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TOUGH TRUCKS.™**



# HYSTER® DRIVEN BY BALLYO TECHNICAL GUIDE

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# L07.0T WITH BALYO SPECIFICATIONS

GENERAL	1	Manufacturer			Hyster Driven by Balyo	
	2	Model Designation			L07.0	
	3	Power			Battery	
	4	Voltage			24	
	5	Operation			Stand	
	6	Rated Capacity		lb (kg)	15000	
DIMENSIONS	7	Tow Pin Height	Vertical Center of Pin	in (mm)	14.3 (365)	
	8	Overall Width		in (mm)	35.9 (913)	
	9	Wheelbase		in (mm)	42.7 (1084)	
	10	Overall Length		in (mm)	67.2 (1706)	
	11	Outside Turning Radius		in (mm)	62 (1575)	
	12	Ground Clearance	Center of Wheelbase	in (mm)	2 (50)	
	13	Tread Width		in (mm)	14.8 (376)	
	14	Step Height		in (mm)	6 (152)	
	15	Battery Compartment	Height	Std / Battery	in (mm)	31.2 x 14.1 x 32 (792 x 357 x 814)
16	Floor to Top of Battery Rollers		Side Extraction	in (mm)	5.6 (141)	
PERFORMANCE	17	Travel Speed		NL/RL	mph (km/h)	4.5 (2) / 4.5 (2)
	18	Gradeability		5 Minute Reading	%	20 / 6
		Maximum Gradeability		5 Minute Reading	%	20 / 10
	19	Drawbar Pull		5 Minute Reading	lbf (N)	299 (1330)
		Drawbar Pull		60 Minute Reading	lbf (N)	1011 (4500)
	20	Brake		Service / Parking		Electromagnetic
WT.	21	Truck Weight	w/o Battery	NL	lb (kg)	2455 (1114)
	22	Axle Loading		Drive / Load Wheel	lb (kg)	1765 / 941 (801 / 427)
WHLs/TIRES	23	Tire Type		Drive / Steer		Tophane / Polyurethane
	24	Tire Size	Std	Drive / Steer	in	10 x 3.5 / 10 x 3.5
	25	Wheels - Number	X=Driven	Drive / Steer		1X / 2
ELECTRIC	26	Battery	Type			Lead Acid
	27	Traction Motor	60 Minute Rating		hp (kW)	4.0 (3.0)
	28	Traction Motor		Type / Control Method		AC / Mosfet
	29	Number of Speeds				Infinitely Variable

Above specifications, unless otherwise listed, are for a standard truck without optional equipment.

RL = Rated Load; NL = No Load

## L07.0T Battery and Compartment Specifications

Battery Type	Battery Compartment Dimensions			Battery Dimensions			Number of Cells	Cell Size	Plates per Cell	Capacity
	Width	Length	Height	"X"	"Y"	"Z"				6 hour rate
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)				amp hr (kwh)
Industrial	31.2 (792.0)	14.1 (357.0)	32.0 (814.0)	26.1 (663)	12.8 (325)	23.3 (592)	12	85	11	425 (9.9)
				30.9 (785)	13.0 (330)	23.3 (592)	12	85	13	510 (11.9)
				30.9 (785)	13.0 (330)	26.2 (665)	12	1000	13	600 (14.0)

Battery connector: 175 Amp, Red

Battery Lead: Length 20" (508mm), Position "B", 1/0 AWG

Battery Weight: Min. (372 kg) 820 lbs. and Max. (537 kg) 1184 lbs.

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.

# B80Z<sup>HD</sup> WITH BALYO SPECIFICATIONS



GENERAL	1	Manufacturer			Hyster Driven by Balyo	
	2	Model Designation			B80Z <sup>HD</sup>	
	3	Power Type			24 Volt	
	4	Operator Type			Stand Ride	
	5	Rated Capacity		lb. (kg)	8000 (3629)	
	6	Fork Length		in. (mm)	93 (2362)	
	7	Fork Overall Width		in. (mm)	28.0 (710)	
	8	Fork Width	Individual Fork	in. (mm)	10.0 (254)	
	9	Load Distance (Face of Battery Box to Center of Load Wheels)	Raised	in. (mm)	56.3 (1430)	
Lowered	in. (mm)		60.6 (1540)			
DIMENSIONS	10	Wheelbase	Raised	in. (mm)	84.3 (2141)	
	Lowered		in. (mm)	88.1 (2238)		
	11	Overall Length	Raised	in. (mm)	142 (3606)	
	12	Center of Load Wheel to Tip of Forks	Raised	in. (mm)	36.5 (927)	
	Lowered		in. (mm)	32.2 (817)		
	14	Outside Turning Radius	Raised	in. (mm)	109.3 (2776)	
	15	Right Angle Stack	Raised	in. (mm)	141.1 (3583)	
	16	Equal Intersecting Aisle	Raised	in. (mm)	82.2 (2089)	
		Grade Clearance	Chassis	%	27	
			Ctr of Wheelbase	%	22	
			Forks	%	13	
	18	Overall Lift Height	Top of Forks	in. (mm)	9.3 (235)	
	19	Lowered Height	Top of Forks	in. (mm)	3.3 (84)	
	20	Total Lift		in. (mm)	5.9 (151)	
	21	Truck Overall Width		in. (mm)	36.9 (937)	
22	Chassis Length	Raised	in. (mm)	42.5 (1079)		
		Lowered	in. (mm)	42.0 (1066)		
23	Battery Compartment (Standard / With Battery Rollers)			32.0 x 13.4 x OPEN (813 x 340 x OPEN)		
PERFORMANCE	24	Maximum Travel Speed - Chassis First	NL / RL	mph (kph)	4 (1.8) / 4 (1.8)	
	25	Maximum Travel Speed - Forks First	NL / RL	mph (kph)	0.7 (0.3) / 0.7 (0.3)	
	26	Number of Speeds			Infinitely Variable	
	27	Traction Motor Control Method	Type	AC Transistor		
28	Service Brake	Type	Electro-Mechanical			
WT.	29	Truck Weight (approx.) w/o Battery	NL / RL	lb. (kg)	1759.0 / 9760.0 (798.0 / 4427.0)	
	30	Axle Loading - Drive: Static with Maximum Wt. Battery (NL)		lb. (kg)	2264 (1027)	
	31	Axle Loading - Load Wheels (combined): Static w/Max. Wt. Battery (NL)		lb. (kg)	635 (288)	
WHEELS	32	Drive Tire: Size / Type (Number of Wheels)		in.	12.0 x 4.5 x 8.0 / Polyurethane (1)	
	33	Load Wheel: Size / Type (No. of Wheels) (No. of Bearings)		in.	3.25" x 6.5" / Polyurethane (2) (4)	
	34	Caster Wheel: Size / Type (No. of Wheels) Caster Type		in.	4.0' x 2.5" / Polyurethane (2) Urethane Block Loaded	
BATTERY	35	Type			Lead Acid	
	36	Ampere Hours - Maximum		ah	930	
	37	Ampere Hours - Minimum		ah	375	
	38	Maximum Weight		lb. (kg)	1500 (680)	
	39	Minimum Weight		lb. (kg)	540 (245)	

