



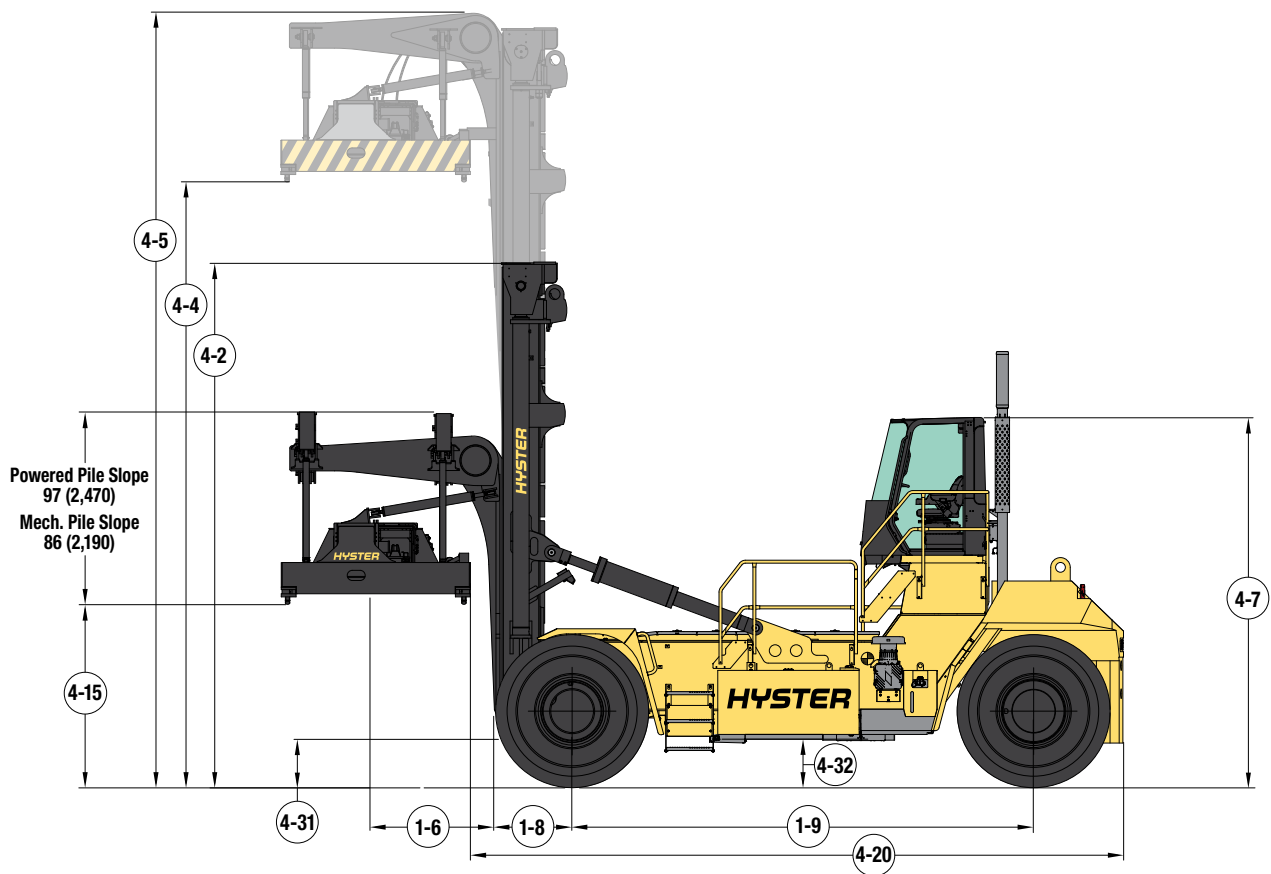
**STRONG PARTNERS.
TOUGH TRUCKS.™**

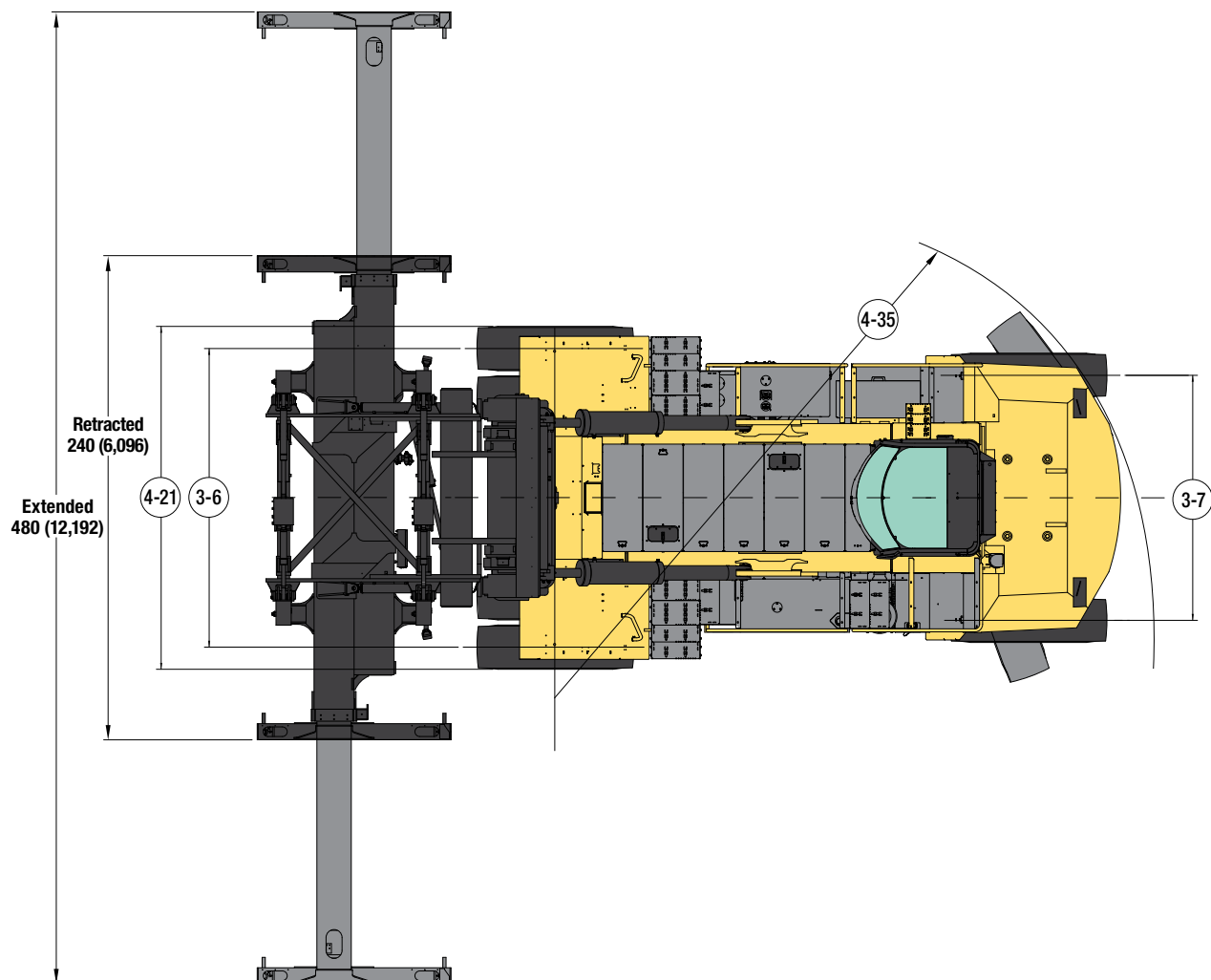


H1050-1150HD-CH SERIES TECHNICAL GUIDE

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> DIMENSIONS







H1050HD-CH4 / H1050HD-CH5 SPECIFICATIONS

GENERAL	Loaded Container Handler Truck			4-high 18.00 25				5-high 18.00 25				
	1-1	Manufacturer			HYSTER				HYSTER			
	1-2	Model designation			H1050HD-CH4				H1050HD-CH5			
	1-3	Drive			Diesel				Diesel			
	1-4	Operator type			Seated				Seated			
	1-5-1	Rated load capacity - extended	lbs	kg	90,390		41,000		82,670		37,500	
	1-5-2	Rated load capacity - retracted	lbs	kg	90,390		41,000		90,390		41,000	
	1-6-1	Load center distance - extended	in	mm	69		1,749		69		1,749	
	1-6-2	Load center distance - retracted	in	mm	59		1,509		59		1,509	
	1-8	Load distance	in	mm	35.4		900		35.4		900	
	1-9	Wheelbase	in	mm	232		5,900		232		5,900	
	1-10-1	Stacking height at first row (number x container height)			4 x 9'6"				5 x 9'6"			
	1-10-2	Stacking height at first row (number x container height)			4 x 8'6"				5 x 8'6"			
WT	2-1	Total truck weight without load	lbs	kg	158,914		72,082		164,383		74,563	
	2-2	Axle loading with load, front / rear	lbs	kg	228,846	103,803	20,216	9,170	234,858	106,530	19,674	8,924
	2-3a	Axle loading without load, front / rear	lbs	kg	101,790	46,171	57,124	25,911	107,802	48,898	56,582	25,665
WHEELS	3-1	Tire type			Pneumatic				Pneumatic			
	3-2	Tire size, front			18.00 - 25 40PR				18.00 - 25 40PR			
