

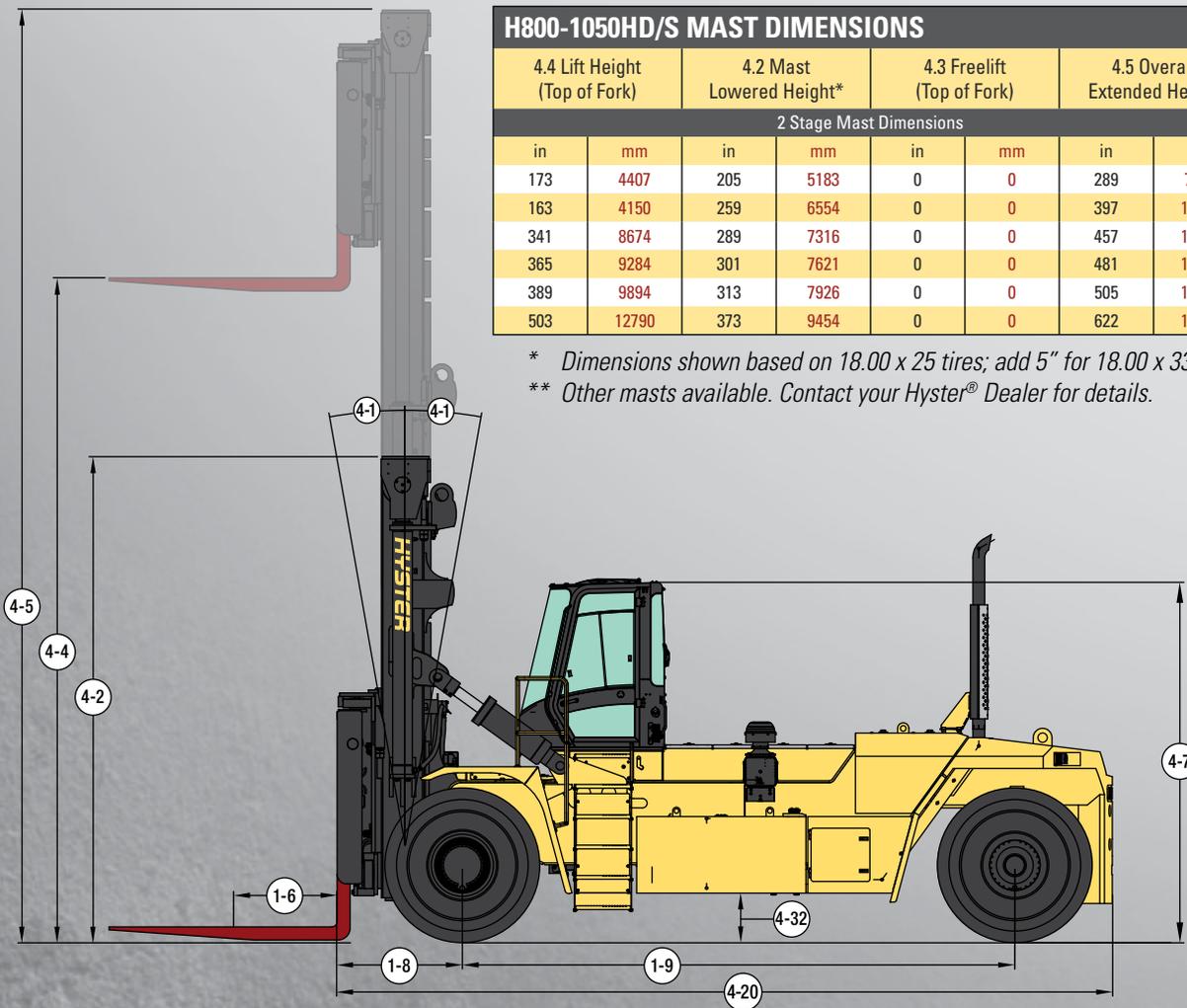
