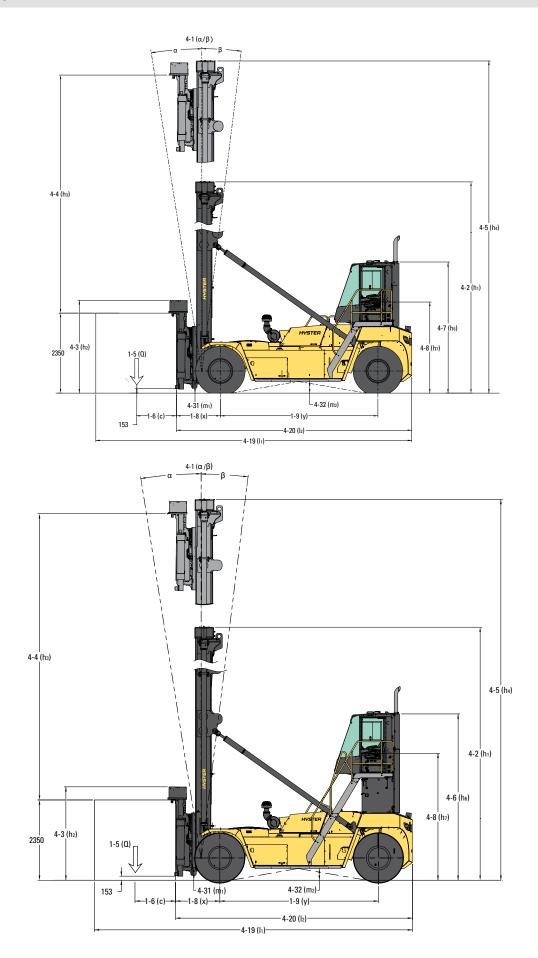


EMPTY CONTAINER HANDLER PRODUCT TECHNICAL GUIDE



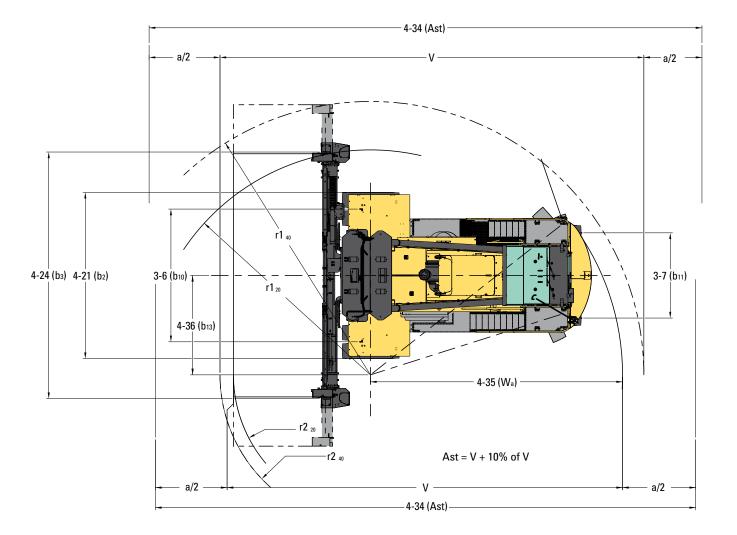
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DIMENSIONS



2

DIMENSIONS



- r₁ = 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 + the larger of r_1 or W_a
- Ast = (practical) 90 ~ stacking aisle width, no intrusive stacking and with clearance:
- Ast = V + a

H180XD-EC6 | H180XD-EC7 SPECIFICATIONS

	1-1	Manufacturer					HYS	TED			HYS	TED	
							H180X				H180X		
		Model designation (AM)											
		Powertrain / drivetrain					Diesel Seated			Diesel			
GENERAL		Operator type				10.1			0.5	10	Sea		
ENE		Load capacity at load center, nominal (1) AM	Q	lb	kg	18,0		8,1			000		165
9		Load center	С	in	mm	4		1,2			18		220
		Load distance	х	in	mm	5		1,3			53		357
		Wheelbase	у	in	mm	17		4,5	500	1	77		500
	1-10	······································		#	#		6 /	5			7/		
노	2-1	Service weight		lb	kg	78,	392	35,	558	81,	377	,	912
WEIGHT		Axle loading with load, front / rear		lb	kg	77,852	35,313	18,065	1	81,117	36,794		8,068
≥	2-3	Axle loading without load, front / rear		lb	kg	50,563	22,935	27,829	12,623	53,828	24,416	27,551	12,497
	3-1	Tire type		Ty	ре		Pneur	natic			Pneu	natic	
10	3-2	Tire size, front					14.00-24	4 24PR			14.00-2	4 24PR	
Ē	3-3	Tire size, rear					14.00-24	4 24PR			14.00-2	4 24PR	
WHEELS	3-5	Number of tires, front / rear (X driven)		#	ŧ		x4 /	/ 2			x4	/ 2	
		Tread, front	b ₁₀	in	mm	12	29	3,2	.82	1:	29	3,2	282
	3-7	Tread, rear	b ₁₁	in	mm	8	3	2,1	08	8	33	2,1	108
	4-1	Mast tilt, forward / backward	α/β	Deg	jree		4 /	3			4/	3	
	4-2	Height, mast lowered	h ₁	in	mm	37	74	9,4	95	4	25	10,	795
	4-3	Freelift	h ₂	in	mm	()	()		0	(0
	4-4	Lift	h ₃	in	mm	54	45	13,	850	6	48	16,	450
	4-4-1	Lift minimum (3)	h _{3.1.1}	in	mm	9	1	2,3	818	g)1	2,3	318
	4-4-2	Lift maximum (3)	h _{3.1.2}	in	mm	63	37	16,	168	7	39	18,	768
	4-5	Height, mast extended		in	mm	64	16	16,	420	7.	49	19,	020
	4-7-1	Height of overhead guard (closed cab)		in	mm	14	19	3,7	'91	1.	49	3,7	791
	4-7-3	Height of overhead guard (closed cab w/ strobe light)		in	mm	14	19	3,7	'91	1.	49	3,7	791
NS		Height of overhead guard (closed cab w/ work lights)		in	mm	15	56	3,9	61	1	56	3,9	961
DIMENSIONS	4-8		h ₇	in	mm	10)4	2,6	50	1	04	2,6	650
EN	4-19		I,	in	mm	36	65	9,2	264	365		9,264	
DIN	4-20		12	in	mm	26	69	6,8	324	269		6,824	
	4-21	Overall width across drive tires	b ₂	in	mm	16	62	4,1	10	1	62	4,1	110
		Width across spreader, retracted / extended	2	in	mm	240	6,084	481	12,218	240	6,084	481	12,218
		Sideshift		in	mm	+/-	24	+/-(+/-	-24	+/-	
		Ground clearance, lowest point	m1	in	mm		2	29			2		93
		Ground clearance, center of wheelbase	m ₂	in	mm	1		38			5		83
		Aisle width with 20' container; no operating clearance * REDUCED / FULL stroke	Ast ₂₀	in	mm	418	10,614	400	10,144	418	10,614	400	10,144
	_	Aisle width with 40' container; no operating clearance * REDUCED / FULL stroke	Ast ₄₀	in	mm	558	14,180	546	13,875	558	14,180	546	13,875
	4-35		W _a	in	mm	268	6,797	249	6,327	268	6,797	249	6,327
	4-36	Internal turning radius, reduced / full stroke	b ₁₃	in	mm	64	1,619	30	763	64	1,619	30	763
		DRMANCE	- 13				Tier 3 / S	tage IIIA			Tier 3 / S	tage IIIA	
		Travel speed, with / without load		mph	km/h	12.4	20	15.5	25	12.4	20	15.5	25
