

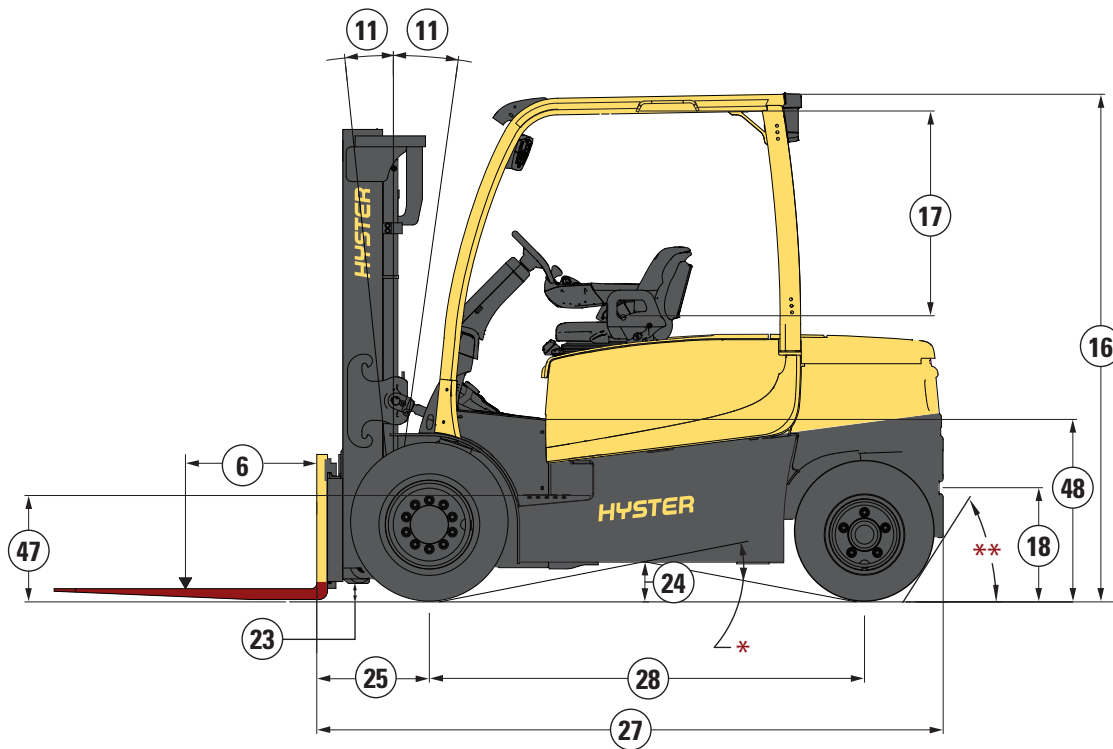
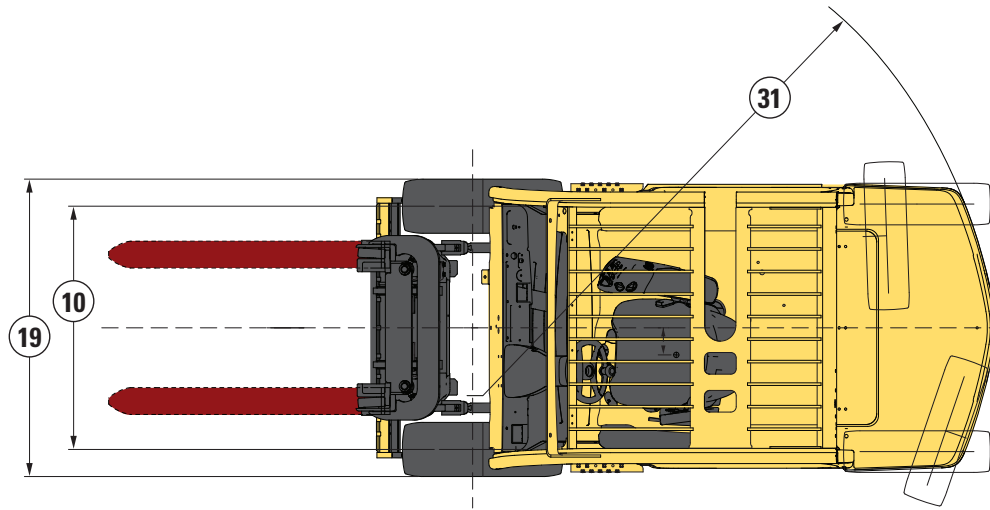
J80-120XN SERIES



