerPlus performance
	Travel speed (NL/RL)	, ,	mph (kph)	Standard performance 11.2/11.2 (18/18)	PowerPlus performance 13/13 (21/21)
	Travel speed (NL/RL)	Std 2 stg LFL mast (NL/RL)	mph (kph) ft/min (m/sec) ft/min (m/sec)	Standard performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39)	PowerPlus performance 13/13 (21/21) 142/96 (0.72/0.49)
35	Travel speed (NL/RL) Lift speed	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL)	mph (kph) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec)	Standard performance 11.2/11.2 (18/18) 124/75 (0.63/0.38)	PowerPlus performance 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48)
35	Travel speed (NL/RL)	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL)	mph (kph) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec)	Standard performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (0.	PowerPlus performance 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) .51/0.57)
35	Travel speed (NL/RL) Lift speed	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL)	mph (kph) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec)	Standard performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (0.91/106 (0.40)	PowerPlus performance 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) .51/0.57) 46/0.54)
35	Travel speed (NL/RL) Lift speed Lower speed	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL)	mph (kph) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec)	Standard performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (0.91/106 (0.93/108 (0	PowerPlus performance 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) .51/0.57) 46/0.54) 47/0.55)
35	Travel speed (NL/RL) Lift speed	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) 5 minute rating (NL/RL)	mph (kph) ft/min (m/sec)	Standard performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (0.91/106 (0.93/108 (0.35/24)	PowerPlus performance 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) .51/0.57) 46/0.54) 47/0.55) 38/26
35 36 37	Travel speed (NL/RL) Lift speed Lower speed Gradeability	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL)	mph (kph) ft/min (m/sec) %	Standard performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (0.91/106 (0.93/108 (0.35/24)	PowerPlus performance 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) .51/0.57) 46/0.54) 47/0.55) 38/26 13/9
35 36 37	Travel speed (NL/RL) Lift speed Lower speed	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL) 5 minute rating (NL/RL)	mph (kph) ft/min (m/sec)	Standard performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (0.91/106 (0.93/108 (0.35/24) 12/8 4248/4148	PowerPlus performance 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) .51/0.57) 46/0.54) 47/0.55) 38/26 13/9 4588/4480
35 36 37 38	Travel speed (NL/RL) Lift speed Lower speed Gradeability Drawbar pull	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL)	mph (kph) ft/min (m/sec) %	Standard performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (0.91/106 (0.93/108 (0.35/24) 12/8 4248/4148 1287/1257	PowerPlus performance 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) .51/0.57) 46/0.54) 47/0.55) 38/26 13/9 4588/4480 1390/1357
35 36 37 38	Travel speed (NL/RL) Lift speed Lower speed Gradeability	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) Method of control (service/parking)	mph (kph) ft/min (m/sec)	Standard performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (0.93/108 (0	PowerPlus performance 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) .51/0.57) 46/0.54) 47/0.55) 38/26 13/9 4588/4480 1390/1357
35 36 37 38 39	Travel speed (NL/RL) Lift speed Lower speed Gradeability Drawbar pull Brake	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) Method of control (service/parking) Method of operation (service/parking)	mph (kph) ft/min (m/sec)	Standard performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (0.93/108 (0.93/108 (0.43/108)) 35/24 12/8 4248/4148 1287/1257 Hydraulic/m Foot/auto	PowerPlus performance 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) .51/0.57) 46/0.54) 47/0.55) 38/26 13/9 4588/4480 1390/1357 echanical
35 36 37 38 39	Travel speed (NL/RL) Lift speed Lower speed Gradeability Drawbar pull Brake Battery compartment typ	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) Method of control (service/parking) Method of operation (service/parking)	mph (kph) ft/min (m/sec) % % LBF LBF	Standard performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (0.91/106 (0.491/106) 35/24 12/8 4248/4148 1287/1257 Hydraulic/m Foot/auto Lithium	PowerPlus performance 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) .51/0.57) 46/0.54) 47/0.55) 38/26 13/9 4588/4480 1390/1357 echanical omatic 1-ion
35 36 37 38 39 40	Travel speed (NL/RL) Lift speed Lower speed Gradeability Drawbar pull Brake Battery compartment typ Battery voltage (nominal	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL) Method of control (service/parking) Method of operation (service/parking) e capacity)	mph (kph) ft/min (m/sec) % LBF LBF	Standard performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (0.91/106 (0.491/106) 35/24 12/8 4248/4148 1287/1257 Hydraulic/m Foot/autc Lithium 80/42	PowerPlus performance 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) .51/0.57) 46/0.54) 47/0.55) 38/26 13/9 4588/4480 1390/1357 echanical omatic n-ion 20
35 36 37 38 39 40	Travel speed (NL/RL) Lift speed Lower speed Gradeability Drawbar pull Brake Battery compartment typ Battery voltage (nominal Traction motors (dual) 60	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL) Method of control (service/parking) Method of operation (service/parking) e capacity) O minute rating (each)	mph (kph) ft/min (m/sec) % % LBF LBF V/ah hp (kW)	Standard performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (0.91/106 (0.493/108) 35/24 12/8 4248/4148 1287/1257 Hydraulic/m Foot/autc Lithium 80/4: 13.4 (10)	PowerPlus performance 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) .51/0.57) 46/0.54) 47/0.55) 38/26 13/9 4588/4480 1390/1357 echanical omatic n-ion 20 13.4 (10)