PERFORMANCE		Lifting speed, with / without load		ft/min	m/s	100	0.51	132	0.67	100	0.51	132	0.67
MA		Lowering speed with / without load		ft/min	m/s	108	0.55	108	0.55	108	0.55	108	0.55
ORI	5-5			lb	kN	36,000	160	36,200	161	36,000	160	36,200	161
ERF		Drawbar pull - max, with / without load		lb	kN	43,400	193	43,600	194	43,200	192	43,600	194
Р	5-7	Gradeability - 1 mph (1.6 km/h), with / without load (5)		9		.,	40 /			.,	39 /		
	5-8			9			49 /				48 /		
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H200XD-EC7 | H200XD-EC8 SPECIFICATIONS

		1-1	Manufacturer					HYS	TER			НУ	STER	
Image: space spa														
N 1/2 0 1/2 0 </th <th></th>														
9 1.0 Load capacity is load center, nominal (1) AM 0 bit N N 20.000 9.072 20.000 9.072 1.5 Load center 0 in mm 43 1.22 4.00 3.3 1.35 53 1.35 1.60 Continer stacking height, 8% / 98° 3.43 1.77 4.50 7.6 3.3 3.85 9.143 1.35 1.35 2.2 Ack loading with load, font / rear 0 b kg 65.755 3.558 2.596 3.858 9.143 1.455 2.3 Ter size, font Tree size, font Tree size, font 1.400-542 42 R Tree size, font 1.400-542 42 R Tree size, font 1.400-542 42 R Tree size, font 2.576 3.138 1.430 1.430 3.3 Ter size, font C Tree size, font N N N N N N N N N N N N N N N N N N N <t< th=""><th>Ļ</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th colspan="2"></th><th colspan="2"></th><th></th><th></th></t<>	Ļ													
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Image <	SEN													
b kg B5.75 S0.90 91.43 41.47 b kg B4.01 31.83 21.26 9.655 87.13 33.896 23.271 10.50 23 Ade loading without font / rear ib kg 84.01 31.83 21.266 9.655 87.13 33.896 23.271 10.50 23 Tire type Tire type Type Type Type 14.00-24 24PR 14.00-R24 24 Tire size, ront 14.00-R24 Tire size, ront 14.00-R24 Tire size, ront 14.00-R24 24 Mask of tires, fort / rear (X driven) be in mm Tire size, ront 14.00-R24 24 Height, mask lowered he in mm 72.5 72.5 72.0 72.5 72.0 72.5 72.5 72.0 72.5 72.7 72.2 72.5 72.7 72.2 72.8 72.7 72.8 72.8 72.7 72.8 72.8 72.7 <th72.7< th=""> 72.7 72.7</th72.7<>				,										
Image: Second	E					ka	85			898	91			187
3-1 The type 3-1 The type Pneumatic bias ply Pneumatic bias ply Pneumatic radia 3-3 Time size, front 1 1 1 14.00-224 24PR 14.00-824 14.00-824 3-3 Time size, front ba in mm 129 3.282 138 3.07 3-4 Tread, front ba in mm 129 3.282 138 3.07 3-4 Tread, front ba in mm 129 3.282 10.78 4.13 2.108 4-4 Height nast lowerad back ward mm mm 4.3 7.66 12.095 4-4 Height nast lowerad back ward 4-4 Lift mainmum (3) back ward <	ЮH					-	· · ·						,	
3-1 The type The type Type Pneumatic bias pl/ Pneumatic bias pl/<	WE		• • • • •					1 A A A A A A A A A A A A A A A A A A A					,	
91 32 The size, front 14.00-24 24P The size, rear 14.00-24 24P The size, rear 14.00-242 42P The size, rear 14.00-24 42P 14.00-24 42P 14.00-24 42P 14.00-24 42P 14.00-24 42P 14.00-24 42P 14.00-24 10.00 10.00 1											.,			,
3-5 Tread, rear bp ₀ in m 12.9 3.28.2 13.8 3.50 ⁻ 3-7 Tread, rear bp ₁ in mm mm 3.210 ⁻ 8.3 2.10 ⁻ 4-1 Mast tilt, forward / backward cd/β Deyre <i>i</i> /3.7 10.75 ⁻ 4.76 12.05 4-3 Freelift hp, in mm mm 4.42 10.75 ⁻ 4.76 12.05 4-4.4 Lift min mm mm 7.39 18.76 8.41 2.138 9.10 2.318 9.10 2.318 4-4.2 Lift mainum (3) h _{3.11} in mm mm 7.39 18.76 8.411 2.1.8 4-4.4 Lift mainum (3) min mm mm mm 7.39 14.9 3.71 14.9 3.71 4-7.4 Height or ownead guard (closed cab) mm mm 14.9 3.71 14.9 3.71 4-7.2 Height or ownead guard (closed cab wixork light) m mm mm 1														