	3-3	rear			18.00 - 25 40PR				18.00 - 25 40PR			
	3-5	Number of tires, front / rear (X driven)			x 4 / 2				x 4 / 2			
	3-6	Track width, front	in	mm	146		3,703		146		3,703	
3-7	Track width, rear	in	mm	120		3,060		120		3,060		
DIMENSIONS	4-1	Mast tilt, forward / back	degree		6 / 10				6 / 10			
	4-2	Height, mast lowered	in	mm	314		7,966		368		9,357	
	4-3	Free lift	in	mm	0		0		0		0	
	4-4	Lift height under twistlocks	in	mm	384		9,754		384		9,754	
	4-4-1	Lift height at load center c1, minimum	in	mm	90		2,280		90		2,280	
	4-4-2	Lift height at load center c1, maximum	in	mm	474		12,034		588		14,930	
	4-5	Height, mast extended	in	mm	524		13,320		681		17,298	
	4-7	Height of closed cab	in	mm	183.5		4,660		183.5		4,660	
	4-7-1	Height of closed cabin without / with air conditioning	in	mm	185.2	4,703	187.3	4,758	185.2	4,703	187.3	4,758
	4-7-2	Height of closed cab with strobe light	in	mm	188.2		4,780		188.2		4,780	
	4-7-3	Height of closed cabin with work lights	in	mm	190.5		4,839		190.5		4,839	
	4-7-4	Height of closed cabin with air conditioning and strobe light	in	mm	188.2		4,780		188.2		4,780	
	4-8	Seat height to SIP	in	mm	138.8		3,525		138.8		3,525	
	4-12	Coupling height	in	mm	0		0		0		0	
	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	165		4,200		165		4,200	
	4-23	Carriage spreader	Type		MPS Gantry				MPS Gantry			
	4-24	Spreader width, retracted / extended	in	mm	240	6,100	480	12,200	240	6,100	480	12,200