**4-WHEEL ELECTRIC FORKLIFT
TRUCK PNEUMATIC TIRE**
PRODUCT TECHNICAL GUIDE



J80-120XN DIMENSIONS



* Ground Clearance Grade
 VBE = 20.5° / HBE = 18.8° (J80XN, J90XN, J100XN)
 VBE = 19.1° / HBE = 17.4° (J100XNL, J110XN, J120XN)

** Counterweight Angle
 61° (J80XN, J90XN, J100XN)
 75° (J100XNL, J110XN, J120XN)

VBE = Vertical Battery Extraction | HBE = Horizontal Battery Extraction

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

J80-100XN SPECIFICATIONS

GENERAL	1				Hyster		
	2				J80XN	J90XN	J100XN
	3				Electric/80-volts	Electric/80-volts	Electric/80-volts
	4				Sit		
	5		lb (kg)	8000 (3629)	9000 (4082)	10000 (4536)	
	6		in (mm)	24 (610)	24 (610)	24 (610)	
TIRES	7		Std/opt	Pneumatic/pneumatic shaped solid			
	8		in	250x15 20 ply/ 7.00x12 16 ply	250x15 20 ply/ 7.00x12 16 ply	28 x12.5-15 24 ply/ 7.00x12 16 ply	
	9		Drive/steer	2x/2	2x/2	2x/2	
	10				See tread chart on page 5		
DIMENSIONS	11		Std opt opt	degrees	6f/6b	6f/8b	6f/4b
	12		Std mast	in (mm)	92 (2320)	92 (2320)	92 (2320)
	13		Std 2-stg limited free lift mast	in (mm)	5 (150)	5 (150)	5 (150)
	14		Std 2-stg limited free lift mast	in (mm)	131 (3350)	131 (3350)	121 (3090)
	15		Std mast with/without LBR	in (mm)	181/162 (4591/4109)	181/162 (4591/4109)	172/159 (4364/4030)
	16			in (mm)	92 (2338)	92 (2338)	92 (2338)
	17		Std/susp/swivel	in (mm)	38.5/39.1/38.5 (977/992/978)	38.5/39.1/38.5	38.5/39.1/38.5
	18		Vertical center of pin	in (mm)	20.7 (526)	20.7 (526)	20.7 (526)
	19				See overall width chart on page 5		
	20		Thickness x width x length	in (mm)	2.0x4.9x48 (50x125x1219)	2.0x5.9x48 (50x150x1219)	2.0x5.9x48 (50x150x1219)
	21		Class III (8000-9000 lb) Class IV (10000 -12000 lb)	in (mm)	48 (1219)	48 (1219)	48 (1219)
	23				See ground clearance chart on page 5		
	24		NL/RL	in (mm)	Vertical battery extraction 7.2/7.0 (183/177) Horizontal battery extraction 6.6/6.3 (167/161)		
	25		Center of wheel to face of forks	in (mm)	20.6 (523)	20.6 (523)	22.9 (581)
	26a		w/vertical battery removal	in (mm)	31.8 (808)	31.8 (808)	31.8 (808)
	26b			in (mm)	40.8 (1037)	40.8 (1037)	40.8 (1037)
	26c		Nominal (std/opt)	size	40/34	40/34	40
	26d		Actual (std/opt)	in (mm)	39.6/33.8 (1006/859)	39.6/33.8 (1006/859)	39.6 (1006)
	27		Chassis length	in (mm)	114.5 (2908)	114.5 (2908)	116.8 (2966)
