



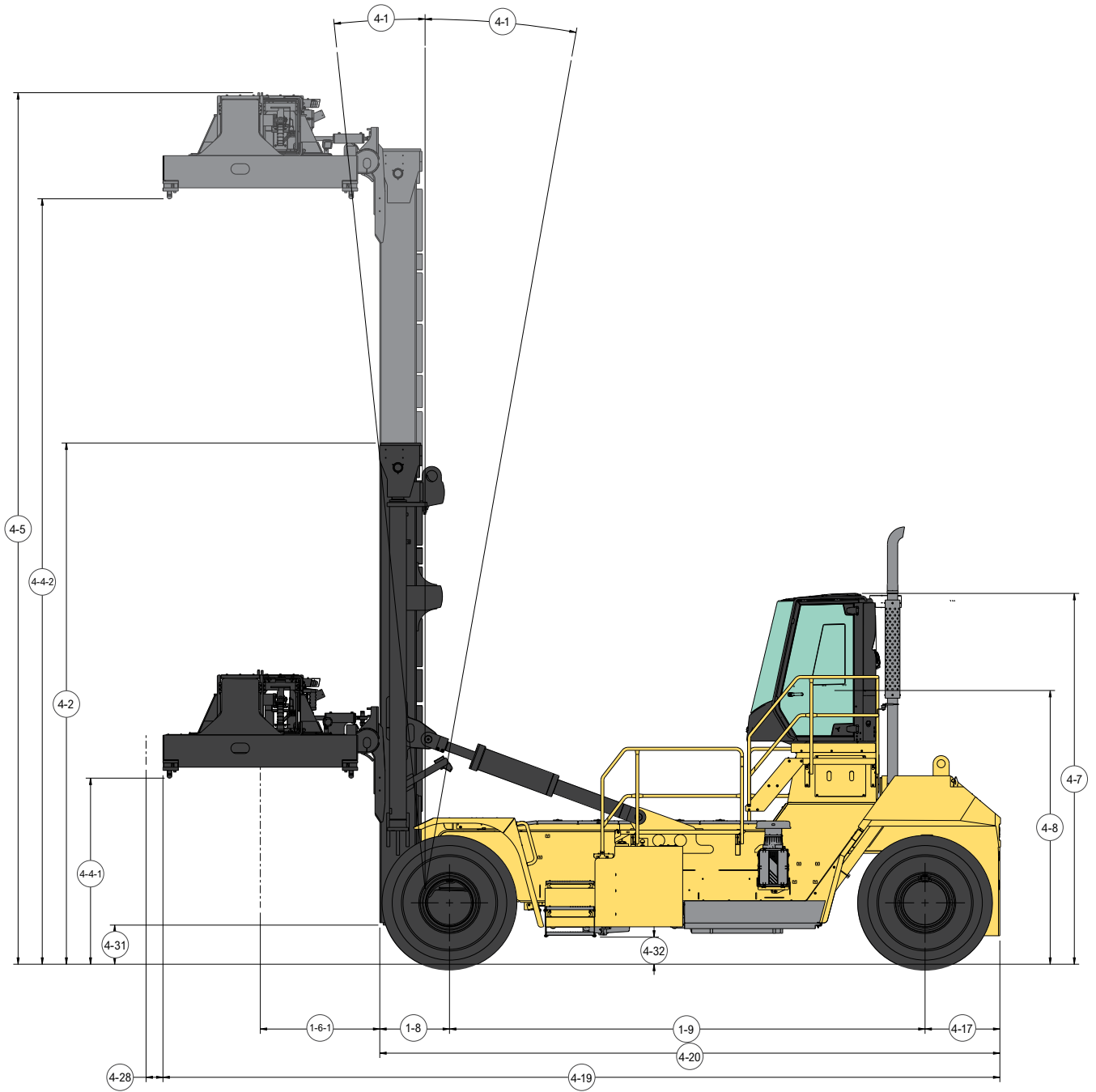
# H1050-1150XD-CH SERIES

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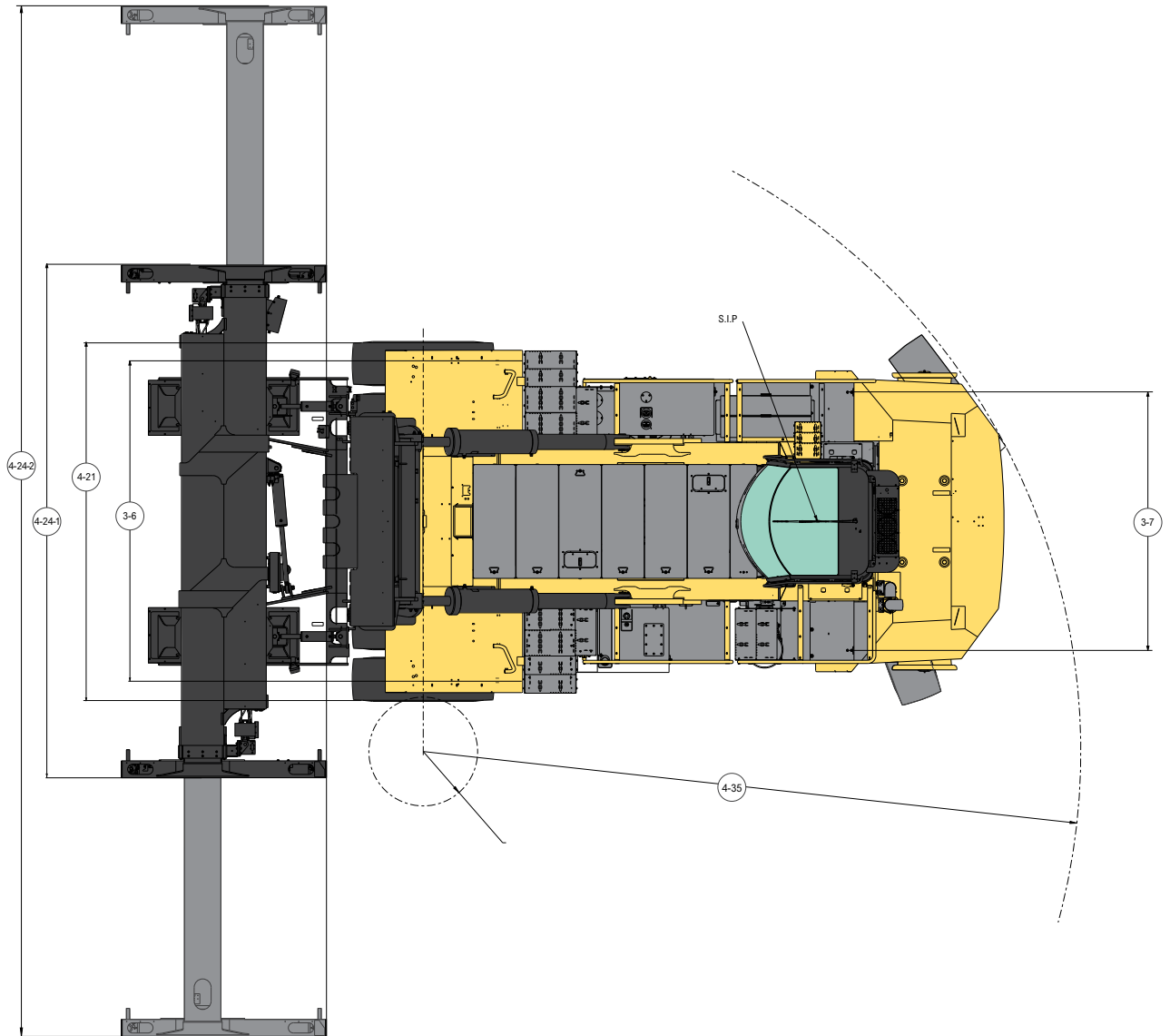
## CONTAINER HANDLER PRODUCT TECHNICAL GUIDE



