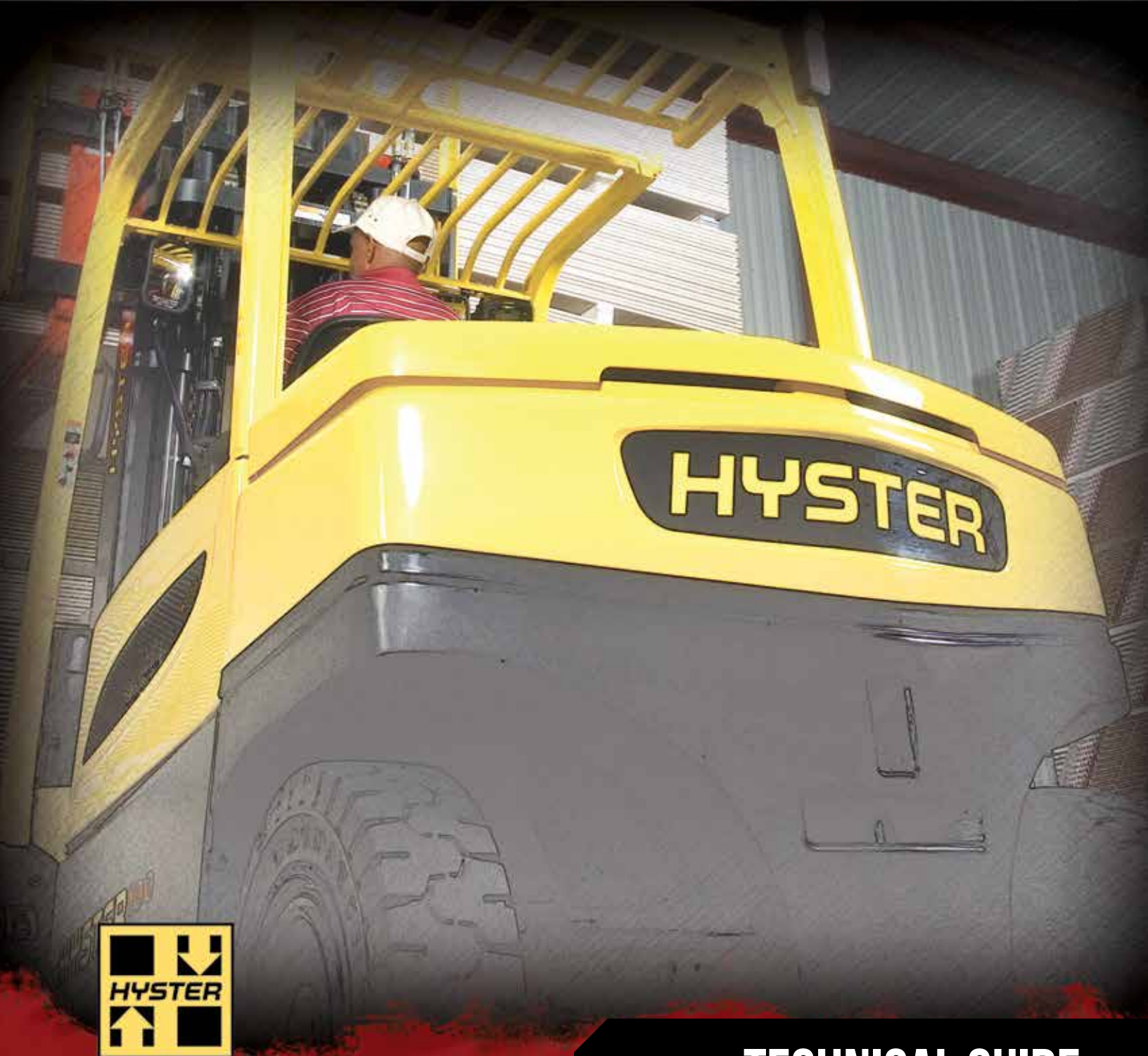


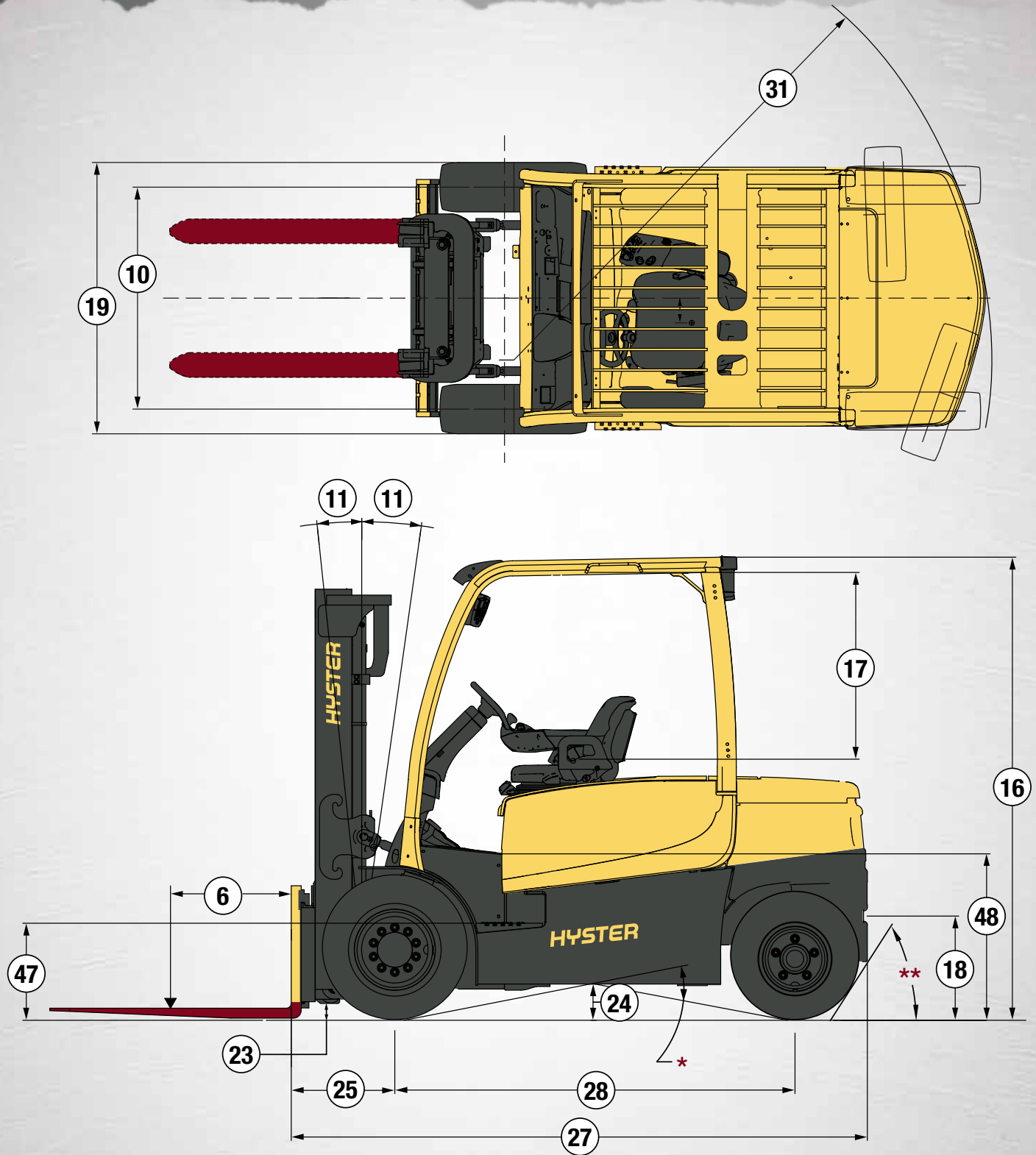
# J80-120XN SERIES



**STRONG PARTNERS.  
TOUGH TRUCKS.™**

**TECHNICAL GUIDE**  
Counterbalanced Electric, Pneumatic Tire

# J80-120XN DIMENSIONS



\* Ground Clearance Grade  
 23.4° (J80XN, J90XN, J100XN)  
 20.7° (J100XNL, J110XN, J120XN)

