

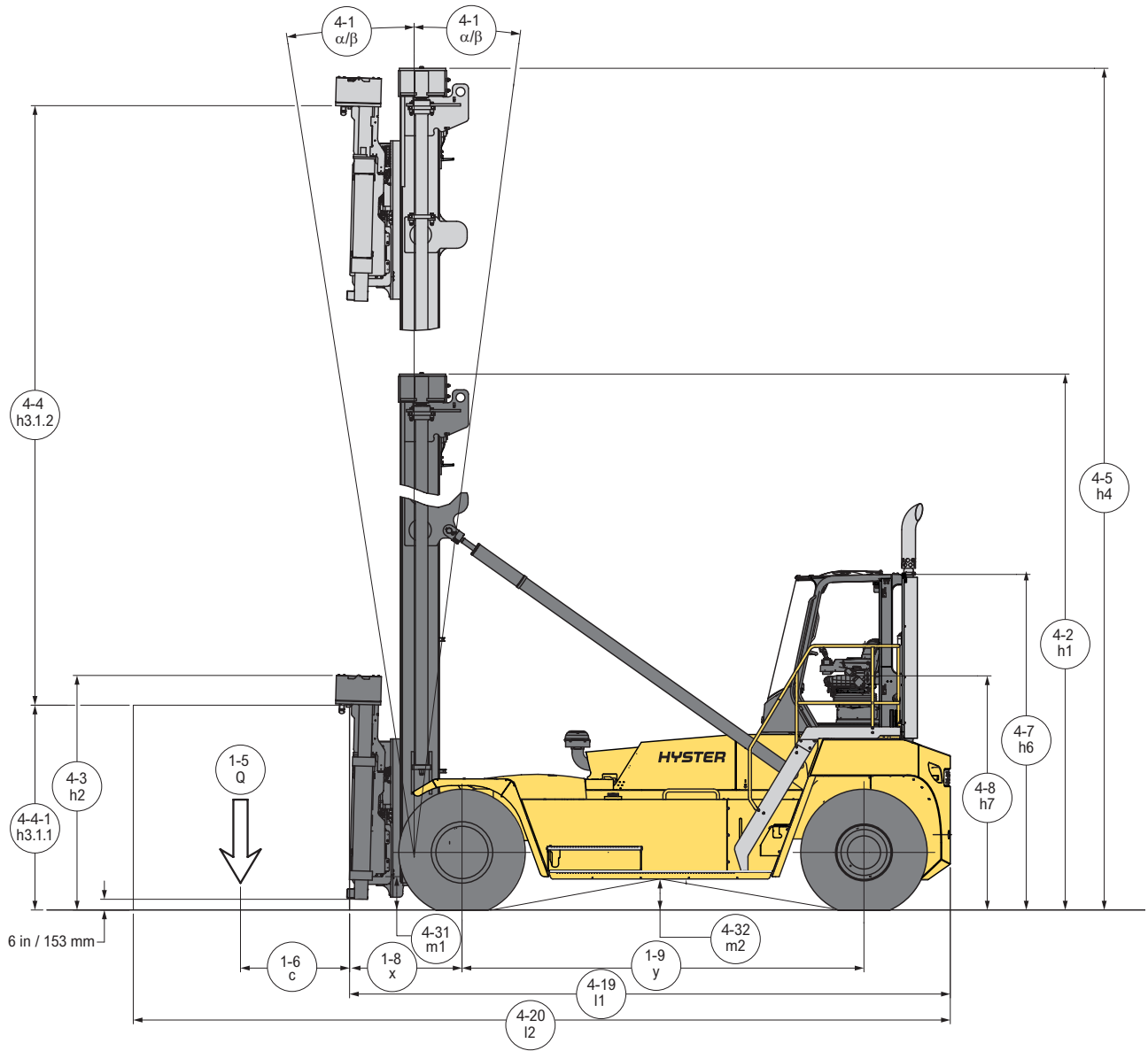


H180-230XD-EC/D SERIES

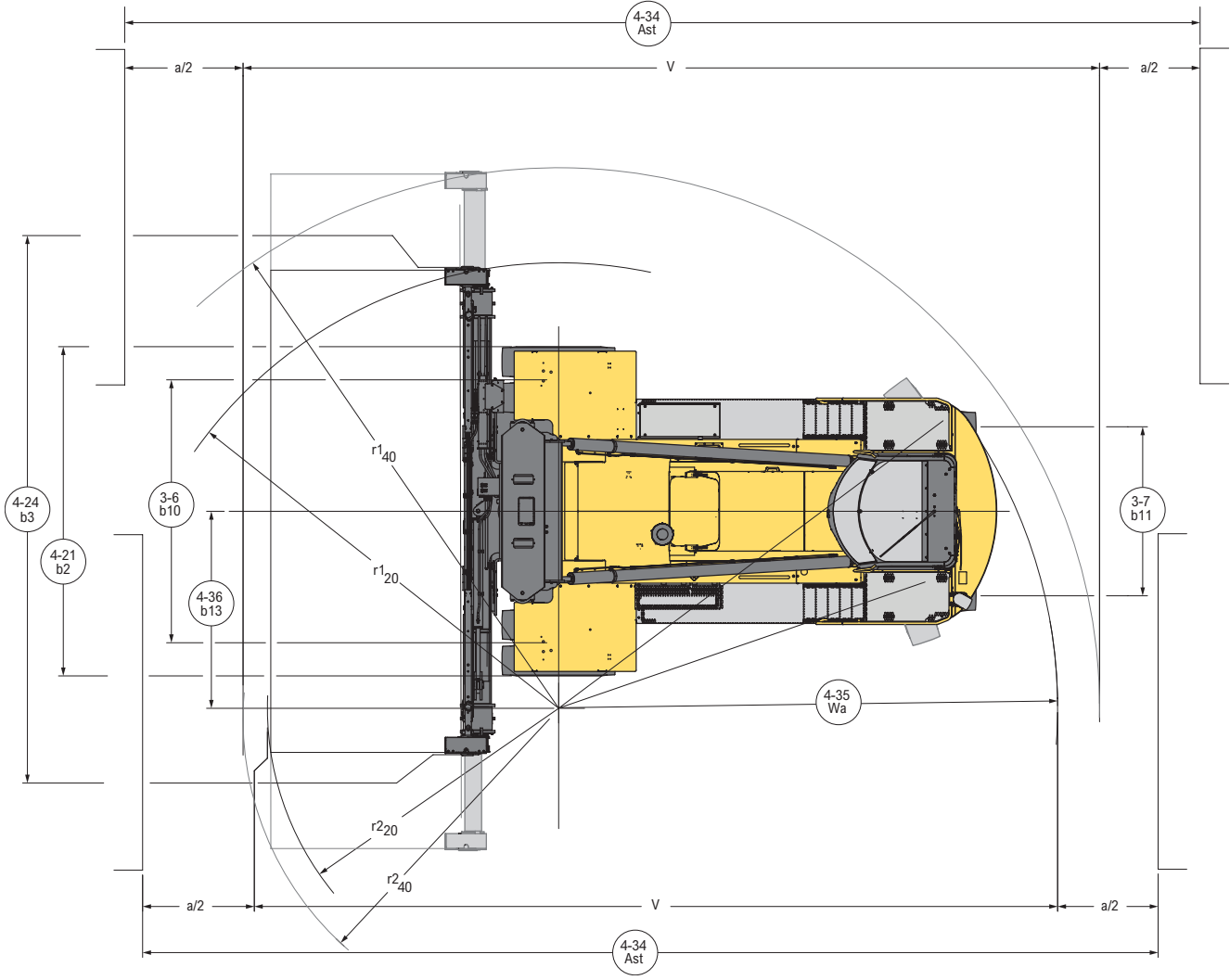
EMPTY CONTAINER HANDLER
PRODUCT TECHNICAL GUIDE



DIMENSIONS



DIMENSIONS



- r_1 = radius of swing of container rear corner
- r_2 = radius of swing of container front corner
- W_a = outside turning radius of the truck
- a = total operating clearance:
 - = 200 mm (100 mm each side acc. VDI) see VDI line 4-34-3 and 4-34-4
- V = (theoretical) 90° stacking aisle width, no intrusive stacking:
- $V = r_2 + \text{the larger of } r_1, \text{ or } W_a$
- Ast = (practical) 90° stacking aisle width, no intrusive stacking and with clearance:
- $Ast = V + a$

H180XD-EC6 | H180XD-EC7 SPECIFICATIONS

				HYSTER				HYSTER							
				H180XD-EC6				H180XD-EC7							
GENERAL	1-1	Manufacturer													
	1-2	Model designation													
	1-3	Powertrain / drivetrain			Diesel				Diesel						
	1-4	Operator type			Seated				Seated						
	1-5	Load capacity at load center, nominal (1)	Q	lb	kg	18,000		8,165	18,000		8,165				
	1-5-1	Load capacity at load center, max lift (1,2)	Q	lb	kg	18,000		8,165	18,000		8,165				
	1-6	Load center	c	in	mm	48		1,219	48		1,219				
	1-8	Load distance	x	in	mm	53		1,357	53		1,357				
	1-9	Wheelbase	y	in	mm	177		4,500	177		4,500				
	1-10-1	Stacking height at first row (number x container height)			#	6 x 8'6"				7 x 8'6"					
1-10-2	Stacking height at first row (number x container height)			#	5 x 9'6"				6 x 9'6"						
WEIGHT	2-1	Service weight			lb	kg	78,138	35,443	81,088	36,781					
	2-2	Axle loading with load, front / rear			lb	kg	79,111	17,029	35,884	7,724	82,356	16,733	37,356	7,590	
	2-3	Axle loading without load, front / rear			lb	kg	50,806	27,333	23,045	12,398	54,051	27,037	24,517	12,264	
WHEELS	3-1	Tire type			Type				Pneumatic						
	3-2	Tire size, front			14.00-24 24PR				14.00-24 24PR						
	3-3	Tire size, rear			14.00-24 24PR				14.00-24 24PR						
	3-5	Number of tires, front / rear (X driven)				#	x4 / 2				x4 / 2				
	3-6	Tread, front			b10	in	mm	129	3,282	129	3,282				
	3-7	Tread, rear			b11	in	mm	83	2,108	83	2,108				
DIMENSIONS	4-1	Mast tilt, forward / backward			α/β	Degrees				4 / 3					
	4-2	Height, mast lowered			h1	in	mm	374	9,495	425	10,795				
	4-3	Freelift			h2	in	mm	0	0	0	0				
	4-4	Lift			h3	in	mm	545	13,850	648	16,450				
	4-4-1	Lift minimum (3)			h3	in	mm	91	2,314	91	2,314				
	4-4-2	Lift maximum (3)			h3	in	mm	636	16,164	739	18,764				
	4-5	Height, mast extended			h4	in	mm	646	16,420	749	19,020				
	4-7-1	Height of overhead guard (closed cab)				in	mm	152	3,864	152	3,864				