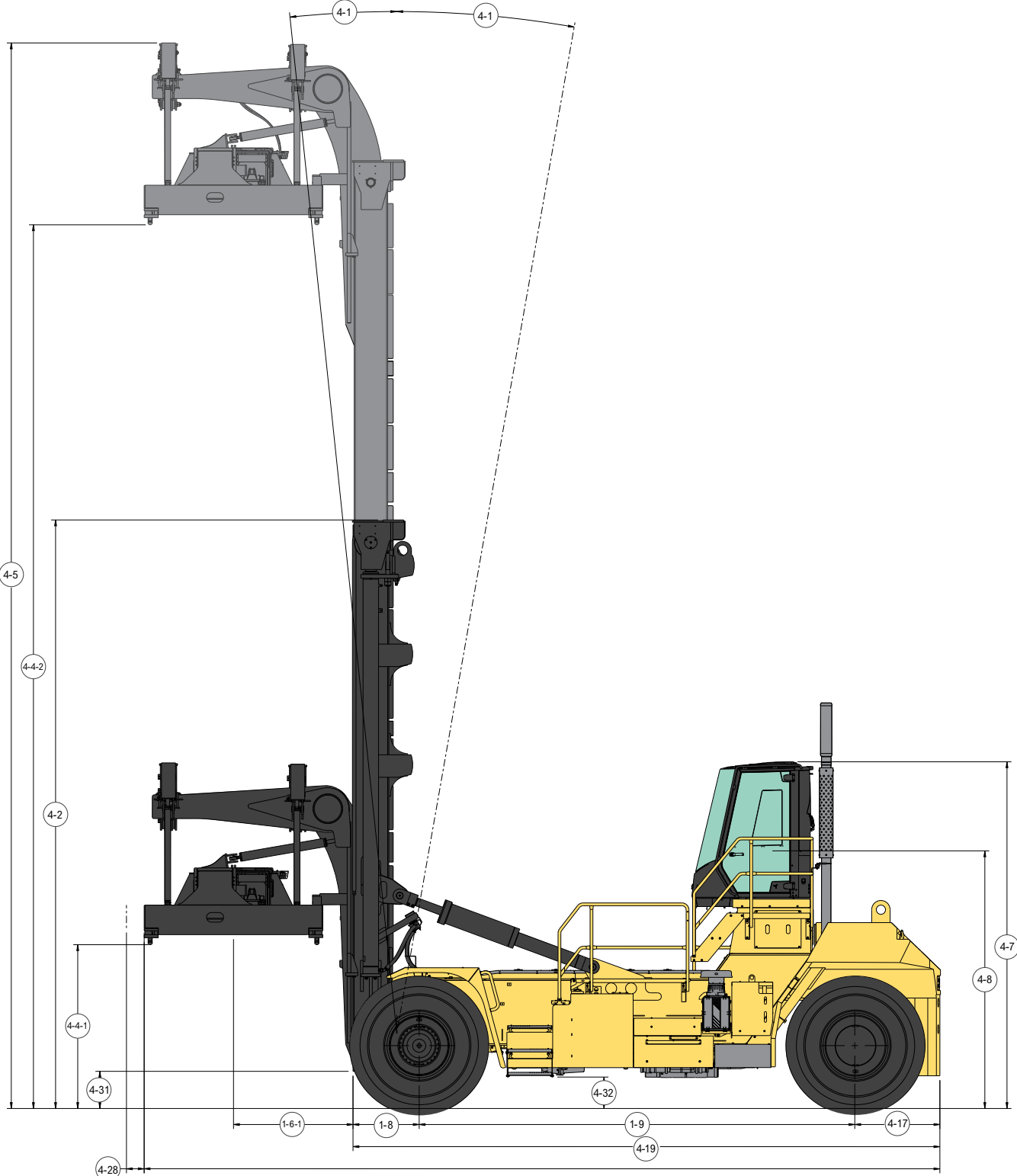
# DEDICATED CARRIAGE DIMENSIONS



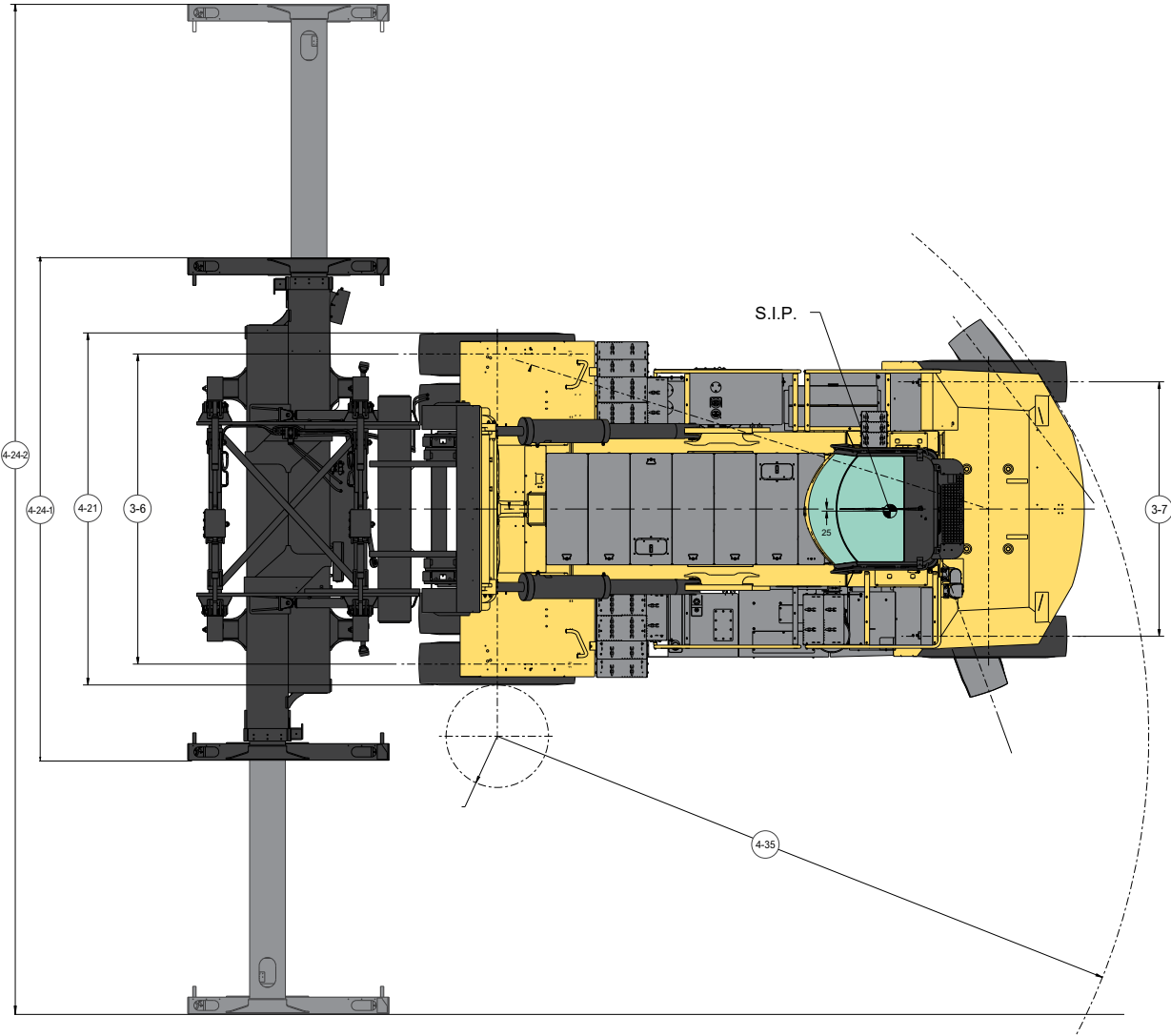
# DEDICATED CARRIAGE DIMENSIONS



# GANTRY CARRIAGE DIMENSIONS



# GANTRY CARRIAGE DIMENSIONS



# H1050XD-CH 5 HIGH SPECIFICATIONS

GENERAL		Loaded container handler truck		5-high 18.00-25			
	1-1	Manufacturer		HYSTER			
	1-2	Model designation		H1050XD-CH			
	1-3	Drive		Diesel			
	1-4	Operator type		Seated			
	1-5-1	Rated load capacity - extended	lbs	kg	82,670		37,500
	1-5-2	Rated load capacity - retracted	lbs	kg	90,390		41,000
	1-6-1	Load center distance - extended	in	mm	69		1,749
	1-6-2	Load center distance - retracted	in	mm	59		1,509
	1-8	Load distance (1)	in	mm	35.4		900
1-9	Wheelbase	in	mm	232		5,900	
1-10-1	Stacking height at first row (number x container height)	in	mm	5 x 9'6"			
1-10-2	Stacking height at first row (number x container height)	in	mm	5 x 8'6"			
WT	2-1	Total truck weight without load (2)	lbs	kg	164,604		74,663
	2-2	Axle loading with load, front / rear	lbs	kg	234,858	106,530	20,135 9,133
	2-3	Axle loading without load, front / rear	lbs	kg	107,802	48,898	56,582 25,665
WHEELS	3-1	Tire type	Pneumatic				
	3-2	Tire size, front	18.00 - 25 40PR				
	3-3	Tire size, rear	18.00 - 25 40PR				
	3-5	Number of tires, front / rear ( X driven )	x 4 / 2				
	3-6	Track width, front	in	mm	146		3,703
	3-7	Track width, rear	in	mm	120		3,060
	4-1	Mast tilt, forward / back	degree		6 / 10		
DIMENSIONS	4-2	Height, mast lowered (3)	in	mm	368		9,357
	4-3	Free lift	in	mm	0		0
