

J40XNL

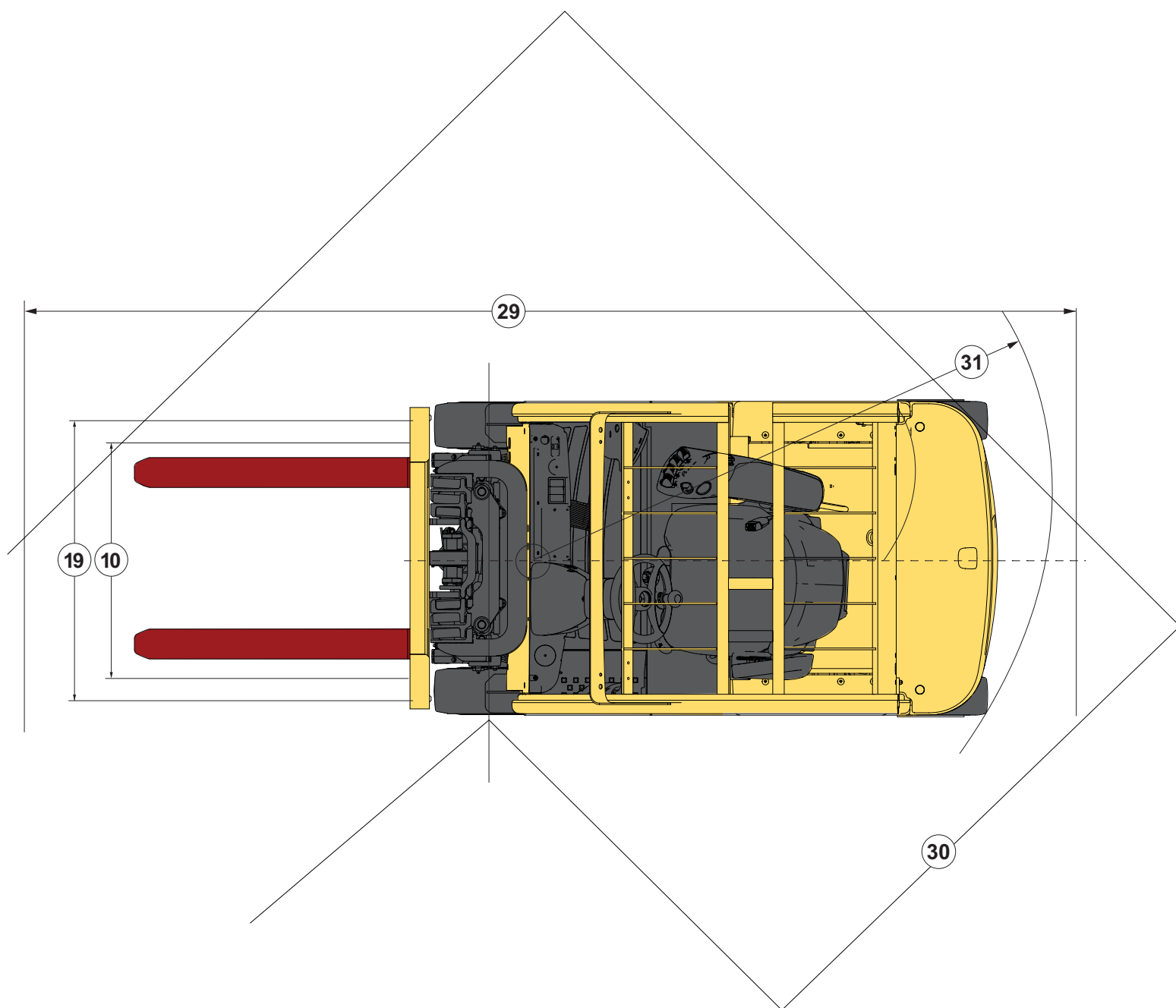


4-WHEEL LITHIUM-ION COUNTERBALANCED FORKLIFT PRODUCT TECHNICAL GUIDE