3-5 Tread, rear bp ₀ in m 12.9 3.28.2 13.8 3.50 ⁻ 3-7 Tread, rear bp ₁ in mm mm 3.210 ⁻ 8.3 2.10 ⁻ 4-1 Mast tilt, forward / backward cd/β Deyre <i>i</i> /3.7 10.75 ⁻ 4.76 12.05 4-3 Freelift hp, in mm mm 4.42 10.75 ⁻ 4.76 12.05 4-4.4 Lift min mm mm 7.39 18.76 8.41 2.138 9.10 2.318 9.10 2.318 4-4.2 Lift mainum (3) h _{3.11} in mm mm 7.39 18.76 8.411 2.1.8 4-4.4 Lift mainum (3) min mm mm mm 7.39 14.9 3.71 14.9 3.71 4-7.4 Height or ownead guard (closed cab) mm mm 14.9 3.71 14.9 3.71 4-7.2 Height or ownead guard (closed cab wixork light) m mm mm 1	ELS	3-3	Tire size, rear					14.00-2	24 24PR					
3-5 Tread, rear bp ₀ in m 12.9 3.28.2 13.8 3.50 ⁻ 3-7 Tread, rear bp ₁ in mm mm 3.210 ⁻ 8.3 2.10 ⁻ 4-1 Mast tilt, forward / backward cd/β Deyre <i>i</i> /3.7 10.75 ⁻ 4.76 12.05 4-3 Freelift hp, in mm mm 4.42 10.75 ⁻ 4.76 12.05 4-4.4 Lift min mm mm 7.39 18.76 8.41 2.138 9.10 2.318 9.10 2.318 4-4.2 Lift mainum (3) h _{3.11} in mm mm 7.39 18.76 8.411 2.1.8 4-4.4 Lift mainum (3) min mm mm mm 7.39 14.9 3.71 14.9 3.71 4-7.4 Height or ownead guard (closed cab) mm mm 14.9 3.71 14.9 3.71 4-7.2 Height or ownead guard (closed cab wixork light) m mm mm 1	HE	3-5	Number of tires, front / rear (X driven)		#	¥		x4	/2			x4	/2	
3-7 Tread, rear D ₁₁ in mm 0.1 0 0.1	5		, , ,	b ₁₀	in	mm	12			282	13			07
4.1 Mast tilt, forward / backward cr/β Degre I J </th <th></th> <th>3-7</th> <th>Tread, rear</th> <th></th> <th>in</th> <th>mm</th> <th>8</th> <th>3</th> <th>2,1</th> <th>108</th> <th>8</th> <th>3</th> <th>2,1</th> <th>08</th>		3-7	Tread, rear		in	mm	8	3	2,1	108	8	3	2,1	08
4-3 Freelift h ₂ in mm 0 0 0 0 0 4-4 Lift h ₃ in mm 64-8 16.450 750 19.9		4-1	Mast tilt, forward / backward	α/β	Deg	gree		4	/ 3			4	/ 3	
		4-2	Height, mast lowered	h ₁	in	mm	425		10,	795	476		12,0	95
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		4-3	Freelift	h ₂	in	mm	0)	(0	()	0	
44-2 Lift maximum (3) h1 h1 mm 73 18,768 841 21,368 4-44 Height, mast extended in mm 749 19,020 851 21,620 4-74 Height of overhead guard (closed cab) in mm 149 3,791 149 3,791 21,620 4-72 Height of overhead guard (closed cab w/ airco) in mm 149 3,791 149 3,791 <th></th> <th>4-4</th> <th>Lift</th> <th>h₃</th> <th>in</th> <th>mm</th> <th>64</th> <th>18</th> <th>16,</th> <th>450</th> <th>75</th> <th>50</th> <th>19,0</th> <th>)50</th>		4-4	Lift	h ₃	in	mm	64	18	16,	450	75	50	19,0)50
4-5 Height, mast extended in in mm 749 19,020 851 21,620 4-71 Height of overhead guard (closed cab) in in mm 149 3,791 149 3,791 4-72 Height of overhead guard (closed cab w/ strobe light) in in mm 149 3,791 149 3,791 4-74 Height of overhead guard (closed cab w/ strobe light) in in mm 149 3,791 149 3,791 4-74 Height of overhead guard (closed cab w/ strobe light) in in mm 104 2,650 104 2,550 4-74 Height of overhead guard (closed cab w/ strobe light) in in mm 104 2,650 3,961 156 3,961 4,550 4-19 Overall width across strive tires b ₂ in mm 162 4,110 171 4,335 4-23 Width across spreader, retracted / extended m in mm 162 4,110 171 4,335 4-33 Ground clearance, lowest point m, in mm		4-4-1	Lift minimum (3)	h _{3.1.1}	in	mm	9	1	2,3	318	9	1	2,3	18
