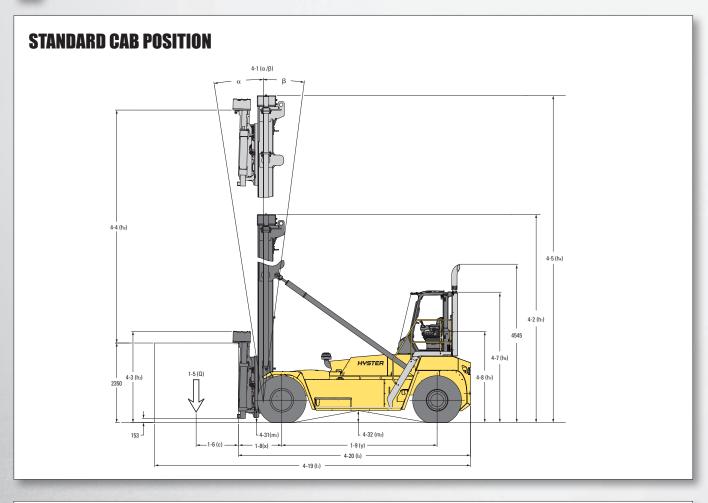


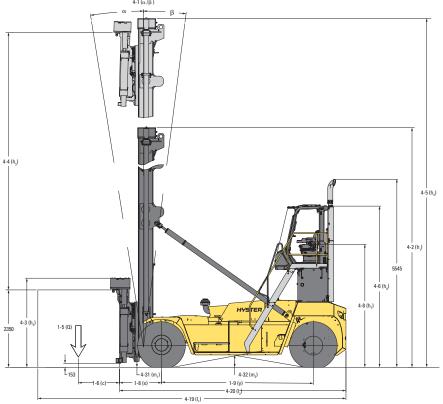
H9XM-EC7 TECHNICAL GUIDE

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DIMENSIONS

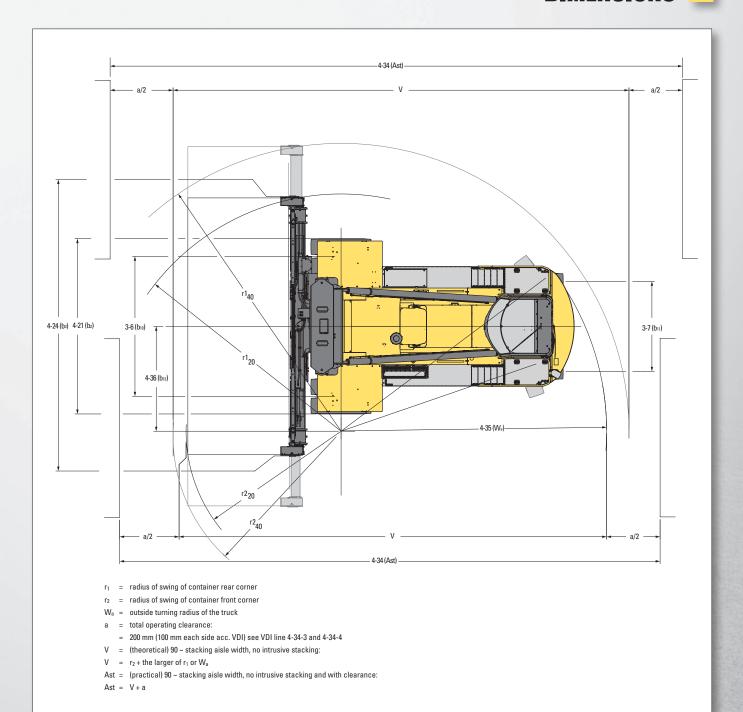


OPTIONAL RAISED CAB POSITION



DIMENSIONS <





> H9XM-EC7 SPECIFICATIONS

	1-1	Manufacturer			HYS		
_	1-2	Model designation			H9XN	-EC7	
	1-3	Drive			Die	sel	
	1-4	Operator type			Sea	ted	
₹L	1-5	Load capacity at load center, nominal	Q	kg	9,0	00	
GENERAL	1-5	Load capacity at load center, max lift (1)	Q	kg	9,0	00	
	1-6	Load center distance	C1	mm	1,2	20	
	1-8	Load distance	Х	mm	1,2	80	
	1-9	Wheelbase	у	mm	4,5	00	
_	1-10	Stacking height at first row (number x container height)		#	7 x 8	3' 6"	
	1-10	Stacking height at first row (number x container height)		#	6 x 9	9' 6"	
	2-1	Service weight		kg	38,8	348	
X _	2-2	Axle loading with load, front / rear		kg	38,193	9,655	
	2-3	Axle loading without load, front / rear		kg	24,193	14,655	
	3-1	Tyre type			Pneu	natic	
	3-2	Tyre size, front			14.00-24 24PR		
	3-3	Tyre size, rear			14.00-2	4 24PR	
	3-5	Wheels, number front / rear (x = driven wheels)			x4	/ 2	
	3-6	Tread, front	b ₁₀	mm	3,2	82	
	3-7	Tread, rear	b ₁₁	mm	2,1	08	
	4-1	Mast tilt, forward / backward	α/β	deg	4 /	3	
_	4-2	Height, mast lowered	h ₁	mm	10,7	795	
	4-3	Free lift	h ₂	mm	(
	4-4	Lift	h ₃	mm	16,4	150	
	4-4-1	Lift height, minimum (2)	h _{3.1.1}	mm	2,350		
_	4-4-2	Lift height, maximum (2)	h _{3.1.2}	mm	18,800		
	4-5	Height, mast extended	h ₄	mm	19,0)20	
	4-7	Height of overhead guard (closed cab) (3)	h ₆	mm	3,8	44	
S 4	4-7-2	Height of overhead guard (closed cab w/ strobe light)	h ₆	mm	3,976		
	4-7-3	Height of overhead guard (closed cab w/ work lights)	h ₆	mm	4,0	35	
	4-8	Seat height to SIP (4)	h ₇	mm	2,676		
	4-19	Overall length	l ₁	mm	9,185		
	4-20	Length to face of load	l ₂	mm	6,7	47	
	4-21	Overall width	b ₂	mm	4,1		
	4-24	Spreader width, retracted / extended	b ₃	mm	6,084	12,218	
	4-31	Ground clearance, lowest point	m ₁	mm	23		
	4-32	Ground clearance, center or wheelbase	m ₂	mm	38		
	1-34-3	Aisle width with 20' Container I REDUCED / FULL stroke (5)	Ast ₂₀	mm	10,737	10,267	
	4-34-4	Aisle width with 40' Container I REDUCED / FULL stroke (5)	Ast ₄₀	mm	14,317	14,019	
	4-35	Outside turning radius REDUCED / FULL stroke	W _a	mm	6,797	6,327	