35 36 37 38 39 40 41 42	Travel speed (NL/RL) Lift speed Lower speed Cradeability Drawbar pull Brake Battery compartment typ Battery voltage (nominal Traction motors (dual) 60 Pump motor -15 minute	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL) Method of control (service/parking) Method of operation (service/parking) e capacity) O minute rating (each) rating	mph (kph) ft/min (m/sec) % LBF LBF	Standard performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (0.91/106 (0.93/108) 35/24 12/8 4248/4148 1287/1257 Hydraulic/m Foot/autc Lithium 80/4: 13.4 (10) 21.5 (16)	PowerPlus performance 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) .51/0.57) 46/0.54) 47/0.55) 38/26 13/9 4588/4480 1390/1357 echanical omatic n-ion 20 13.4 (10) 32.2 (24)
35 36 37 38 39 40 41 42 43	Travel speed (NL/RL) Lift speed Lower speed Cradeability Drawbar pull Brake Battery compartment typ Battery voltage (nominal of traction motors (dual) 60 Pump motor -15 minute Traction motors (type/contraction motors (type/contraction)	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL) Method of control (service/parking) Method of operation (service/parking) e capacity) O minute rating (each) rating introl method)	mph (kph) ft/min (m/sec) % % LBF LBF V/ah hp (kW)	Standard performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (0.91/106 (0.93/108) 35/24 12/8 4248/4148 1287/1257 Hydraulic/m Foot/autc Lithium 80/4: 13.4 (10) 21.5 (16) Dual AC/tr	PowerPlus performance 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) .51/0.57) 46/0.54) 47/0.55) 38/26 13/9 4588/4480 1390/1357 echanical omatic 1-ion 20 13.4 (10) 32.2 (24) ansistor
35 36 37 37 38 38 40 41 42 43 44	Travel speed (NL/RL) Lift speed Lower speed Gradeability Drawbar pull Brake Battery compartment typ Battery voltage (nominal Traction motors (dual) 60 Pump motor -15 minute Traction motors (type/control Pump motor (type/control	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) whethod of control (service/parking) Method of operation (service/parking) e capacity) O minute rating (each) rating introl method)	mph (kph) ft/min (m/sec) % % LBF LBF V/ah hp (kW)	Standard performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (0.91/106 (0.93/108) 35/24 12/8 4248/4148 1287/1257 Hydraulic/m Foot/autc Lithium 80/4: 13.4 (10) 21.5 (16)	PowerPlus performance 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) .51/0.57) 46/0.54) 47/0.55) 38/26 13/9 4588/4480 1390/1357 echanical omatic 1-ion 20 13.4 (10) 32.2 (24) ansistor
35 36 36 37 37 38 39 40 41 42 43 44 45	Travel speed (NL/RL) Lift speed Lower speed Gradeability Drawbar pull Brake Battery compartment typ Battery voltage (nominal Traction motors (dual) 60 Pump motor -15 minute Traction motors (type/contro) Number of speeds (traction Numb	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) whethod of control (service/parking) Method of operation (service/parking) e capacity) O minute rating (each) rating introl method)	mph (kph) ft/min (m/sec) % % LBF LBF V/ah hp (kW)	Standard performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (0.91/106 (0.93/108) 35/24 12/8 4248/4148 1287/1257 Hydraulic/m Foot/autc Lithium 80/4: 13.4 (10) 21.5 (16) Dual AC/tr	PowerPlus performance
35 36 36 37 37 38 39 40 41 42 43 44 45	Travel speed (NL/RL) Lift speed Lower speed Gradeability Drawbar pull Brake Battery compartment typ Battery voltage (nominal Traction motors (dual) 60 Pump motor -15 minute Traction motors (type/control Pump motor (type/control	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) whethod of control (service/parking) Method of operation (service/parking) e capacity) O minute rating (each) rating introl method)	mph (kph) ft/min (m/sec) % % LBF LBF V/ah hp (kW)	Standard performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (0.91/106 (0.93/108) 35/24 12/8 4248/4148 1287/1257 Hydraulic/m Foot/autc Lithium 80/4: 13.4 (10) 21.5 (16) Dual AC/trans	PowerPlus performance
35 36 36 37 37 38 39 40 41 42 43 44 45	Travel speed (NL/RL) Lift speed Lower speed Gradeability Drawbar pull Brake Battery compartment typ Battery voltage (nominal Traction motors (dual) 60 Pump motor -15 minute Traction motors (type/contro) Number of speeds (traction Numb	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) whethod of control (service/parking) Method of operation (service/parking) e capacity) O minute rating (each) rating introl method)	mph (kph) ft/min (m/sec) ft/min (m/sec) V/ah LBF LBF V/ah hp (kW) hp (kW)	Standard performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (0.91/106 (0.93/108 (0.35/24) 12/8 4248/4148 1287/1257 Hydraulic/m Foot/aute Lithium 80/42 13.4 (10) 21.5 (16) Dual AC/trans Infinitely variable/iii	PowerPlus performance
35 36 36 37 37 38 39 40 41 42 43 44 45	Travel speed (NL/RL) Lift speed Lower speed Gradeability Drawbar pull Brake Battery compartment typ Battery voltage (nominal Traction motors (dual) 60 Pump motor -15 minute Traction motors (type/contro Number of speeds (tracti Step height Floor height	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) S minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) Method of control (service/parking) Method of operation (service/parking) e capacity) O minute rating (each) rating introl method) ol method) on/pump)	mph (kph) ft/min (m/sec) ft/min (m/sec) V/ah LBF LBF V/ah hp (kW) hp (kW)	Standard performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (0.91/106 (0.93/108 (0.35/24) 12/8 4248/4148 1287/1257 Hydraulic/m Foot/autc Lithium 80/4: 13.4 (10) 21.5 (16) Dual AC/trans Infinitely variable/iii 18.7 (4	PowerPlus performance
35 36 36 37 37 38 39 40 41 42 42 43 44 45 46 47	Travel speed (NL/RL) Lift speed Lower speed Gradeability Drawbar pull Brake Battery compartment typ Battery voltage (nominal Traction motors (dual) 60 Pump motor -15 minute Traction motors (type/contro Number of speeds (tracti Step height Floor height Attachment relief pressur	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) Method of control (service/parking) Method of operation (service/parking) e capacity) O minute rating (each) rating mitrol method) on/pump)	mph (kph) ft/min (m/sec) *% % LBF LBF U/ah hp (kW) hp (kW) in (mm) in (mm)	Standard performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (0.93/108 (0.93/108 (0.93/108)) 35/24 12/8 4248/4148 1287/1257 Hydraulic/m Foot/auto Lithium 80/4: 13.4 (10) 21.5 (16) Dual AC/trans Infinitely variable/ii 18.7 (4.24.4 (6.24	PowerPlus performance 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) .51/0.57) 46/0.54) 47/0.55) 38/26 13/9 4588/4480 1390/1357 echanical omatic n-ion 20 13.4 (10) 32.2 (24) ansistor offinitely variable 475) 620) 155)