	4-28	Reach distance	in	mm	+/- 9.4		+/- 240		+/- 9.4		+/- 240	
	4-30	Reach lateral from vehicle center line	in	mm	+/- 15.7		+/- 400		+/- 15.7		+/- 400	
	4-31	Ground clearance, lowest point	in	mm	14.1		358		14.1		358	
	4-32	Ground clearance, center of wheelbase	in	mm	13.0		329		13.0		329	
	4-34-3	Aisle width with 7.8" (200mm) operating clearance: 20' container	in	mm	469		11,915		469		11,915	
	4-34-4	Aisle width with 7.8" (200mm) operating clearance: 40' container	in	mm	561		14,245		561		14,245	
	4-35	Outside turning radius	in	mm	316		8,015		316		8,015	
	PERFORMANCE	TIER 4F										
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	49	0.25	53	0.27	49	0.25	53	0.27
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	%		24		38		24		38	
5-7-1		Gradeability - stall, with / without load	%		34		46		34		36	
5-9		Acceleration time, with / without load	s		On request				On request			
TIER 3												
5-1		Travel speed, with / without load	mph	km/h	12.6	20	14.3	23	12.6	20	14.3	23
5-1-1		Travel speed, with / without load, backwards	mph	km/h	12.6	20	14.3	23	12.6	20	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	75,374	335	76,780	342	75,374	335	76,780	342
5-5-1		Drawbar pull - stall, with / without load	lbs	kN	104,374	464	105,780	471	104,374	464	105,780	471
5-7		Gradeability - 1 mph (1.6 km/h, with / without load	%		33		47		33		47	
5-7-1		Gradeability - stall, with / without load	%		48		47		48		47	
5-9		Acceleration time, with / without load	s		On request				On request			