	4-7-3	Height of overhead guard (closed cab w/ strobe light)				in	mm	157	3,996	157	3,996				
	4-7-4	Height of overhead guard (closed cab w/ work lights)				in	mm	160	4,055	160	4,055				
	4-8	Seat height to SIP (4)			h7	in	mm	105	2,668	105	2,668				
	4-19	Overall length			l1	in	mm	365	9,262	365	9,262				
	4-20	Length to face of spreader			l2	in	mm	269	6,824	269	6,824				
	4-21	Overall width across drive tires			b2	in	mm	162	4,110	162	4,110				
	4-23	Width across spreader, retracted / extended			b1.20	in	mm	240	481	6,084	12,218	240	481	6,084	12,218
	4-30	Sideshift				in	mm	+/-24	+/-600	+/-24	+/-600				
	4-31	Ground clearance, lowest point			m1	in	mm	9	236	9	236				
	4-32	Ground clearance, center of wheelbase			m2	in	mm	15	383	15	383				
	4-33	Aisle width with 20' Container; no operating clearance * REDUCED / FULL stroke			Ast20	in	mm	423	401	10,751	10,188	423	401	10,751	10,188
	4-34	Aisle width with 40' Container; no operating clearance * REDUCED / FULL stroke			Ast40	in	mm	558	546	14,180	13,875	558	546	14,180	13,875
4-35	Outside turning radius, reduced / full stroke			Wa	in	mm	273	251	6,934	6,371	273	251	6,934	6,371	
4-36	Internal turning radius, reduced / full stroke			b13	in	mm	145	111	3,674	2,818	145	111	3,674	2,818	
PERFORMANCE	TIER 3			TIER 3 / STAGE IIIA				TIER 3 / STAGE IIIA							
	5-1	Travel speed, with / without load			mph	km/h	12.4	15.5	20	25	12.4	15.5	20	25	
	5-2	Lifting speed, with / without load			ft/min	m/s	100	132	0.51	0.67	100	132	0.51	0.67	
	5-3	Lowering speed with / without load			ft/min	m/s	108	108	0.55	0.55	108	108	0.55	0.55	
	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load			lb	kN	33,400	33,700	149	150	33,400	33,700	148	150	
	5-6	Drawbar pull - max, with / without load			lb	kN	40,300	40,600	179	181	40,200	40,500	179	180	
	5-7	Gradeability - 1 mph (1.6 km/h), with / without load (5)			%		37		39		36		38		
	5-8	Gradeability - max, with / without load (5)			%		46		39		45		38		
	TIER 4			TIER 4 / STAGE IV				TIER 4 / STAGE IV							
	5-1	Travel speed, with / without load			mph	km/h	12.4	15.5	20	25	12.4	15.5	20	25	
	5-2	Lifting speed, with / without load			ft/min	m/s	100	132	0.51	0.67	100	132	0.51	0.67	
	5-3	Lowering speed with / without load			ft/min	m/s	108	108	0.55	0.55	108	108	0.55	0.55	
	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load			lb	kN	33,900	34,300	151	152	33,900	34,200	151	152	
	5-6	Drawbar pull - max, with / without load			lb	kN	40,800	41,200	182	183	40,800	41,100	181	183	
	5-7	Gradeability - 1 mph (1.6 km/h), with / without load (7)			%		38		39		37		38		
	5-8	Gradeability - max, with / without load (7)			%		47		39		45		38		