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.

RL = Rated Load; NL = No Load

<sup>1</sup> Measured using a 42" X 40" pallet

<sup>2</sup> Measured using a 36" X 36" pallet

<sup>3</sup> Measured to the bottom of a GMA approved pallet on the forks while they are in the raised position

<sup>4</sup> With delivery moveable load backrest

**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.



# ➤ S1.0-1.5C WITH BALYO SPECIFICATIONS

GENERAL	1	Manufacturer		Hyster Driven by Balyo			
	2	Model designation		S1.0C	S1.2C	S1.5C	
	3	Power		Battery			
	4	Voltage		24			
	5	Operation (Pedestrian)		Stacker			
	6	Rated capacity		lb (kg)	1730 (785)	2060 (935)	2600 (1180)
DIMENSIONS	8	Overall width		in (mm)	37.5 (952)		
	9	Wheelbase		in (mm)	51.2 (1300)	57.1 (1450)	63 (1600)
	10	Overall length		in (mm)	121 (3084)	127 (3234)	133 (3384)
	11	Outside turning radius		in (mm)	67 (1705)	73 (1852)	79 (2000)
	12	Ground clearance (Center of)		in (mm)	3 (76)		
	13	Tread width		in (mm)	33 (839)		
PERFORMANCE	15	Battery compartment (Std./Battery)		in (mm)	See Battery Box Chart		
	17	Travel speed, NL		mph(m/s)	4 (1.8)		
		Travel speed, RL		mph(m/s)	4 (1.8)		
	18	Gradeability, RL / NL		%	11 / 11		
		Lift speed, NL		fps(m/s)	0.91 (0.28)		
		Lift speed, RL		fps(m/s)	0.85 (0.26)	0.65 (0.20)	0.59 (0.18)
		Lower speed, NL		fps(m/s)	1.11 (0.34)		
		Lower speed, RL		fps(m/s)	0.65 (0.20)		
WT.	20	Brake (Service/Parking)			Electromagnetic		
	21	Truck weight w/o battery, NL		lbs (kg)	5258 (2390)	5456 (2480)	5654 (2570)
	22	Axle loading, NL	Front Wheel	lbs (kg)	2834 (1288)	3089 (1404)	3402 (1546)
			Rear Wheel	lbs (kg)	2424 (1102)	2367 (1076)	2252 (1024)
		Axle loading, RL	Front Wheel	lbs (kg)	6238 (2836)	6828 (3104)	8030 (3650)
			Rear Wheel	lbs (kg)	1220 (554)	1268 (576)	924 (420)
WHL/STRES	23	Tire type	Drive/Load wheel		Vulkollan		
	24	Tire size (std.)	Drive/Load wheel	in	10 x 4.9 / 7.9 x 3.9	11 x 4.9 / 7.9 x 3.9	12 x 4.9 / 7.9 x 3.9
	25	Wheels - Number (X = Driven)	Drive/Load wheel		1X / 2		
ELECTRIC	26	Battery Type			Lead Acid		
	27	Traction motor	60 Minute rating	hp (kW)	5.36 (4)		
	28	Traction motor	Type/Control method		AC/Mosfet		
	29	Number of speeds			Infinitely variable		
		Lift Motor	S3 at 15%	hp (kW)	4.02 (3)	4.02 (3)	4.02 (3)
		Lift Motor	Type/Control method		DC		
	Number of speeds			Single			

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S1.0-1.5C Battery and Compartment Specifications											
Battery Type	Model	Battery Compartment Dimensions			Battery Dimensions			Number of Cells	Cell Size	Plates per Cell	Capacity 6 hour rate
		Width	Length	Height	"X"	"Y"	"Z"				
		in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)				amp hr (kwh)
Industrial	S1.0C	29.7 (755)	10.2 (260)	29.7 (755)	Contact Engineering*						
	S1.0C	29.7 (755)	10.2 (260)	29.7 (755)							
	S1.2C	29.7 (755)	10.2 (260)	29.7 (755)							
	S1.5C	29.7 (755)	10.2 (260)	29.7 (755)							

\* For information on batteries and dimensions, contact the engineering department.








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