H1150HD-CH4 / H1150HD-CH5 SPECIFICATIONS



GENERAL		Loaded Container Handler Truck			4-high 18.00 25				5-high 18.00 25			
	1-1	Manufacturer			HYSTER				HYSTER			
	1-2	Model designation			H1150HD-CH4				H1150HD-CH5			
	1-3	Drive			Diesel				Diesel			
	1-4	Operator type			Seated				Seated			
	1-5-1	Rated load capacity - extended	lbs	kg	90,390		41,000		90,390		41,000	
	1-5-2	Rated load capacity - retracted	lbs	kg	90,390		41,000		90,390		41,000	
	1-6-1	Load center distance - extended	in	mm	69		1,749		69		1,749	
	1-6-2	Load center distance - retracted	in	mm	59		1,509		59		1,509	
	1-8	Load distance	in	mm	35.4		900		35.4		900	
	1-9	Wheelbase	in	mm	232		5,900		232		5,900	
	1-10-1	Stacking height at first row (number x container height)			4 x 9'6"				5 x 9'6"			
	1-10-2	Stacking height at first row (number x container height)			4 x 8'6"				5 x 8'6"			
WT	2-1	Total truck weight without load	lbs	kg	165,415		75,031		170,664		77,412	
	2-2	Axle loading with load, front / rear	lbs	kg	229,199	103,963	25,263	11,459	235,211	106,690	25,602	11,613
WHEELS	2-3a	Axle loading without load, front / rear	lbs	kg	102,142	46,331	62,170	28,200	108,154	49,058	62,510	28,354
	3-1	Tire type			Pneumatic				Pneumatic			
	3-2	Tire size, front			18.00 - 25 40PR				18.00 - 25 40PR			
	3-3	rear			18.00 - 25 40PR				18.00 - 25 40PR			
	3-5	Number of tires, front / rear (X driven)			x 4 / 2				x 4 / 2			
	3-6	Track width, front	in	mm	146		3,703		146		3,703	
	3-7	Track width, rear	in	mm	120		3,060		120		3,060	
DIMENSIONS	4-1	Mast tilt, forward / back	degree		6 / 10				6 / 10			
	4-2	Height, mast lowered	in	mm	314		7,966		368		9,352	
	4-3	Free lift	in	mm	0		0		0		0	
	4-4	Lift height under twistlocks	in	mm	384		9,754		498		12,650	
	4-4-1	Lift height at load center c1, minimum	in	mm	90		2,280		90		2,280	
	4-4-2	Lift height at load center c1, maximum	in	mm	474		12,034		588		14,930	
	4-5	Height, mast extended	in	mm	524		13,320		681		17,293	
	4-7	Height of closed cab	in	mm	183.5		4,660		183.5		4,660	
	4-7-1	Height of closed cabin without / with air conditioning	in	mm	185.2	4,703	187.3	4,758	185.2	4,703	187.3	4,758
	4-7-2	Height of closed cab with strobe light	in	mm	188.2		4,780		188.2		4,780	
	4-7-3	Height of closed cabin with work lights	in	mm	190.5		4,839		190.5		4,839	
	4-7-4	Height of closed cabin with air conditioning and strobe light	in	mm	188.2		4,780		188.2		4,780	
	4-8	Seat height to SIP	in	mm	138.8		3,525		138.8		3,525	
	4-12	Coupling height	in	mm	0		0		0		0	
	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	165		4,200		165		4,200	
	4-23	Carriage spreader	Type		MPS Gantry				MPS Gantry			
	4-24	Spreader width, retracted / extended	in	mm	240	6,100	480	12,200	240	6,100	480	12,200
	4-28	Reach distance	in	mm	+/- 9.4		+/- 240		+/- 9.4		+/- 240	
	4-30	Reach lateral from vehicle center line	in	mm	+/- 15.7		+/- 400		+/- 15.7		+/- 400	
	4-31	Ground clearance, lowest point	in	mm	14.1		357		14.1		357	
	4-32	Ground clearance, center of wheelbase	in	mm	12.9		328		12.9		328	
	4-34-3	Aisle width with 7.8" (200mm) operating clearance: 20' container	in	mm	469		11,915		469		11,915	
	4-34-4	Aisle width with 7.8" (200mm) operating clearance: 40' container	in	mm	561		14,245		561		14,245	
	4-35	Outside turning radius	in	mm	316		8,015		316		8,015	
PERFORMANCE		TIER 4F										
	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	49	0.25	53	0.27	49	0.25	53	0.27
	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	%		24		38		24		38	
	5-7-1	Gradeability - stall, with / without load	%		34		46		34		46	
	5-9	Acceleration time, with / without load	s		On request				On request			
		TIER 3										
	5-1	Travel speed, with / without load	mph	km/h	12.6	20	14.3	23	12.6	20	14.3	23
	5-1-1	Travel speed, with / without load, backwards	mph	km/h	12.6	20	14.3	23	12.6	20	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	75,124	334	76,515	340	75,124	334	76,515	340
	5-5-1	Drawbar pull - stall, with / without load	lbs	kN	104,124	463	105,515	469	104,124	463	105,515	469
	5-7	Gradeability - 1 mph (1.6 km/h, with / without load	%		31		46		31		46	
	5-7-1	Gradeability - stall, with / without load	%		45		46		45		46	
	5-9	Acceleration time, with / without load	s		On request				On request			