H200XD-EC7 | H200XD-EC8 SPECIFICATIONS

				HYSTER				HYSTER							
				H200XD-EC7				H200XD-EC8							
GENERAL	1-1	Manufacturer													
	1-2	Model designation													
	1-3	Powertrain / drivetrain			Diesel				Diesel						
	1-4	Operator type			Seated				Seated						
	1-5	Load capacity at load center, nominal (1)	Q	lb	kg	20,000		9,072		20,000		9,072			
	1-5-1	Load capacity at load center, max lift (1,2)	Q	lb	kg	20,000		9,072		19,956		9,052			
	1-6	Load center	c	in	mm	48		1,219		48		1,219			
	1-8	Load distance	x	in	mm	53		1,357		53		1,357			
	1-9	Wheelbase	y	in	mm	177		4,500		177		4,500			
	1-10-1	Stacking height at first row (number x container height)			#	7 x 8'6"				8 x 8'6"					
1-10-2	Stacking height at first row (number x container height)			#	6 x 9'6"				7 x 9'6"						
WEIGHT	2-1	Service weight				lb	kg	85,449		38,759		91,051		41,300	
	2-2	Axle loading with load, front / rear				lb	kg	85,156	20,294	38,626	9,205	88,857	22,194	40,305	10,067
	2-3	Axle loading without load, front / rear				lb	kg	53,707	31,742	24,361	14,398	57,406	33,645	26,039	15,261
WHEELS	3-1	Tire type				Type				Pneumatic Bias Ply					
	3-2	Tire size, front				14.00-24 24PR				14.00-24 24PR					
	3-3	Tire size, rear				14.00-24 24PR				14.00-24 24PR					
	3-5	Number of tires, front / rear (X driven)					#	x4 / 2				x4 / 2			
	3-6	Tread, front			b10	in	mm	129		3,282		138		3,507	
	3-7	Tread, rear			b11	in	mm	83		2,108		83		2,108	
DIMENSIONS	4-1	Mast tilt, forward / backward			α/β	Degrees			4 / 3						
	4-2	Height, mast lowered			h1	in	mm	425		10,795		476		12,095	
	4-3	Freelift			h2	in	mm	0		0		0		0	
	4-4	Lift			h3	in	mm	648		16,450		750		19,050	
	4-4-1	Lift minimum (3)			h3	in	mm	91		2,314		91		2,314	
	4-4-2	Lift maximum (3)			h3	in	mm	739		18,764		841		21,364	
	4-5	Height, mast extended			h4	in	mm	749		19,020		851		21,620	
	4-7-1	Height of overhead guard (closed cab)				in	mm	152		3,864		152		3,864	
	4-7-3	Height of overhead guard (closed cab w/ strobe light)				in	mm	157		3,996		157		3,996	
	4-7-4	Height of overhead guard (closed cab w/ work lights)				in	mm	160		4,055		160		4,055	
	4-8	Seat height to SIP (4)			h7	in	mm	105		2,668		105		2,668	
	4-19	Overall length			l1	in	mm	365		9,262		365		9,262	
	4-20	Length to face of spreader			l2	in	mm	269		6,824		269		6,824	
	4-21	Overall width across drive tires			b2	in	mm	162		4,110		171		4,335	
	4-23	Width across spreader, retracted / extended			b1.20	in	mm	240	481	6,084	12,218	240	481	6,084	12,218
	4-30	Sideshift				in	mm	+/-24		+/-600		+/-24		+/-600	
4-31	Ground clearance, lowest point			m1	in	mm	9		236		9		236		
4-32	Ground clearance, center of wheelbase			m2	in	mm	15		383		15		383		
4-33	Aisle width with 20' Container; no operating clearance * REDUCED / FULL stroke			Ast20	in	mm	423	401	10,751	10,188	423	401	10,751	10,188	
4-34	Aisle width with 40' Container; no operating clearance * REDUCED / FULL stroke			Ast40	in	mm	558	546	14,180	13,875	558	546	14,180	13,875	
4-35	Outside turning radius, reduced / full stroke			Wa	in	mm	273	251	6,934	6,371	273	251	6,934	6,371	
4-36	Internal turning radius, reduced / full stroke			b13	in	mm	145	111	3,674	2,818	145	111	3,674	2,818	
PERFORMANCE	TIER 3			TIER 3 / STAGE IIIA						TIER 3 / STAGE IIIA					
	5-1	Travel speed, with / without load				mph	km/h	12.4	15.5	20	25	12.4	15.5	20	25
	5-2	Lifting speed, with / without load				ft/min	m/s	100	132	0.51	0.67	91	120	0.46	0.61
	5-3	Lowering speed with / without load				ft/min	m/s	108	108	0.55	0.55	108	108	0.55	0.55
	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load				lb	kN	33,200	33,600	148	149	33,100	33,500	147	149
	5-6	Drawbar pull - max, with / without load				lb	kN	40,100	40,500	178	180	40,000	40,400	178	180
	5-7	Gradeability - 1 mph (1.6 km/h), with / without load (5)				%		33		36		31		35	
	5-8	Gradeability - max, with / without load (5)				%		41		36		39		35	
	TIER 4			TIER 4 / STAGE IV						TIER 4 / STAGE IV					
	5-1	Travel speed, with / without load				mph	km/h	12.4	15.5	20	25	12.4	15.5	20	25
	5-2	Lifting speed, with / without load				ft/min	m/s	100	132	0.51	0.67	91	120	0.46	0.61
	5-3	Lowering speed with / without load				ft/min	m/s	108	108	0.55	0.55	108	108	0.55	0.55
	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load				lb	kN	33,800	34,100	150	152	33,700	34,000	150	151
	5-6	Drawbar pull - max, with / without load				lb	kN	40,700	41,000	181	183	40,600	40,900	181	182
5-7	Gradeability - 1 mph (1.6 km/h), with / without load (7)				%		34		36		32		35		
5-8	Gradeability - max, with / without load (7)				%		42		36		39		35		

