

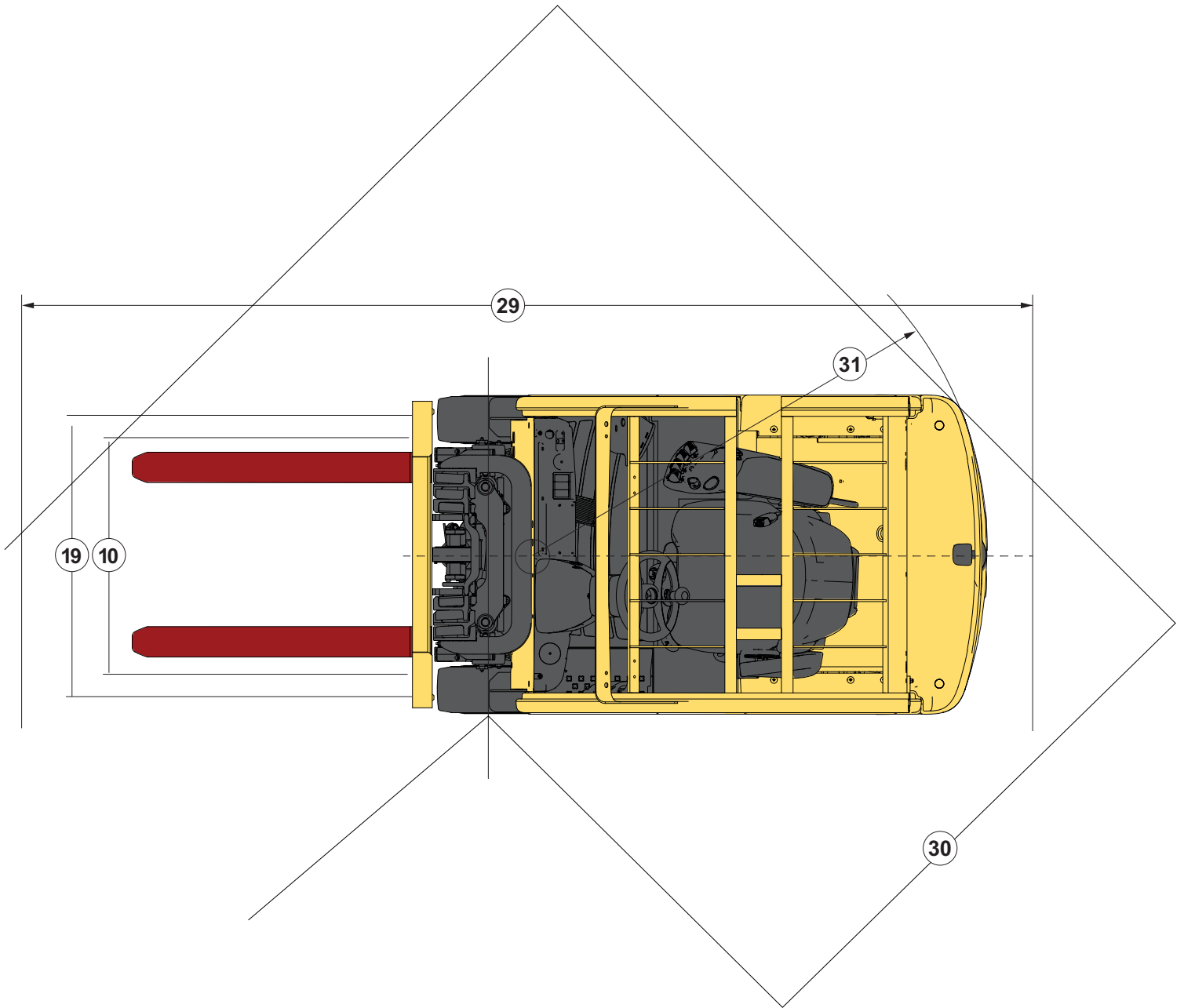


J40XNTL

3-WHEEL LITHIUM-ION COUNTERBALANCED FORKLIFT PRODUCT TECHNICAL GUIDE



DIMENSIONS



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

MAST DIMENSIONS AND BATTERY SPECIFICATIONS

J40XNTL MAST DIMENSIONS

Maximum fork height (TOF) in (mm)	Overall lowered height in (mm)	Overall extended height		Free lift (TOF)	
		w/ Load backrest in (mm)	w/o Load backrest in (mm)	w/ Load backrest in (mm)	w/o Load backrest 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)

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%.