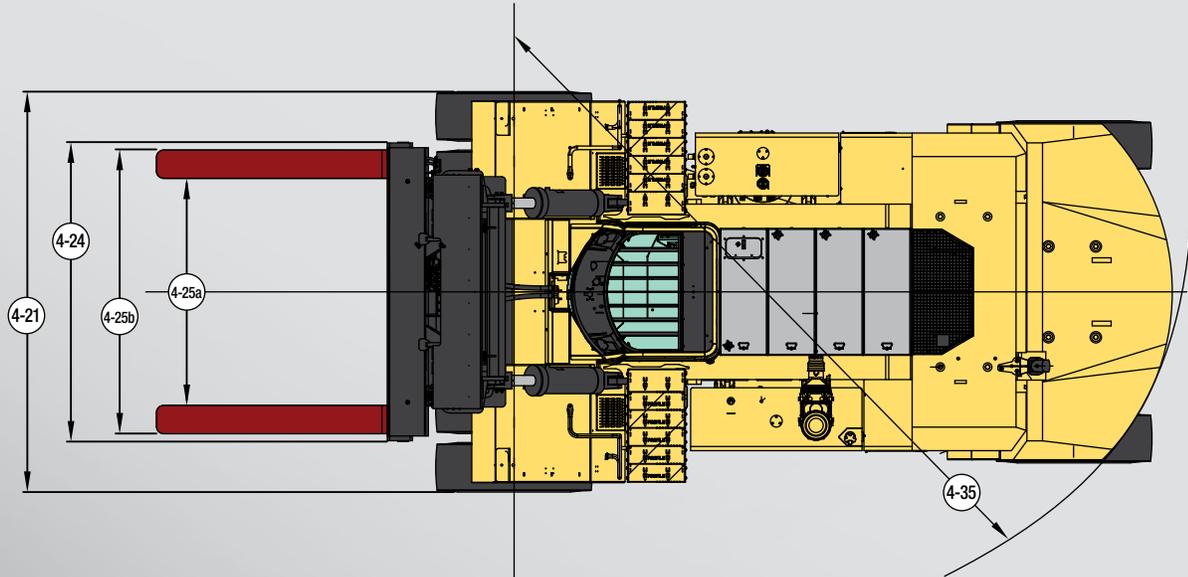


