

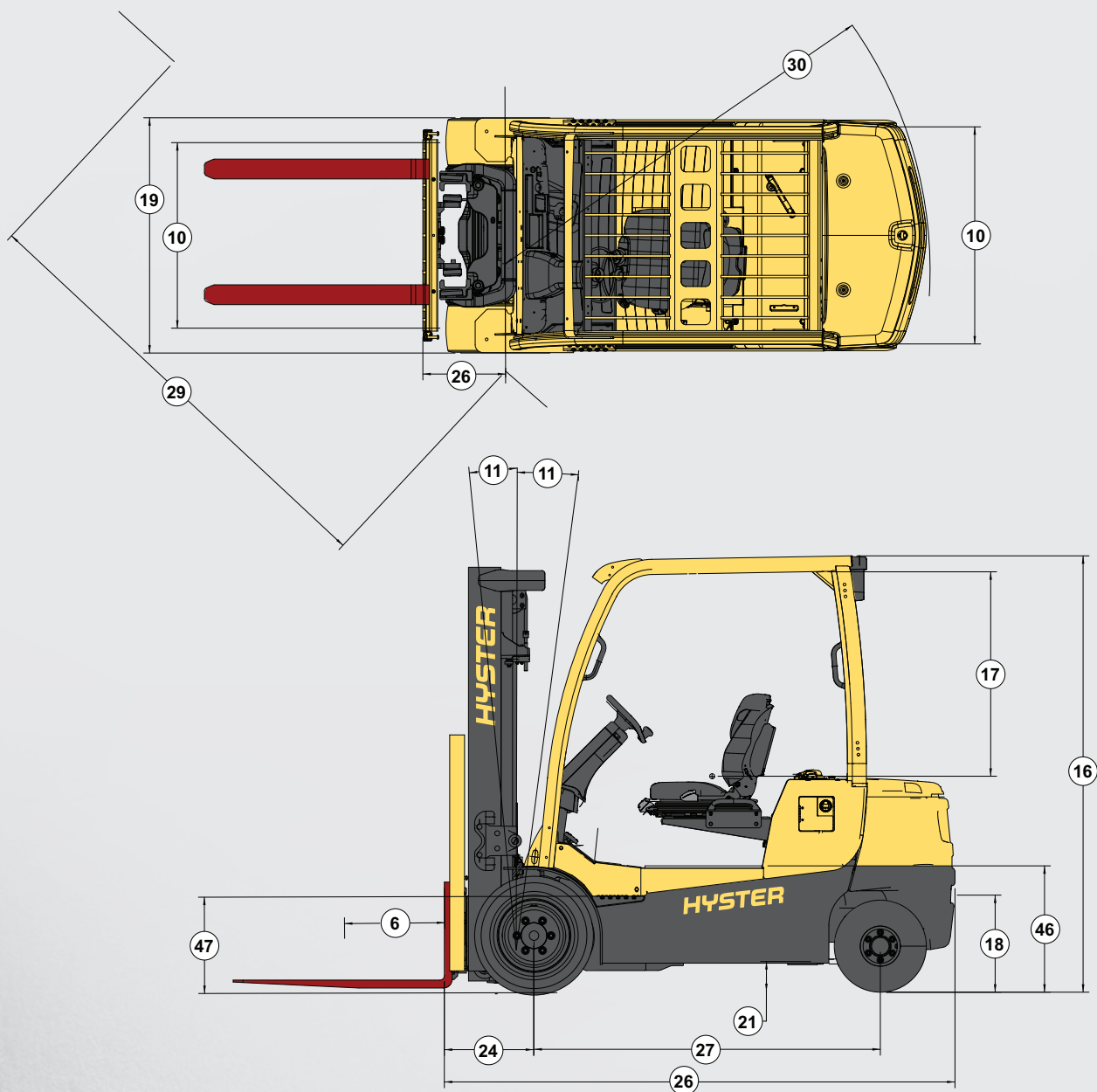


**STRONG PARTNERS.
TOUGH TRUCKS.™**

J50-60XNL INTEGRATED LITHIUM-ION TECHNICAL GUIDE

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> J50-60XNL DIMENSIONS



J50-60XNL MAST DIMENSIONS

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 FULL FREE-LIFT (FFL) VISTA MAST													
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 FULL FREE-LIFT (FFL) VISTA MAST													
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)	