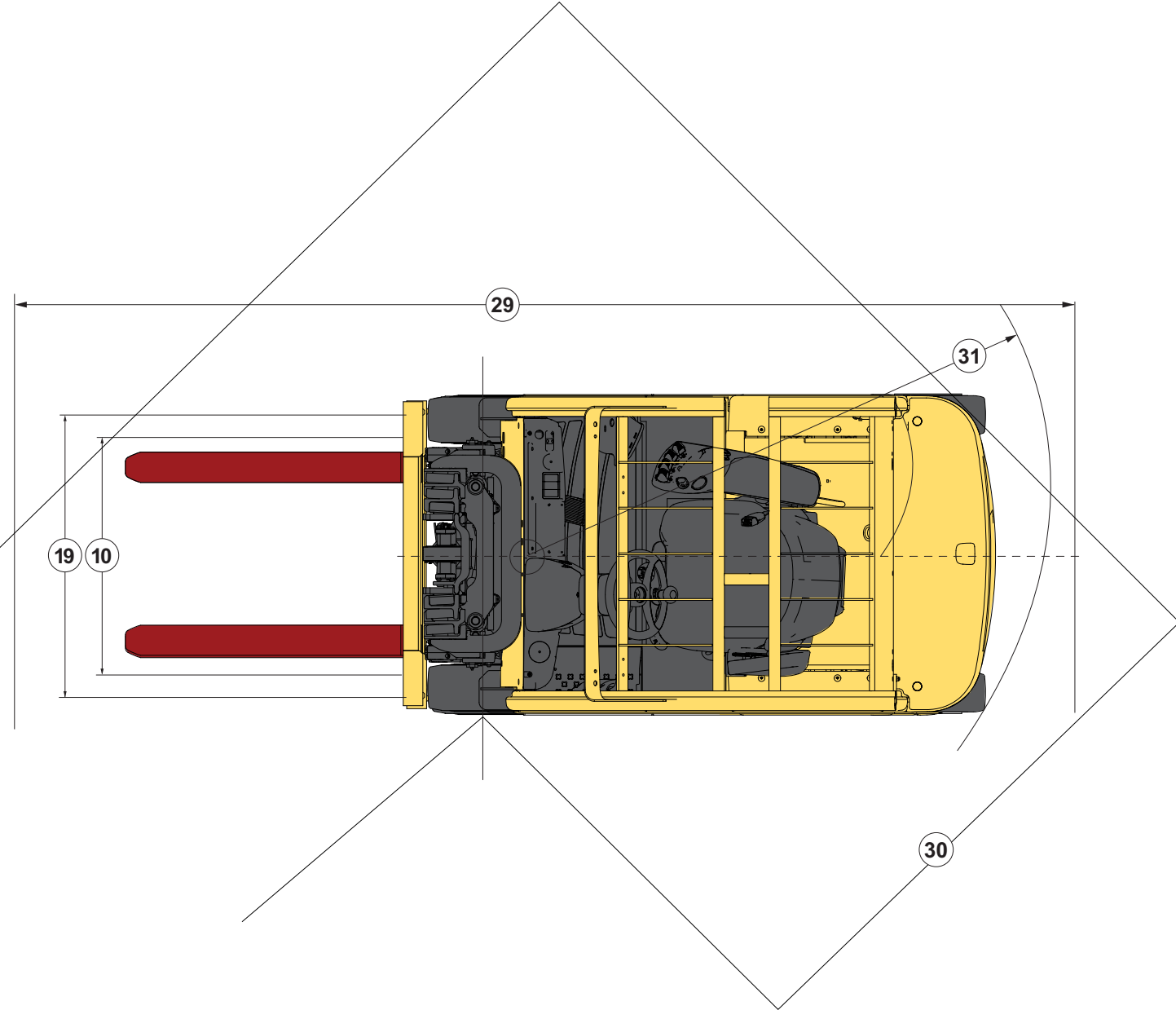
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DIMENSIONS