28			in (mm)	79.5 (2020)	79.5 (2020)	79.5 (2020)	
29			in (mm)	163.9 (4164)	163.9 (4164)	166.2 (4222)	
30		90° intersecting aisle	in (mm)	91.4 (2322)	91.4 (2322)	91.9 (2334)	
31			in (mm)	94.9 (2411)	94.9 (2411)	94.9 (2411)	
WT.	32		NL	lb (kg)	11080 (5026)	11390 (5166)	12220 (5543)
	33		NL/RL	lb (kg)	8791/21276 (3988/9651)	8912/22958 (4042/10414)	9341/25235 (4237/11446)
	34		NL/RL	lb (kg)	7687/3201 (3487/1452)	7870/2824 (3570/1281)	8272/2378 (3752/1079)
STANDARD PERFORMANCE							
PERFORMANCE	35a		NL/RL	mph (km/h)	11.0/9.9 (17.7/15.9)	10.7/9.5 (17.2/15.3)	10.4/9.4 (16.7/15.1)
	35b		NL/RL	mph (km/h)	13.0/12.4 (21.0/20.0)	13.0/12.4 (21.0/20.0)	13.0/12.4 (21.0/20.0)
	36a		NL/RL	ft/min (m/sec)	118/87 (0.60/0.44)	118/87 (0.60/0.44)	93/71 (0.47/0.36)
	36b		NL/RL	ft/min (m/sec)	107/78 (0.542/0.398)	107/78 (0.542/0.398)	87/67 (0.444/0.34)
	36c		NL/RL	ft/min (m/sec)	110/81 (0.56/0.411)	110/81 (0.56/0.411)	89/68 (0.452/0.346)
	36d		NL/RL	ft/min (m/sec)	118/87 (0.60/0.44)	118/87 (0.60/0.44)	93/71 (0.47/0.36)
	36e		NL/RL	ft/min (m/sec)	107/78 (0.542/0.398)	107/78 (0.542/0.398)	87/67 (0.444/0.34)
	36f		NL/RL	ft/min (m/sec)	110/81 (0.56/0.411)	110/81 (0.56/0.411)	89/68 (0.452/0.346)
	37a		NL/RL	ft/min (m/sec)	94/104 (0.48/0.53)	94/104 (0.48/0.53)	73/89 (0.37/0.45)
	37b		NL/RL	ft/min (m/sec)	75/91 (0.38/0.46)	75/91 (0.38/0.46)	57/81 (0.29/0.41)
	37c		NL/RL	ft/min (m/sec)	77/98 (0.39/0.50)	77/98 (0.39/0.50)	63/87 (0.32/0.44)
	38a		NL/RL	%	23/15.6	22.7/14.9	22.2/14.1
	38b		NL/RL	%	8.4/5.8	8.3/5.5	8.1/5.2
	39a		NL/RL	LBF	3985/3867	4025/3908	4022/3907
39b		NL/RL	LBF	1475/1444	1493/1460	1490/1458	
40a		Service/parking		Hydraulic/spring applied			
40b		Service/parking		Foot/automatic			
41				Lead acid Thin Plate Pure Lead* Lithium-ion*			
42		Each	hp (kW)	19.7 (14.7)	19.7 (14.7)	19.7 (14.7)	
43			hp (kW)	48.3 (36)	48.3 (36)	48.3 (36)	
44				Dual AC/transistor			
45				AC/transistor			
46				Infinitely variable/infinitely variable			
OTHER	47		in (mm)	19.3 (490)	19.3 (490)	19.3 (490)	
	48		in (mm)	33.1 (840)	33.1 (840)	33.1 (840)	
	49			psi (bar)	2250 (155)	2250 (155)	2250 (155)
	50			gal/min (l/min)	16 (60)	16 (60)	16 (60)
	51a			dB (a)	68	68	68
51b			dB (a)	69	69	69	

* Optional with Hyster Power Collect™

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.