H200XD-ECD7 | H190XD-ECD8 SPECIFICATIONS

					HYSTER				HYSTER							
					H200XD-ECD7				H190XD-ECD8							
GENERAL	1-1	Manufacturer														
	1-2	Model designation														
	1-3	Powertrain / drivetrain			Diesel				Diesel							
	1-4	Operator type			Seated				Seated							
	1-5	Load capacity at load center, nominal (1)	Q	lb	kg	20,000		9,072		19,000		8,618				
	1-5-1	Load capacity at load center, max lift (1,2)	Q	lb	kg	20,000		9,072		17,017		7,719				
	1-6	Load center	c	in	mm	48		1,219		48		1,219				
	1-8	Load distance	x	in	mm	52		1,309		52		1,309				
	1-9	Wheelbase	y	in	mm	177		4,500		177		4,500				
	1-10-1	Stacking height at first row (number x container height)			#	6 + 1 x 8'6"				7 + 1 x 8'6"						
1-10-2	Stacking height at first row (number x container height)			#	5 + 1 x 9'6"				6 + 1 x 9'6"							
WEIGHT	2-1	Service weight			lb	kg	86,697		39,325		89,704		40,689			
	2-2	Axle loading with load, front / rear			lb	kg	86,637	20,062	39,298	9,100	88,386	20,318	40,091	9,216		
	2-3	Axle loading without load, front / rear			lb	kg	55,400	31,297	25,129	14,196	58,714	30,990	26,632	14,057		
WHEELS	3-1	Tire type			Type				Pneumatic Bias Ply							
	3-2	Tire size, front							14.00-24 24PR							
	3-3	Tire size, rear							14.00-24 24PR							
	3-5	Number of tires, front / rear (X driven)			#				x4 / 2							
	3-6	Tread, front	b10	in	mm	129		3,282		129		3,282				
	3-7	Tread, rear	b11	in	mm	83		2,108		83		2,108				
	DIMENSIONS	4-1	Mast tilt, forward / backward			α/β	Degrees			4 / 3						
4-2		Height, mast lowered			h1	in	mm	374		9,495		425		10,795		
4-3		Freelift			h2	in	mm	0		0		0		0		
4-4		Lift			h3	in	mm	545		13,850		648		16,450		
4-4-1		Lift minimum (3)			h3	in	mm	97		2,472		97		2,472		
4-4-2		Lift maximum (3)			h3	in	mm	643		16,322		745		18,922		
4-5		Height, mast extended			h4	in	mm	646		16,420		749		19,020		
4-7-1		Height of overhead guard (closed cab)				in	mm	152		3,864		152		3,864		
4-7-3		Height of overhead guard (closed cab w/ strobe light)				in	mm	157		3,996		157		3,996		
4-7-4		Height of overhead guard (closed cab w/ work lights)				in	mm	160		4,055		160		4,055		
4-8		Seat height to SIP (4)			h7	in	mm	105		2,668		105		2,668		
4-19		Overall length			l1	in	mm	363		9,214		363		9,214		
4-20		Length to face of spreader			l2	in	mm	267		6,776		267		6,776		
4-21		Overall width across drive tires			b2	in	mm	162		4,110		162		4,110		
4-23		Width across spreader, retracted / extended			b1.20	in	mm	259	500	6,566	12,700	259	500	6,566	12,700	
4-30		Sideshift				in	mm	+/-24		+/-600		+/-24		+/-600		
4-31		Ground clearance, lowest point			m1	in	mm	9		236		9		236		
4-32		Ground clearance, center of wheelbase			m2	in	mm	15		383		15		383		
4-33	Aisle width with 20' Container; no operating clearance * REDUCED / FULL stroke			Ast20	in	mm	421	399	10,703	10,140	421	399	10,703	10,140		
4-34	Aisle width with 40' Container; no operating clearance * REDUCED / FULL stroke			Ast40	in	mm	566	554	14,382	14,081	566	554	14,382	14,081		
4-35	Outside turning radius, reduced / full stroke			Wa	in	mm	273	251	6,934	6,371	273	251	6,934	6,371		
4-36	Internal turning radius, reduced / full stroke			b13	in	mm	145	111	3,674	2,818	145	111	3,674	2,818		
PERFORMANCE	TIER 3				TIER 3 / STAGE IIIA				TIER 3 / STAGE IIIA							
	5-1	Travel speed, with / without load			mph	km/h	12.4	15.5	20	25	12.4	15.5	20	25		
	5-2	Lifting speed, with / without load			ft/min	m/s	91	120	0.46	0.61	91	120	0.46	0.61		
	5-3	Lowering speed with / without load			ft/min	m/s	108	108	0.55	0.55	108	108	0.55	0.55		
	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load			lb	kN	33,200	33,600	148	149	33,200	33,500	148	149		
	5-6	Drawbar pull - max, with / without load			lb	kN	40,100	40,400	178	180	40,000	40,400	178	180		
	5-7	Gradeability - 1 mph (1.6 km/h), with / without load (5)			%				33		39		32		38	
	5-8	Gradeability - max, with / without load (5)			%				40		39		39		38	
	TIER 4				TIER 4 / STAGE IV				TIER 4 / STAGE IV							
	5-1	Travel speed, with / without load			mph	km/h	12.4	15.5	20	25	12.4	15.5	20	25		
	5-2	Lifting speed, with / without load			ft/min	m/s	91	120	0.46	0.61	91	120	0.46	0.61		
	5-3	Lowering speed with / without load			ft/min	m/s	108	108	0.55	0.55	108	108	0.55	0.55		
	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load			lb	kN	33,800	34,100	150	152	33,700	34,100	150	151		
	5-6	Drawbar pull - max, with / without load			lb	kN	40,700	41,000	181	182	40,600	41,000	181	182		
	5-7	Gradeability - 1 mph (1.6 km/h), with / without load (7)			%				33		39		32		38	
	5-8	Gradeability - max, with / without load (7)			%				41		39		40		38	