J50-60XNL SPECIFICATIONS <

GENERAL	1	Manufacturer			Hyster		Hyster						
	2	Model Designation			J50XNL		J60XNL						
	3	Power/Voltage			Electric / 80 Volts		Electric / 80 Volts						
	4	Operation			Sit		Sit						
	5	Rated Capacity		lb (kg)	5000 (2268)		6000 (2722)						
	6	Load Center		in (mm)	24 (610)		24 (610)						
TIRES	7	Tire Type (Std/Opt)			Pneumatic / Pneumatic Shaped Solid		Pneumatic / Pneumatic Shaped Solid						
	8	Tire Size (Drive/Steer)		in	23x10-12 / 18x7-8		23x10-12 / 18x7-8						
	9	Wheels - Number X=Driven (Drive/Steer)		front/rear	2X/2		2X/2						
DIMENSIONS	10	Tread (Center of Tires) (Std Dr/Wide Dr/Steer)		in (mm)	36.9 / 41.5 / 39.1 (938 / 1054 / 992)		36.9 / 41.5 / 39.1 (938 / 1054 / 992)						
	11	Mast Tilt (Std / Opt / Opt) (forward/rearward)		degrees	5/5 10/5 5/6		5/5 10/5 5/6						
	12	Mast - Lowered Height (Std Mast)		in (mm)	87 (2192)		87 (2192)						
	13	Free Lift - Top of Fork		Std 2 Std Limited Free Lift Mast	in (mm)	5 (140)		5 (140)					
				Op 2 Stg Full Free Lift Mast with/without LBR	in (mm)	37 / 64 (962 / 1628)		37 / 60 (957 / 1540)					
	14	Lift Height - Top of Fork		Std 2 Stg Limited Free Lift Mast	in (mm)	133 (3392)		126 (3209)					
	15	Mast - Extended Height (Std Mast with/without LBR)		in (mm)	182 / 156 (4622 / 3956)		175 / 153 (4444 / 3861)						
	16	Overhead Guard Height		in (mm)	86.3 (2193)		86.3 (2193)						
	17	SIP to Bottom of OHG (Seat Depressed) (Std/Susp/Air Ride)		in (mm)	36.9 / 41.5 / 39.1 (938 / 1054 / 992)		36.9 / 41.5 / 39.1 (938 / 1054 / 992)						
	18	Tow Pin Height (Vertical Center of Pin)		in (mm)	10.3 (262)		10.3 (262)						
	19	Overall Width		Pneumatic Tires (Std/Wide Tread)	in (mm)	46.9 / 51.5 (1192 / 1308)		46.9 / 51.5 (1192 / 1308)					
				PSS Tires (Std/Wide Tread)	in (mm)	46.2 / 50.7 (1173 / 1289)		46.2 / 50.7 (1173 / 1289)					
	20	Forks (Thickness x Width x Length)		in (mm)	1.6 x 3.9 x 42 (40 x 100 x 1067)		2 x 4.9 x 42 (50 x 125 x 1067)						
	21	Standard Carriage Width		in (mm)	42 (1067)		42 (1067)						
	22	Ground Clearance - Lowest Point (NL/RL)		in (mm)	3.9 / 3.3 (98 / 83)		3.9 / 3.3 (98 / 83)						
	23	Ground Clearance - Center of Truck (NL/RL)		in (mm)	5.4 / 5.3 (137 / 134)		5.4 / 5.3 (137 / 134)						
	24	Load Distance (Center of Wheel to Face of Forks)		in (mm)	15.9 (404)		16.4 (416)						
	25	Battery Compartment		Height	in (mm)	12.6 (320)		12.6 (320)					
				Width	in (mm)	29.1 (738)		29.1 (738)					
				Length - Nominal	Size	34		34					
				Length - Actual	in (mm)	39.4 (1000)		39.4 (1000)					
	26	Length to Face of Forks		in (mm)	97 (2465)		100.5 (2555)						
	27	Wheelbase		in (mm)	68.9 (1750)		68.9 (1750)						
	28	Right Angle Stack		in (mm)	146.7 (3727)		149.3 (3793)						
	29	Equal Aisle (90° Intersecting Aisle)		in (mm)	80.5 (2045)		81.7 (2074)						
	30	Outside Turing Radius		in (mm)	81.6 (2073)		84.2 (2139)						
	WT.	31	Truck Weight (Without Battery - No Load)		lb (kg)	8680 (3945)		9540 (4340)					