4-7-1 Height of overhead guard (closed cab) / alroo) in mm 149 3,791 149 3,791 4-7-2 Height of overhead guard (closed cab w/ alroo) in mm 149 3,791 149 3,791 4-7-3 Height of overhead guard (closed cab w/ strobe light) in mm 149 3,791 149 3,791 4-7-4 Height of overhead guard (closed cab w/ strobe light) in mm 156 3,961 3,791 4-8 Seat height to SIP (3) (4) h, in mm 156 3,961 2,850 104 2,850 59,264 36,52 9,264 46,53 59,264 435 59,264 46,52 59,264 46,52 59,264 435 59,264 435 59,264 6,824 269 6,824 269 6,824 269 6,824 269 6,824 240 6,084 481 12,218 240 6,084 481 12,218 240 6,084 481 12,218 240 6,084 481 10,614 400 10,144 418 10,614 400 10,614 <th></th> <th>4-4-2</th> <th>Lift maximum (3)</th> <th>h_{3.1.2}</th> <th>in</th> <th>mm</th> <th>73</th> <th>39</th> <th>18,</th> <th>768</th> <th>84</th> <th>11</th> <th>21,3</th> <th>868</th>		4-4-2	Lift maximum (3)	h _{3.1.2}	in	mm	73	39	18,	768	84	11	21,3	868
4-7-2 4-7-3Height of overhead guard (closed cab w/ strobe light)ininmm14 y3,79114 y3,791<		-			in	mm	749				85	51	21,6	620
4-7-3 Height of overhead guard (closed cab w/ strobe light) in in mm 149 3,791 149 3,791 4-7-4 Height of overhead guard (closed cab w/ work lights) in in mm 156 3,961 156 3,961 4-8 Seat height to SIP (3) (4) hp, in mm 104 2,650 104 2,650 4-19 Overall leight Linght to face of spreader lp in mm 365 9,264 365 9,264 4-20 Overall width across spreader, retracted / extended lp in mm 162 4,110 171 4,335 4-23 Width across spreader, retracted / extended in mm mm 12 293 12 293 4-33 Ground clearance, lowest point mn, in mm 15 383 15 383 4-34 Aisle width with 40° container; no operating clearance * REDUCED / FULL stroke Ast ₁₀ in mm 16,614 400 10,144 418 10,614 400 10,144 4-33 Aisle width with 40° container;					in	mm			3,7	791				
						mm								
420 Length to face of spreader I ₂ in mm 269 6,824 269 6,824 426 6,824 421 Overall width across drive tires b ₂ in mm 10 12 4,110 171 4,335 423 Width across spreader, retracted / extended retracted / extended m mm 240 6,084 481 12,218 24/ 6,084 430 Sideshift m mm +/-24 +/-60 +/-24 +/-24 +/-24 +/-24 -/-28	S		· · · · · · · · · · · · · · · · · · ·											
420 Length to face of spreader I ₂ in mm 269 6,824 269 6,824 426 6,824 421 Overall width across drive tires b ₂ in mm 10 12 4,110 171 4,335 423 Width across spreader, retracted / extended retracted / extended m mm 240 6,084 481 12,218 24/ 6,084 430 Sideshift m mm +/-24 +/-60 +/-24 +/-24 +/-24 +/-24 -/-28	SION		o v v v v v v v v v v											
420 Length to face of spreader I ₂ in mm 269 6,824 269 6,824 426 6,824 421 Overall width across drive tires b ₂ in mm 10 12 4,110 171 4,335 423 Width across spreader, retracted / extended retracted / extended m mm 240 6,084 481 12,218 24/ 6,084 430 Sideshift m mm +/-24 +/-60 +/-24 +/-24 +/-24 +/-24 -/-28	ENS								· · ·					
4-21 Overall width across drive tires b2 in mm 162 4,11 171 4,33 4-23 Width across spreader, retracted / extended in mm 240 6,084 481 12,218 24/- 6,084 4-30 Sideshift in mm mt/-24 +t/-60 +t/-6	DIM		5											
4-23 Width across spreader, retracted / extended in mm 240 6,084 481 12,218 240 6,084 4-30 Sideshift in mm mm +/-24 +/-600 +/-24 +/-600 4-31 Ground clearance, lowest point m₁ in mm 12 293 12 293 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 Asta in mm 418 10,614 400 10,144 418 10,614 400 10,144 4-34 Aisle width with 40' container; no operating clearance * REDUCED / FULL stroke Asta in mm 558 14,180 566 13,875 558 14,180 546 13,875 4-35 Internal turning radius, reduced / full stroke Wa in mm 628 6,797 249 6,327 268 6,797 249 6,327 268 6,797 249 6,327 26 6511				-					.,					