J100XNL-J120XN SPECIFICATIONS

GENERAL				Hyster				
1		Manufacturer		J100XNL	J110XN	J120XN		
2		Model designation		Electric/80-volts				
3		Power/voltage		Sit				
4		Operation		Sit				
5		Rated capacity	lb (kg)	10000 (4536)	11000 (4990)	12000 (5443)		
6		Load center	in (mm)	24 (610)	24 (610)	24 (610)		
7		Tire type - cushion, solid, pneumatic, etc.	Std/opt	Pneumatic shaped solid				
8		Tire size (standard)	Drive/steer	355/50-15/28 x 9-15				
9		Wheels - number	X=driven	2x/2	2x/2	2x/2		
10		Tread (drive/steer)		See tread chart on page 5				
11		Mast tilt	Std opt opt	degrees	6f/6b	6f/8b	6f/4b	
12		Mast - lowered height	Std mast	in (mm)	92 (2320)	92 (2320)	92 (2320)	
13		Free lift - top of fork	Std 2-stg limited free lift mast	in (mm)	5 (150)	5 (150)	6 (160)	
14		Lift height - top of fork	Std 2-stg limited free lift mast	in (mm)	121 (3090)	121 (3090)	122 (4000)	
15		Mast - extended height	Std mast with/without LBR	in (mm)	172/159 (4364/4030)	172/159 (4364/4030)	172/159 (4364/4030)	
16		Overhead guard height		in (mm)	92 (2338)	92 (2338)	92 (2338)	
17		Sip to bottom of OHG	Seat depressed	Std/susp/swivel	38.5/39.1/38.5 (977/992/978)			
18		Tow pin height	Vertical center of pin	in (mm)	20.7 (526)	20.7 (526)	20.7 (526)	
19		Overall width (drive tires)		See overall width chart on page 5				
20		Forks	Thickness x width x length	in (mm)	2.0x5.9x48 (50x150x1219)	2.0x5.9x48 (50x150x1219)	2.4x5.9x48 (60x150x1219)	
21		Standard carriage width	Class III (8000-9000 lb) Class IV (10000 -12000 lb)	in (mm)	48 (1219)	48 (1219)	48 (1219)	
22		Ground clearance	Lowest point	See ground clearance chart on page 5				
23		Ground clearance	Center of truck	Nl/RL	Vertical battery extraction 7.2/7.0 (183/177) Horizontal battery extraction 6.6/6.3 (167/161)			
24		Load distance	Center of wheel to face of forks	in (mm)	22.9 (581)	22.9 (581)	23.3 (591)	
25		Battery compartment	Height	w/vertical battery removal	in (mm)	31.8 (808)	31.8 (808)	
26a			Width		in (mm)	40.8 (1037)	40.8 (1037)	
26b				Nominal (std/opt)	size	40	40	
26c				Actual (std/opt)	in (mm)	39.6 (1006)	39.6 (1006)	
26d			Length		in (mm)	123.1 (3126)	123.1 (3126)	
27		Length to face of forks	Chassis length	in (mm)	123.1 (3126)	123.1 (3126)	123.5 (3136)	
28		Wheelbase		in (mm)	85.8 (2180)	85.8 (2180)	85.8 (2180)	
29		Right angle stack		in (mm)	172.5 (4381)	172.5 (4381)	172.9 (4391)	
30		Equal aisle	90° Intersecting aisle	in (mm)	96.0 (2439)	96.0 (2439)	96.1 (2441)	
31		Outside turning radius		in (mm)	101.3 (2573)	101.3 (2573)	101.3 (2573)	
32		Truck weight	Without battery	NL	lb (kg)	13710 (6219)	13930 (6319)	14510 (6582)