		Internal turning radius REDUCED / FULL stroke	b ₁₃	mm	3,438	2,620	
	4-36	•					
	5-1	Travel speed, with / without load		km/h	20	25	
	5-1 5-1-1	Travel speed, with / without load Travel speed, with load locked / without load		km/h	On re	quest	
	5-1 5-1-1 5-2	Travel speed, with / without load Travel speed, with load locked / without load Lifting speed, with / without load		km/h m/s	On re 0.51	quest 0.68	
	5-1 5-1-1 5-2 5-2-1	Travel speed, with / without load Travel speed, with load locked / without load Lifting speed, with 70% load Lifting speed, with 70% load		km/h m/s m/s	On re 0.51 0.6	quest 0.68 60	
	5-1 5-1-1 5-2 5-2-1 5-3	Travel speed, with / without load Travel speed, with load locked / without load Lifting speed, with / without load Lifting speed, with 70% load Lowering speed with / without load		km/h m/s m/s m/s	On re 0.51 0.55	0.68 0.55	
	5-1 5-1-1 5-2 5-2-1 5-3 5-5	Travel speed, with / without load Travel speed, with load locked / without load Lifting speed, with 70% load Lowering speed with / without load Drawbar pull - 1 mph 1.6 km/h, with / without load		km/h m/s m/s m/s	On re 0.51 0.55 148	0.68 0.60 0.55 149	
PERFORMANCE	5-1 5-1-1 5-2 5-2-1 5-3 5-5 5-6	Travel speed, with / without load Travel speed, with load locked / without load Lifting speed, with / without load Lifting speed, with 70% load Lowering speed with / without load Drawbar pull - 1 mph 1.6 km/h, with / without load Drawbar pull - max, with / without load		km/h m/s m/s m/s kN	On re 0.51 0.55 148 178	0.68 0.68 0.55 149 180	
PERFORMANCE	5-1 5-1-1 5-2 5-2-1 5-3 5-5 5-6	Travel speed, with / without load Travel speed, with load locked / without load Lifting speed, with 70% load Lifting speed, with 70% load Lowering speed with / without load Drawbar pull - 1 mph I 1.6 km/h, with / without load Drawbar pull - max, with / without load Gradeability - 1 mph I 1.6 km/h, with / without load (6)		km/h m/s m/s m/s kN kN	On re 0.51 0.55 148 178 33	0.68 0.68 0.55 149 180 36	
PERFORMANCE	5-1 5-1-1 5-2 5-2-1 5-3 5-5 5-6	Travel speed, with / without load Travel speed, with load locked / without load Lifting speed, with / without load Lifting speed, with 70% load Lowering speed with / without load Drawbar pull - 1 mph 1.6 km/h, with / without load Drawbar pull - max, with / without load		km/h m/s m/s m/s kN	On re 0.51 0.55 148 178	0.68 0.55 149 180 36	