	4-4-1	Lift height under twistlocks, minimum (4)	in	mm	90		2,280
	4-4-2	Lift height under twistlocks, maximum (4)	in	mm	588		14,930
	4-5	Height, mast extended	in	mm	681		17,298
	4-7	Height, top of operator compartment closed cab	in	mm	183.5		4,660
	4-7-1	Height, top of operator compartment closed cab without A/C	in	mm	185.2		4,703
	4-7-2	Height, top of operator compartment closed cab with A/C	in	mm	187.3		4,758
	4-7-3	Height, top of operator compartment with strobe light	in	mm	188.2		4,780
	4-7-4	Height, top of operator compartment closed cab with work lights	in	mm	190.5		4,839
	4-7-5	Height, top of operator compartment closed cab with A/C and strobe light	in	mm	188.2		4,780
	4-8	Seat height to SIP (5)	in	mm	138.8		3,525
	4-17	Overhang	in	mm	43		1,093
	4-19	Overall length	in	mm	421		10,698
	4-20	Length to face of spreader	in	mm	314		7,968
	4-21	Overall width across all of truck	in	mm	165		4,200
	4-23	Carriage spreader	Type		MPS Gantry		
	4-24-1	Spreader width, retracted	in	mm	240		6,100
	4-24-2	Spreader width, extended	in	mm	480		12,200
	4-28	Slewing, 6° total	in	mm	+/- 9.4		+/- 240
4-30	Sideshift	in	mm	+/- 15.7		+/- 400	
4-31	Ground clearance, below mast - laden	in	mm	14.1		358	
4-32	Ground clearance, center of wheelbase	in	mm	13.0		329	
4-34-1	Aisle width, 20' container (no operating clearance)	in	mm	461		11,715	
4-34-2	Aisle width, 20' container with 7.8" (200 mm) operating clearance	in	mm	469		11,915	
4-34-3	Aisle width, 20' container with 10% operating clearance	in	mm	507		12,885	