33		Axle loading - drive	Static with max. wt. battery	NL/RL	lb (kg)	9816/25354 (4452/11500)	9839/26931 (4463/12216)	10118/28726 (4589/13030)
34		Axle loading - steer	Static with max. wt. battery	NL/RL	lb (kg)	9287/3750 (4213/1701)	9485/3393 (4302/1539)	9789/3180 (4440/1442)
STANDARD PERFORMANCE								
35a		Travel speed	Extended shift on	NL/RL	mph (km/h)	11.6/9.1 (18.7/14.7)	11.6/9.0 (18.7/14.5)	11.6/9.0 (18.7/14.5)
35b			Extended shift off	NL/RL	mph (km/h)	13.0/12.4 (21.0/20.0)	13.0/12.4 (21.0/20.0)	13.0/12.1 (21.0/19.5)
36a		Lift speed, extended shift on	Std 2-stg LFL mast	NL/RL	ft/min (m/sec)	91/61 (.46/.31)	91/59 (.46/.30)	91/59 (.46/.30)
36b			Opt 2-stg FFL mast	NL/RL	ft/min (m/sec)	83/59 (.422/.30)	83/58 (.422/.295)	83/58 (.422/.295)
36c			Opt 3-stg FFL mast	NL/RL	ft/min (m/sec)	85/60 (.434/.303)	85/58 (.434/.297)	85/58 (.434/.297)
36d		Lift speed, extended shift off	Std 2-stg LFL mast	NL/RL	ft/min (m/sec)	96/69 (.49/.35)	96/67 (.49/.34)	96/65 (.49/.33)
36e			Opt 2-stg FFL mast	NL/RL	ft/min (m/sec)	89/66 (.452/.334)	89/65 (.452/.33)	89/64 (.452/.325)
36f			Opt 3-stg FFL mast	NL/RL	ft/min (m/sec)	91/67 (.464/.339)	91/66 (.464/.333)	91/64 (.464/.327)
37a		Lower speed	Std 2-stg LFL mast	NL/RL	ft/min (m/sec)	71/91 (.36/.46)	71/91 (.36/.46)	71/91 (.36/.46)
37b			Opt 2-stg FFL mast	NL/RL	ft/min (m/sec)	55/83 (.28/.42)	55/83 (.28/.42)	55/83 (.28/.42)
37c			Opt 3-stg FFL mast	NL/RL	ft/min (m/sec)	61/89 (.31/.45)	61/89 (.31/.45)	61/89 (.31/.45)
38a		Gradeability	5 minute rating	NL/RL	%	21.9/14.3	21.5/13.7	21.0/13.0
38b			60 minute rating	NL/RL	%	4.7/3.2	4.6/3.0	4.5/2.9
39a		Drawbar pull	5 minute rating	NL/RL	LBF	4020/3898	4020/3895	4018/3892
39b			60 minute rating	NL/RL	LBF	1485/1451	1484/1448	1483/1445
40a		Brake	Method of control	Service/parking	Hydraulic/spring applied			
40b			Method of operation	Service/parking	Foot/automatic			
41		Battery	Type	Lead acid Thin Plate Pure Lead* Lithium-ion*				
42		Traction motors (dual)	60 minute rating	Each	Hp (kW)	19.7 (14.7)	19.7 (14.7)	19.7 (14.7)
43		Pump motor	15 minute rating		Hp (kW)	48.3 (36)	48.3 (36)	48.3 (36)
44		Traction motors	Type/control method	Dual AC/transistor				
45		Pump motor	Type/control method	AC/transistor				
46		Number of speeds	Traction/pump	Infinitely variable/infinitely variable				
47		Step height		in (mm)	19.3 (490)	19.3 (490)	19.3 (490)	
48		Floor height		in (mm)	33.1 (840)	33.1 (840)	33.1 (840)	
49		Attachment relief pressure		psi (bar)	2250 (155)	2250 (155)	2250 (155)	
50		Auxiliary oil flow	3rd and 4th function	gal/min (l/min)	16 (60)	16 (60)	16 (60)	
51a		Sound level(measured per ANSI B56.11.5)	Extended shift on	dB (a)	68	68	68	
51b			Extended shift off	dB (a)	69	69	69	