**STRONG PARTNERS.
TOUGH TRUCKS.™**

H800-1050HD/S SERIES TECHNICAL GUIDE

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> H800-1050HD/S DIMENSIONS



H800-1050HD/S MAST DIMENSIONS							
4.4 Lift Height (Top of Fork)		4.2 Mast Lowered Height*		4.3 Freelift (Top of Fork)		4.5 Overall Extended Height	
2 Stage Mast Dimensions							
in	mm	in	mm	in	mm	in	mm
173	4407	205	5183	0	0	289	7316
163	4150	259	6554	0	0	397	10059
341	8674	289	7316	0	0	457	11583
365	9284	301	7621	0	0	481	12193
389	9894	313	7926	0	0	505	12803
503	12790	373	9454	0	0	622	15779

* Dimensions shown based on 18.00 x 25 tires; add 5" for 18.00 x 33 tires.
 ** Other masts available. Contact your Hyster® Dealer for details.

Circled dimensions correspond to the line numbers on the tabulated chart inside the Technical Guide. Dimensions are in inches (millimeters).

> H800-970HD SPECIFICATIONS

GENERAL	1-1	Manufacturer		HYSTER				HYSTER				HYSTER				
	1-2	Model designation		H800HD				H900HD				H970HD				
	1-3	Powertrain / drivetrain		Diesel				Diesel				Diesel				
	1-4	Operator type		Seated				Seated				Seated				
	1-5	Rated load capacity	lbs	kg	80,000		36,278		90,000		40,823		97,000		43,998	
	1-6	Load center	in	mm	48		1,220		48		1,220		48		1,220	
	1-8	Load distance	in	mm	49.3		1,252		49.3		1,252		49.3		1,252	
	1-9	Wheelbase	in	mm	212		5,385		212		5,385		212		5,385	
WEIGHT	2-1	Total truck weight without load	lbs	kg	115,390		52,340		122,312		55,480		127,229		57,710	
	2-2	Axle loading with load, front / rear	lbs	kg	185,078	83,950	10,311	4,677	199,959	90,700	12,355	5,604	210,312	95,396	13,918	6,313
	2-3	Axle loading without load, front / rear	lbs	kg	68,365	31,010	47,025	21,330	68,656	31,142	53,656	24,338	68,797	31,206	58,431	26,504
	3-1	Tire type	Pneumatic				Pneumatic				Pneumatic					
WHEELS	3-2	Tire size, front	18.00-25 40PR				18.00-25 40PR				18.00-25 40PR					
	3-3	Tire size, rear	18.00-25 40PR				18.00-25 40PR				18.00-25 40PR					
	3-5	Number of tires, front / rear (X driven)	x4/2				x4/2				x4/2					
	3-6	Track width, front	in	mm	146		3,703		146		3,703		146		3,703	
	3-7	Track width, rear	in	mm	119		3,020		119		3,020		119		3,020	
	4-1	Mast tilt, forward / back	degree		6F / 10B				6F / 10B				6F / 10B			
DIMENSIONS	4-2	Height of mast lowered	in	mm	205		5,183		205		5,183		205		5,183	
	4-3	Freelift (Top of Fork)	in	mm	0		0		0		0		0		0	
	4-4	Lift height (Top of Fork)	in	mm	173		4,407		173		4,407		173		4,407	
	4-5	Height extended	in	mm	289		7,316		289		7,316		289		7,316	
	4-7	Height, top of operator comp (closed cab w/o airco)	in	mm	154.2		3,916		154.2		3,916		154.2		3,916	
	4-7-1	Height, top of operator comp (closed cab w/ airco)	in	mm	155.5		3,949		155.5		3,949		155.5		3,949	
	4-7-2	Height, top of operator comp (closed cab w/ strobe light)	in	mm	160.8		4,084		160.8		4,084		160.8		4,084	
	4-7-3	Height, top of operator comp (closed cab w/ work lights)	in	mm	161.7		4,107		161.7		4,107		161.7		4,107	
	4-8	Seat height to seat point index	in	mm	106.3		2,700		106.3		2,700		106.3		2,700	