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

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 Manufacturer				Hyster					
	2 Model Designation				J80XN	J90XN	J100XN			
	3 Power/Voltage				Electric/80 Volts					
4 Operation				Sit						
5 Rated Capacity				lb (kg)	8000 (3629)	9000 (4082)	10000 (4536)			
6 Load Center				in (mm)	24 (610)					
TIRES	7 Tire Type - Cushion, Solid, Pneumatic, etc.				Std/Opt	Pneumatic/Pneumatic Shaped Solid				
	8 Tire Size (Standard)				Drive/Steer	in	250 x 15 20 Ply / 7.00 x 12 16 Ply	28 x 12.5-15 24 Ply / 7.00 x 12 16 Ply		
	9 Wheels - Number				X=Driven	Drive/Steer	2X/2			
10 Tread (Drive / Steer)				See Tread Chart on page 5						
DIMENSIONS	11 Mast Tilt				Std Opt Opt	degrees	6F/6B 6F/8B 6F/4B			
	12 Mast - Lowered Height				Std Mast	in (mm)	92 (2320)			
	13 Free Lift - Top of Fork				Std 2 Stg Limited Free Lift Mast	in (mm)	5 (150)			
	14 Lift Height - Top of Fork				Std 2 Stg Limited Free Lift Mast	in (mm)	131 (3350)	121 (3090)		
	15 Mast - Extended Height				Std Mast with/without LBR	in (mm)	181/162 (4591/4109)	172/159 (4364/4030)		
	16 Overhead Guard Height					in (mm)	92 (2338)			
	17 SIP to Bottom of OHG				Seat Depressed	Std/Susp/Swivel	in (mm)	38.5/39.1/38.5 (977/992/978)		
	18 Tow Pin Height				Vertical Center of Pin	in (mm)	20.7 (526)			
	19 Overall Width (Drive Tires)				See Overall Width Chart on page 5					
	20 Forks				Thickness x Width x Length	in (mm)	2.0 x 4.9 x 48 (50 x 125 x 1219)	2.0 x 5.9 x 48 (50 x 150 x 1219)		
	21 Standard Carriage Width				Class III (8000-9000 lb.) Class IV (10000 - 12000 lb.)	in (mm)	48 (1219)			
	23 Ground Clearance				Lowest Point	See Ground Clearance Chart on page 5				
	24 Ground Clearance				Center of Truck	NL/RL	in (mm)	7.2/7.0 (183/177)		
	25 Load Distance				Center of Wheel to Face of Forks	in (mm)	20.6 (523)	22.9 (581)		
	26a				Height	w/Vertical Battery Removal	in (mm)	31.8 (808)		
	26b				Width		in (mm)	40.8 (1037)		
	26c					Nominal (Std/Opt)	SIZE	40/34		
	26d				Length	Actual (Std/Opt)	in (mm)	39.6/33.8 (1006/859)	39.6 (1006)	
	27 Length to Face of Forks				Chassis Length	in (mm)	114.5 (2908)	116.8 (2966)		
28 Wheelbase					in (mm)	79.5 (2020)				
29 Right Angle Stack					in (mm)	163.9 (4164)	166.2 (4222)			
30 Equal Aisle				90° Intersecting Aisle	in (mm)	91.4 (2321)	91.9 (2334)			
31 Outside Turning Radius					in (mm)	94.9 (2411)				
WT.	32 Truck Weight				Without Battery	NL	lb (kg)	11080 (5026)	11390 (5166)	12220 (5543)
	33 Axle Loading - Drive				Static with Max. Wt. Battery	NL/RL	lb (kg)	8791/21276 (3988/9651)	8912/22958 (4042/10414)	9341/25235 (4237/11446)
	34 Axle Loading - Steer				Static with Max. Wt. Battery	NL/RL	lb (kg)	7687/3201 (3487/1452)	7870/2824 (3570/1281)	8272/2378 (3752/1079)
PERFORMANCE					Standard Performance					
	35a				Extended Shift On	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				Extended Shift Off	NL/RL	mph (km/h)	13.0/12.4 (21.0/20.0)		
	36a				Std 2 Stg LFL Mast	NL/RL	ft/min (m/sec)	118/87 (0.60/0.44)		
	36b				Opt 2 Stg FFL Mast	NL/RL	ft/min (m/sec)	107/78 (0.542/0.398)		
	36c				Opt 3 Stg FFL Mast	NL/RL	ft/min (m/sec)	110/81 (0.56/0.411)		
	36d				Std 2 Stg LFL Mast	NL/RL	ft/min (m/sec)	118/87 (0.60/0.44)		
	36e				Opt 2 Stg FFL Mast	NL/RL	ft/min (m/sec)	107/78 (0.542/0.398)		
	36f				Opt 3 Stg FFL Mast	NL/RL	ft/min (m/sec)	110/81 (0.56/0.411)		
	37a				Std 2 Stg LFL Mast	NL/RL	ft/min (m/sec)	94/104 (0.48/0.53)		
	37b				Opt 2 Stg FFL Mast	NL/RL	ft/min (m/sec)	75/91 (0.38/0.46)		
	37c				Opt 3 Stg FFL Mast	NL/RL	ft/min (m/sec)	77/98 (0.39/0.50)		
	38a				5 Minute Rating	NL/RL	%	23/15.6	22.7/14.9	22.2/14.1
	38b				60 Minute Rating	NL/RL	%	8.4/5.8	8.3/5.5	8.1/5.2
39a				5 Minute Rating	NL/RL	lbf	3985/3867	4025/3908	4022/3907	
39b				60 Minute Rating	NL/RL	lbf	1475/1444	1493/1460	1490/1458	
40a				Method of Control	Service/Parking	Hydraulic/Spring Applied				
40b				Method of Operation	Service/Parking	Foot/Automatic				
ELECTRIC	41 Battery				Type	Lead Acid				
	42 Traction Motors (Dual)				60 Minute Rating	Each	hp (kW)	19.7 (14.7)		
	43 Pump Motor				15 Minute rating		hp (kW)	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				
OTHER	47 Step Height					in (mm)	19.3 (490)			
	48 Floor Height					in (mm)	33.1 (840)			
	49 Attachment Relief Pressure					psi (bar)	2250 (155)			
	50 Auxiliary Oil Flow				3rd and 4th Function	gal/min (l/min)	16 (60)			
	51a				Sound Level	Extended Shift On	dB (A)	68		
51b				(Measured per ANSI B56.11.5)	Extended Shift Off	dB (A)	69			