The following chargers are approved to use with the J60XNL lithium-ion battery: Posicharge ProCORE (80V) – 10kW, 15kW, 20kW, or 30kW single cable EcoTec Fast Charge Access (80V) – 80-500-32FC or 80-650-32FC

NL = no load, RL = rated load

Above specifications, unless otherwise listed, are for a standard truck without optional equipment. Right angle stack and equal intersecting aisle are calculated using a 40" wide pallet.

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 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.

SPECIFICATIONS

				11.	
_	Manufacturer Madal designation			Hyst	
	Model designation Power/voltage			J60X	
				Electric/8	
==	Operation		lle (lee)	Sit	
	Rated capacity		lb (kg)	6000 (2	,
	Load center		in (mm)	24 (6	,
	Tire type (std/opt)			Pneumatic/pneum	
	Tire size (drive/steer)		in	23x10-12	
_	Wheels - number X=driver	,	front/rear	2X/	
	Tread (center of tires) (sto	•	in (mm)	36.9/41.5/39.1 (
	Mast tilt (std/opt/opt) (for	•	degrees	5/5 10/	
	Mast - lowered height (sto	•	in (mm)	87 (21	,
13	Free lift - top of fork	Std 2 std limited free lift mast	in (mm)	5 (14	,
		Op 2 stg full free lift mast with/without LBR	in (mm)	37/60 (95	57/1540)
	Lift height - top of fork	Std 2 stg limited free lift mast	in (mm)	126 (3	3209)
_	• ,	td mast with/without LBR)	in (mm)	175/153 (44	444/3861)
	Overhead guard height		in (mm)	86.3 (2	2193)
		at depressed) (std/susp/air ride)	in (mm)	36.9/41.5/39.1 (938/1054/992)
	Tow pin height (vertical ce	enter of pin)	in (mm)	10.3 (262)
19	Overall width	Pneumatic tires (std/wide tread)	in (mm)	46.9/51.5 (1	192/1308)
		PSS tires (std/wide tread)	in (mm)	46.2/50.7 (1	,
	Forks (thickness x width x	(length)	in (mm)	2 x 4.9 x 42 (50	
	Standard carriage width		in (mm)	42 (10	067)
22	Ground clearance - lowest	t point (NL/RL)	in (mm)	3.9/3.3 ((98/83)
23	Ground clearance - center	of truck (NL/RL)	in (mm)	5.4/5.3 (1	137/134)
24	Load distance (center of v	wheel to face of forks)	in (mm)	16.4 (416)
25	Battery compartment	Height	in (mm)	12.6 (320)
		Width	in (mm)	29.1 (738)
		Length - nominal	Size	34	4
		Length - actual	in (mm)	39.4 (1	1000)
26	Length to face of forks		in (mm)	100.5 (2555)
27	Wheelbase		in (mm)	68.9 (1	1750)
28	Right angle stack		in (mm)	149.3 (3793)
29	Equal aisle (90° intersection	ng aisle)	in (mm)	81.7 (2	
30	Outside turing radius		in (mm)	84.2 (2	2139)
31	Truck weight (without batt	tery - no load)	lb (kg)	9540 (4	4340)
32	Ayle loading - drive - static	c with max weight battery (NL/RL)	lb (kg)	EC 4E (0ECC) /4	15150 (6886)
	Axic loading drive statis			5045 (Z500)/ I	
33		c with max weight battery (NL/RL)	lb (kg)	5630 (2559)/	
33		c with max weight battery (NL/RL)	lb (kg)	, ,	
		c with max weight battery (NL/RL)	lb (kg) mph (kph)	5630 (2559)/	/2125 (966)
34	Axle loading - steer - station	c with max weight battery (NL/RL) Std 2 stg LFL mast (NL/RL)		5630 (2559)/ Standard performance	/2125 (966) PowerPlus performance
34	Axle loading - steer - station Travel speed (NL/RL)	, ,	mph (kph)	5630 (2559)/ Standard performance 11.2/10.6 (18/17)	/2125 (966) PowerPlus performance 13/12.1 (21/19.5)
34	Axle loading - steer - station Travel speed (NL/RL)	Std 2 stg LFL mast (NL/RL)	mph (kph) ft/min (m/sec)	5630 (2559)/ Standard performance 11.2/10.6 (18/17) 116/65 (0.59/0.33)	/2125 (966) PowerPlus performance 13/12.1 (21/19.5) 124/83 (0.63/0.42)
34 35	Axle loading - steer - station Travel speed (NL/RL)	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL)	mph (kph) ft/min (m/sec) ft/min (m/sec)	5630 (2559)/ Standard performance 11.2/10.6 (18/17) 116/65 (0.59/0.33) 108/65 (0.55/0.33)	/2125 (966) PowerPlus performance 13/12.1 (21/19.5) 124/83 (0.63/0.42) 116/81 (0.59/0.41) 118/81 (0.60/0.41)
34 35	Axle loading - steer - station Travel speed (NL/RL) Lift speed	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL)	mph (kph) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec)	5630 (2559)/ Standard performance 11.2/10.6 (18/17) 116/65 (0.59/0.33) 108/65 (0.55/0.33) 112/65 (0.57/0.33)	/2125 (966) PowerPlus performance 13/12.1 (21/19.5) 124/83 (0.63/0.42) 116/81 (0.59/0.41) 118/81 (0.60/0.41) .46/0.56)
34 35	Axle loading - steer - station Travel speed (NL/RL) Lift speed	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL)	mph (kph) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec)	5630 (2559)/ Standard performance 11.2/10.6 (18/17) 116/65 (0.59/0.33) 108/65 (0.55/0.33) 112/65 (0.57/0.33) 91/110 (0.	/2125 (966) PowerPlus performance
34 35 36	Axle loading - steer - station Travel speed (NL/RL) Lift speed	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL)	mph (kph) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec)	5630 (2559)/ Standard performance 11.2/10.6 (18/17) 116/65 (0.59/0.33) 108/65 (0.55/0.33) 112/65 (0.57/0.33) 91/110 (0. 73/102 (0.	/2125 (966) PowerPlus performance
34 35 36	Axle loading - steer - station Travel speed (NL/RL) Lift speed Lower speed	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL)	mph (kph) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec)	5630 (2559)/ Standard performance 11.2/10.6 (18/17) 116/65 (0.59/0.33) 108/65 (0.55/0.33) 112/65 (0.57/0.33) 91/110 (0. 73/102 (0. 79/104 (0.	/2125 (966) PowerPlus performance