H1150HD-CH6 SPECIFICATIONS

GENERAL		Loaded Container Handler Truck			6-high 18.00 25				6-high 18.00 33			
	1-1	Manufacturer			HYSTER				HYSTER			
	1-2	Model designation			H1150HD-CH6				H1150HD-CH6			
	1-3	Drive			Diesel				Diesel			
	1-4	Operator type			Seated				Seated			
	1-5-1	Rated load capacity - extended	lbs	kg	81,570		37,000		81,570		37,000	
	1-5-2	Rated load capacity - retracted	lbs	kg	81,570		37,000		81,570		37,000	
	1-6-1	Load center distance - extended	in	mm	69		1,749		69		1,749	
	1-6-2	Load center distance - retracted	in	mm	59		1,509		59		1,509	
	1-8	Load distance	in	mm	35.4		900		35.4		900	
	1-9	Wheelbase	in	mm	232		5,900		232		5,900	
	1-10-1	Stacking height at first row (number x container height)			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	lbs	kg	177,263		80,405		179,551		81,443	
	2-2	Axle loading with load, front / rear	lbs	kg	242,480	109,987	28,733	13,033	243,659	110,522	29,423	13,346
	2-3a	Axle loading without load, front / rear	lbs	kg	115,225	52,265	62,038	28,140	116,823	52,990	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	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, mast lowered	in	mm	425		10,802		429		10,895	
	4-3	Free lift	in	mm	0		0		0		0	
	4-4	Lift height under twistlocks	in	mm	612		15,550		612		15,550	
	4-4-1	Lift height at load center c1, minimum	in	mm	90		2,280		90		2,280	
	4-4-2	Lift height at load center c1, maximum	in	mm	702		17,830		702		17,830	
	4-5	Height, mast extended	in	mm	795		20,193		799		20,286	
	4-7	Height of closed cab	in	mm	183.5		4,660		187.0		4,750	
	4-7-1	Height of closed cabin without / with air conditioning	in	mm	185.2	4,703	187.3	4,758	188.7	4,793	190.9	4,848
	4-7-2	Height of closed cab with strobe light	in	mm	188.2		4,780		191.8		4,872	
	4-7-3	Height of closed cabin with work lights	in	mm	190.5		4,839		194.1		4,931	
	4-7-4	Height of closed cabin with air conditioning and strobe light	in	mm	188.2		4,780		191.8		4,872	
	4-8	Seat height to SIP	in	mm	138.8		3,525		142.3		3,615	
	4-12	Coupling height	in	mm	0		0		0		0	
	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	Spreader width, retracted / extended	in	mm	240	6,100	480	12,200	240	6,100	480	12,200
	4-28	Reach distance	in	mm	+/- 9.4		+/- 240		+/- 9.4		+/- 240	
	4-30	Reach lateral from vehicle center line	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	
	4-34-3	Aisle width with 7.8" (200mm) operating clearance: 20' container	in	mm	469		11,915		469		11,915	
	4-34-4	Aisle width with 7.8" (200mm) operating clearance: 40' container	in	mm	561		14,245		561		14,245	
	4-35	Outside turning radius	in	mm	316		8,015		316		8,015	
	PERFORMANCE		TIER 4F									
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	49	0.25	53	0.27	49	0.25	53	0.27
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	%		24		38		24		38	
5-7-1		Gradeability - stall, with / without load	%		34		46		34		46	
5-9		Acceleration time, with / without load	s		On request				On request			
		TIER 3										
5-1		Travel speed, with / without load	mph	km/h	12.6	20	14.3	23	13.5	22	14.3	23
5-1-1		Travel speed, with / without load, backwards	mph	km/h	12.6	20	14.3	23	13.5	22	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	75,124	334	76,515	340	76,095	338	77,639	345
5-5-1		Drawbar pull - stall, with / without load	lbs	kN	104,124	463	105,515	469	92,506	411	94,050	418
5-7		Gradeability - 1 mph (1.6 km/h, with / without load	%		31		46		30		46	
5-7-1		Gradeability - stall, with / without load	%		45		46		37		46	
5-9		Acceleration time, with / without load	s		On request				On request			