4-30 Sideshift In mm $+I/-24$ $+I/-600$ $+I/-24$				b ₂										
4.31 Ground clearance, lowest point m ₁ in mm 12 293 12 293 12 293 4.32 Ground clearance, center of wheelbase m ₂ in mm 18 10,614 400 10,144 418 10,614 400 10,144 418 10,614 400 10,144 418 10,614 400 10,144 418 10,614 400 10,144 418 10,614 400 10,144 418 10,614 400 10,144 418 10,614 400 10,144 438 400 10,144 438 400 10,144 438 10,614 400 10,144 438 10,614 400 10,144 438 10,614 400 10,144 438 10,614 400 10,144 438 10,614 400 10,144 438 10,614 400 10,144 438 10,614 400 10,144 438 10,614 400 10,144 430 10,875 588 14,180 568 6,797 249 6,327 268 6,797 <td< th=""><th></th><th></th><th>• •</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>			• •											
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 Ast ₂₀ in mm 418 10,614 400 10,144 418 10,614 400 10,144 418 10,614 400 10,144 418 10,614 400 10,144 418 10,614 400 10,144 418 10,614 400 10,144 418 10,614 400 10,144 418 10,614 400 10,144 438 400 10,144 438 400 10,144 438 400 10,144 438 400 10,144 438 400 10,144 438 400 10,144 438 430 568 6,797 249 6,327 268 6,797 249 6,327 268 6,797 249 6,327 268 6,797 249 6,327 268 6,797 249 6,327 268 6,797 249 6,327 268 6,797 249 6,327 268 <th></th> <th></th> <th></th> <th>-</th> <th></th>				-										
4-33 Aisle width with 20' container; no operating clearance * REDUCED / FULL stroke Ast ₂₀ in mm 418 10,614 400 10,144 418 10,614 400 10,144 4-33 Aisle width with 20' container; no operating clearance * REDUCED / FULL stroke Ast ₂₀ in mm 558 14,180 546 13,875 558 14,180 546 13,875 4-35 Outside turning radius, reduced / full stroke Wa in mm 268 6,797 249 6,327 268 6,797 249 6,327 268 6,797 249 6,327 268 6,797 249 6,327 268 6,797 249 6,327 268 6,797 249 6,327 268 6,797 249 6,327 268 6,797 249 6,327 268 6,797 249 6,327 268 6,797 249 6,327 268 651 PERFORMANCE Travel speed, with / without load Travel speed, wi			· · ·											
4-34 Aisle width with 40' container; no operating clearance * REDUCED / FULL stroke Ast ₄₀ in mm 558 14,180 546 13,875 558 14,180 546 13,875 558 14,180 546 13,875 558 14,180 546 13,875 558 14,180 546 13,875 558 14,180 546 13,875 558 14,180 546 13,875 558 14,180 546 13,875 558 14,180 546 13,875 558 14,180 546 13,875 558 14,180 546 13,875 558 14,180 546 13,875 558 14,180 546 13,875 558 14,180 546 13,875 558 14,180 546 13,875 558 14,180 546 13,875 558 16,327 249 6,327 249 6,327 249 6,327 249 6,327 249 6,327 248 150 25 150 25 150 75 753 150 25 150 75 75 75 75 75		-		-				-				-		
4-35 Outside turning radius, reduced / full stroke Wa in mm 268 6,797 249 6,327 268 6,797 249 6,327 4-36 Internal turning radius, reduced / full stroke b13 in mm 64 1,619 30 763 59 1,507 268 6,327 PERFORMANCE Tier 3 / Stage IIIA 5-1 Travel speed, with / without load mph km/h 12.4 20 15.5 25 12.4 20 15.5 25 5-2 Lifting speed, with / without load ft/min m/s 100 0.51 132 0.67 91 0.46 120 0.61 5-3 Lowering speed with / without load ft/min m/s 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 1										· ·		,		