4-34-4	Aisle width, 40' container (no operating clearance)	in	mm	553		14,045	
4-34-5	Aisle width, 40' container with 7.8" (200 mm) operating clearance	in	mm	561		14,245	
4-34-6	Aisle width, 40' container with 10% operating clearance	in	mm	608		15,450	
4-35	Outside turning radius	in	mm	316		8,015	
PERFORMANCE		TIER 4F					
	5-1	Travel speed, with / without load	mph	km/h	13.0	21	14.3 23
	5-1-1	Travel speed, with / without load, backwards	mph	km/h	13.0	21	14.3 23
	5-2	Lifting speed, with / without load	ft/min	m/s	51	0.26	59 0.30
	5-3	Lowering speed, with / without load	ft/min	m/s	98	0.50	98 0.50
	5-5	Drawbar pull - 1 mph (1.6 km/h) with / without load	lbs	kN	55,753	248	55,753 248
	5-5-1	Drawbar pull - stall with / without load	lbs	kN	61,822	275	61,822 275
	5-7	Gradeability - 1 mph (1.6 km/h), with / without load (6)	% 24		38		
	5-7-1	Gradeability - stall, with / without load (6)	% 34		46		
		TIER 3					
	5-1	Travel speed, with / without load	mph	km/h	13.0	21	14.3 23
	5-1-1	Travel speed, with / without load, backwards	mph	km/h	13.0	21	14.3 23
	5-2	Lifting speed, with / without load	ft/min	m/s	51	0.26	59 0.30
	5-3	Lowering speed, with / without load	ft/min	m/s	98	0.50	98 0.50
	5-5	Drawbar pull - 1 mph (1.6 km/h), with /without load	lbs	kN	55,753	248	55,753 248
	5-5-1	Drawbar pull - stall, with / without load	lbs	kN	61,822	275	61,822 275
5-7	Gradeability - 1 mph (1.6 km/h), with / without load (6)	% 24		38			
5-7-1	Gradeability - stall, with / without load (6)	% 34		46			