H210XD-ECD8 | H230XD-ECD8 | H230XD-ECD9 SPECIFICATIONS

				HYSTER				HYSTER				HYSTER					
				H210XD-ECD8				H230XD-EC8				H230XD-ECD9					
GENERAL	1-1	Manufacturer															
	1-2	Model designation															
	1-3	Powertrain / drivetrain			Diesel				Diesel				Diesel				
	1-4	Operator type			Seated				Seated				Seated				
	1-5	Load capacity at load center, nominal (1)	Q	lb	kg	21,000	9,525	23,000	10,433	22,900	10,387						
	1-5-1	Load capacity at load center, max lift (1,2)	Q	lb	kg	21,000	9,525	23,000	10,433	13,600	6,169						
	1-6	Load center	c	in	mm	48	1,219	48	1,219	48	1,219						
	1-8	Load distance	x	in	mm	52	1,309	52	1,309	52	1,309						
	1-9	Wheelbase	y	in	mm	177	4,500	177	4,500	177	4,500						
1-10-1	Stacking height at first row (number x container height)			#	7 + 1 x 8'6"				7 + 1 x 8'6"				8 + 1 x 8'6"				
1-10-2	Stacking height at first row (number x container height)			#	6 + 1 x 9'6"				6 + 1 x 9'6"				7 + 1 x 9'6"				
WEIGHT	2-1	Service weight		lb	kg	91,975	41,719	94,096	42,681	97,030	44,012						
	2-2	Axle loading with load, front / rear		lb	kg	91,516	21,458	41,511	9,733	94,644	22,452	42,930	10,184	97,718	22,212	44,324	10,075
	2-3	Axle loading without load, front / rear		lb	kg	58,720	33,255	26,635	15,084	58,722	35,373	26,636	16,045	61,954	35,076	28,102	15,910
WHEELS	3-1	Tire type		Type	Pneumatic Bias Ply				Pneumatic Bias Ply				Pneumatic Bias Ply				
	3-2	Tire size, front			14.00-24 24PR				14.00-24 24PR				14.00-24 24PR				
	3-3	Tire size, rear			14.00-24 24PR				14.00-24 24PR				14.00-24 24PR				
	3-5	Number of tires, front / rear (X driven)		#	x4 / 2				x4 / 2				x4 / 2				
	3-6	Tread, front	b10	in	mm	138	3,507	138	3,507	138	3,507						
3-7	Tread, rear	b11	in	mm	83	2,108	83	2,108	83	2,108							
DIMENSIONS	4-1	Mast tilt, forward / backward	α/β	Degrees	4 / 3				4 / 3				4 / 3				
	4-2	Height, mast lowered	h1	in	mm	425	10,795	425	10,795	476	12,095						
	4-3	Freelift	h2	in	mm	0	0	0	0	0	0						
	4-4	Lift	h3	in	mm	648	16,450	648	16,450	750	19,050						
	4-4-1	Lift minimum (3)	h3	in	mm	97	2,472	97	2,472	97	2,472						
	4-4-2	Lift maximum (3)	h3	in	mm	745	18,922	745	18,922	847	21,522						
	4-5	Height, mast extended	h4	in	mm	749	19,020	749	19,020	851	21,620						
	4-7-1	Height of overhead guard (closed cab)		in	mm	152	3,864	152	3,864	152	3,864						
	4-7-3	Height of overhead guard (closed cab w/ strobe light)		in	mm	157	3,996	157	3,996	157	3,996						
	4-7-4	Height of overhead guard (closed cab w/ work lights)		in	mm	160	4,055	160	4,055	160	4,055						
	4-8	Seat height to SIP (4)	h7	in	mm	105	2,668	105	2,668	105	2,668						
	4-19	Overall length	l1	in	mm	363	9,214	363	9,214	363	9,214						
	4-20	Length to face of spreader	l2	in	mm	267	6,776	267	6,776	267	6,776						
	4-21	Overall width across drive tires	b2	in	mm	171	4,335	171	4,335	171	4,335						
	4-23	Width across spreader, retracted / extended	b1.20	in	mm	259	500	6,566	12,700	259	500	6,566	12,700	259	500	6,566	12,700
	4-30	Sideshift		in	mm	+/-24	+/-600	+/-24	+/-600	+/-24	+/-600						
	4-31	Ground clearance, lowest point	m1	in	mm	9	236	9	236	9	236						
4-32	Ground clearance, center of wheelbase	m2	in	mm	15	383	15	383	15	383							
4-33	Aisle width with 20' Container; no operating clearance * REDUCED / FULL stroke	Ast20	in	mm	421	399	10,703	10,140	421	399	10,703	10,140	421	399	10,703	10,140	
4-34	Aisle width with 40' Container; no operating clearance * REDUCED / FULL stroke	Ast40	in	mm	566	554	14,382	14,081	566	554	14,382	14,081	566	554	14,382	14,081	
4-35	Outside turning radius, reduced / full stroke	Wa	in	mm	273	251	6,934	6,371	273	251	6,934	6,371	273	251	6,934	6,371	
4-36	Internal turning radius, reduced / full stroke	b13	in	mm	145	111	3,674	2,818	145	111	3,674	2,818	145	111	3,674	2,818	
PERFORMANCE	TIER 3			TIER 3 / STAGE IIIA				TIER 3 / STAGE IIIA				TIER 3 / STAGE IIIA					
	5-1	Travel speed, with / without load		mph	km/h	12.4	15.5	20	25	12.4	15.5	20	25	12.4	15.5	20	25
	5-2	Lifting speed, with / without load		ft/min	m/s	91	120	0.46	0.61	91	120	0.46	0.61	91	120	0.46	0.61
	5-3	Lowering speed with / without load		ft/min	m/s	108	108	0.55	0.55	108	108	0.55	0.55	108	108	0.55	0.55
	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load		lb	kN	33,100	33,500	147	149	33,000	33,400	147	149	33,000	33,400	147	148
	5-6	Drawbar pull - max, with / without load		lb	kN	40,000	40,300	178	179	39,900	40,300	177	179	39,800	40,300	177	179
	5-7	Gradeability - 1 mph (1.6 km/h), with / without load (5)		%		30	37	29	37	28	36						
	5-8	Gradeability - max, with / without load (5)		%		37	37	36	37	35	36						
	TIER 4			TIER 4 / STAGE IV				TIER 4 / STAGE IV				TIER 4 / STAGE IV					
	5-1	Travel speed, with / without load		mph	km/h	12.4	15.5	20	25	12.4	15.5	20	25	12.4	15.5	20	25
	5-2	Lifting speed, with / without load		ft/min	m/s	91	120	0.46	0.61	91	120	0.46	0.61	91	120	0.46	0.61
	5-3	Lowering speed with / without load		ft/min	m/s	108	108	0.55	0.55	108	108	0.55	0.55	108	108	0.55	0.55
	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load		lb	kN	33,600	34,000	150	151	33,600	34,000	149	151	33,500	33,900	149	151
	5-6	Drawbar pull - max, with / without load		lb	kN	40,500	40,900	180	182	40,400	40,900	180	182	40,400	40,800	180	182
5-7	Gradeability - 1 mph (1.6 km/h), with / without load (7)		%		31	37	30	37	29	36							
5-8	Gradeability - max, with / without load (7)		%		38	37	36	37	35	36							