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

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MAST DIMENSIONS

J40XNL MAST DIMENSIONS					
Maximum fork height (TOF)	Overall lowered height	Overall extended height		Free lift (TOF)	
		w/ Load backrest	w/o Load backrest	w/ Load backrest	w/o Load backrest
in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)
2-STAGE LIMITED FREE LIFT (LFL) MAST					
119 (3032)	78 (1980)	168 (4262)	142 (3606)	5 (140)	5 (140)
127 (3232)	82 (2080)	176 (4462)	150 (3806)	5 (140)	5 (140)
2-STAGE FULL FREE LIFT (FFL) MAST					
118 (3018)	78 (1980)	168 (4262)	143 (3613)	29 (750)	55 (1405)
126 (3218)	82 (2080)	176 (4462)	151 (3813)	33 (850)	59 (1505)
3-STAGE FULL FREE LIFT (FFL) MAST					
175 (4450)	78 (1980)	224 (5025)	198 (5025)	29 (750)	55 (1405)
187 (4750)	82 (2080)	236 (5325)	210 (5325)	33 (850)	59 (1505)
192 (4900)	84 (2130)	238 (5375)	212 (5375)	35 (900)	61 (1555)
198 (5050)	88 (2230)	248 (5625)	222 (5625)	39 (1000)	65 (1655)
216 (5500)	94 (2380)	265 (6075)	240 (6075)	45 (1150)	71 (1805)
4-STAGE FULL FREE LIFT (FFL) MAST					
241 (6121)	84 (2121)	291 (7380)	265 (6721)	34 (873)	59 (1511)
259 (6578)	90 (2273)	309 (7837)	283 (7179)	40 (1025)	65 (1663)

BATTERY SPECIFICATIONS AND ONBOARD CHARGING

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

Heavy – High throughput, typically runs full capacity, runs either attachments or has high lifts

Medium – High throughput, runs near capacity without attachments or high lifts

Light – Lower throughput, runs less than rated capacity without attachments or high lifts

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

BATTERY SPECIFICATIONS			
J40XNL BATTERY RUN TIME			
Battery size	Application		
	Heavy	Medium	Light
20.1 kWh	3h 45m	5h 15m	7h 15m
J40XNL BATTERY CHARGE TIME			
Charger size	Battery size		
	20.1kWh		
30kW	0h 45m		
20kW	1h 15m		
15kW	1h 30m		
10kW	2h 15m		
5kW	4h 15m		

Note: Run time is from 100% to Lift-Lock Out. Charge time is from Lift-Lock Out to 100%.

ONBOARD CHARGING			
ONBOARD CHARGE TIME			
Charger size	Battery size		
	20.1kWh		
6kW (240V outlet)	3h 15m		
1.4kW (120V outlet)	13h 15m		
BATTERY RECHARGE TIME FOLLOWING 1 HOUR OF OPERATION			
Charger size	Application		
	Heavy	Medium	Light
6kW (240V outlet)	0h 50m	0h 40m	0h 30m
1.4kW (120V outlet)	3h 50m	2h 40m	2h 0m