* Optional with Hyster Power Collect™

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.

TREAD (DRIVE AND STEER TIRES)

Tire type	Drive tire/steer tire	J80XN	J90XN	J100XN	J100XNL	J110XN	J120XN
		in (mm)					
Pneumatic tire	250x15 20 Ply/7.00x12 16 Ply	44.2/45.0 (1123/1143)		N/A		N/A	
PSS tires	250x15-7.5/7.00x12/5.0	44.2/45.0 (1123/1143)		N/A		N/A	
Pneumatic tire	28x12.5-15 24 Ply/7.00x12 16 Ply	45.9/45.0 (1167/1143)				N/A	
PSS tires	355/50-15/7.00x12/5.0	45.9/45.0 (1167/1143)				N/A	
Pneumatic tire (dual drive)	7.00x15 14 Ply/7.00x12 16 Ply	60.1/45.0 (1526/1143)				N/A	
PSS tires (dual drive)	7.00x15-5.5/7.00x12/5.0	60.1/45.0 (1526/1143)				N/A	
PSS tires	355/50-15/28x9-15		N/A			45.9/45.0 (1167/1143)	
PSS tires (dual drive)	700x15/5.5/28x9-15		N/A			60.1/45.0 (1526/1143)	

OVERALL WIDTH (DRIVE TIRES)

Tire type	Drive tire	J80XN	J90XN	J100XN	J100XNL	J110XN	J120XN
		in (mm)					
Pneumatic tires	250x15 20 Ply	54.1 (1373)		N/A		N/A	
PSS tires	250x15-7.5	54.7 (1388)		N/A		N/A	
Pneumatic tires	28x12.5-15 24 Ply	58.0 (1472)				N/A	
PSS tires	355/50-15	57.1 (1451)				57.1 (1451)	
Pneumatic tires (dual drive)	7.00x15 14 Ply	67.9 (1724)				N/A	
PSS tires (dual drive)	7.00x15-5.5	68.5 (1739)				68.5 (1739)	

GROUND CLEARANCE (LOWEST POINT)

	J80XN	J90XN	J100XN	J100XNL	J110XN	J120XN
	NL/RL in (mm)					
250x15 20 Ply	5.7/4.9 (144/125)		N/A		N/A	
250x15-7.5	5.6/5.1 (141/130)		N/A		N/A	
28x12.5-15 24 Ply	5.8/5.0 (148/128)				N/A	
355/50-15	5.6/5.3 (143/135)				5.6/5.3 (143/135)	
7.00x15 14 Ply (Dual Drive)	6.1/5.3 (156/135)				N/A	
7.00x15-5.5 (Dual Drive)	5.7/5.3 (145/135)				5.7/5.3 (145/135)	

BATTERY AND COMPARTMENT SPECIFICATIONS

BATTERY COMPARTMENT DIMENSIONS				BATTERY DIMENSIONS AND SPECIFICATIONS							
Truck model	Width	Length	Height	"X"	"Y"	"Z"	Volts	No. of cells	Max capacity 6 hr rate amp Hr (kWh)	Weight	
	in (mm)			in (mm)						Min	Max
lb (kg)											
J80-120XN 40" Compartment	40.8 (1037)	39.6 (1006)	31.8 (808)	40.6 (1030)	39.4 (1000)	31.4 (798)	80	40	840 (65.2)	4600 (2080)	5400 (2440)
J80-90XN 34" Compartment	40.8 (1037)	33.8 (859)	31.8 (808)	40.6 (1030)	33.1 (840)	31.4 (798)	80	40	700 (54.3)	4400 (1991)	5100 (2319)

Battery type: "EO" (without cover)

Max allowable battery capacity per UL is 1000 amp hr (77.6 kwh)

Commercially available lead acid batteries may not necessarily reach these max limits

34" compartment achieved by use of a front compartment spacer - reduces compartment length from 39.6" to 33.8"

Allows use of 31.5" - 33" (800 - 840 mm) battery in the 40" (1006 mm) battery compartment

Battery compartment length is measured front to rear. Battery compartment width is measured across the truck.

Battery notes - Conventional Charging (BCSSBC)

Battery connector: 80-volt - black SBE®320

Anderson Power Products® P/N E6363G2 (3/0 AWG), E6363G3 (4/0 AWG) or equivalent

Battery lead: Length 20" (508 mm), position "A", minimum cable size 3/0 AWG

Handle (not required): SB®350 and SBE®320 (Anderson Power Products®: "A" TYPE (Grey) P/N 995G2 or equivalent)

Battery notes - Premium, Fully Integrated "Quick Connect" Rapid/Fast Charging (BARFBC)

NOTE: A site survey is required to confirm your application is a candidate for Rapid Charge and to determine the battery and charger specifications required. Contact your battery and charger supplier.