				TIER 3				TIER 4F					
GENERAL	1-1	Manufacturer				HYSTER				HYSTER			
	1-2	Model designation								H1150-CH6			
	1-3	Power type				Diesel				Diesel			
ENGINE	7-1	Engine Manufacturer / model				Cummins / QSM 11				Cummins / QSL 9			
	7-1a	EPA / CE Compliance				Tier 3 / Stage IIIA				Tier 4F / Stage IV			
	7-2a	Engine power output - Rated	hp	kW	335	250	350	261					
	7-2b	Engine power output - Peak	hp	kW	365	272	380	283					
	7-3	Rated speed	rpm		2,100	2,100							
	7-3-1	Engine torque @ 1500 rpm (1/min)	lb-ft	N-m	1,235@1400	1,674@1400	1,201@ 1,500	1,627@ 1,500					
	7-4	Number of cylinders / displacement	# / in3	# / cm3	6 / 659	6 / 10,800	6 / 543	6 / 8,900					
	x	Turbocharger	Type		Wastegate, water-cooled	Variable geometry, water-cooled							
	7-8	Alternator output	Amps		120	120							
	7-9	Electrical system voltage	Volts		24	24							
7-10	Battery voltage, rated capacity	V /Ah		24 / 102	24 / 102								
DRIVE	8-1	Drive control / Transmission	Type		Powershift Transmission	Powershift Transmission							
	8-2	Transmission manufacturer / type	Type		Spicer Off-Highway TE-32	Spicer Off-Highway TE-32							
	8-4	Transmission speeds 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 disc	Oil immersed (wet) disc							
8-12	Parking brake	Type		Spring applied, dry disc on drive axle	Spring applied, dry disc on drive axle								
SPREADER	9-1	Spreader manufacturer / type	Type		ELME / 818 Gantry Top Lift	ELME / 818 Gantry Top Lift							
	9-2	Pile slope type	Type		Mechanical Pile Slope	Mechanical Pile Slope							
	9-3	Size of containers	ft		ISO 20' - 40'	ISO 20' - 40'							
	9-4	Side shift	in	mm	+/- 8.5	+/- 216	+/- 8.5	+/- 216					
	9-5	Pile slope	degrees		+/- 2.5	+/- 2.5							
	9-6	Rotation angle	degrees		+/- 3.0	+/- 3.0							
9-7	Longitudinal adjustment	in	mm	+/- 9.4	+/- 240	+/- 9.4	+/- 240						
9-8	Telescoping time, extend / retract	seconds		12 / 12	12 / 12								
MISC	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	163	625	189	725	
	10-4	Fuel tank capacity	gal	l	216	830	216	830					
	10-4-1	DEF tank capacity	gal	l	N/A		15	57					
	10-5	Steering design			Hydrostatic		Hydrostatic						
	10-6	Number of steering rotation	#		6.0		6.0						
10-7	Sound pressure level at driver's seat LpAZ	dB (A)		74		74							
10-7a	Sound pressure level at driver's seat LwAZ	dB (A)		109		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) Weights are based on the following specifications: Complete truck with cab, pneumatic tires, mast as specified, carriage as specified and 20' – 40' spreader.
- (3) Unladen with new tires
- (4) Spreader, distance from ground to twistlocks.
- (5) Full suspension seat in depressed position
- (6) Capacity 40,000 at 5 high position.
- (7) Distance center truck to center of internal turning radius
- (8) Gradeability figures are provided for comparison of tractive performance, but are not intended to endorse the operation of vehicle on the stated inclines. Follow instructions in the operating manual regarding operation on inclines.
- (9) Measured according to the test cycles and based on the weighting values contained in EN12053.



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 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.

Specification data is based on VDI 2198.



RATED CAPACITIES AND STACKING HEIGHTS

2 STAGE NFL MAST	H1050HD-CH (Gantry)																					
	Stacking height	Max lift height under twistlocks		min. under twistlock		max. under twistlock		Lowered height		Extended height		Sideshift		Tilt fwd/ rwd	Truck width		Capacity					
																	Retracted *		Extended *			
		4-4		4-4-1		4-4-2		4-2		4-5		4-30			4-1		4-21		1-5-2		1-5-1	
																			@ 59 in	@ 1,509 mm	@ 69 in	@ 1,749 mm
	8'6 - 9'6	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	degrees	in	mm	lbs	kg	lbs	kg		
3 high	276	7,010	90	2,280	366	9,290	261	6,631	463	11,752	+/- 16	+/- 400	6/10	165	4,200	88,185	40,000	88,185	40,000			
4 high	384	9,754	90	2,280	474	12,034	315	8,003	571	14,496	+/- 16	+/- 400	6/10	165	4,200	88,185	40,000	88,185	40,000			
5 high	498	12,650	90	2,280	588	14,930	372	9,451	685	17,392	+/- 16	+/- 400	6/10	165	4,200	88,185	40,000	80,469	36,500			

* Capacity without Powered Pile Slope is 1.000 kg higher.