J40XNTL BATTERY SPECIFICATIONS

APPLICATION	RUN TIME Battery size 20.1kWh
Heavy	3h 45m
Medium	5h 15m
Light	7h 15m
CHARGER SIZE	CHARGE TIME Battery size 20.1kWh
30kW	0h 45m
20kW	1h 15m
15kW	1h 30m
10kW	2h 15m
5kW	4h 15m

J40XNTL SPECIFICATIONS

GENERAL	1	Manufacturer		Hyster	
	2	Model designation		J40XNTL	
	3	Power		Electric	
	4	Operation		Sit	
TIRES	5	Rated capacity	lb (kg)	4000 (1814)	
	6	Load center	in (mm)	24 (610)	
	7	Tire type (drive/steer)		Pneumatic shaped solid / pneumatic shaped solid	
	8	Tire size (drive/steer)	in	200/50-10 / 15x4.5-8	
DIMENSIONS	9	Wheels - number x= driven (drive/steer)		2x / 2	
	10	Tread - center of tires (drive/steer)	in (mm)	35.7 / 7 (908 / 179)	
	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)
	14	Lift height - top of fork	Opt 2 stg full free lift mast with/without LBR	in (mm)	29 / 55 (750 / 1405)
	15	Mast - extended height	St 2 stg limited free lift mast	in (mm)	119 (3032)
	16	Mast - extended height	Std mast with/without LBR	in (mm)	168 / 142 (4262 / 3606)
	17	Overhead guard height	Std/flat plate/drive in rack	in (mm)	81.5 / 77.9 / 81.5 (2070 / 1979 / 2070)
	18	Sip to bottom std OHG	Nominal Std/susp/swivel	in (mm)	38.9 / 39.2 / 38.7 (989 / 997 / 985)
	19	Tow pin height	Vertical center of pin	in (mm)	21.2 (540)
	20	Overall width		in (mm)	43.9 (1116)
	21	Forks	Thickness x width x length	in (mm)	1.6 X 3.9 X 42 (40 x 100 x 1067)
	22	Standard carriage width		in (mm)	38.5 (977)
	23	Ground clearance	Lowest point (NL/RL)	in (mm)	2.8 / 2.8 (70 / 70)
	24	Ground clearance	Center of truck (NL/RL)	in (mm)	3.7 / 3.5 (95 / 90)
	25	Load distance	Center of wheel to face of forks	in (mm)	12.6 (321)
	26	Length to face of forks	Chassis length	in (mm)	74.9 (1903)
	27	Wheelbase		in (mm)	54.6 (1386)
	28	Right angle stack		in (mm)	122.7 (3117)
29	Equal aisle	90 Intersecting aisle	in (mm)	71.5 (1816)	
30	Outside turning radius		in (mm)	62.1 (1577)	
WT.	31	Truck weight	lb (kg)	7550 (3435)	
	32	Axle loading - drive	Static (NL/RL)	lb (kg)	3675 (1665) / 10375 (4705)
	33	Axle loading - steer	Static (NL/RL)	lb (kg)	3900 (1765) / 1200 (545)
PERFORMANCE	34	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)
	35	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)
	36	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)
OTHER	37	Gradeability	5 Minutes rating (NL/RL)	%	34.0 / 21.0
			60 Minutes rating (NL/RL)	%	9.2 / 5.6
	38	Drawbar pull	5 Minutes rating	LBF	2480 / 2410 (11025 / 10715)
			60 Minutes rating (NL/RL)	LBF	730 / 660 (3260 / 2950)
ELECTRIC	39	Brake	Method of control (service/parking)		Hydraulic / mechanical
			Method of operation (service/operation)		Foot / automatic
	40	Battery	Type		Lithium
	41	Dual voltage battery	Size (discharge / charge)		48V @ 420Ah / 96V @ 210Ah
	42	Traction motors (dual)	60 Minute rating (each)	Hp (kW)	6.7 (5.0)
	43	Pump motor	15 Minute rating	Hp (kW)	16.1 (12.0)
	44	Traction motors	Type/control method		AC / transistor
OTHER	45	Pump motor	Type/control method		AC / transistor
	46	Number of speeds	Traction/pump		Infinitely variable / infinitely variable
	47	Step height		in (mm)	19.1 (484)
	48	Floor height	Lowest point	in (mm)	21.9 (557)
	49	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

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	
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 list 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 forkpositioner		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 (ADS)	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 floormat	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	



Hyster Company
P.O. Box 7006
Greenville, North Carolina
27835-7006

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