4-36 Internal turning radius, reduced / full stroke b13 in mm 64 1,619 30 763 59 1,507 26 651 FERFORMANCE Tier 3 / Stage IIIA 5-1 Travel speed, with / without load mph km/h 12.4 20 15.5 25 12.4 20 15.5 25 5-2 Lifting speed, with / without load ft/min m/s 100 0.51 132 0.67 91 0.46 120 0.61 5-3 Lowering speed with / without load ft/min m/s 108 0.55														
PERFORMANCE Tier 3 / Stage IIIA 5-1 Travel speed, with / without load mph km/h 12.4 20 15.5 25 12.4 20 15.5 25 5-2 Lifting speed, with / without load ft/min m/s 100 0.51 132 0.67 91 0.46 120 0.61 5-3 Lowering speed with / without load ft/min m/s 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 149 149 149 149 149 149 149 149 149 140,000 178 40,500 180 180 136 / 36 31 / 35 31 / 35 31 / 35 31 / 35 31 / 35 31 / 35 31 / 35				u						<i>'</i>				
5-1 Travel speed, with / without load mph km/h 12.4 20 15.5 25 12.4 20 15.5 25 5-2 Lifting speed, with / without load ft/min m/s 100 0.51 132 0.67 91 0.46 120 0.61 5-3 Lowering speed with / without load ft/min m/s 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 149 149 5-6 Drawbar pull - max, with / without load Ib KN 43,200 192 43,600 194 40,000 178 40,500 180 5-7 Gradeability - 1 mph (1.6 km/h), with / without load (5) % <th></th> <th></th> <th></th> <th>- 13</th> <th></th> <th></th> <th></th> <th>1000</th> <th></th> <th></th> <th></th> <th>1</th> <th></th> <th></th>				- 13				1000				1		
5-7 Gradeability - 1 mph (1.6 km/h), with / without load (5) % 36 / 36 31 / 35					mph	km/h	12.4			25	12.4			25
5-7 Gradeability - 1 mph (1.6 km/h), with / without load (5) % 36 / 36 31 / 35	NCE	5-2	Lifting speed, with / without load		ft/min	m/s	100	0.51	132	0.67	91	0.46	120	0.61
5-7 Gradeability - 1 mph (1.6 km/h), with / without load (5) % 36 / 36 31 / 35	MA	5-3	Lowering speed with / without load		ft/min	m/s	108	0.55	108	0.55	108	0.55	108	0.55
5-7 Gradeability - 1 mph (1.6 km/h), with / without load (5) % 36 / 36 31 / 35	FOR	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load		lb	kN	35,700	159	36,200	161	33,000	147	33,500	149
5-7 Gradeability - 1 mph (1.6 km/h), with / without load (5) % 36 / 36 31 / 35	ER	5-6	Drawbar pull - max, with / without load		lb	kN	43,200	192	43,600	194	40,000	178	40,500	180
5-8 Gradeability - max, with / without load (5) % 45 / 36 39 / 35		5-7	Gradeability - 1 mph (1.6 km/h), with / without load (5)		9	6		36	/ 36			31	/ 35	
		5-8	Gradeability - max, with / without load (5)		9	6		45	/ 36			39	/ 35	

H200XD-ECD7 | H190XD-ECD8 SPECIFICATIONS

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3 Tread, front b ₀ in m 129 3.282 129 3.282 3.7 Tread, rear b ₁₁ in mm 3.78 1.083 3.2108 8.3 2.108 8.3 2.108 8.3 2.108 8.3 2.108 8.3 2.108 8.3 2.108 8.3 2.108 8.3 2.108 8.3 2.108 8.3 2.108 8.3 2.108 8.3 2.108 8.3 2.108 8.3 2.108 8.3 2.108 8.3 2.108 8.3 8.218 8.3 8.218 8.4 8.4 8.4 8.4 8.4 8.4 9.435 4.25 10.75 4.42 10.71 1.92 4.7 1.92 4.7 1.92 4.7 1.92 4.7 1.92 4.7 1.92 4.7 1.92 3.791 1.49 3.791 1.49 3.791 1.92 4.7 1.92 4.7 1.92 3.71 1.92 3.71 1.92 3.	LS													
3 Tread, front b ₀ in m 129 3.282 129 3.282 3.7 Tread, rear b ₁₁ in mm 3.78 1.083 3.2108 8.3 2.108 8.3 2.108 8.3 2.108 8.3 2.108 8.3 2.108 8.3 2.108 8.3 2.108 8.3 2.108 8.3 2.108 8.3 2.108 8.3 2.108 8.3 2.108 8.3 2.108 8.3 2.108 8.3 2.108 8.3 2.108 8.3 8.218 8.3 8.218 8.4 8.4 8.4 8.4 8.4 8.4 9.435 4.25 10.75 4.42 10.71 1.92 4.7 1.92 4.7 1.92 4.7 1.92 4.7 1.92 4.7 1.92 4.7 1.92 3.791 1.49 3.791 1.49 3.791 1.92 4.7 1.92 4.7 1.92 3.71 1.92 3.71 1.92 3.	HEE				#									