34 35 36 37	Axle loading - steer - station Travel speed (NL/RL) Lift speed Lower speed	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) 5 minute rating (NL/RL)	mph (kph) ft/min (m/sec)	5630 (2559)/ Standard performance 11.2/10.6 (18/17) 116/65 (0.59/0.33) 108/65 (0.55/0.33) 112/65 (0.57/0.33) 91/110 (0. 73/102 (0. 79/104 (0.	/2125 (966) PowerPlus performance
34 35 36 37	Axle loading - steer - stationary and speed (NL/RL) Lift speed Lower speed Gradeability	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL)	mph (kph) ft/min (m/sec) %	5630 (2559)/ Standard performance 11.2/10.6 (18/17) 116/65 (0.59/0.33) 108/65 (0.55/0.33) 112/65 (0.57/0.33) 91/110 (0. 73/102 (0. 79/104 (0. 34/22 11/7	/2125 (966) PowerPlus performance
34 35 36 37 38	Axle loading - steer - stationary and speed (NL/RL) Lift speed Lower speed Gradeability	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL) 5 minute rating (NL/RL)	mph (kph) ft/min (m/sec)	5630 (2559)/ Standard performance 11.2/10.6 (18/17) 116/65 (0.59/0.33) 108/65 (0.55/0.33) 112/65 (0.57/0.33) 91/110 (0. 73/102 (0. 79/104 (0. 34/22 11/7 4146/4037	/2125 (966) PowerPlus performance
34 35 36 37 38	Axle loading - steer - stationary steer - stationary speed (NL/RL) Lift speed Lower speed Gradeability Drawbar pull	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL)	mph (kph) ft/min (m/sec)	5630 (2559)/ Standard performance 11.2/10.6 (18/17) 116/65 (0.59/0.33) 108/65 (0.55/0.33) 112/65 (0.57/0.33) 91/110 (0. 73/102 (0. 79/104 (0. 34/22 11/7 4146/4037 1256/1226	/2125 (966) PowerPlus performance
34 35 36 37 37 38	Axle loading - steer - stationary steer - stationary speed (NL/RL) Lift speed Lower speed Gradeability Drawbar pull	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL) 5 minute rating (NL/RL) Method of control (service/parking) Method of operation (service/parking)	mph (kph) ft/min (m/sec)	5630 (2559)/ Standard performance 11.2/10.6 (18/17) 116/65 (0.59/0.33) 108/65 (0.55/0.33) 112/65 (0.57/0.33) 91/110 (0. 73/102 (0. 79/104 (0. 34/22 11/7 4146/4037 1256/1226 Hydraulic/m	/2125 (966) PowerPlus performance
34 35 36 37 38 39	Axle loading - steer - station Travel speed (NL/RL) Lift speed Lower speed Gradeability Drawbar pull Brake Battery compartment type	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) Method of control (service/parking) Method of operation (service/parking)	mph (kph) ft/min (m/sec)	5630 (2559)/ Standard performance 11.2/10.6 (18/17) 116/65 (0.59/0.33) 108/65 (0.55/0.33) 112/65 (0.57/0.33) 91/110 (0. 79/104 (0. 34/22 11/7 4146/4037 1256/1226 Hydraulic/m Foot/auth	/2125 (966) PowerPlus performance
34 35 36 37 38 39	Axle loading - steer - station Travel speed (NL/RL) Lift speed Lower speed Gradeability Drawbar pull Brake Battery compartment type Battery voltage (nominal of	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) 60 minute rating (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) Method of control (service/parking) Method of operation (service/parking)	mph (kph) ft/min (m/sec) % % LBF LBF	5630 (2559)/ Standard performance 11.2/10.6 (18/17) 116/65 (0.59/0.33) 108/65 (0.55/0.33) 112/65 (0.57/0.33) 91/110 (0. 73/102 (0. 79/104 (0. 34/22 11/7 4146/4037 1256/1226 Hydraulic/rr Foot/aut	/2125 (966) PowerPlus performance
34 35 36 37 38 39 40	Axle loading - steer - station Travel speed (NL/RL) Lift speed Lower speed Gradeability Drawbar pull Brake Battery compartment type Battery voltage (nominal of traction motors (dual) 60	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) 60 minute rating (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) Method of control (service/parking) Method of operation (service/parking) scapacity) minute rating (each)	mph (kph) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) % % LBF LBF V/ah hp (kW)	5630 (2559)/ Standard performance 11.2/10.6 (18/17) 116/65 (0.59/0.33) 108/65 (0.55/0.33) 112/65 (0.57/0.33) 91/110 (0. 73/102 (0. 79/104 (0. 34/22 11/7 4146/4037 1256/1226 Hydraulic/m Foot/aut Lithiun 80/4 13.4 (10)	/2125 (966) PowerPlus performance
34 35 36 37 38 39 40 41 42	Axle loading - steer - station Travel speed (NL/RL) Lift speed Lower speed Gradeability Drawbar pull Brake Battery compartment type Battery voltage (nominal of	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL) Method of control (service/parking) Method of operation (service/parking) Method of operation (service/parking) minute rating (each) rating	mph (kph) ft/min (m/sec) % LBF LBF	5630 (2559)/ Standard performance 11.2/10.6 (18/17) 116/65 (0.59/0.33) 108/65 (0.55/0.33) 112/65 (0.57/0.33) 91/110 (0. 73/102 (0. 79/104 (0. 34/22 11/7 4146/4037 1256/1226 Hydraulic/m Foot/aut Lithium 80/4 13.4 (10) 21.5 (16)	/2125 (966) PowerPlus performance
34 35 36 37 38 39 40 41 42 43	Axle loading - steer - station ravel speed (NL/RL) Lift speed Lower speed Gradeability Drawbar pull Brake Battery compartment type Battery voltage (nominal of Traction motors (dual) 60 Pump motor - 15 minute of Traction motors (type/com mo	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) Method of control (service/parking) Method of operation (service/parking) acapacity) minute rating (each) rating itrol method)	mph (kph) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) % % LBF LBF V/ah hp (kW)	5630 (2559)/ Standard performance 11.2/10.6 (18/17) 116/65 (0.59/0.33) 108/65 (0.55/0.33) 112/65 (0.57/0.33) 91/110 (0. 73/102 (0. 79/104 (0. 34/22 11/7 4146/4037 1256/1226 Hydraulic/rr Foot/aut Lithiun 80/4 13.4 (10) 21.5 (16) Dual AC/tr	/2125 (966) PowerPlus performance