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.

# J100XNL-J120XN SPECIFICATIONS

GENERAL	1	Manufacturer		Hyster				
	2	Model Designation		J100XNL	J110XN	J120XN		
	3	Power/Voltage		Electric/80 Volts				
	4	Operation		Sit				
TIRES	5	Rated Capacity	lb (kg)	10000 (4536)	11000 (4990)	12000 (5443)		
	6	Load Center	in (mm)	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				
DIMENSIONS	9	Wheels - Number	X=Driven	Drive/Steer	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)			
	13	Free Lift - Top of Fork	Std 2 Stg Limited Free Lift Mast		in (mm)	5 (150)	6 (160)	
	14	Lift Height - Top of Fork	Std 2 Stg Limited Free Lift Mast		in (mm)	121 (3090)	122 (4000)	
	15	Mast - Extended Height	Std Mast with/without LBR		in (mm)	172/159 (4364/4030)		
	16	Overhead Guard Height			in (mm)	92 (2338)		
	17	SIP to Bottom of OHG	Seat Depressed	Std/Susp/Swivel	in (mm)	38.5/39.1/38.5 (977/992/978)		
	18	Tow Pin Height	Vertical Center of Pin		in (mm)	20.7 (526)		
	19	Overall Width (Drive Tires)		See Overall Width Chart on page 5				
	20	Forks	Thickness x Width x Length		in (mm)	2.0 x 5.9 x 48 (50 x 150 x 1219)	2.4 x 5.9 x 48 (60 x 150 x 1219)	
	21	Standard Carriage Width	Class III (8000-9000 lb.) Class IV (10000 - 12000 lb.)		in (mm)	48 (1219)		
	23	Ground Clearance	Lowest Point		See Ground Clearance Chart on page 5			
	24	Ground Clearance	Center of Truck	NL/RL	in (mm)	7.2/7.0 (183/177)		
	25	Load Distance	Center of Wheel to Face of Forks		in (mm)	22.9 (581)	23.3 (591)	
	26a	Battery Compartment	Height	w/Vertical Battery Removal	in (mm)	31.8 (808)		
	26b		Width		in (mm)	40.8 (1037)		
	26c			Nominal (Std/Opt)	SIZE	40		
26d			Actual (Std/Opt)	in (mm)	39.6 (1006)			
27	Length to Face of Forks	Chassis Length		in (mm)	123.1 (3126)	123.5 (3136)		
28	Wheelbase			in (mm)	85.8 (2180)			
29	Right Angle Stack			in (mm)	172.5 (4381)	172.9 (4391)		
30	Equal Aisle	90° Intersecting Aisle		in (mm)	96.0 (2439)	96.1 (2441)		
31	Outside Turning Radius			in (mm)	101.3 (2573)			
WT.	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)
PERFORMANCE	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				
ELECTRIC	41	Battery	Type	Lead Acid				
	42	Traction Motors (Dual)	60 Minute Rating	Each	hp (kW)	19.7 (14.7)		
	43	Pump Motor	15 Minute rating		hp (kW)	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				
OTHER	47	Step Height		in (mm)	19.3 (490)			
	48	Floor Height		in (mm)	33.1 (840)			
	49	Attachment Relief Pressure		psi (bar)	2250 (155)			
	50	Auxiliary Oil Flow	3rd and 4th Function	gal/min (l/min)	16 (60)			
	51a	Sound Level	Extended Shift On		dB (A)	68		
51b	(Measured per ANSI B56.11.5)	Extended Shift Off		dB (A)	69			