	4-19	Overall length	in	mm	398		10,120		398		10,120		398		10,120	
	4-20	Length to load face	in	mm	302		7,680		302		7,680		302		7,680	
	4-21	Overall width over drive tires	in	mm	165		4,200		165		4,200		165		4,200	
	4-22	Fork dimensions	in	mm	5.5 / 12 / 96		140 / 300 / 2,440		5.5 / 12 / 96		140 / 300 / 2,440		5.5 / 12 / 96		140 / 300 / 2,440	
	4-23	Fork carriage type	Pin Type Fork Positioning				Pin Type Fork Positioning				Pin Type Fork Positioning					
	4-24	Carriage width	in	mm	124		3,150		124		3,150		124		3,150	
	4-25-1	Fork spread, min (in-in)	in	mm	53.5		1,359		53.5		1,359		53.5		1,359	
	4-25-2	Fork spread, max (out-out)	in	mm	106.5		2,705		106.5		2,705		106.5		2,705	
	4-30	Sideshift	in	mm	0		0		0		0		0		0	
	4-31	Ground clearance, under mast with load	in	mm	15		371		15		371		15		371	
	4-32	Ground clearance, center of wheelbase	in	mm	19		472		19		472		19		472	
	4-34	Minimum aisle width (add load length & clearance)	in	mm	333		8,468		333		8,468		356		9,043	
	4-35	Outside turning radius	in	mm	284		7,216		284		7,216		307		7,791	
PERFORMANCE	Tier 4F: Cummins QSL9L				Tier 4F: Cummins QSL 9L				Tier 4F: Cummins QSL 9L				Tier 4F: Cummins QSL 9L			
	5-1	Travel speed, with / without load	mph	km/h	11.7	19	12.4	20	11.7	19	12.4	20	11.7	19	12.4	20
	5-1-1	Travel speed, with load locked / without load	mph	km/h	On request		On request		On request		On request		On request		On request	
	5-2	Lifting speed, with / without load	ft/min	m/s	41	0.21	45	0.23	41	0.21	45	0.23	41	0.21	45	0.23
	5-3	Lowering speed, with / without load	ft/min	m/s	98	0.50	85	0.43	98	0.50	85	0.43	98	0.50	85	0.43
	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load	lbs	kN	73,079	325	74,480	331	72,997	325	74,460	331	72,754	324	74,377	331
	5-6	Drawbar pull - stall, with / without load	lbs	kN	101,180	450	1,002,581	456	101,098	450	1,025,561	456	100,855	449	1,024,78	456
	5-7	Gradeability 1 mph (1.6 km/h), with load / without load	%	%	38	38	47	47	37	37	48	48	34	34	46	46
	5-8	Gradeability stall, with load / without load	%	%	57	57	47	47	55	55	48	48	51	51	46	46
	Tier 3: Cummins QSB 6.7L				Tier 3: Cummins QSM 11L				Tier 3: Cummins QSM 11L				Tier 3: Cummins QSM 11L			
PERFORMANCE	5-1	Travel speed, with / without load	mph	km/h	12.1	20	12.9	21	12.1	20	12.9	21	12.1	20	12.9	21
	5-1-1	Travel speed, with load locked / without load	mph	km/h	On request		On request		On request		On request		On request		On request	
	5-2	Lifting speed, with / without load	ft/min	m/s	51	0.26	59	0.30	51	0.26	59	0.30	51	0.26	59	0.30
	5-3	Lowering speed, with / without load	ft/min	m/s	98	0.50	85	0.43	98	0.50	85	0.43	98	0.50	85	0.43
	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load	lbs	kN	70,606	314	72,007	320	70,524	314	71,987	320	70,281	313	71,904	320
	5-6	Drawbar pull - stall, with / without load	lbs	kN	97,583	434	98,984	440	97,501	434	98,964	440	97,258	433	98,881	440
	5-7	Gradeability 1 mph (1.6 km/h), with load / without load	%	%	37	37	47	47	36	36	48	48	33	33	46	46
	5-8	Gradeability stall, with load / without load	%	%	54	54	47	47	53	53	48	48	46	46	51	51