POWERTRAINS

			HYSTER		HYSTER		HYSTER		HYSTER			
			H180-200XD-EC6-8		H180-200XD-EC6-8		H190-230XD-ECD7-9		H190-230XD-ECD7-9			
ENGINE	1-1	Manufacturer		HYSTER		HYSTER		HYSTER		HYSTER		
	1-2	Model designation		H180-200XD-EC6-8		H180-200XD-EC6-8		H190-230XD-ECD7-9		H190-230XD-ECD7-9		
	1-3	Power type		Diesel		Diesel		Diesel		Diesel		
	7-1	Engine manufacturer / model		Cummins / QSB 6.7		Cummins / QSB 6.7		Cummins / QSB 6.7		Cummins / QSB 6.7		
	7-1a	EPA Tier Compliance		Tier 3 / Stage IIIA		Tier 4 / Stage IV		Tier 3 / Stage IIIA		Tier 4 / Stage IV		
	7-2	Engine power - rated	hp	kW	220@2200	164@2200	225@2200	168@2200	220@2200	164@2200	225@2200	168@2200
	7-2-1	Engine power - peak	hp	kW	231@2000	172@2000	233@2000	174@2000	231@2000	172@2000	233@2000	174@2000
	7-3	Rated speed	rpm	rpm	2,200		2,200		2,200		2,200	
	7-3-1	Engine torque @ rpm (1.min)	lb-ft	N-m	700@1500	949@1500	770@1500	1,044@1500	700@1500	949@1500	770@1500	1,044@1500
	7-4	Number of cylinders / displacement	# / in3	# / cm3	6 / 408	6 / 6,690	6 / 408	6 / 6,690	6 / 408	6 / 6,690	6 / 408	6 / 6,690
x	Turbocharger	Type		Wastegate, water-cooled		Variable geometry, water-cooled		Wastegate, water-cooled		Variable geometry, water-cooled		
7-8	Alternator output	Amps		120		120		120		120		
7-9	Electrical system voltage	V		24		24		24		24		
7-10	Battery voltage, nominal capacity	V / Ah		24 / 102		24 / 102		24 / 102		24 / 102		
DRIVE	8-0	Drive control / transmission	Type		Powershift Transmission		Powershift Transmission		Powershift Transmission		Powershift Transmission	
	8-1	Type of drive unit	Type		Torque Converter		Torque Converter		Torque Converter		Torque Converter	
	8-2	Transmission manufacturer / type	Type		ZF 5WG211		ZF 5WG211		ZF 5WG211		ZF 5WG211	
	8-2-1	Transmission speeds forward / backward	#		5 / 3		5 / 3		5 / 3		5 / 3	
	8-3	Wheel drive / drive axle manufacturer / type	Type		AxleTech / PRC 1756W3H		AxleTech / PRC 1756W3H		AxleTech / PRC 1756W3H		AxleTech / PRC 1756W3H	
	8-11	Service brake	Type		Oil immersed (wet) disc		Oil immersed (wet) disc		Oil immersed (wet) disc		Oil immersed (wet) disc	
	8-12	Parking brake	Type		Spring applied, dry disc on drive axle		Spring applied, dry disc on drive axle		Spring applied, dry disc on drive axle		Spring applied, dry disc on drive axle	
	SPREADER	9-1	Spreader manufacturer / type	Type		Elme / 586TB MPS		Elme / 586TB MPS		Elme / 584LD PPS		Elme / 584LD PPS
9-1-1		Pile slope, mechanical	in	mm	+/- 8.1	+/- 205	+/- 8.1	+/- 205	+/- 7.6	+/- 192	+/- 7.6	+/- 192
9-1-2		Pile slope total, powered	Degrees		+/- 6		+/- 6		+/- 6		+/- 6	
9-3		Size of containers	ft		ISO 20' & 40'		ISO 20' & 40'		ISO 20' & 40'		ISO 20' & 40'	
9-4		Sideshift (total)	in	mm	+/- 23.6	+/- 600	+/- 23.6	+/- 600	+/- 23.6	+/- 600	+/- 23.6	+/- 600
9-4-1		Telescoping time, extend / retract	sec	sec	14 / 16		14 / 16		14 / 16		14 / 16	
MISC	10-1	Operating pressure for attachments	psi	MPa	3,263	22.5	3,263	22.5	3,263	22.5	3,263	22.5
	10-2	Oil volume for attachments	gpm	l/m	16	60	16	60	16	60	16	60
	10-3	Hydraulic tank capacity	gal	l	71	268	71	268	71	268	71	268
	10-4	Fuel tank capacity	gal	l	92	350	92	350	92	350	92	350
	10-4-1	DEF/AdBlue Tank capacity	gal	l	N/A	N/A	10	38	10	38	10	38
	10-5	Steering design	Type		Hydrostatic		Hydrostatic		Hydrostatic		Hydrostatic	
10-6	Number of steering rotations	#		5.0		5.0		5.0		5.0		


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) Raised cabin may result in reduced capacity since the "carry" height will be higher.
- (2) Load capacity at highest container positions may be less, depending on truck model, stacking height and tires.
- (3) Minimum/maximum height of twist-locks
- (4) With raised cabin position add 39" / 1000 mm
- (5) Gradeability figures are provided for comparison of tractive performance, but are not intended to endorse the operation of vehicle on the stated inclines.

All capacities are according to EN1551.

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

 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.