		32	Axle Loading - Drive - Static with Max Weight Battery (NL/RL)		lb (kg)	4855 (2205) / 13270 (6020)		5645 (2566) / 15150 (6886)					
		33	Axle Loading - Steer - Static with Max Weight Battery (NL/RL)		lb (kg)	4680 (2125) / 1765 (800)		5630 (2559) / 2125 (966)					
	PERFORMANCE					Standard Performance	PowerPlus Performance	Standard Performance	PowerPlus Performance				
34		Travel Speed (NL / RL)		mph (kph)	11.2 / 11.2 (18 / 18)		13 / 13 (21 / 21)		11.2 / 10.6 (18 / 17)		13 / 12.1 (21 / 19.5)		
35		Lift Speed		Std 2 Stg LFL Mast (NL / RL)	ft/min (m/sec)	124 / 75 (0.63 / 0.38)		142 / 96 (0.72 / 0.49)		116 / 65 (0.59 / 0.33)		124 / 83 (0.63 / 0.42)	
				Opt 2 Stg FFL Mast (NL / RL)	ft/min (m/sec)	124 / 77 (0.63 / 0.39)		130 / 93 (0.66 / 0.47)		108 / 65 (0.55 / 0.33)		116 / 81 (0.59 / 0.41)	
				Opt 3 Stg FFL Mast (NL / RL)	ft/min (m/sec)	124 / 77 (0.63 / 0.39)		134 / 94 (0.68 / 0.48)		112 / 65 (0.57 / 0.33)		118 / 81 (0.60 / 0.41)	
36		Lower Speed		Std 2 Stg LFL Mast (NL / RL)	ft/min (m/sec)	100 / 112 (0.51 / 0.57)				91 / 110 (0.46 / 0.56)			
				Opt 2 Stg FFL Mast (NL / RL)	ft/min (m/sec)	91 / 106 (0.46 / 0.54)				73 / 102 (0.37 / 0.52)			
				Opt 3 Stg FFL Mast (NL / RL)	ft/min (m/sec)	93 / 108 (0.47 / 0.55)				79 / 104 (0.40 / 0.53)			
37		Gradeability		5 Minute Rating (NL / RL)	%	35 / 24		38 / 26		34 / 22		37 / 24	
				60 Minute Rating (NL / RL)	%	12 / 8		13 / 9		11 / 7		12 / 8	
38		Drawbar Pull		5 Minute Rating (NL / RL)	lbf	4248 / 4148		4588 / 4480		4146 / 4037		4477 / 4360	
				60 Minute Rating (NL / RL)	lbf	1287 / 1257		1390 / 1357		1256 / 1226		1357 / 1321	
39	Brake		Method of Control (Service/Parking)		Hydraulic / Mechanical				Hydraulic / Mechanical				
			Method of Operation (Service/Parking)		Foot / Automatic				Foot / Automatic				
ELECTRIC	40	Battery Compartment Type			Lithium-ion				Lithium-ion				
		Battery Voltage (Nominal Capacity)		V/ah	?				83 / 360				
	41	Traction Motors (Dual) 60 Minute Rating (each)		hp (kW)	13.4 (10)		13.4 (10)		13.4 (10)		13.4 (10)		
	42	Pump Motor - 15 Minute Rating		hp (kW)	21.5 (16)		32.2 (24)		21.5 (16)		32.2 (24)		
	43	Traction Motors (Type/Control Method)			Dual AC / Transistor				Dual AC / Transistor				
	44	Pump Motor (Type/Control Method)			AC / Transistor				AC / Transistor				
OTHER	45	Number of Speeds (Traction/Pump)			Infinitely Variable / Infinitely Variable				Infinitely Variable / Infinitely Variable				
	46	Step Height		in (mm)	18.7 (475)				18.7 (475)				
	47	Floor Height		in (mm)	24.4 (620)				24.4 (620)				
	48	Attachment Relief Pressure		psi (bar)	2250 (155)				2250 (155)				
	49	Auxiliary Oil Flow (3rd and 4th Function)		gal/min (l/min)	11 (40)				11 (40)				
	50	Sound Level (Measure per ANSI B56.11.5)		dB	63		65		63		65		

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

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.