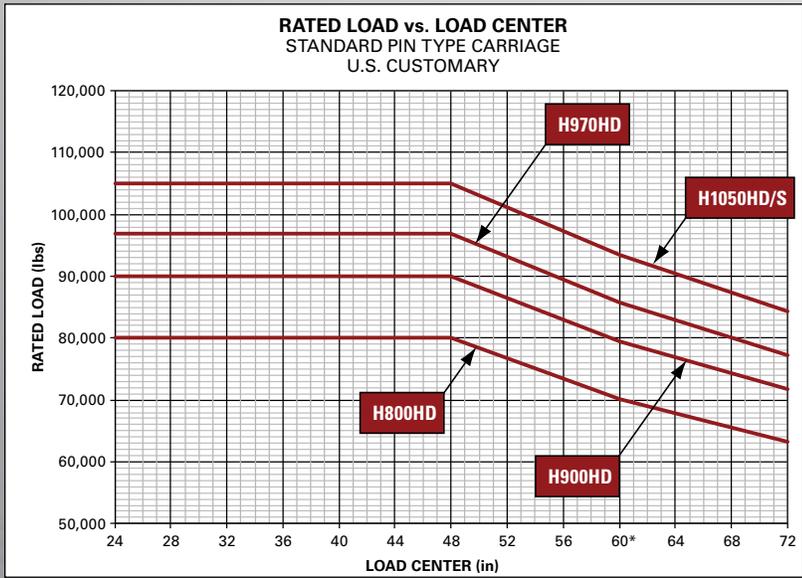
CERTIFICATION: These Hyster® lift trucks meet design specifications of Part II ANSI B56.1-1969, as required by OSHA Section 1910.178(a)(2) and also comply with Part III ANSI B56.1-revision in effect at time of manufacture. Certification of compliance with the applicable ANSI standards appears on the 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.