Battery connector: Requires positive/negative cabling terminating in (1) female EBC-320 DIN connector

Anderson Power Products® P/N E32595-00X9 (3/0 AWG), A32504-00X9 (4/0 AWG) or equivalent. (X = Auxiliary Contacts)

DIN connector to include 1 red conductor to (+) and 1 black conductor to (-)

Battery lead: Length 20" (508 mm), position "A", minimum cable size 3/0 AWG

J80-120XN MAST DIMENSIONS

J80-90XN MAST DIMENSIONS					
Maximum fork height (TOF)	Overall lowered height	Overall extended height with load backrest	Overall extended height without load backrest	Free lift (TOF) with load backrest	Free lift (TOF) without load backrest
in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)
2-STAGE LIMITED FREE LIFT (LFL) VISTA™ MAST					
131 (3350)	92 (2320)	181 (4591)	162 (4109)	5 (150)	5 (150)
143 (3650)	98 (2470)	193 (4891)	174 (4409)	5 (150)	5 (150)
167 (4250)	110 (2770)	217 (5491)	198 (5009)	5 (150)	5 (150)
2-STAGE FULL FREE LIFT (FFL) VISTA™ MAST					
132 (3375)	92 (2320)	182 (4622)	165 (4187)	42 (1079)	59 (1514)
144 (3675)	98 (2470)	194 (4922)	177 (4487)	48 (1229)	65 (1664)
3-STAGE FULL FREE LIFT (FFL) VISTA™ MAST					
185 (4715)	90 (2270)	235 (5962)	218 (5527)	40 (1029)	57 (1464)
194 (4950)	94 (2370)	244 (6197)	227 (5762)	44 (1129)	61 (1564)
206 (5250)	98 (2470)	256 (6497)	239 (6062)	48 (1229)	65 (1664)
218 (5550)	102 (2570)	268 (6797)	251 (6362)	52 (1329)	69 (1764)
236 (6000)	110 (2770)	286 (7247)	269 (6812)	60 (1529)	77 (1964)


J100-120XN MAST DIMENSIONS					
Maximum fork height (TOF)	Overall lowered height	Overall extended height with load backrest	Overall extended height without load backrest	Free lift (TOF) with load backrest	Free lift (TOF) without load backrest
in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)
2-STAGE LIMITED FREE LIFT (LFL) VISTA™ MAST					
121 (3090)	92 (2320)	172 (4364)	159 (4030)	5 (150)	5 (150)
133 (3390)	98 (2470)	184 (4664)	171 (4330)	5 (150)	5 (150)
157 (3990)	110 (2770)	208 (5264)	195 (4930)	5 (150)	5 (150)
2-STAGE FULL FREE LIFT (FFL) VISTA™ MAST					
122 (3115)	92 (2320)	173 (4389)	162 (4107)	41 (1052)	52 (1334)
134 (3415)	98 (2470)	185 (4689)	174 (4407)	47 (1202)	58 (1484)
3-STAGE FULL FREE LIFT (FFL) VISTA™ MAST					
174 (4437)	90 (2270)	225 (5711)	214 (5429)	39 (996)	50 (1278)
184 (4690)	94 (2370)	235 (5964)	224 (5682)	43 (1096)	54 (1378)
196 (4990)	98 (2470)	247 (6264)	236 (5982)	47 (1196)	58 (1478)
208 (5290)	102 (2570)	259 (6564)	248 (6282)	51 (1296)	62 (1578)