3.7 Tread, rear b ₁ in mm 83 2,108 83 2,108 4.1 Mast tilt, forward / backward α / β Degree $4/3$ $V = 4/3$ $V = 4/3$ $V = 4/3$ 4.2 Height, mast lowered h, in mm 0 0 0 0 0 0 4.4 Lift minumu (3) h, in mm 643 16,320 745 18,850 648 16,450 1,441 4.4.4 Lift maximum (3) h ₂₁₂ in mm 643 16,322 7455 18,927 19,020	N			b		mm	11			282	11			182
4-2 Height, mast lowered h ₁ in mm 374 9.495 425 10.795 4-3 Freelift h ₂ in mm 0 0 0 0 0 4-44 Lift min mm 545 13.850 644 16.450 4-44 Lift min mm 97 2.472 97 2.472 4-44 Lift min mm 646 16.420 749 19.922 4-5 Height, mast extended m mm 646 16.420 749 19.922 4-73 Height of overhead guard (closed cab w/ airco) in mm 149 3.791 149 3.791 4-73 Height of overhead guard (closed cab w/ work lights) in mm 104 2.650 104 2.650 4-74 Height of overhead guard (closed cab w/ work lights) in mm 104 2.650 104 2.650 4-74 Height of overhead guard (closed cab w/ work lights) in mm 104 2.650 104 2.650 104									· · ·	00	0		· · ·	00
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444 Lift minimum (3) h h n m 97 2,472 97 2,472 4-42 Lift maximum (3) h h in mm 643 16,322 745 18,922 4-5 Height, mast extended in mm 646 16,420 749 19,020 4-7 Height of overhead guard (closed cab) in mm 149 3,791 149 3,791 4-7.2 Height of overhead guard (closed cab wisrobe light) in in mm 149 3,791 149 3,791 4-7.4 Height of overhead guard (closed cab wisrobe light) in mm 149 3,791 149 3,791 4-7.4 Height of overhead guard (closed cab wisrobe light) in mm 164 3,961 156 3,961 156 3,961 4.56 104 2,550 4-83 Seat height to foverhead guard (closed cab wisrbe light) in mm 162 4,110 162 4,110 162 4,110 162 4,110 162 4,110 162 4,100 14,200 <t< th=""><th></th><th></th><th></th><th>-</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>				-										
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4-5 Height, mast extended in mm 646 16,42∪ 749 19,02∪ 4-7.1 Height, mast extended in mm 149 3,791 149 3,791 149 3,791 4-7.2 Height of overhead guard (closed cab w/ arco) in mm 149 3,791 149 3,791 43 3,791 449 3,791 43 3,791 449 3,791 449 3,791 449 3,791 449 3,791 449 3,791 449 3,791 449 3,791 449 3,791 449 3,791 449 3,791 43 5,961 156 3,961 156 3,961 4.56 104 2,50 449 Verall length 16 mm 106 mm 162 4,110 16 4.50 104 2,50 4.10 4.50 4.10 4.50 4.10 4.50 4.10 4.10 4.10 4.10 4.10 4.50 4.10 4.50 4.10 4.10 4.10 4.10 4.10 4.10 4.10 4.10 4.10				h										
4-7.1 Height of overhead guard (closed cab) (airco) in nm 149 3,791 149 3,791 4-7.2 Height of overhead guard (closed cab w/ strobe light) in nm 149 3,791 149 3,791 4-7.3 Height of overhead guard (closed cab w/ strobe light) in nm mm 149 3,791 149 3,791 4-7.4 Height of overhead guard (closed cab w/ work lights) in nm nm mm 156 3,961 156 3,961 4-8 Seat height to SIP (4) Seat height to SIP (4) hy in mm 104 2,650 104 2,650 4-19 Overall width across drive tires lp in mm mm 267 6,776 267 6,776 4-20 Length to face of spreader lp in mm mm 162 4,110 16 4,110 16 4,110 16 4,110 16 1,566 308 1,500 12,700 259 6,566 500 12,700 259 6,566 500 12,700 259 6,566 <th></th> <th></th> <th></th> <th>13.1.2</th> <th></th> <th></th> <th>-</th> <th></th> <th>- 1</th> <th></th> <th></th> <th></th> <th></th> <th></th>				13.1.2			-		- 1					