> H1050HD/S SPECIFICATIONS

GENERAL	1-1	Manufacturer		HYSTER				HYSTER				
	1-2	Model designation		H1050HDS				H1050HD				
WEIGHT	1-3	Powertrain / drivetrain		Diesel				Diesel				
	1-4	Operator type		Seated				Seated				
GENERAL	1-5	Rated load capacity	lbs	kg	105,000		47,627		105,000		47,627	
	1-6	Load center	in	mm	48		1,220		48		1,220	
WEIGHT	1-8	Load distance	in	mm	49.3		1,252		49.3		1,252	
	1-9	Wheelbase	in	mm	212		5,385		232		5,900	
WEIGHT	2-1	Total truck weight without load	lbs	kg	133,402		60,510		126,611		57,430	
	2-2	Axle loading with load, front / rear	lbs	kg	222,951	101,129	15,450	7,008	217,354	98,590	14,260	6,468
	2-3	Axle loading without load, front / rear	lbs	kg	69,765	31,645	63,636	28,865	68,374	31,014	58,237	26,416
WHEELS	3-1	Tire type	Pneumatic				Pneumatic					
	3-2	Tire size, front	18.00-25 40PR				18.00-25 40PR					
	3-3	Tire size, rear	18.00-25 40PR				18.00-25 40PR					
	3-5	Number of tires, front / rear (X driven)	x4/2				x4/2					
WHEELS	3-6	Track width, front	in	mm	146		3,703		146		3,703	
	3-7	Track width, rear	in	mm	119		3,020		119		3,020	
DIMENSIONS	4-1	Mast tilt, forward / back	degree		6F / 10B				6F / 10B			
	4-2	Height of mast lowered	in	mm	205		5,183		205		5,183	
	4-3	Freelift (Top of Fork)	in	mm	0		0		0		0	
	4-4	Lift height (Top of Fork)	in	mm	173		4,407		173		4,407	
	4-5	Height extended	in	mm	289		7,316		289		7,316	
	4-7	Height, top of operator comp (closed cab w/o airco)	in	mm	154.2		3,916		154.2		3,916	
	4-7-1	Height, top of operator comp (closed cab w/ airco)	in	mm	155.5		3,949		155.5		3,949	
	4-7-2	Height, top of operator comp (closed cab w/ strobe light)	in	mm	160.8		4,084		160.8		4,084	
	4-7-3	Height, top of operator comp (closed cab w/ work lights)	in	mm	161.7		4,107		161.7		4,107	
	4-8	Seat height to seat point index	in	mm	106.3		2,700		106.3		2,700	
	4-19	Overall length	in	mm	398		10,120		419		10,635	
	4-20	Length to load face	in	mm	302		7,680		323		8,195	
	4-21	Overall width over drive tires	in	mm	165		4,200		165		4,200	
	4-22	Fork dimensions	in	mm	5.5 / 12 / 96		140 / 300 / 2,440		5.5 / 12 / 96		140 / 300 / 2,440	
	4-23	Fork carriage type	Pin Type Fork Positioning				Pin Type Fork Positioning					
	4-24	Carriage width	in	mm	124		3,150		124		3,150	
	4-25-1	Fork spread, min (in-in)	in	mm	53.5		1,359		53.5		1,359	
	4-25-2	Fork spread, max (out-out)	in	mm	106.5		2,705		106.5		2,705	
	4-30	Sideshift	in	mm	0		0		0		0	
	4-31	Ground clearance, under mast with load	in	mm	15		371		15		371	
	4-32	Ground clearance, center of wheelbase	in	mm	19		472		19		472	
4-34	Minimum aisle width (add load length & clearance)	in	mm	333		8,468		356		9,043		
4-35	Outside turning radius	in	mm	284		7,216		307		7,791		
PERFORMANCE	Tier 4F:Cummins QSL9L			Tier 4F:Cummins QSL9L				Tier 4F:Cummins QSL9L				
	5-1	Travel speed, with / without load	mph	km/h	11.7	19	12.4	20	11.7	19	12.4	20
	5-1-1	Travel speed, with load locked / without load	mph	km/h	On request		On request		On request		On request	
	5-2	Lifting speed, with / without load	ft/min	m/s	41	0.21	45	0.23	41	0.21	45	0.23
	5-3	Lowering speed, with / without load	ft/min	m/s	98	0.50	85	0.43	98	0.50	85	0.43
	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load	lbs	kN	72,390	322	74,149	330	72,518	323	74,283	330
	5-6	Drawbar pull - stall, with / without load	lbs	kN	100,491	447	102,250	455	10,619	448	102,384	455
	5-7	Gradeability 1 mph (1.6 km/h), with load / without load	%	%	31	31	41	41	32	32	44	44
5-8	Gradeability stall, with load / without load	%	%	45	45	41	41	47	47	44	44	
PERFORMANCE	Tier 3: Cummins QSB 6.7L			Tier 3: Cummins QSB 6.7L				Tier 3: Cummins QSB 6.7L				
	5-1	Travel speed, with / without load	mph	km/h	12.1	20	12.9	21	12.1	20	12.9	21
	5-1-1	Travel speed, with load locked / without load	mph	km/h	On request		On request		On request		On request	
	5-2	Lifting speed, with / without load	ft/min	m/s	51	0.26	59	0.30	51	0.26	59	0.30
	5-3	Lowering speed, with / without load	ft/min	m/s	98	0.50	85	0.43	98	0.50	85	0.43
	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load	lbs	kN	69,917	311	71,676	319	70,045	312	71,810	319
	5-6	Drawbar pull - stall, with / without load	lbs	kN	96,894	431	986,653	439	97,022	432	98,787	439
	5-7	Gradeability 1 mph (1.6 km/h), with load / without load	%	%	30	30	41	41	31	31	44	44
5-8	Gradeability stall, with load / without load	%	%	43	43	41	41	45	45	44	44	