7-1 Er	Engine manufacturer / model		Cummins / QSB 6.7 164
7-1a Er	Emission legislation		Stage IIIA
7-2 Er	Engine power rated to ISO 1585	kW	164
7-2-1 Er	Engine power, maximum	kW	172
7-3 Ra	Rated speed	min ⁻¹	2,000
7-3 Ra 7-3-1 Er	Engine torque @rpm	Nm/mir	949 @ 1500
7-4 N	Number of cylinders / displacement	# / cm ³	6 / 6,690
Tu	Furbocharger	Туре	Wastegate
7-8 AI	Alternator output	Amps	120
7-9 EI	Electrical system voltage	V	24
7-10 Ba	Battery voltage, rated capacity	V / Ah	24 / 102

8-1	Drive control / Transmission	Type / #	Torque Converter
8-2	Transmission manufacturer / type	Type / #	ZF 5WG211
ш 8-4	Transmission speeds forward / backward	#	5/3
8-5 8-5	Coupling	Туре	Torque Converter
8-6	Wheel drive / drive axle manufacturer / type	Type / #	AxleTech / PRC 1756W3H
8-11	Service brake	Туре	Oil immersed (wet) disc
8-12	Parking brake	Туре	Spring applied, dry disc on drive axle

	9-1	Spreader manufacturer / type		Type / #	Elme / 588TB MPS
æ	9-1-1	Pile slope, mechanical without PPS		mm	+200 / - 200
	9-1-2	Pile slope, total with PPS		degrees	+/- 6
P.R.	9-3	Size of containers		ft	ISO 20' - 40'
S	9-4	Side shift	b ₈	mm	+ 600 / - 600
	9-4-1	Telescoping time, extend / retract		seconds	14 / 16

1	10-1	Operating pressure for attachments		bar	225
1	10-2	Oil volume for attachments		I/m	60
1	10-3	Hydraulic tank capacity		1	268
DIISC 1	10-4	Fuel tank capacity		1	350
≥ 1	10-5	Steering design			Hydraulic power steering
1	10-6	Number of steering rotation			5.0
1	10-7	Sound pressure level at driver's seat	Lpaz	dB(A)	68.3
1	10-7-1	Sound pressure level at driver's seat	Lwaz	dB	On request

NOTES

Specifications are affected by the condition of the vehicle and how it is equipped, as well as the nature and condition of the operating area. Inform your dealer of the nature and condition of the intended operating area when purchasing your Hyster® truck.

- (1) Load capacity at highest container positions may be less, depending on truck model, stacking height and tyres.
- (2) Minimum/maximum height of twistlocks.
- (3) With cab mounted work lights add 6"/132 mm.
- (4) With raised cabin position add 39" / 1000 mm.
- (5) Includes 8"/200 mm clearance. FULL / REDUCED steer cylinder stroke.
- (6) Gradeability figures are provided for comparison of tractive performance, but are not intended

to endorse the operation of vehicle on the stated inclines.

All specifications and capacities are valid for trucks equipped with a Hyster® container handling spreader for handling ISO containers.

C € Safety: This truck conforms to the current EU and ANSI requirements.

NOTICE:

Care must be exercised when handling elevated loads. Operators must be trained and must read, understand and follow the instructions contained in the Operating Manual.

All values are nominal values and they are subject to tolerances. For further information, please contact the manufacturer.

Hyster products are subject to change without notice.

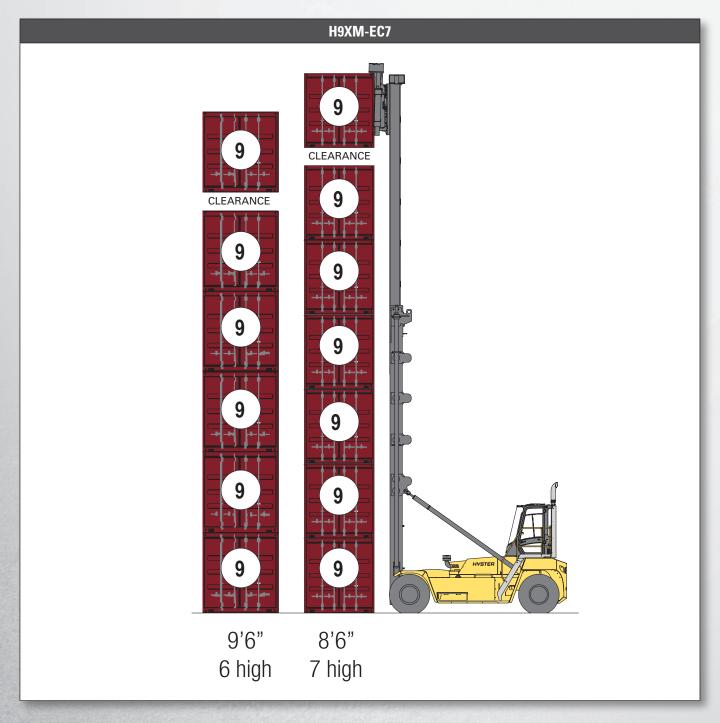
Lift trucks illustrated may feature optional equipment. Values may vary with alternative configurations.