J40XNL SPECIFICATIONS

GENERAL	1	Manufacturer			Hyster	
	2	Model designation			J40XNL	
	3	Power			Electric	
	4	Operation			Sit	
	5	Rated capacity		lb (kg)	4000 (1814)	
	6	Load center		in (mm)	24 (610)	
TIRES	7	Tire type (drive/steer)			Pneumatic shaped solid / pneumatic shaped solid	
	8	Tire size (drive/steer)		in	200/50-10 / 15x4.5-8	
	9	Wheels - number x= driven (drive/steer)			2x / 2	
	10	Tread - center of tires (drive/steer)		in (mm)	35.7 / 7 (908 / 179)	
DIMENSIONS	11	Mast tilt	Std opt opt	degrees	5f/5b 10f/5b 5f/4b	
	12	Mast - lowered height	Std mast	in (mm)	78 (1980)	
	13	Free lift - top of fork	Std 2-stg limited free lift mast	in (mm)	5 (140)	
			Opt 2-stg full free lift mast with/without LBR	in (mm)	29 / 55 (750 / 1405)	
	14	Lift height - top of fork	St 2-stg limited free lift mast	in (mm)	119 (3032)	
	15	Mast - extended height	Std mast with/without LBR	in (mm)	168 / 142 (4262 / 3606)	
	16	Overhead guard height	Std/flat plate/drive in rack	in (mm)	81.5 / 77.9 / 81.5 (2070 / 1979 / 2070)	
	17	Sip to bottom std OHG	Nominal	Std/susp/swivel	in (mm)	38.9 / 39.2 / 38.7 (989 / 997 / 985)
	18	Tow pin height	Vertical center of pin	in (mm)	21.2 (540)	
	19	Overall width		in (mm)	43.9 (1116)	
	20	Forks	Thickness x width x length	in (mm)	1.6 X 3.9 X 42 (40 x 100 x 1067)	
	21	Standard carriage width		in (mm)	38.5 (977)	
	22	Ground clearance	Lowest point (NL/RL)	in (mm)	2.8 / 2.8 (70 / 70)	
	23	Ground clearance	Center of truck (NL/RL)	in (mm)	3.7 / 3.5 (95 / 90)	
	24	Load distance	Center of wheel to face of forks	in (mm)	12.6 (321)	
	25	Length to face of forks	Chassis length	in (mm)	74.9 (1903)	
	26	Wheelbase		in (mm)	54.6 (1386)	
	27	Right angle stack		in (mm)	122.7 (3117)	
	28	Equal aisle	90 Intersecting aisle	in (mm)	71.5 (1816)	
	29	Outside turning radius		in (mm)	62.1 (1577)	
WT.	30	Truck weight		lb (kg)	7550 (3435)	
	31	Axle loading - drive	Static (NL/RL)	lb (kg)	3675 (1665) / 10375 (4705)	
	32	Axle loading - steer	Static (NL/RL)	lb (kg)	3900 (1765) / 1200 (545)	
PERFORMANCE	33	Travel speed	Extended shift off (NL/RL)	mph (km/h)	9.8 / 9.8 (15.7 / 15.7)	
			Extended shift on (NL/RL)	mph (km/h)	8.7 / 8.7 (14.0 / 14.0)	
	34	Lift speed	Std 2-stg LFL mast (NL/RL)	ft/min (m/sec)	134 / 83 (0.68 / 0.42)	
			Opt 2-stg FFL mast (NL/RL)	ft/min (m/sec)	120 / 81 (0.61 / 0.41)	
			Opt 3-stg FFL mast (NL/RL)	ft/min (m/sec)	120 / 81 (0.61 / 0.41)	
			Opt 4-stg FFL mast (NL/RL)	ft/min (m/sec)	126 / 89 (0.64 / 0.45)	
	35	Lower speed	Std 2-stg LFL mast (NL/RL)	ft/min (m/sec)	93 / 100 (0.47 / 0.51)	
			Opt 2-stg FFL mast (NL/RL)	ft/min (m/sec)	77 / 93 (0.41 / 0.47)	
			Opt 3-stg FFL mast (NL/RL)	ft/min (m/sec)	81 / 93 (0.41 / 0.47)	
			Opt 4-stg FFL mast (NL/RL)	ft/min (m/sec)	94 / 98 (0.48 / 0.50)	
	36	Gradeability	5 minutes rating (NL/RL)	%	34.0 / 21.0	
			60 minutes rating (NL/RL)	%	9.2 / 5.6	
37	Drawbar pull	5 minutes rating	LBF	2480 / 2410 (11025 / 10715)		
		60 minutes rating (NL/RL)	LBF	730 / 660 (3260 / 2950)		
38	Brake	Method of control (service/parking)		Hydraulic / mechanical		
		Method of operation (service/operation)		Foot / automatic		
ELECTRIC	39	Battery	Type		Lithium	
	40	Dual voltage battery	Size (discharge / charge)		48V @ 420Ah / 96V @ 210Ah	
	41	Traction motors (dual)	60 minute rating (each)	Hp (kW)	6.7 (5.0)	
	42	Pump motor	15 minute rating	Hp (kW)	16.1 (12.0)	
	43	Traction motors	Type/control method		AC / transistor	
	44	Pump motor	Type/control method		AC / transistor	
	45	Number of speeds	Traction/pump		Infinitely variable / infinitely variable	
OTHER	46	Step height		in (mm)	19.1 (484)	
	47	Floor height	Lowest point	in (mm)	21.9 (557)	
	48	Attachment relief pressure		psi (bar)	2611 / 2248 (180 / 155)	
	49	Auxiliary oil flow	3rd and 4th function	gal/min (l/min)	5.3 / 10.6 (20 / 40)	
	50	Sound level	Measured per ANSI B56.11.5	dB	69	

NL = no load, RL = rated load

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.