2 STAGE NFL MAST	H1150HD-CH (Gantry)																					
	Stacking height	Max lift height under twistlocks		min. under twistlock		max. under twistlock		Lowered height		Extended height		Sideshift		Tilt fwd/ rwd	Truck width		Capacity					
																	Retracted *		Extended *			
		4-4		4-4-1		4-4-2		4-2		4-5		4-30			4-1		4-21		1-5-2		1-5-1	
																			@ 59 in	@ 1,509 mm	@ 69 in	@ 1,749 mm
	8'6 - 9'6	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	degrees	in	mm	lbs	kg	lbs	kg		
3 high	276	7,010	90	2,280	366	9,290	261	6,631	463	11,752	+/- 16	+/- 400	6/10	165	4,200	88,185	40,000	88,185	40,000			
4 high	384	9,754	90	2,280	474	12,034	315	8,003	571	14,496	+/- 16	+/- 400	6/10	165	4,200	88,185	40,000	88,185	40,000			
5 high	498	12,650	90	2,280	588	14,930	372	9,451	685	17,392	+/- 16	+/- 400	6/10	165	4,200	88,185	40,000	88,185	40,000			
6 high	612	15,550	90	2,280	702	17,830	429	10,901	799	20,292	+/- 16	+/- 400	6/8	193	4,900	80,000	36,290	80,000	36,290			

* Capacity without Powered Pile Slope is 1.000 kg higher.

ALL TIRES	H1150HD-CH 5-High Mast		H1150HD-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	H1050HD-CH 4-High Mast		H1050HD-CH 5-High Mast					
	1st - 4th Container		1st - 4th Container		5th Container			
	MPS / PPS		MPS / PPS		MPS / PPS			
	Retracted / Extended		Retracted / Extended		Retracted		Extended	
	lbs	kg	lbs	kg	lbs	kg	lbs	kg
	88,185	40,000	88,185	40,000	88,185	40,000	80,469	36,500



> FEATURES AND OPTIONS

ENGINE – TIER 4 FINAL

Cummins QSL 6-cylinder diesel engine delivers 350 hp rated (363 hp peak) and 1200 lb-ft of maximum torque. EPA Tier 4 Final compliant engine features cooled exhaust gas recirculation (EGR) technology with selective catalytic reduction (SCR) and an integrated diesel exhaust fluid (DEF) delivery system.

A 2-stage diesel oxidation catalyst (DOC) is also included for particulate matter (PM) reduction. Innovative selectable ECO performance modes offer excellent fuel economy and maximum productivity providing up to 20% fuel consumption³ reduction over Tier 3 baseline engines. Hibernate idle saves fuel by lowering engine speed when functions are not being used.

Also includes:

- Water-cooled variable geometry turbocharger
- 120 amp alternator
- Automatic throttle-up on hoist enables engine to run in most efficient rpm range.
- Standard diffuser for exhaust temperature reduction

OPTIONAL ENGINE – TIER 3

(not available for US and Canada)

Cummins QSB 6-cylinder diesel engine delivers rated 335 hp (365 hp peak) and 1235 lb-ft of maximum torque. EPA Tier 3 compliant. Also includes:

- Water-cooled wastegate turbocharger
- 120 amp alternator

CONTAINER ATTACHMENT

Equipped with Hyster® model 818 Gantry mounted spreader. Extends from 20' to 40' to handle both ISO and domestic with twistlock pockets in the standard ISO position. The spreader features 31.5" of sideshift; 3 degrees of mechanical pile slope; 4 twistlocks to engage corner castings; and 1 lifting eye in each of the 4 corners.

- Powered Pile Slope is optional allowing the operator to control the horizontal orientation of the spreader hydraulically by raising/lowering either the right or left side of the spreader up to 6 degrees.
- Includes container counter
- Electronic Twistlock Position indicator with LED signals and audible tone inside the cab

HYDRAULIC SYSTEM.

- Leak-free ORFS fittings
- Parker Hannifin gear-type pumps

ELECTRICAL SYSTEM

- Sealed Deutsch connectors
- CANbus system for easy diagnostics of engine, transmission, hydraulics and spreader.