34 35 36 37 38 39 40 41 42 43 44	Axle loading - steer - station ravel speed (NL/RL) Lift speed Lower speed Gradeability Drawbar pull Brake Battery compartment type Battery voltage (nominal of Traction motors (dual) 60 Pump motor - 15 minute in Traction motors (type/con Pump motor (type/control)	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) Method of control (service/parking) Method of operation (service/parking) minute rating (each) rating introl method) I method)	mph (kph) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec) % % LBF LBF V/ah hp (kW)	5630 (2559)/ Standard performance 11.2/10.6 (18/17) 116/65 (0.59/0.33) 108/65 (0.55/0.33) 112/65 (0.57/0.33) 91/110 (0. 73/102 (0. 79/104 (0. 34/22 11/7 4146/4037 1256/1226 Hydraulic/m Foot/aut Lithiun 80/4 13.4 (10) 21.5 (16) Dual AC/tra	/2125 (966) PowerPlus performance
34 35 36 37 38 38 39 40 41 42 43 44 45	Axle loading - steer - station ravel speed (NL/RL) Lift speed Lower speed Gradeability Drawbar pull Brake Battery compartment type Battery voltage (nominal of Traction motors (dual) 60 Pump motor - 15 minute of Traction motors (type/control Number of speeds (traction Number of speeds (traction Number of speeds (traction Number of speeds (traction name of speeds (traction Number of speeds (traction name of speeds	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) Method of control (service/parking) Method of operation (service/parking) minute rating (each) rating introl method) I method)	mph (kph) ft/min (m/sec) % % LBF LBF V/ah hp (kW) hp (kW)	5630 (2559)/ Standard performance 11.2/10.6 (18/17) 116/65 (0.59/0.33) 108/65 (0.55/0.33) 112/65 (0.57/0.33) 91/110 (0. 73/102 (0. 79/104 (0. 34/22 11/7 4146/4037 1256/1226 Hydraulic/m Foot/aut Lithiun 80/4 13.4 (10) 21.5 (16) Dual AC/tra Infinitely variable/ii	/2125 (966) PowerPlus performance
34 35 36 37 38 39 40 41 42 43 44 45 46	Axle loading - steer - station Travel speed (NL/RL) Lift speed Lower speed Gradeability Drawbar pull Brake Battery compartment type Battery voltage (nominal of the compartment) Traction motors (dual) 60 Pump motor - 15 minute Traction motors (type/control Number of speeds (traction Step height)	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) 5 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) Method of control (service/parking) Method of operation (service/parking) minute rating (each) rating introl method) I method)	mph (kph) ft/min (m/sec) % % LBF LBF LBF U/ah hp (kW) hp (kW) in (mm)	5630 (2559)/ Standard performance 11.2/10.6 (18/17) 116/65 (0.59/0.33) 108/65 (0.55/0.33) 112/65 (0.57/0.33) 91/110 (0. 73/102 (0. 79/104 (0. 34/22 11/7 4146/4037 1256/1226 Hydraulic/m Foot/aut Lithiun 80/4 13.4 (10) 21.5 (16) Dual AC/tra Infinitely variable/ii	/2125 (966) PowerPlus performance
34 35 36 37 38 39 40 41 42 43 44 45 46 47	Axle loading - steer - station Travel speed (NL/RL) Lift speed Lower speed Gradeability Drawbar pull Brake Battery compartment type Battery voltage (nominal of Traction motors (dual) 60 Pump motor - 15 minute Irraction motors (type/con Pump motor (type/control Number of speeds (traction Step height Floor height	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) Method of control (service/parking) Method of operation (service/parking) scapacity) minute rating (each) rating minute method) I method) I method) I method) I method)	mph (kph) ft/min (m/sec) % % LBF LBF LBF U/ah hp (kW) hp (kW) in (mm) in (mm)	5630 (2559)/ Standard performance 11.2/10.6 (18/17) 116/65 (0.59/0.33) 108/65 (0.55/0.33) 112/65 (0.57/0.33) 91/110 (0. 73/102 (0. 79/104 (0. 34/22 11/7 4146/4037 1256/1226 Hydraulic/m Foot/aut Lithiun 80/4 13.4 (10) 21.5 (16) Dual AC/tra Infinitely variable/i 18.7 (- 24.4 (i)	/2125 (966) PowerPlus performance
34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	Axle loading - steer - station Travel speed (NL/RL) Lift speed Lower speed Gradeability Drawbar pull Brake Battery compartment type Battery voltage (nominal of the compartment) Traction motors (dual) 60 Pump motor - 15 minute Traction motors (type/control Number of speeds (traction Step height)	Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Std 2 stg LFL mast (NL/RL) Opt 2 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) Opt 3 stg FFL mast (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) 60 minute rating (NL/RL) Method of control (service/parking) Method of operation (service/parking) sapacity) minute rating (each) rating triol method) I method) I method) I method)	mph (kph) ft/min (m/sec) % % LBF LBF LBF U/ah hp (kW) hp (kW) in (mm)	5630 (2559)/ Standard performance 11.2/10.6 (18/17) 116/65 (0.59/0.33) 108/65 (0.55/0.33) 112/65 (0.57/0.33) 91/110 (0. 73/102 (0. 79/104 (0. 34/22 11/7 4146/4037 1256/1226 Hydraulic/m Foot/aut Lithiun 80/4 13.4 (10) 21.5 (16) Dual AC/tra Infinitely variable/ii	/2125 (966) PowerPlus performance