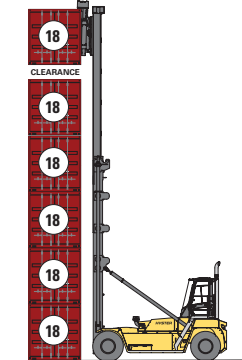
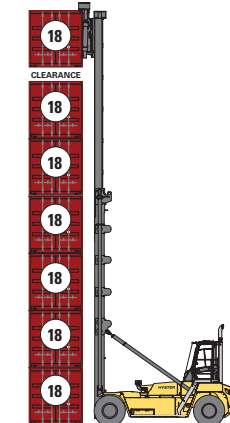
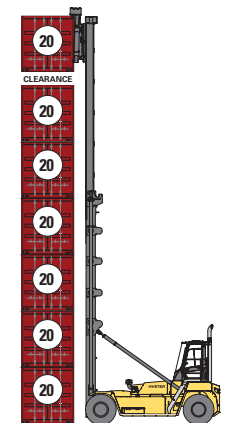
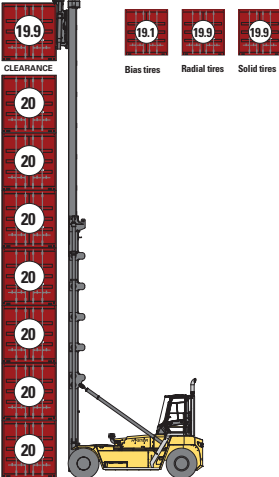
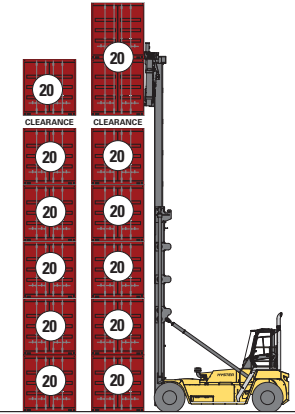
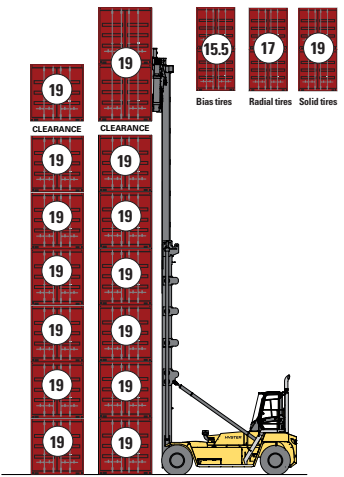
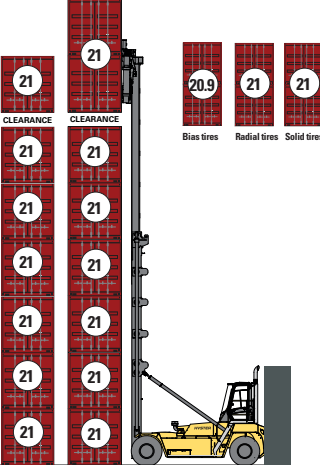
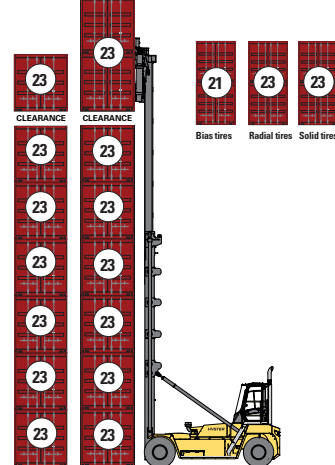
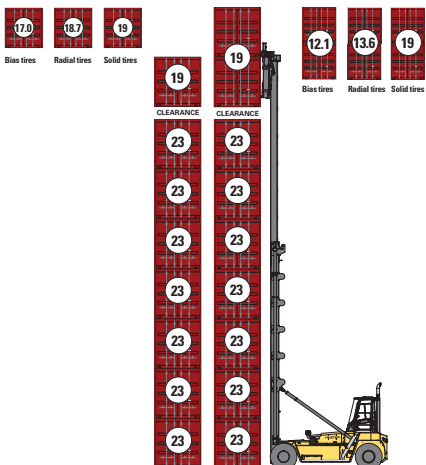
Lift trucks illustrated may feature optional equipment. Values may vary with alternative configurations.

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.

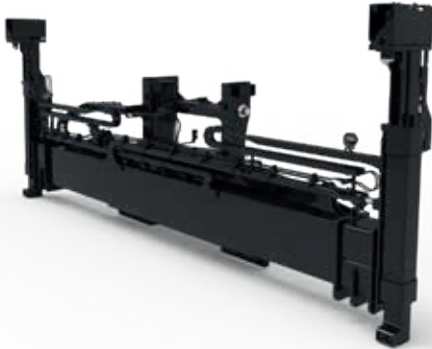
Specification data is based on VDI 2198.

RATED CAPACITIES AND STACKING HEIGHTS (SHOWN IN 1,000LB)

H180XD-EC6	H180XD-EC7	H200XD-EC7
 <p>8'6" containers</p>	 <p>8'6" containers</p>	 <p>8'6" containers</p>
 <p>8'6" containers [^] deduct 300 lb for PPS</p>	 <p>8'6" containers</p>	 <p>8'6" containers</p>
 <p>8'6" containers</p>	 <p>8'6" containers</p>	 <p>8'6" containers</p>

SPREADERS AND ENGAGEMENT SYSTEMS

SINGLE CONTAINER SPREADER 588 TB



Single handling container spreader with Vertical Twist-locks

Suitable for:

- 20' or 40' ISO containers of 8' (2.44 m)
- WTP (Wide Twist-lock Position) containers
- Approx. 2.45-2.50 m wide "pallet-wide" 20' or 40' containers, with ISO-like 'chamfered' corner castings

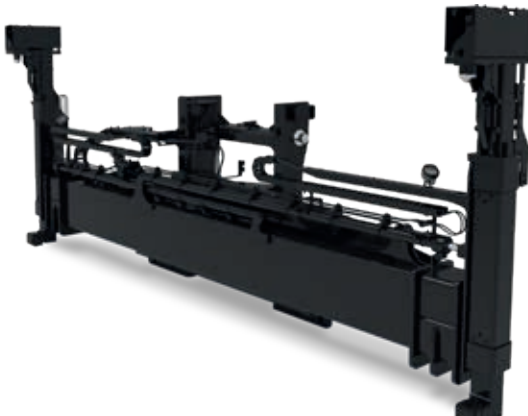
Not suitable for:

- US "Domestic" containers
- Approx. 2.45-2.60 m wide "CPC" containers (Cellular Pallet-wide Containers) with non-ISO corner castings
- Mechanical Pile Slope (standard) +/- 8.1 in (+/- 205mm)

Powered Pile Slope (optional) +/- 6 degrees

Sideshift +/- 23.6 in (+/- 600 mm)

SINGLE CONTAINER SPREADER 586 TB



Single container handling spreader with Vertical Twist-locks

Removable "inset" container blocks

Suitable for:

- 20' or 40' ISO containers of 8' (2.44 m)
- WTP (Wide Twist-lock Position) containers
- US "Domestic" containers
- Approx. 2.45-2.50 m wide "pallet-wide" 20' or 40' containers, with ISO-like 'chamfered' corner castings

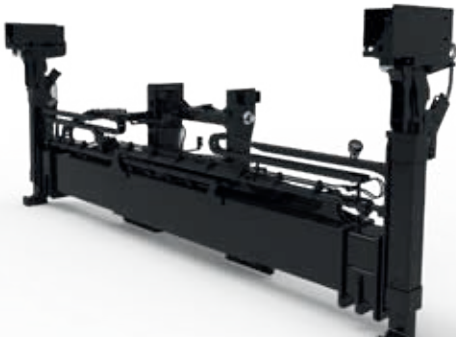
- Approx. 2.45-2.60 m wide "CPC" containers (Cellular Pallet-wide Containers) with non-ISO top corners castings

Mechanical Pile Slope (standard) +/- 8.1 in (+/- 205mm)