# H1150XD-CH 5-HIGH SPECIFICATIONS

GENERAL		Loaded container handler truck		5-high 18.00-25				
	1-1	Manufacturer		HYSTER				
	1-2	Model designation		H1150XD-CH				
	1-3	Drive		Diesel				
	1-4	Operator type		Seated				
	1-5-1	Rated load capacity - extended	lbs	kg	90,390		41,000	
	1-5-2	Rated load capacity - retracted	lbs	kg	90,390		41,000	
	1-6-1	Load center distance - extended	in	mm	69		1,749	
	1-6-2	Load center distance - retracted	in	mm	59		1,509	
	1-8	Load distance (1)	in	mm	35.4		900	
	1-9	Wheelbase	in	mm	232		5,900	
	1-10-1	Stacking height at first row (number x container height)			5 x 9'6"			
	1-10-2	Stacking height at first row (number x container height)			5 x 8'6"			
	WT	2-1	Total truck weight without load (2)	lbs	kg	170,885		77,512
2-2		Axle loading with load, front / rear	lbs	kg	236,591	107,316	26,753 12,135	
2-3		Axle loading without load, front / rear	lbs	kg	109,534	49,684	63,200 28,667	
WHEELS	3-1	Tire type			Pneumatic			
	3-2	Tire size, front			18.00 - 25 40PR			
	3-3	Tire size, rear			18.00 - 25 40PR			
	3-5	Number of tires, front / rear ( X driven )			x 4 / 2			
	3-6	Track width, front	in	mm	146		3,703	
	3-7	Track width, rear	in	mm	120		3,060	
	DIMENSIONS	4-1	Mast tilt, forward / back	degree		6 / 10		
4-2		Height, mast lowered (3)	in	mm	368		9,352	
4-3		Free lift	in	mm	0		0	
4-4-1		Lift height under twistlocks, minimum (4)	in	mm	90		2,280	
4-4-2		Lift height under twistlocks, maximum (4)	in	mm	588		14,930	
4-5		Height, mast extended	in	mm	681		17,293	
4-7		Height, top of operator compartment closed cab	in	mm	183.5		4,660	
4-7-1		Height, top of operator compartment closed cab without A/C	in	mm	185.2		4,703	
4-7-2		Height, top of operator compartment closed cab with A/C	in	mm	187.3		4,758	
4-7-3		Height, top of operator compartment with strobe light	in	mm	188.2		4,780	
4-7-4		Height, top of operator compartment closed cab with work lights	in	mm	190.5		4,839	
4-7-5		Height, top of operator compartment closed cab with A/C and strobe light	in	mm	188.2		4,780	
4-8		Seat height to SIP (5)	in	mm	139		3,525	
4-17		Overhang	in	mm	43		1,093	
4-19		Overall length	in	mm	421		10,698	
4-20		Length to face of spreader	in	mm	314		7,968	
4-21		Overall width across all of truck	in	mm	165		4,200	
4-23		Carriage spreader	Type		MPS Gantry			
4-24-1		Spreader width, retracted	in	mm	240		6,100	
4-24-2		Spreader width, extended	in	mm	480		12,200	
4-28		Slewing, 6° total	in	mm	+/- 9.4		+/- 240	
4-30		Sideshift	in	mm	+/- 15.7		+/- 400	
4-31		Ground clearance, below mast - laden	in	mm	14.1		357	
4-32	Ground clearance, center of wheelbase	in	mm	12.9		328		
4-34-1	Aisle width, 20' container (no operating clearance)	in	mm	461		11,715		
4-34-2	Aisle width, 20' container with 7.8" (200 mm) operating clearance	in	mm	469		11,915		
4-34-3	Aisle width, 20' container with 10% operating clearance	in	mm	507		12,885		
4-34-4	Aisle width, 40' container (no operating clearance)	in	mm	553		14,045		
4-34-5	Aisle width, 40' container with 7.8" (200 mm) operating clearance	in	mm	561		14,245		
4-34-6	Aisle width, 40' container with 10% operating clearance	in	mm	608		15,450		
4-35	Outside turning radius	in	mm	316		8,015		
PERFORMANCE	<b>TIER 4F</b>							
	5-1	Travel speed, with / without load	mph	km/h	13.0	21	14.3 23	
	5-1-1	Travel speed, with / without load, backwards	mph	km/h	13.0	21	14.3 23	
	5-2	Lifting speed, with / without load	ft/min	m/s	51	0.26	59 0.30	
	5-3	Lowering speed, with / without load	ft/min	m/s	98	0.50	98 0.50	
	5-5	Drawbar pull - 1 mph (1.6 km/h) with / without load	lbs	kN	55,753	248	55,753 248	
	5-5-1	Drawbar pull - stall with / without load	lbs	kN	61,822	275	61,822 275	
	5-7	Gradeability - 1 mph (1.6 km/h), with / without load (6)	%		24		38	
	5-7-1	Gradeability - stall, with / without load (6)	%		34		46	
	<b>TIER 3</b>							
	5-1	Travel speed, with / without load	mph	km/h	13.0	21	14.3 23	
	5-1-1	Travel speed, with / without load, backwards	mph	km/h	13.0	21	14.3 23	
	5-2	Lifting speed, with / without load	ft/min	m/s	51	0.26	59 0.30	
	5-3	Lowering speed, with / without load	ft/min	m/s	98	0.50	98 0.50	
	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load	lbs	kN	55,753	248	55,753 248	
	5-5-1	Drawbar pull - stall, with / without load	lbs	kN	61,822	275	61,822 275	
	5-7	Gradeability - 1 mph (1.6 km/h), with / without load (6)	%		24		38	
5-7-1	Gradeability - stall, with / without load (6)	%		34		46		