The following chargers are approved to use with the J60XNL lithium-ion battery: Posicharge ProCORE (80V) – 10kW, 15kW, 20kW, or 30kW single cable EcoTec Fast Charge Access (80V) – 80-500-32FC or 80-650-32FC

NL = no load, RL = rated load

Above specifications, unless otherwise listed, are for a standard truck without optional equipment. Right angle stack and equal intersecting aisle are calculated using a 40" wide pallet.

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.

MAST DIMENSIONS AND BATTERY SPECIFICATIONS

J50-60	XNL MA	ST DIM	ENSION	S									
Maximum fork height (TOF) in (mm)		Overall lowered ht. in (mm)		Overall extended height w/ load backrest in (mm)		Overall extended height w/o load backrest in (mm)		Free-lift (TOF) w/load backrest in (mm)		Free-lift (TOF) w/o load backrest in (mm)		Truck weight lb (kg)	
J50XNL	J60XNL	J50XNL	J60XNL	J50XNL	J60XNL	J50XNL	J60XNL	J50XNL	J60XNL	J50XNL	J60XNL	J50XNL	J60XNL
	2-STAGE LIMITED FREE-LIFT (LFL) VISTA MAST												
133 (3392)	126 (3209)	87 (2192)	87 (2192)	182 (4622)	175 (4444)	156 (3956)	152 (3861)	5 (140)	5 (150)	5 (150)	5 (150)	9540 (4330)	10400 (4720)
141 (3592)	134 (3409)	91 (2292)	91 (2292)	190 (4822)	183 (4644)	164 (4156)	160 (4061)	5 (140)	5 (150)	5 (150)	5 (150)	9580 (4350)	10430 (4730)
					2-STAGE F	ULL FREE-	LIFT (FFL)	VISTA MA	ST				
133 (3402)	126 (3210)	87 (2192)	87 (2192)	183 (4632)	175 (4445)	157 (3966)	152 (3862)	37 (962)	37 (957)	60 (1540)	60 (1540)	9580 (4350)	10430 (4730)
141 (3602)	134 (3410)	91 (2292)	91 (2292)	191 (4832)	183 (4645)	164 (4166)	160 (4062)	41 (1062)	41 (1057)	64 (1640)	64 (1640)	9620 (4365)	10470 (4750)
				;	3-STAGE F	ULL FREE-	LIFT (FFL)	VISTA MA	ST				
183 (4650)	181 (4618)	81 (2042)	85 (2142)	232 (5880)	231 (5853)	205 (5196)	207 (5252)	32 (812)	35 (907)	59 (1508)	59 (1508)	9770 (4435)	10760 (4885)
189 (4800)	187 (4768)	83 (2092)	89 (2242)	238 (6030)	237 (6003)	211 (5346)	213 (5402)	33 (862)	39 (1007)	63 (1608)	63 (1608)	9790 (4445)	10810 (4905)
194 (4950)	193 (4918)	85 (2142)	91 (2292)	244 (6180)	243 (6153)	217 (5496)	219 (5552)	35 (912)	41 (1057)	65 (1658)	65 (1658)	9810 (4455)	10830 (4920)
200 (5100)	205 (5218)	89 (2242)	95 (2392)	250 (6330)	255 (6453)	223 (5646)	231 (5852)	41 (1062)	45 (1157)	69 (1758)	69 (1758)	9850 (4470)	10890 (4945)
206 (5250)	217 (5518)	91 (2292)	101 (2542)	256 (6480)	266 (6753)	229 (5796)	243 (6152)	41 (1112)	51 (1307)	75 (1908)	75 (1908)	9890 (4490)	11070 (5052)
212 (5250)		93 (2342)		261 (6630)		235 (5946)		43 (1112)				9920 (4505)	

The table below is a helpful guide to visualize the truck run time with different batteries in different applications. (Chart is 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

Note: Run time is from 100% to lift-lock out. Charge time is from lift-lock out to 100%. Charge times with * are limited to 1C charging (i.e. cannot charge faster than 1 hour).

J50XNL BATTERY RUN TIME							
APPLICATION	BATTERY SIZE						
AFFLICATION	33.6kWh	25.2kWh	16.8kWh				
Heavy	6h 30m	4h 45m	3h 15m				
Medium	9h 15m	7h 0m	4h 30m				
Light	12h 30m	9h 15m	6h 15m				

J60XNL BATTERY RUN TIME							
APPLICATION	BATTERY SIZE						
	33.6kWh	25.2kWh	16.8kWh				
Heavy	5h 15m	4h 0m	2h 30m				
Medium	7h 30m	5h 30m	3h 45m				
Light	10h 0m	7h 30m	5h 0m				

J50-60XNL BATTERY CHARGE TIME								
CHADCED CIZE		BATTERY SIZE						
CHARGER SIZE	33.6kWh	25.2kWh	16.8kWh					
30kW	1h 15m	1h 0m*	1h 0m*					
20kW	1h 45m	1h 15m	1h 0m*					
15kW	2h 15m	1h 45m	1h 15m					
10kW	3h 30m	2h 45m	1h 45m					
5kW	6h 45m	5h 15m	3h 30m					