OPERATOR AREA

- Ergonomically designed hydraulic controls and direction control lever are within easy reach.
- Angled floor plate and pedals are positioned for operator comfort.
- Telescopic, tilt steer column.
- Several air suspension seat options are available.
- Tilting cab for increased visibility for high stacking.

PERFORMANCE	STD	OPT
Cummins QSL 9L diesel engine rated 350 hp Tier 4 / 271 kW Stage IV *	X	
Cummins QSM 11L diesel engine rated 335 hp Tier 3 / 250 kW Stage IIIA *	X	
Tier 4 / Stage IV compliant*	X	
Tier 3 / Stage III compliant*	X	
Hibernate Idle*	X	
Hydraulically driven on-demand cooling fan*	X	
Wastegate turbocharger*	X	
120 amp alternator	X	
Powertrain protection system	X	
Spicer Off-Highway TE-32 4-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
Traction speed limiter - unconditional (adjustable)	X	
Traction speed limiter based on container carrying and tilt position		X
18.00-25 40PR Pneumatic Bridgestone STMS Slick drive and steer tires		X
Radial 18.00-25 R25 Michelin XZM drive and steer tires		X
18.00-R25 Goodyear EV-5S Slick Radial drive and steer tires		X
18.00-33 36PR Pneumatic Bias Ply drive and steer tires		X
18.00-25 40PR Pneumatic Bias Ply drive and steer tires	X	
Radial 18.00-33 R33 Michelin XZM drive and steer tires		X

LIFT	STD	OPT
Hydraulic System with Triple Gear Pump	X	
Automatic Throttle-up when lifting (in neutral or inching)*	X	
2 Stage Boom for 5-high 1st row stacking	X	
2 Stage Boom for 3-high 1st row stacking		X
2 Stage Boom for 4-high 1st row stacking		X
2 Stage Boom for 6-high 1st row stacking		X
Hydraulic system temperature protection	X	
HANDLING	STD	OPT
CANBus Spreader, ELME Model 818 with Gantry carriage	X	
Mechanical Pile Slope	X	
Powered Pile Slope		X
4 lifting eyes located on end beam corners	X	
4 lifting eyes located under center beam of spreader		X
Spreader Guides located at end of spreader beams		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
Over-lowering protection		X

FEATURES AND OPTIONS <

ERGONOMICS	STD	OPT
Auto Tip-Up Cabin 10°		X
Isolated mounting for low noise and vibration	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
Floor mat	X	
Front, top and rear wipers	X	
"H"-pattern front wiper		X
"I"-pattern front wiper	X	
Left side handrails, stairway and cabin door	X	
Right side handrails, stairway and cabin door		X
7" digital operator display	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
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
Air conditioning		X
Reading light		X
Sun shades on top and rear		X
Trainer seat		X
Recirculation fan	X	
Rear locking console		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
IT console		X

*Standard or optional in selected markets. Other options available through Special Products Engineering Department (SPED). Contact Hyster for details.

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	
Forward motion alarm		X
Seatbelt interlock for engine start		X
Green seatbelt indicator light on top of operator cabin		X
Hydraulic load weighing system		X
Tire pressure monitoring system		X
Lockable battery disconnect switch	X	
Battery jump start connector (NATO plug)		X
"Empty seat" engine shutdown, adjustable automatically		X
Non-lockable fuel cap	X	
Lockable fuel cap		X
Diesel fuel inlet strainer in filler neck		X
Hyster Tracker wireless asset management system	X	
Hyster Tracker wireless asset management - Access / Verification		X
Hyster Tracker wireless asset management - Monitoring		X
Centralized Greasing provision for mast upper chain sheaves -> double, see below		X
Auto greasing system for basic truck & outer mast		X
Auto greasing system for spreader		X
24 volt electrical system	X	
Engine block heater 110 & 240 volt		X
Second hour meter reader on fuel tank		X
Steer wheel lug nut protection	X	
Engine compartment light		X
VISIBILITY	STD	OPT
External wide angle mirrors mounted on top of front fenders	X	
Rear view camera system		X
Halogen work lights	X	
High Performance LED work lights		X
LED twistlock indicator lights	X	
LED stop/tail/brake lights	X	
Turn signals, hazard & marker lights (LED)	X	
APPEARANCE	STD	OPT
Hyster yellow paint base truck	X	
SUPPLEMENTAL	STD	OPT
Literature package	X	
Operator's manual	X	
CE certification		X
Warranty: 12 Months / 2,000 Hours manufacturer's warranty	X	



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10/2018 Litho in U.S.A.

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

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