PERFORMANCE	STD	OPT
80-volt electrical system	x	
AC traction and pump motors (completely brushless)	x	
Transistor drive and pump control	x	
Advanced VSM (Vehicle System Manager)	x	
Dual drive motors	x	
Wet disc brakes	x	
Regenerative braking	x	
"Zero Turn" steer axle	x	
DRIVE	STD	OPT
Pneumatic drive & steer tires (J80-100XN)	x	
Pneumatic shaped solid drive & steer tires (J100XN, J110-120XN)	x	
Pneumatic shaped solid drive & steer tires (J80-100XN)		x
Dual drive tires		x
LIFT	STD	OPT
2-stage limited free lift (LFL) mast with maximum fork height of 131" (J80-90XN)	x	
2-stage limited free lift (LFL) mast with maximum fork height of 121" (J100-120XN)	x	
6° forward/6° back tilt	x	
2-stage full free lift mast		x
3-stage full free lift mast		x
6° forward/8° back tilt		x
6° forward/4° back tilt		x
HANDLING	STD	OPT
48" hook type carriage w/ 48" high load backrest extension	x	
48" long forks	x	
54" & 60" hook type carriages w/ 48" high load backrest extension		x
54" attachment carriage		x
48" & 60" integral sideshift carriages (J80-90XN)		x
54" & 60" integral sideshift carriages (J100-120XN)		x
Multiple fork lengths		x
Return to set tilt		x
Hydraulic attachment extension tubes with or without quick disconnect fittings		x
Load weight indicator		x
Accumulator		x
ERGONOMICS	STD	OPT
Seat side directional control	x	
Mechanical hydraulic levers	x	
Steering wheel w/integral spinner knob	x	
Non-suspension vinyl seat	x	
Black, non-cinch seat belt with Emergency Locking Retractor (ELR)	x	
Automatic park brake	x	
Power assist braking	x	
On-demand hydrostatic power-assist steering	x	
Auto Deceleration System (ADS)	x	
Multifunction display (high mount)	x	
Easy ingress/egress with low step height and contoured handhold	x	
Operator convenience station	x	
Adjustable tilt steering column with low profile cowl for excellent visibility	x	
Operator Presence System (OPS)	x	
Cushioned floor mat	x	
Seatside power disconnect button	x	
Non-suspension cloth seat		x
Full-suspension seat (vinyl or cloth)		x
Full-suspension swivel seat (vinyl or cloth)		x
MONOTROL® foot direction control		x
Telescoping steering column with tilt memory		x

ERGONOMICS (CONTINUED)	STD	OPT
LED dome/reading light		x
Rear drive handle with horn button		x
Dual rear view mirrors		x
Panoramic rear view mirror		x
Red, high-visibility, non-cinch seat belt with or without interlock		x
Low mount display		x
TouchPoint mini-levers		x
OPERATION	STD	OPT
Standard environmental construction	x	
Key switch start	x	
92" grid style overhead guard	x	
3-function hydraulic control valve	x	
Fully integrated CANbus communication	x	
Battery removal without rollers - lift out	x	
Static strap	x	
Tow pin	x	
Type "E" UL construction	x	
Hyster Stability System (HSS®)	x	
Cooler/freezer package – operating temperatures: -20°F to +120° F		x
4-function hydraulic control valve		x
Horizontal battery extraction (rollers or fork pocket)		x
Keyless start (with auxiliary key switch)		x
LED brake/tail/back-up light packages		x
LED and halogen work light packages		x
Key switch controlled lights		x
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 - 2.5 lb dry chemical		x
Impact monitor with programmable shutdown		x
Operator password start interlock		x
Operator daily checklist		x
System monitor - hydraulic low fluid level indicator and hydraulic filter service indicator		x
Programmable maintenance reminder		x
Premium, fully integrated "quick connect" rapid charge system		x
Full steel cab		x
Front, top and rear cab panels		x
Outdoor protection/wash-down package	x	
Front mud guards	x	
IP54 sealed drive axle/motors with belly pan	x	
Tilt cylinder boots		x
Type "EE" UL construction		x
Vented battery side covers		x
Hydraulic oil cooler		x
12-volt auxiliary power supply		x
Heater & defroster		x
Auxiliary DC-DC converter		x
Hyster Reaction™		x
SUPPLEMENTAL	STD	OPT
Operating manual	x	
12 month/2,000 hour full truck warranty	x	
36 month/6,000 hour powertrain warranty	x	
ENERGY SYSTEM	STD	OPT
Lead acid	x	
Hyster Power Collect™		x



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