FEATURES AND OPTIONS

PERFORMANCE	CTD	ADT
PERFORMANCE	STD	OPT
80V electrical system	Х	
33.6kWh (80V @ 420Ah) battery	Х	
25.2kWh (80V @ 315Ah) battery		Х
16.8kWh (80V @ 210Ah) battery		Х
Standard performance	Х	
Dual drive motors	Х	
Oil-cooled wet disc brakes	Х	
AC traction and pump motors (completely brushless)	Х	
Transistor drive and pump control	Х	
Advanced VSM (vehicle system manager)	Х	
Progressive thermal management system	Х	
"Zero turn" steer axle	Х	
Premium Performance Package		Х
DRIVE	STD	OPT
Pneumatic drive tire and steer tire	Х	
Solid pneumatic tires		X
Wide tread tires		Х
LIFT	STD	OPT
2-stage limited free lift (LFL) Hi-Vis™2 mast with maximum fork height of 126" (3209 mm)	Х	
Mast tilt option – 5° forward/5° back	Х	
2-stage full free lift (FFL) Hi-Vis™ mast		Х
3-stage full free lift (FFL) Hi-Vis™2 mast		Х
4-stage full free lift (FFL) Hi-Vis™ mast		Х
Mast tilt option – 10° forward/5° back		X
Mast tilt option – 5° forward/4° back		Х
HANDLING	STD	OPT
42" (1067 mm) wide class III hook-type carriage with 48" (1219 mm) high load backrest extension	х	
42" (1067 mm) long forks	x	
Carriage with integral sideshift		Х
Carriage with integral sideshifting fork positioner		Х
carriage with integral sideshifting fork positioner		
		х
Return to set tilt		X X
Return to set tilt Accumulator		
Return to set tilt Accumulator Load weight indicator		Х
Return to set tilt Accumulator Load weight indicator Hydraulic attachment extension tubes with or without quick		X X
Return to set tilt Accumulator Load weight indicator Hydraulic attachment extension tubes with or without quick Disconnect fittings	STD	x x x x
Return to set tilt Accumulator Load weight indicator Hydraulic attachment extension tubes with or without quick Disconnect fittings	STD X	x x x x
Return to set tilt Accumulator Load weight indicator Hydraulic attachment extension tubes with or without quick Disconnect fittings ERGONOMICS 12" steering wheel with integral spinner knob		x x x x
Return to set tilt Accumulator Load weight indicator Hydraulic attachment extension tubes with or without quick Disconnect fittings ERGONOMICS 12" steering wheel with integral spinner knob Non-suspension vinyl seat	х	x x x x
Return to set tilt Accumulator Load weight indicator Hydraulic attachment extension tubes with or without quick Disconnect fittings ERGONOMICS 12" steering wheel with integral spinner knob Non-suspension vinyl seat Automatic park brake	X X	x x x x
Return to set tilt Accumulator Load weight indicator Hydraulic attachment extension tubes with or without quick Disconnect fittings ERGONOMICS 12" steering wheel with integral spinner knob Non-suspension vinyl seat Automatic park brake MONOTROL® foot direction control	x x x	X X X
Return to set tilt Accumulator Load weight indicator Hydraulic attachment extension tubes with or without quick Disconnect fittings ERGONOMICS 12" steering wheel with integral spinner knob Non-suspension vinyl seat Automatic park brake MONOTROL® foot direction control TouchPoint mini levers with fully adjustable armrest	X X X	x x x
Return to set tilt Accumulator Load weight indicator Hydraulic attachment extension tubes with or without quick Disconnect fittings ERGONOMICS 12" steering wheel with integral spinner knob Non-suspension vinyl seat Automatic park brake MONOTROL® foot direction control TouchPoint mini levers with fully adjustable armrest On-demand power steering	x x x x	X X X
Return to set tilt Accumulator Load weight indicator Hydraulic attachment extension tubes with or without quick Disconnect fittings ERGONOMICS 12" steering wheel with integral spinner knob Non-suspension vinyl seat Automatic park brake MONOTROL® foot direction control TouchPoint mini levers with fully adjustable armrest On-demand power steering Power assist braking	x x x x x	X X X
Carriage with integral sideshifting fork positioner Return to set tilt Accumulator Load weight indicator Hydraulic attachment extension tubes with or without quick Disconnect fittings ERGONOMICS 12" steering wheel with integral spinner knob Non-suspension vinyl seat Automatic park brake MONOTROL® foot direction control TouchPoint mini levers with fully adjustable armrest On-demand power steering Power assist braking ADS (Auto Deceleration System) with regenerative braking Multifunction display	x x x x x x x	X X X
Return to set tilt Accumulator Load weight indicator Hydraulic attachment extension tubes with or without quick Disconnect fittings ERGONOMICS 12" steering wheel with integral spinner knob Non-suspension vinyl seat Automatic park brake MONOTROL® foot direction control TouchPoint mini levers with fully adjustable armrest On-demand power steering Power assist braking ADS (Auto Deceleration System) with regenerative braking	x x x x x x x	X X X
Return to set tilt Accumulator Load weight indicator Hydraulic attachment extension tubes with or without quick Disconnect fittings ERGONOMICS 12" steering wheel with integral spinner knob Non-suspension vinyl seat Automatic park brake MONOTROL® foot direction control TouchPoint mini levers with fully adjustable armrest On-demand power steering Power assist braking ADS (Auto Deceleration System) with regenerative braking Multifunction display Easy ingress/egress with low step height, floor and contoured handhold	X X X X X X X X X	x x x x
Return to set tilt Accumulator Load weight indicator Hydraulic attachment extension tubes with or without quick Disconnect fittings ERGONOMICS 12" steering wheel with integral spinner knob Non-suspension vinyl seat Automatic park brake MONOTROL® foot direction control TouchPoint mini levers with fully adjustable armrest On-demand power steering Power assist braking ADS (Auto Deceleration System) with regenerative braking Multifunction display Easy ingress/egress with low step height, floor and contoured handhold Operator convenience station	x x x x x x x x x x x x x x x x x x x	X X X
Return to set tilt Accumulator Load weight indicator Hydraulic attachment extension tubes with or without quick Disconnect fittings ERGONOMICS 12" steering wheel with integral spinner knob Non-suspension vinyl seat Automatic park brake MONOTROL® foot direction control TouchPoint mini levers with fully adjustable armrest On-demand power steering Power assist braking ADS (Auto Deceleration System) with regenerative braking Multifunction display Easy ingress/egress with low step height, floor and contoured handhold Operator convenience station Adjustable tilt steering column with low profile cowl for excellent visibility	x x x x x x x x x x x	X X X
Return to set tilt Accumulator Load weight indicator Hydraulic attachment extension tubes with or without quick Disconnect fittings ERGONOMICS 12" steering wheel with integral spinner knob Non-suspension vinyl seat Automatic park brake MONOTROL® foot direction control TouchPoint mini levers with fully adjustable armrest On-demand power steering Power assist braking ADS (Auto Deceleration System) with regenerative braking Multifunction display	x x x x x x x x x x x x x x x x x x x	X X X