STANDARD EQUIPMENT

30kW Lithium Ion Battery
2-stage limited free lift (LFL) Vista™ mast with maximum fork height of 126" (3209mm)
5° forward and 5° back mast tilt
42" (1067mm) wide Class III hook-type carriage with 48" (1219mm) high load backrest extension
42" (1067mm) long forks
Pneumatic drive tire and steer tire
Wheelbase – 68.9"
80-volt electrical system
Standard performance
Standard construction
Dual drive motors
Oil-cooled wet disc brakes
12" steering wheel with integral spinner knob
Non-suspension vinyl seat
Black ELR non-cinch seat belt
Automatic park brake
Key switch start
86.3" grid style overhead guard
MONOTROL™
3-function hydraulic control valve with TouchPoint hydraulic mini-levers with fully adjustable armrest
AC traction and pump motors (completely brushless)
Transistor drive and pump control
Advanced VSM (vehicle system manager)
Progressive thermal management system
Fully integrated CANbus communication
On-demand power steering
Hyster Stability System (HSS™)
Power assist braking
ADS (auto deceleration system) with regenerative braking
"Zero turn" steer axle
Multifunction display

- Battery state of charge with low battery lift interrupt
- Hour meter
- Performance mode indicator
- Fault indicator (audible & visible)
- 4 operator selectable, programmable performance modes

Low step height
Contoured handhold for entry/exit
Operator convenience station - storage areas, beverage & clipboard holders
Adjustable tilt steering column with low profile cowl
Operator presence system (OPS)
Anti-cinch operator restraint system
Cushioned floor mat
Static strap
Tow pin
Seatside power disconnect button
On-board software (program, test & diagnose; password protected)
Electronic horn with integral relay (long life / no adjustments)
24 month / 4,000 hour powertrain warranty
12 month / 2,000 hour full truck warranty
84 month / 12,000 hour lithium-ion battery warranty
Operating manual

OPTIONAL EQUIPMENT

PowerPlus performance
Available with 2-stage limited free lift (LFL) and 2- or 3-stage full free lift (FFL) Vista™ masts
Carriage with integral sideshift
Carriage with integral sideshifting fork positioner
Mast tilt option – 10° forward / 5° back
Mast tilt option – 5° forward / 6° back
Return to set tilt
Accumulator
4-function hydraulic control valve
Solid pneumatic tires
Wide tread tires
Non-suspension seat (cloth)
Full suspension seat (vinyl or cloth)
Air-ride suspension seat (vinyl or cloth)
Swivel seat, full suspension (vinyl or cloth)
Front and top cab panels: includes front panel with wiper / washer and top panel
Keyless start (with auxiliary key switch)
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
Audible reverse activated alarm
Visible amber strobe light - continuous activated, overhead guard mounted
Rear drive handle with integrated horn button
Mirrors – side view or panoramic
Load weight indicator
Impact monitor
Operator password
Operator daily checklist
System monitor – hydraulic low fluid level indicator and hydraulic filter service indicator
Hydraulic attachment extension tubes with or without quick disconnect fittings
Fire extinguisher – 2.5 lb. dry chemical
Synchronous steering
Red (HI-VIS) ELR (emergency locking retractor) non-cinch seat belt
Red (HI-VIS) ELR (emergency locking retractor) non-cinch seat belt with start interlock
Low mount display
IP54 sealed drive axle/motors with belly pan and side shields
Outdoor protection / wash-down package
Front mud guards
Tilt cylinder boots



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Part No. J50-60XNL/TG
4/2020 Litho in U.S.A.

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