FEATURES AND OPTIONS

PERFORMANCE	STD	OPT
48-volt electrical system	x	
Dual voltage lithium battery technology	x	
AC tractions and pump motors (completely brushless)	x	
Hydrostatic steer system	x	
Transistor drive and pump control	x	
Advanced VSM (Vehicle System Manager)	x	
Dual drive motors	x	
Wet disc brakes	x	
Regenerative braking	x	
Reverse Speed System		x
Onboard charging		x
DRIVE	STD	OPT
Pneumatic-shaped solid drive tire and steer tire	x	
Rubber cushion smooth tread drive tire and steer tire		x
LIFT	STD	OPT
2-stage limited free lift (LFL) mast with maximum fork height of 119"	x	
5 forward / 5 back mast tilt	x	
2-stage full free lift mast		x
3-stage full free lift mast		x
4-stage full free lift mast		x
Mast tilt option - 10F / 5B		x
Mast tilt option - 5F / 4B		x
HANDLING	STD	OPT
38.5" wide class II carriage with 48" high load backrest extension	x	
42" (1067mm) long forks	x	
Carriage with integral sideshift		x
Carriage with integral sideshifting fork positioner		x
Return to set tilt		x
Hydraulic attachment extension tubes with or without quick disconnect fittings		x
Load weight indicator		x
ERGONOMICS	STD	OPT
MONOTROL® foot direction control	x	
TouchPoint hydraulic mini-levers	x	
12" steering wheel with integral spinner knob and tilt column	x	
Vinyl non-suspension 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	x	
Multifunction display (and all its sub features)	x	
Easy ingress/egress with low step height and contoured handhold	x	
Operator convenience station	x	
Adjustable tilt steering column with low profile cowl	x	
Operator Presence System (OPS)	x	
Cushioned floor mat	x	
Static strap	x	
Tow pin	x	

ERGONOMICS (CONTINUED)	STD	OPT
Seatside power disconnect button	x	
Battery side covers	x	
On-board software (program, test & diagnose / password protected)	x	
Electronic horn with integral relay (long life / no adjustments)	x	
Non-suspension cloth seat		x
Full-suspension seat (vinyl or cloth)		x
Full-suspension swivel seat (vinyl or cloth)		x
Seatside directional control		x
Telescopic steering column with tilt memory		x
LED and halogen work light packages		x
LED dome / reading light		x
Rear dive handle with horn button		x
Mirrors - dual rear view - LH & RH OHG side mounted		x
Mirror - single panoramic - OHG mounted		x
Low mount display		x
OPERATION	STD	OPT
Standard environmental construction	x	
Key switch start	x	
81.5" grid style overhead guard	x	
3-function hydraulic valve	x	
Full integrated CANbus communication	x	
Cooler / freezer package: operating temperature 0F to +120F		x
SubZero freezer package: operating temperature -40F to +120F		x
4-function hydraulic control valve		x
77.9" flat plate overhead guard		x
81.5" drive-in rack grid style overhead guard		x
Keyless start (with auxiliary key switch)		x
Basic and premium LED brake / tail / back-up 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 - 2.5lb dry chemical		x
Impact monitor		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
Synchronous steering		x
Red, high-visibility, non-cinch seat belt with or without start interlock		x
Hyster Reaction™		x
SUPPLEMENTAL	STD	OPT
84 month / 12,000 hour lithium-ion battery warranty	x	
Operating manual	x	
12 month / 2,000 hour full truck warranty	x	
36 month / 6,000 hour powertrain warranty	x	



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