CERTIFICATION: Hyster lift trucks 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.

 ${\it NOTE: Specifications, unless otherwise \ listed, are for a standard \ truck \ without \ optional \ equipment.}$

Specification data is based on VDI 2198.

> RATED CAPACITIES AND STACKING HEIGHTS



> SINGLE CONTAINER SPREADER

Single handling container spreader Vertical Automatic Twistlocks With adjustable traction speed limiter for laden condition Suitable for: - 20', 40' or 45' (with 40' twistlock position) ISO containers, Binnencontainers or WTP containers. Not suitable for: > >2.50m wide "CPC" containers (Cellular Palletwide Containers) Containers with non-ISO corner castings.

FEATURES AND OPTIONS <

PERFORMANCE	STD	ОРТ
Cummins QSB 6.7L diesel engine rated 164 hp Tier 3 / 220 kW Stage IIIA	х	
Wastegate turbocharger	х	
120 amp alternator	х	
Powertrain protection system	х	
ZF Transmission 5WG211 5-speeds fwd/3-speeds reverse auto-shifting	х	
AxleTech Drive Axle PRC1756 W3H (162" / 4112 mm across drive tyres)	х	
DRIVE	STD	ОРТ
Travel speed limiter - unconditional (adjustable)	х	
Traction speed limiter when carrying container (adjustable)	х	
Steer axle with full stroke steer cylinder for tight turning radius	х	
Pneumatic bias ply tyres	х	
LIFT	STD	ОРТ
On-Demand Load Sensing Hydraulic System	х	
Automatic Throttle-up when lifting (in neutral or inching)	х	
Variable lap mast for low roller forces	х	
2 cylinder / 2 chain design	х	
HANDLING	STD	ОРТ
Hyster Model 588TB single spreader	х	
Mechanical Pile Slope	х	
ERGONOMICS	STD	ОРТ
Manual tilt operator compartment for service	х	
Powered tilt operator compartment for service		Х
Raised Operator compartment (1000mm)		Х
Isolated mounting for low noise and vibration	х	
Operator presence system	х	
Mechanical suspension seat	х	
Cloth seat cover	х	
2-point high visibility seatbelt	х	
Trainer seat with 2-point high visibility seat belt		х
Coat hook	Х	
Front, top and rear wipers	Х	
"I"-pattern front wiper	Х	
Left side handrails, stairway and cabin door	Х	
Right side handrails, stairway and cabin door	х	
7" Color digital operator display	х	
Seat-side joystick hydraulic control	Х	
Steering wheel with spinner knob	Х	
Directional control lever	Х	
Interior wide angle mirrors	Х	
Heater with 3 speed fan	Х	
Telescoping & tilting steering column	Х	

Air conditioning	Х	
Reading light	Х	
Sun shades on top and rear	Х	
Recirculation fan	Х	
VISIBILITY	STD	0PT
Exterior mirrors mounted to cab	Х	
Halogen work lights	Х	
LED work lights		Х
LED twistlock indicator lights	Х	
LED stop/tail/brake lights	Х	
Turn signals, hazard & marker lights (LED)	Х	
OPERATION	STD	ОРТ
Electric air horn 112 dBA	Х	
Visible alarm – Amber strobe light	Х	
Audible alarm – Reverse direction activated 82–102 dB(A), self-adjusting	Х	
Seatbelt interlock for engine start	Х	
Non-lockable fuel cap	Х	
Diesel fuel inlet strainer in filler neck	Х	
Hyster Tracker wireless asset management - Access / Verification		Х
Hyster Tracker wireless asset management - Monitoring	Х	
24 volt electrical system	Х	
Engine block heater 240 volt		Х
SUPPLEMENTS	STD	ОРТ
English or Chinese Operator's manual	Х	

HYSTER® DEALERS





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