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.

# J80-120XN SPECIFICATIONS

## TREAD (DRIVE AND STEER TIRES)

Tire Type	Drive Tire / Steer Tire	J80XN	J90XN	J100XN	J100XNL	J110XN	J120XN
		in (mm)					
Pneumatic Tire	250 x 15 20 Ply / 7.00 x 12 16 Ply	44.2 / 45.0 (1123 / 1143)		N/A	N/A		
PSS Tires	250 x 15-7.5 / 7.00 x 12 / 5.0	44.2 / 45.0 (1123 / 1143)		N/A	N/A		
Pneumatic Tire	28 x 12.5-15 24 Ply / 7.00 x 12 16 Ply	45.9 / 45.0 (1167 / 1143)			N/A		
PSS Tires	355 / 50-15 / 7.00 x 12 / 5.0	45.9 / 45.0 (1167 / 1143)			N/A		
Pneumatic Tire (Dual Drive)	7.00 x 15 14 Ply / 7.00 x 12 16 Ply	60.1 / 45.0 (1526 / 1143)			N/A		
PSS Tires (Dual Drive)	7.00 x 15-5.5 / 7.00 x 12 / 5.0	60.1 / 45.0 (1526 / 1143)			N/A		
PSS Tires	355 / 50-15 / 28 x 9-15	N/A			45.9 / 45.0 (1167 / 1143)		
PSS Tires (Dual Drive)	700 x 15 / 5.5 / 28 x 9-15	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	250 x 15 20 Ply	54.1 (1373)		N/A	N/A		
PSS Tires	250 x 15-7.5	54.7 (1388)		N/A	N/A		
Pneumatic Tires	28 x 12.5-15 24 Ply	58.0 (1472)			N/A		
PSS Tires	355 / 50-15	57.1 (1451)			57.1 (1451)		
Pneumatic Tires (Dual Drive)	7.00 x 15 14 Ply	67.9 (1724)			N/A		
PSS Tires (Dual Drive)	7.00 x 15-5.5	68.5 (1739)			68.5 (1739)		

## GROUND CLEARANCE (LOWEST POINT)

	J80XN	J90XN	J100XN	J100XNL	J110XN	J120XN
	NL / RL in (mm)					
250 x 15 20 Ply	5.7 / 4.9 (144 / 125)		N/A		N/A	
250 x 15-7.5	5.6 / 5.1 (141 / 130)		N/A		N/A	
28 x 12.5-15 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)		
7.00 x 15 14 Ply (Dual Drive)	6.1 / 5.3 (156 / 135)			N/A		
7.00 x 15-5.5 (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	Weight	
	in (mm)			in (mm)						amp Hr (kWh)	Min
										lbs (kg)	
<b>J80-120XN 40" Compartment</b>	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)
<b>J80-90XN 34" Compartment</b>	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