# H1 150XD-CH 6-HIGH SPECIFICATIONS

				6-high 18.00 25				6-high 18.00 33															
GENERAL	1-1	Loaded container handler truck		HYSTER				HYSTER															
	1-2	Manufacturer		H1150XD-CH																			
	1-3	Model designation		Diesel				Diesel															
	1-4	Drive		Seated				Seated															
	1-5-1	Operator type		lbs		kg		82,200		37,290		82,200		37,290									
	1-5-2	Rated load capacity - extended		lbs		kg		82,200		37,290		82,200		37,290									
	1-6-1	Rated load capacity - retracted		in		mm		69		1,749		69		1,749									
	1-6-2	Load center distance - extended		in		mm		59		1,509		59		1,509									
	1-8	Load center distance - retracted		in		mm		35.4		900		35.4		900									
	1-9	Load distance (1)		in		mm		232		5,900		232		5,900									
1-10-1	Wheelbase				6 x 9'6"				6 x 9'6"														
1-10-2	Stacking height at first row (number x container height)				6 x 8'6"				6 x 8'6"														
WT	2-1	Total truck weight without load (2)		lbs		kg		177,483		80,505		179,551		81,443									
	2-2	Axle loading with load, front / rear		lbs		kg		242,281		109,897		25,591		11,608		243,659		110,522		26,281		11,921	
	2-3	Axle loading without load, front / rear		lbs		kg		115,225		52,265		62,038		28,140		116,603		52,890		62,728		28,453	
WHEELS	3-1	Tire type		Pneumatic				Pneumatic															
	3-2	Tire size, front		18.00 - 25 40PR				18.00 - 33 40PR															
	3-3	Tire size, rear		18.00 - 25 40PR				18.00 - 33 40PR															
	3-5	Number of tires, front / rear ( X driven )		x 4 / 2				x 4 / 2															
	3-6	Track width, front		in		mm		173		4,400		173		4,400									
	3-7	Track width, rear		in		mm		120		3,060		120		3,060									
DIMENSIONS	4-1	Mast tilt, forward / back		degree		6 / 8				6 / 8													
	4-2	Height of mast lowered (3)		in		mm		425		10,802		429		10,895									
	4-3	Free lift		in		mm		0		0		0		0									
	4-4-1	Lift height under twistlocks, minimum (4)		in		mm		90		2,280		90		2,280									
	4-4-2	Lift height under twistlocks, maximum (4)		in		mm		702		17,830		702		17,830									
	4-5	Height, mast extended		in		mm		795		20,193		799		20,286									
	4-7	Height, top of operator compartment closed cab		in		mm		183.5		4,660		187.0		4,750									
	4-7-1	Height, top of operator compartment closed cab without A/C		in		mm		185.2		4,703		188.7		4,793									
	4-7-2	Height, top of operator compartment closed cab with A/C		in		mm		187.3		4,758		190.9		4,848									
	4-7-3	Height, top of operator compartment with strobe light		in		mm		188.2		4,780		191.8		4,872									
	4-7-4	Height, top of operator compartment closed cab with work lights		in		mm		190.5		4,839		194.1		4,931									
	4-7-5	Height, top of operator compartment closed cab with A/C and strobe light		in		mm		188.2		4,780		191.8		4,872									
	4-8	Seat height to SIP (5)		in		mm		138.8		3,525		142.3		3,615									
	4-17	Overhang		in		mm		43		1,093		43		1,093									
	4-19	Overall length		in		mm		421		10,698		421		10,698									
	4-20	Length to face of spreader		in		mm		314		7,968		314		7,968									
	4-21	Overall width across all of truck		in		mm		193		4,900		193		4,900									
	4-23	Carriage spreader		Type		MPS Gantry				MPS Gantry													
	4-24-1	Spreader width, retracted		in		mm		240		6,100		240		6,100									
	4-24-2	Spreader width, extended		in		mm		480		12,200		480		12,200									
	4-28	Slewing, 6° total		in		mm		+/- 9.4		+/- 240		+/- 9.4		+/- 240									
	4-30	Sideshift		in		mm		+/- 15.7		+/- 400		+/- 15.7		+/- 400									
	4-31	Ground clearance, lowest point		in		mm		14.1		357		17.8		452									
4-32	Ground clearance, center of wheelbase		in		mm		12.9		328		16.7		423										
4-34-1	Aisle width, 20' container (no operating clearance)		in		mm		461		11,715		461		11,715										
4-34-2	Aisle width, 20' container with 7.8" (200 mm) operating clearance		in		mm		469		11,915		469		11,915										
4-34-3	Aisle width, 20' container with 10% operating clearance		in		mm		507		12,885		507		12,885										
4-34-4	Aisle width, 40' container (no operating clearance)		in		mm		553		14,045		553		14,045										
4-34-5	Aisle width, 40' container with 7.8" (200 mm) operating clearance		in		mm		561		14,245		561		14,245										
4-34-6	Aisle width, 40' container with 10% operating clearance		in		mm		608		15,450		608		15,450										
4-35	Outside turning radius		in		mm		316		8,015		316		8,015										
PERFORMANCE	<b>TIER 4F</b>																						
	5-1	Travel speed, with / without load		mph		km/h		13.0		21		14.3		23		13.0		21		14.3		23	
	5-1-1	Travel speed, with / without load, backwards		mph		km/h		13.0		21		14.3		23		13.0		21		14.3		23	
	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		98		0.50		98		0.50		98		0.50	
	5-5	Drawbar pull - 1 mph (1.6 km/h) with / without load		lbs		kN		55,753		248		55,753		248		55,753		248		55,753		248	
	5-5-1	Drawbar pull - stall with / without load		lbs		kN		61,822		275		61,822		275		61,822		275		61,822		275	
	5-7	Gradeability - 1 mph (1.6 km/h), with / without load (6)		%		24				38				24				38					
	5-7-1	Gradeability - stall, with / without load (6)		%		34				46				34				46					
	<b>TIER 3</b>																						
	5-1	Travel speed, with / without load		mph		km/h		13.0		21		14.3		23		13.0		21		14.3		23	
	5-1-1	Travel speed, with / without load, backwards		mph		km/h		13.0		21		14.3		23		13.0		21		14.3		23	
	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		98.4		0.50		98.4		0.50		98.4		0.50		98		0.50	
5-5	Drawbar pull - 1 mph (1.6 km/h), with /without load		lbs		kN		55,753		248		55,753		248		55,753		248		55,753		248		
5-5-1	Drawbar pull - stall, with / without load		lbs		kN		61,822		275		61,822		275		61,822		275		61,822		275		
5-7	Gradeability - 1 mph (1.6 km/h), with / without load (6)		%		24				38				24				38						
5-7-1	Gradeability - stall, with / without load (6)		%		34				46				34				46						