CERTIFICATION: These Hyster® lift trucks meet design specifications of Part II ANSI B56.1-1969, as required by OSHA Section 1910.178(a)(2) and also comply with Part III ANSI 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.

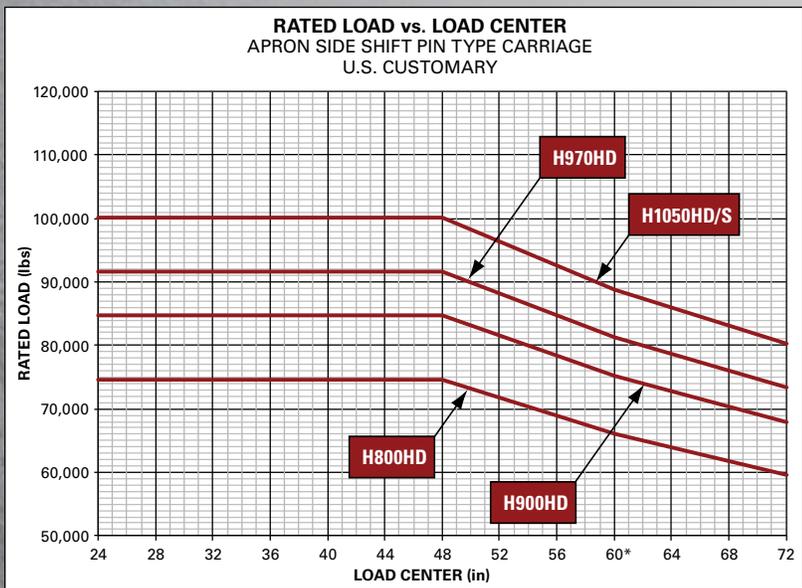
POWERTRAINS			TIER 3		TIER 4F	
1-1	Manufacturer		HYSTER		HYSTER	
1-2	Model designation		H800-H1050HD/S		H800-H1050HD/S	
1-3	Powertrain / drivetrain		Diesel		Diesel	
7-1	Engine Manufacturer / model		Cummins / QSM 11L		Cummins / QSL 9L	
7-1a	EPA Tier Compliance		Tier 3 / Stage IIIA		Tier 4F / Stage IV	
7-2	Engine power output - Rated	hp kW	335 @2100	250 @2100	350 @2100	261 @2100
7-2-1	Engine power output - Peak	hp kW	365 @1800	272 @1800	380 @1900	283 @1900
7-3	Governed speed	rpm	2,100		2,100	
7-3-1	Engine torque @ rpm (1/min)	lb-ft N-m	1235 @ 1,400	1674 @ 1,400	1200 @ 1,500	1627 @ 1,500
7-4	Number of cylinders / displacement	# / in3 # / cm3	6 / 659	6 / 10,800	6 / 543	6 / 8,900
7-8	Alternator output	Amps	120		120	
7-9	Electrical system voltage	V	24		24	
7-10	Battery voltage, rated capacity	V / Ah	24 / 120		24 / 120	
8-1	Drive control / Transmission	Type	Powershift Transmission		Powershift Transmission	
8-2	Transmission manufacturer / model	Type	SOH / TE-32		SOH / TE-32	
8-4	Transmission speed forward / backward	#	4 / 4		4 / 4	
8-5	Coupling	Type	Torque Converter		Torque Converter	
8-6	Wheel drive / drive axle manufacturer / type	Type	Kessler / D102		Kessler / D102	
8-11	Service brake	Type	Oil immersed (wet) disc		Oil immersed (wet) disc	
8-12	Parking brake	Type	Spring apply, dry disc on drive axle		Spring apply, dry disc on drive axle	
10-1	Operating pressure for attachments	psi MPa	3,408	23.5	3,408	23.5
10-2	Oil volume for attachments	gpm l/m	23.8	90	23.8	90
10-3	Hydraulic tank capacity	gal l	174	660	174	660
10-4	Fuel tank capacity	gal l	219	830	219	830
10-4-1	DEF tank capacity	gal l	N/A	N/A	15	57
10-5	Steering Design		Hydraulic power steering		Hydraulic power steering	
10-6	Number of steering rotation		6.0		6.0	



TRUCK CONFIGURATION:

- 2-stage mast - 173" (4410mm) max. fork height
- 96" (2440mm) fork length

* *Extended length forks required for 60" load center or greater applications.*



STANDARD FEATURES AND OPTIONS

PERFORMANCE	STD	OPT
Cummins QSL 9L diesel engine rated 350 hp Tier 4 / 261 kW Stage IV ¹	x	
Cummins QSM 11L diesel engine rated 300 hp Tier 3 / 224 kW Stage IIIA ²	x	
Tier 4 / Stage IV compliant	x	
Tier 3 / Stage III compliant	x	
Wastegate turbocharger, water cooled ³	x	
Variable geometry turbocharger, water cooled ⁴	x	
Hibernate Idle	x	
Hydraulically driven on-demand cooling fan	x	
120 amp alternator	x	
Powertrain protection system	x	
Heavy duty air intake	x	
Spicer Off-Highway TE-32 4-speed auto-shifting transmission	x	
Kessler D102 drive axle with wet disc brakes	x	
DRIVE	STD	OPT
Travel speed limiter - unconditional (adjustable)	x	
Travel Speed Limiter pre-set to 10 mph / 16 km/h		x
Pneumatic 18.00-25 40PR drive and steer tires	x	
Radial 18.00 - R25 Goodyear Slick drive and steer tires		x
LIFT	STD	OPT
Automatic Throttle-up when lifting (in neutral or inching) ⁵	x	
2 Stage Non Free Lift Mast: 173" (4410mm) Max Lift Height / 203" (5160mm) Overall Lowered Height	x	
2 Stage Non Free Lift Masts - Lift Heights ranging from 281" (7150mm) to 503" (12790mm)		x
Mast tilt - 6° Forward / 10° Back	x	
Hydraulic Accumulator		x
Hydraulic system temperature protection with hydraulic shutdown		x
HANDLING	STD	OPT
Short Wheelbase (212" / 5385mm)		x
Mast Tilt Indicator - Mechanical		x
124" (3150mm) QD Pin type carriage with individual fork positioning	x	
124" (3150mm) QD Pin type apron-style sideshift carriage with individual fork positioning		x
96" (2440mm) length pin type quick disconnect forks	x	
83" (2108mm) length pin type quick disconnect forks		x
ERGONOMICS	STD	OPT
Full steel cab operator compartment	x	
Powered tilt operator compartment for service	x	
Isolated mounting for low noise and vibration	x	
Operator presence system	x	
Mechanical suspension seat	x	
Deluxe air suspension seat		x
Low backrest seat	x	
High backrest seat		x
Cloth seat cover		x
Vinyl seat cover	x	
Seat heating		x
2-point high visibility seatbelt	x	
3-point high visibility seatbelt		x
Swivel seat		x
Floor mat	x	
Coat hook	x	
Front, top and rear wipers	x	
"H"-pattern front wiper		x
"I"-pattern front wiper	x	

Front and rear window defrosters	x	
Laminated glass operator compartment front window	x	
Left side handrails, stairway and cabin door	x	
Right side handrails, stairway and cabin door	x	
Wire mesh installed on top of operator compartment		x
Multifunction display panel	x	
Seat-side joystick hydraulic control		x
Steering wheel with spinner knob	x	
Directional control lever	x	
Self-setting park brake		x
Manual park brake	x	
Interior wide angle mirrors	x	
Heater with 3 speed fan	x	
Telescoping & tilting steering column	x	
DC/DC converter 24 volt/12 volt with socket	x	
DC/DC converter 24 volt/12 volt 2nd 12 volt socket		x
Heavy duty air conditioning		x
Reading light		x
Sun shades on top and rear		x
Trainer seat		x
Recirculation fan	x	
Accessory mounting post		x
Rear locking console in cab		x
Heated top window		x
Radio preparation set-up (wiring, two speakers and antenna)		x
VISIBILITY	STD	OPT
External wide angle mirrors mounted on rear of front fenders	x	
Rear view camera system		x
Halogen work lights	x	
High Performance LED work lights		x
Two Halogen head lights mounted on front fenders	x	
Two LED head lights mounted on front fenders		x
Four cabin mounted work lights	x	
LED stop/tail/brake lights	x	
Turn signals, hazard & marker lights (LED)	x	
OPERATION	STD	OPT
Electric air horn 112 dBA	x	
Visible alarm – Amber strobe light, key switch activated	x	
Audible alarm – Reverse direction activated 82–102 dB(A), self-adjusting	x	
Seatbelt interlock for engine start		x
Lockable battery disconnect switch	x	
"Empty seat" engine shutdown		x
Electric circuit breakers		x
Non-lockable fuel cap	x	
Lockable fuel cap		x
Diesel fuel inlet strainer in filler neck		x
Hyster Tracker wireless asset management - Access / Verification		x
Hyster Tracker wireless asset management - Monitoring	x	
Auto greasing system for basic truck & outer mast		x
Centralized greasing provision for upper chain sheaves		x
24 volt electrical system	x	
Engine block heater 110 volt		x
Steer wheel lug nut protection	x	

¹Tier 4 Final requires ultra-low sulfur diesel fuel and low ash oil. ²Not for use in US or Canada. ³Tier 3 engine only. ⁴Tier 4 engine only. ⁵Automatic throttle-up is only activated when the transmission is in neutral or when brake pedal is fully actuated.



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1/2019 Litho in U.S.A.

Visit us online at www.hyster.com or call us at **1-800-HYSTER-1**.

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