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

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)
<b>2-STAGE LIMITED FREE LIFT (LFL) VISTA™ MAST</b>					
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)
<b>2-STAGE FULL FREE LIFT (FFL) VISTA™ MAST</b>					
132 (3375)	92 (2320)	182 (4622)	165 (4187)	42 (1079)	59 (1514)
144 (3675)	98 (2470)	194 (4922)	177 (4487)	48 (1229)	65 (1664)
<b>3-STAGE FULL FREE LIFT (FFL) VISTA™ MAST</b>					
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)
<b>2-STAGE LIMITED FREE LIFT (LFL) VISTA™ MAST</b>					
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)
<b>2-STAGE FULL FREE LIFT (FFL) VISTA™ MAST</b>					
122 (3115)	92 (2320)	173 (4389)	162 (4107)	41 (1052)	52 (1334)
134 (3415)	98 (2470)	185 (4689)	174 (4407)	47 (1202)	58 (1484)
<b>3-STAGE FULL FREE LIFT (FFL) VISTA™ MAST</b>					
122 (3115)	92 (2320)	173 (4389)	162 (4107)	41 (1052)	52 (1334)
134 (3415)	98 (2470)	185 (4689)	174 (4407)	47 (1202)	58 (1484)
122 (3115)	92 (2320)	173 (4389)	162 (4107)	41 (1052)	52 (1334)
134 (3415)	98 (2470)	185 (4689)	174 (4407)	47 (1202)	58 (1484)

## STANDARD EQUIPMENT

- AC traction and pump motors (completely brushless)
- Transistor drive and pump control
- 80-volt electrical system
- Dual drive motors
- Wet disc brakes
- Automatic park brake
- 6° forward/6° back tilt
- Power assist braking
- Auto Deceleration System (ADS) with regenerative braking
- “Zero Turn” steer axle
- Hyster Stability System (HSS®)
- Easy ingress/egress with low step height and contoured handhold
- Operator convenience station
- Multifunction display
- Adjustable tilt steering column with low profile cowl for excellent visibility
- Black, non-cinch seat belt with Emergency Locking Retractor (ELR)
- Non-suspension vinyl seat
- MONOTROL® foot direction control
- Fully integrated CANbus communication
- Operator Presence System (OPS)
- Seaside power disconnect button
- Electronic horn with integral relay
- Cushioned floormat
- Static strap
- Tow pin

## OPTIONAL EQUIPMENT

- TouchPoint mini-levers
- Return to set tilt
- Telescoping steering column with tilt memory
- Full-suspension seat (vinyl or cloth)
- Full-suspension swivel seat (vinyl or cloth)
- Keyless start switch
- Premium, fully integrated “quick connect” rapid charge system
- Rear drive handle with horn button
- Load weight indicator
- Impact monitor
- LED and halogen work light packages
- LED dome/reading light
- LED brake/tail/back-up light packages
- Key switch controlled lights
- 6° forward / 8° back tilt
- 6° forward / 4° back tilt
- Integral sideshifter
- Full steel cab
- Front, top and rear cab panels
- Audible alarm – reverse operation (manually adjustable to 87, 97 or 102 dB)
- Visible alarm – amber led strobe with continuous operation
- Dual drive tires
- Type “EE” UL construction
- Dual rear view mirrors
- Panoramic rear view mirror
- Fire extinguisher
- Accumulator
- Cooler / freezer package – operating temperatures: -20°F to +120° F
- Outdoor protection/wash-down package
- Front mud guards
- Tilt cylinder boots
- Synchronous steering
- Red, high-visibility, non-cinch seat belt with or without start interlock
- Low mount display



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Part No. J80-120XN/TG  
9/2014 Litho in U.S.A.

**Visit us online at [www.hyster.com](http://www.hyster.com) or call us at 1-800-HYSTER-1.**

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