			TIER 3				TIER 4			
GENERAL	1-1	Manufacturer	HYSTER				HYSTER			
	1-2	Model designation	H1050-H1150XD-CH				H1050-1150XD-CH			
	1-3	Powertrain / drivetrain	Diesel				Diesel			
ENGINE	7-1	Engine Manufacturer / model	Cummins / X12				Cummins / X12			
	7-1a	EPA / CE Compliance	Tier 3 / Stage IIIA				Tier 4 / Stage V			
	7-2	Engine power output - rated	hp	kW	335@2,100	250@2,100	355@2,000	265@2,000		
	7-2-1	Engine power output - peak	hp	kW	370@1,800	276@1,800	380@1,700	283@1,700		
	7-3-1	Engine torque @ rpm (1/min)	lb-ft	N-m	1,235@1500	1,674@1500	1,374@ 1,400	1,862@ 1,400		
	7-4	Number of cylinders / displacement	# / in3	# / cm3	6 / 720	6 / 11,800	6 / 720	6 / 11,800		
	x	Turbocharger	Type				Wastegate, water-cooled			
	7-8	Alternator output	Amps				110			
	7-9	Electrical system voltage	Volts				24			
	7-10	Battery voltage, rated capacity	V /Ah				24 / 102			
DRIVE	8-0	Drive control / transmission	Type				Powershift Transmission			
	8-1	Type of drive unit	Type				Torque Converter			
	8-2	Transmission manufacturer / type	Type				Dana Spicer Off-Highway TE-30			
	8-2-1	Transmission speeds forward / backward	#				5 / 3			
	8-3	Wheel drive / drive axle manufacturer / type	Type				Kessler D102			
	8-4	Service brake	Type				Oil immersed (wet) disc			
SPREADER	8-5	Parking brake	Type				Spring apply, dry disc on drive axle			
	9-1	Spreader manufacturer /type	Type				ELME / 818 Gantry Top Lift			
	9-2	Pile slope type	Type				Mechanical Pile Slope			
	9-3	Size of containers	ft				ISO 20' - 40'			
	9-4	Side shift	in	mm	+/- 15.7	+/- 400	+/- 15.7	+/- 400		
	9-5	Pile slope spreader	degrees				+/- 2.5			
	9-6	Rotation angle	degrees				+/- 3.0			
	9-7	Longitudinal adjustment	in	mm	+/- 9.4	+/- 240	+/- 9.4	+/- 240		
MISC	9-8	Telescoping time, extend / retract	seconds				12 / 12			
	10-1	Operating pressure for attachments	psi	bar	2,031	140	2,031	140		
	10-2	Oil volume for attachments	gpm	l/min	23	90	23	90		
	10-3	Hydraulic oil tank capacity, H1050 / H1150	gal	l	163	625	189	725		
	10-4	Fuel tank capacity	gal	l	222	855	222	855		
	10-4-1	DEF tank capacity	gal	l	N/A		24	92		
	10-5	Steering design	Type				Hydrostatic			
	10-6	Number of steering rotation	#				6.0			
10-7	Sound pressure level at driver's seat LwAZ	dB (A)				74				
10-7-1	Sound pressure level at driver's seat LwAZ	dB				109				

#### 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) Center of drive axle to front face of spreader.
- (2) Based on complete truck with cab, pneumatic tires, mast as specified and standard spreader.
- (3) Unladen with new tires
- (4) Distance from ground to twistlocks
- (5) Full suspension seat in depressed position
- (6) Gradeability figures are provided for comparison of tractive performance but are not intended to endorse the operation of the vehicle on the stated inclines.

#### 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 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.

**NOTE:** Specifications, unless otherwise listed, are for a standard truck without optional equipment.



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

Specification data is based on VDI 2198.

# CAPACITY CHARTS

ALL TIRES	H1150XD-CH 5-High Mast		H1150XD-CH 6-High Mast (6° fwd / 8° rwd Mast Tilt Required)									
	1st - 5th Container		1st - 5th Container		6th Container							
	MPS / PPS		MPS / PPS		MPS				PPS			
	Retracted / Extended		Retracted / Extended		Retracted		Extended		Retracted		Extended	
	lbs	kg	lbs	kg	lbs	kg	lbs	kg	lbs	kg	lbs	kg
	88,185	40,000	88,185	40,000	82,200	37,290	82,200	37,290	80,000	36,290	80,000	36,290

ALL TIRES	H1050XD-CH 4-High Mast		H1050XD-CH 5-High Mast									
	1st - 4th Container		1st - 4th Container		5th Container							
	MPS / PPS		MPS / PPS		MPS				PPS			
	Retracted / Extended		Retracted / Extended		Retracted		Extended		Retracted		Extended	
	lbs	kg	lbs	kg	lbs	kg	lbs	kg	lbs	kg	lbs	kg
	90,390	41,000	90,390	41,000	90,390	41,000	82,670	37,500	88,185	40,000	80,468	36,500



# FEATURES AND OPTIONS

PERFORMANCE	STD	OPT
Cummins x12 diesel engine rated 355 hp tier 4 / 265 kw stage v	x	
Cummins x12 diesel engine rated 335 hp tier 3 / 250 kw stage IIIA*	x	
Tier 4 / stage IV compliant	x	
Tier 3 / stage IIIA compliant	x	
Wastegate turbocharger, water cooled	x	
Hibernate idle	x	
On-demand cooling fan	x	
120 Amp alternator	x	
Performance modes selectable in integrated performance display	x	
Heavy duty air intake	x	
Spicer off-highway TE-30 5-speed auto-shifting transmission	x	
Kessler D102 drive axle with wet disc brakes	x	
Kessler D102 extra wide drive axle with wet disc brakes (mandatory for 6-high)		x
DRIVE	STD	OPT
Travel speed limiter - unconditional and customer adjustable		x
Travel speed limiter - loaded - based on container position, mast tilt and spreader slewing		x
18.00-25 40PR Pneumatic bias ply drive and steer tires	x	
18.00-33 36PR Pneumatic bias ply drive and steer tires		x
18.00-R25 Michelin XZM2 plus pneumatic radial drive and steer tires		x
18.00-R25 Goodyear slick radial drive and steer tires		x
18.00-R36 Michelin XZM pneumatic radial drive and steer tires		x
LIFT	STD	OPT
Hydraulic system with triple gear pump	x	
On-demand load sensing hydraulic system	x	
Automatic throttle-up when lifting (in neutral or inching)	x	
2-stage non free lift mast for 3-high stacking		x
2-stage non free lift mast for 4-high stacking		x
2-stage non free lift mast for 5-high stacking	x	
2-stage non free lift mast for 6-high stacking		x
Mast tilt - 6° forward / 8° back	x	
Mast tilt - 6° forward / 10° back		x
Hydraulic accumulator	x	
Hydraulic system temperature protection with performance de-rate		x
HANDLING	STD	OPT
CANbus spreader, Hyster model 818 with gantry carriage	x	
CANbus spreader controls	x	
Mechanical pile slope	x	
Powered pile slope		x
Wide twistlock position (WTP) container handling spreader		x
4 Lifting eyes located on end beam corners	x	
4 Lifting eyes located under center beam of spreader		x
Spreader guides located 19.9" (506mm) inwards from center of spreader end beam		x
Automatic one-touch extend/retract (20'/40') for spreader		x
Mast tilt indicator - mechanical	x	
Stops for 30' containers		x
Stops for 20-40' containers		x