Powered Pile Slope (optional) +/- 6 degrees

Sideshift +/- 23.6 in (+/- 600 mm)

SINGLE CONTAINER SPREADER 589 TB



Single container handling spreader with Vertical Twistlocks

Forward Reach function on the twist-locks (3.9"-6.9" / 100-176 mm)

Suitable for:

- 20' or 40' ISO containers of 8' (2.44 m)
- WTP (Wide Twist-lock Position) containers
- US "Domestic" containers
- Approx. 2.45-2.50 m wide "pallet-wide" 20' or 40' containers, with ISO-like 'chamfered' corner castings

- Approx. 2.45-2.60 m wide "CPC" containers (Cellular Pallet-wide Containers) with non-ISO top corners castings

Mechanical Pile Slope (standard) +/- 8.1 in (+/- 205mm)

Powered Pile Slope (optional) +/- 6 degrees

Sideshift +/- 23.6 in (+/- 600 mm)

DOUBLE CONTAINER SPREADER 584 LD



Double handle container spreader:

- Picking container(s) at the front (hooks) and side (clamps) of the corner castings
- Available with speed limitation features for laden/unladen condition

Powered Pile Slope (standard) +/- 6 degrees

Sideshift +/- 23.6 in (+/- 600mm)

FEATURES AND OPTIONS

PERFORMANCE	STD	OPT
Cummins QSB 6.7L diesel engine rated 225 hp tier 4F / 168 kW stage IV*	x	
Cummins QSB 6.7L diesel engine rated 220 hp tier 3 / 164 kW stage IIIA*	x	
Tier 4 / stage IV compliant*	x	
Tier 3 / stage IIIA compliant*	x	
Wastegate turbocharger, water cooled*	x	
Variable geometry turbocharger, water cooled*	x	
Hibernate idle	x	
Hydraulically driven on-demand cooling fan*	x	
120 amp alternator	x	
Performance modes selectable in Integrated Performance Display*	x	
Powertrain protection system	x	
Heavy duty air intake	x	
High mount exhaust	x	
ZF transmission 5WG211 5-spd fwd / 3-spd reverse auto-shifting	x	
AxleTech drive axle PRC1756 W3H (162" / 4112 mm across drive tires) with wet disc brakes*	x	
AxleTech drive axle PRC1756 W3H (171" / 4335 mm across drive tires) with wet disc brakes**	x	
DRIVE	STD	OPT
Travel speed limiter - unconditional and customer adjustable		x
Travel speed limiter when carrying container (adjustable)	x	
Travel speed limiter when in unlocked condition		x
Travel speed limiter based on container carry and tilt position		x
Steer axle with full stroke steer cylinder for tight turning radius	x	
Steer axle with reduced stroke steer cylinder for longer tire life		x
14.00-24 24PR pneumatic bias ply drive and steer tires	x	
14.00-24 24PR pneumatic radial drive and steer tires		x
14.00-24 pneumatic shaped solid drive and steer tires		x
14.00 R24 pneumatic tubeless radial drive and steer tires		x
LIFT	STD	OPT
On-Demand Load Sensing Hydraulic System	x	
Automatic throttle-up when lifting (in neutral or inching)	x	
Variable lap mast for low roller forces	x	
2 cylinder / 2 chain design	x	
Hydraulic accumulator	x	
Hydraulic system temperature protection with performance de-rate		x
HANDLING	STD	OPT
Hyster 586TB single spreader, with removable blocks for ISO or wide containers	x	
Hyster 588TB single handling 20-40ft empty container spreader with vertical twist-locks*		x
Hyster 589TB single spreader, with hydraulically adjustable head for ISO or wide containers		x
Hyster 584LD double handling 20-40ft empty container spreader with hooks and side clamps**	x	
Mast lift height sensor		x
Mechanical pile slope	x	
Powered pile slope		x
Automatic one-touch extend/retract (20'/40') for spreader		x
Mast tilt indicator - mechanical		x

ERGONOMICS	STD	OPT
Enclosed operator cabin	x	
Powered tilt operator compartment for service		x
Manual tilt operator compartment for service	x	
Raised cabin height		x
Cabin automatic tip-up (for high stacking)		x
Isolated cabin mounting for low noise and vibration	x	
Operator presence system	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	
Dome interior light	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	
Wire mesh installed on top of operator compartment		x
7" Integrated Performance Display	x	
Dual 7" Integrated Performance Displays**		x
Joystick hydraulic control integrated in control arm	x	
Steering wheel with spinner knob	x	
Directional control lever on steering column	x	
Directional control on joystick		x
Park brake - manual	x	
Park brake - automatic		x
Interior wide angle mirrors	x	
Heater with adjustable speed fan	x	
Telescoping & tilting steering column	x	
USB outlet inside armrest	x	
24-12 DC converter with 1 socket and 2 USB outlets	x	
24-12 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

*Standard or optional in select markets or on select models.
 **Standard on double handling models only.

FEATURES AND OPTIONS


ERGONOMICS (CONTINUED)	STD	OPT
Sun visors front window		x
Cloth trainer seat with 2-point seatbelt		x
Recirculation fan	x	
Accessory mounting bar 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
VISIBILITY	STD	OPT
Top window with armoured glass	x	
Steel bars under armoured 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 forward work lights mounted on the cabin	x	
Two rearward work lights mounted on the cabin	x	
LED twistlock indicator lights	x	
LED stop / tail / brake lights	x	
Turn signals, hazard & marker lights (LED)		x
2 additional LED spreader work lights pointed towards the twistlocks		x
APPEARANCE	STD	OPT
Hyster yellow paint base truck	x	
Special paint base truck		x
OPERATION	STD	OPT
Air horn 112 dBA	x	
Visible alarm – amber strobe light	x	

OPERATION (CONTINUED)	STD	OPT
Audible alarm – reverse direction activated 82–102 dB(A)	x	
Forward motion alarm		x
Blue LED spotlight - rear		x
Seatbelt interlock for engine start and truck operation		x
Air conditioning shut-off with open door		x
Automatic engine shutdown with timer		x
Delayed engine shutdown for turbo cooldown	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 partially replaced by electric circuit breakers		x
Non-lockable fuel cap	x	
Lockable fuel cap		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, outer mast with centralized greasing system for inner mast		x
Centralized greasing system for top end mast		x
24 volt electrical system	x	
Engine block heater 110 or 240 volt		x
Steer wheel lug nut protection	x	
Front and / or rear mud guards		x
SUPPLEMENTAL	STD	OPT
Literature package	x	
Operator's manual	x	
CE certification		x
Warranty: 12 months / 2,000 hours parts & labor manufacturer's warranty	x	

*Standard or optional in select markets or on select models.
 **Standard on double handling models only.



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