Seatside power disconnect button Non-suspension seat (cloth) Full suspension seat (vinyl or cloth) Air-ride suspension seat (vinyl or cloth) Swivel seat, full suspension (vinyl or cloth) Seat side directional control Telescopic steering column with tilt memory LED and halogen work light packages LED dome/reading light LED brake/tail/back-up light packages Rear drive handle with integrated horn button Side view mirrors	X	X X X X X X
Full suspension seat (vinyl or cloth) Air-ride suspension seat (vinyl or cloth) Swivel seat, full suspension (vinyl or cloth) Seat side directional control Telescopic steering column with tilt memory LED and halogen work light packages LED dome/reading light LED brake/tail/back-up light packages Rear drive handle with integrated horn button		x x x x
Air-ride suspension seat (vinyl or cloth) Swivel seat, full suspension (vinyl or cloth) Seat side directional control Telescopic steering column with tilt memory LED and halogen work light packages LED dome/reading light LED brake/tail/back-up light packages Rear drive handle with integrated horn button		x x x
Swivel seat, full suspension (vinyl or cloth) Seat side directional control Telescopic steering column with tilt memory LED and halogen work light packages LED dome/reading light LED brake/tail/back-up light packages Rear drive handle with integrated horn button		X X X
Seat side directional control Telescopic steering column with tilt memory LED and halogen work light packages LED dome/reading light LED brake/tail/back-up light packages Rear drive handle with integrated horn button		x x
Telescopic steering column with tilt memory LED and halogen work light packages LED dome/reading light LED brake/tail/back-up light packages Rear drive handle with integrated horn button		Х
LED and halogen work light packages LED dome/reading light LED brake/tail/back-up light packages Rear drive handle with integrated horn button		
LED dome/reading light LED brake/tail/back-up light packages Rear drive handle with integrated horn button		х
LED brake/tail/back-up light packages Rear drive handle with integrated horn button		
Rear drive handle with integrated horn button		Х
•		Х
Side view mirrors		Х
Side view militors		х
Synchronous steering		х
Red (HI-VIS) ELR (emergency locking retractor) non-cinch seat belt		х
Red (HI-VIS) ELR (emergency locking retractor) non-cinch seat belt with start interlock		Х
Low mount display		Х
OPERATION	STD	OPT
Standard construction	X	
Black ELR non-cinch seat belt	Х	
Key switch start	х	
86.3" grid style overhead guard	Х	
3 function hydraulic control valve	х	
Fully integrated CANbus communication	Х	
Operator presence system (OPS)	х	
Static strap	Х	
Tow pin	х	
On-board software: program, test & diagnose; password protected	Х	
Electronic horn with integral relay (long life/no adjustments)	х	
4 function hydraulic control valve		Х
Front and top cab panels: includes front panel with wiper/washer and top panel		х
Keyless start (with auxiliary key switch)		Х
Audible reverse activated alarm		х
Visible amber strobe light - continuous activated, overhead guard mounted		Х
Impact monitor		х
Operator password		Х
Operator daily checklist		х
System monitor – hydraulic low fluid level indicator and hydraulic		х
Filter service indicator		х
		х
Fire extinguisher – 2.5 lb. dry chemical	х	
,		
IP54 sealed drive axle/motors with belly pan and side shields	Х	
IP54 sealed drive axle/motors with belly pan and side shields Outdoor protection/wash-down package	X X	
IP54 sealed drive axle/motors with belly pan and side shields Outdoor protection/wash-down package Front mud guards		Х
IP54 sealed drive axle/motors with belly pan and side shields Outdoor protection/wash-down package		x x
IP54 sealed drive axle/motors with belly pan and side shields Outdoor protection/wash-down package Front mud guards Tilt cylinder boots Hyster Reaction™	X	
IP54 sealed drive axle/motors with belly pan and side shields Outdoor protection/wash-down package Front mud guards Tilt cylinder boots Hyster Reaction™ SUPPLEMENTAL		х
IP54 sealed drive axle/motors with belly pan and side shields Outdoor protection/wash-down package Front mud guards Tilt cylinder boots Hyster Reaction™ SUPPLEMENTAL 12 month/2,000 hour full truck warranty	X STD	х
IP54 sealed drive axle/motors with belly pan and side shields Outdoor protection/wash-down package Front mud guards Tilt cylinder boots Hyster Reaction™ SUPPLEMENTAL 12 month/2,000 hour full truck warranty 36 month/6,000 hour powertrain warranty	X STD X	х
IP54 sealed drive axle/motors with belly pan and side shields Outdoor protection/wash-down package Front mud guards Tilt cylinder boots Hyster Reaction™ SUPPLEMENTAL 12 month/2,000 hour full truck warranty	X STD X	х





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