HANDLING (CONTINUED)	STD	OPT
Overlowering protection	x	
Additional overlowering protection (interrupts lowering if twistlocks are not seated.)		x
ERGONOMICS	STD	OPT
Enclosed operator cabin	x	
Auto tip-up cabin 10°		x
Isolated cabin mounting for low noise and vibration	x	
Mechanical suspension seat	x	
Air suspension seat		x
Deluxe air suspension seat		x
Low backrest seat	x	
High backrest seat		x
Armrest on left side	x	
Cloth seat cover	x	
Vinyl seat cover		x
Seat heating		x
Seat ventilation		x
2-point high visibility seatbelt	x	
3-point high visibility seatbelt		x
Lateral seat sliding mechanism		x
Floor mat	x	
Interior dome light	x	
Front, top and rear wipers	x	
"H"-pattern front wiper		x
"I"-pattern front wiper	x	
Intermittent wipers	x	
Front and rear window defrosters	x	
Tinted operator compartment windows (top, rear and door)		x
Tinted operator compartment top window		x
Left side handrails, stairway and cabin door	x	
Right side door	x	
Right side handrails and stairway		x
Wire mesh installed on top of operator compartment		x
7" Integrated performance display	x	
Joystick hydraulic control integrated in control arm	x	
Steering wheel with spinner knob	x	
Directional control on joystick		x
Park brake - push button applied	x	
Park brake - automatically applied		x
Interior wide angle mirrors	x	
Heater with adjustable speed fan	x	
Telescoping & tilting steering column	x	
USB outlet inside armrest	x	
24-12-volt DC converter with 1 socket and 2 USB outlets	x	
24-12-volt DC converter with 2 sockets and 2 USB outlets		x
Air conditioning		x
Automatic climate control		x
Reading light		x
Sun shades on top and rear		x
Sun visors front window		x

# FEATURES AND OPTIONS


<b>ERGONOMICS (CONTINUED)</b>	<b>STD</b>	<b>OPT</b>
Cloth trainer seat with 2-point seatbelt		x
Recirculation fan	x	
Accessory mounting bracket on cab front right pillar		x
Document holder on cab front right pillar		x
Heated top window		x
Radio preparation with 2 speakers and antenna		x
<b>VISIBILITY</b>	<b>STD</b>	<b>OPT</b>
Top window with armoured glass	x	
Steel bars under armored glass top window		x
External wide angle mirrors mounted on rear of front fenders	x	
Exterior mirrors mounted to handrails		x
Rear view camera system		x
Radar object detection system		x
Halogen work lights	x	
High performance led work lights		x
Four halogen head lights mounted on front fenders	x	
Four led head lights mounted on front fenders		x
Four cabin mounted work lights		x
Two rearward work lights mounted on the cabin	x	
LED stop/tail/brake lights	x	
Turn signals, hazard & marker lights (LED)	x	
One engine compartment light	x	
<b>OPERATION</b>	<b>STD</b>	<b>OPT</b>
Air horn 112 DBA	x	
Visible alarm – amber strobe light, ignition activated	x	
Audible alarm – reverse direction activated	x	
Forward motion alarm		x
Seatbelt interlock for engine start and truck operation		x
Green seatbelt indicator light on top of operator cabin		x
Hydraulic load weighing system		x
Tire pressure monitoring system		x

<b>OPERATION (CONTINUED)</b>	<b>STD</b>	<b>OPT</b>
Air conditioning shut-off with open door		x
Automatic engine shutdown with timer		x
Delayed engine shutdown for turbo cool down		x
Lockable battery disconnect switch	x	
Battery jump start connector (nato plug)		x
Truck start with key switch and start button	x	
Operator password (display) for truck start	x	
Fuses below 30 amps replaced by electric circuit breakers		x
Non-lockable fuel cap	x	
Lockable fuel cap		x
Fuel strainer in fuel filler neck		x
Hyster Tracker™ wireless asset management - access / verification		x
Hyster Tracker™ wireless asset management - monitoring	x	
Auto greasing system for spreader		x
Auto greasing system for base truck		x
Centralized greasing provision for upper chain sheaves		x
24-volt electrical system	x	
Engine block heater 110 or 240-volt		x
Second hour meter reader near fuel tank		x
Steer wheel lug nut protection	x	
<b>APPEARANCE</b>	<b>STD</b>	<b>OPT</b>
Hyster yellow paint base truck	x	
Special paint base truck		x
Hazard warning striping on counterweight		x
<b>SUPPLEMENTAL</b>	<b>STD</b>	<b>OPT</b>
Literature package	x	
Operator's manual	x	
CE certification		x
Warranty: 12 months / 2,000 hours parts manufacturer's warranty*	x	



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