4-72 Height of overhead guard (closed cab w/ sirco) in in mm 149 $3,791$ 149 $3,791$ 4-7.3 Height of overhead guard (closed cab w/ strobe light) in in mm 149 $3,791$ 149 $3,791$ 4-7.4 Height of overhead guard (closed cab w/ strobe light) in in mm 149 $3,791$ 149 $3,791$ 4-7.4 Height of overhead guard (closed cab w/ work lights) in in mm 149 $3,961$ 156 $3,961$ $3,961$ $3,961$ $3,961$ $4,92$ $3,961$ $4,92$ $3,961$ 149 $3,791$ 149 $3,791$ $4,92$ $3,961$ 149 $3,791$ $4,92$ $3,961$ 149 $3,791$ $4,92$ $3,961$ 160 $3,961$ 160 $3,961$ $2,650$ $010 + 2,250$ $2,650$ $010 + 2,250$ $6,776$ 267 $6,776$ 267 $6,776$ 259 $6,566$ 500 $12,700$ 259 $6,566$ 500 $12,700$ 259 $6,566$ 500 $12,700$ 259		_												
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47-4 Height of overhead guard (closed cab w/ work lights) in mm 156 3,961 156 3,961 4.8 Seat height to SIP (4) h ₇ in mm 104 2,650 104 2,650 4.9 Overall length I ₁ in mm 365 9,264 363 9214 4.90 Overall width across drive tires I ₂ in mm 365 9,264 363 9214 4.20 Length to face of spreader I ₂ in mm 365 9,264 363 9214 4.23 Width across drive tires I ₂ in mm 162 4,110 162 4,110 4.33 Ground clearance, lowest point m ₁ in mm 17 182 293 12 293 4.33 Aisle width with 40° container; no operating clearance * REDUCED / FULL stroke Ast ₀ in mm 15 383 15 532 4.33 Aisle width with 40° container; no operating clearance * REDUCED / FULL stroke Ast ₀ in mm 164 10,056 398		-	· · · · · · · · · · · · · · · · · · ·											
4.8 Seat height to SIP (4) h_7 in mm 104 2.65 104 2.65 4.19 Overall length I, in mm 365 9.264 363 9214 4.20 Length to face of spreader I, in mm 267 6.776 267 6.776 227 6.776 4.21 Overall width across drive tires b_2 in mm 226 6.566 500 12.700 259 6.566 500 12.700 4.33 Ground clearance, lowest point m, m, in mm 12^{-2} 23^{-3} 12^{-2} 23^{-3} 4.32 Ground clearance, lowest point m, in mm 15^{-2} 38^{-3} 15^{-5} 38^{-3} 4.33 Aisle width with 20° container, no operating clearance * REDUCED / FULL stroke Ast _o in mm 416^{-1} 10.566^{-3} 38^{-1} 15^{-5} 38^{-3} 4.33 Aisle width with 40° container, no operating clearance * REDUCED / FULL stroke Ast _o in mm <	SNO		с с (с,											
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G 4.20 Length to face of spreader 1_2 in mm 267 $6,776$ 267 $6,776$ 4.21 Overall width across drive tires b_2 in mm 162 $4,110$ 162 $4,110$ 4-23 Width across spreader, retracted / extended in mm 259 $6,566$ 500 $12,700$ $24,110$ 162 $4,110$ 4-23 Width across spreader, retracted / extended in mm 259 $6,566$ 500 $12,700$ $4,170$ $4,170$ 4-30 Sideshift m mm $+7.24$ $+7.600$ $+7.24$ $+7.600$ $+7.24$ $+7.600$ 4-33 Ground clearance, lowest point m, in mm 12 93.3 15 38.3 4-33 Aisle width with 20' container; no operating clearance * REDUCED / FULL stroke At_{50} in mm 416 $10,566$ 398 $10,096$ 416 $10,566$ 398 $10,096$ 416 $10,566$ 398 $10,096$ 416 $10,566$ 398 $10,096$	ME		5 (7						· · · ·				· · · ·	
4-21 Overall width across drive tires b2 in mm 162 4,110 162 4,110 4-23 Width across spreader, retracted / extended in mm 259 6,566 500 12,700 259 6,566 500 12,700 4-30 Sideshift in mm +/-24 +/-500 +/-24 </th <th>0</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>20</th> <th>67</th> <th></th> <th></th> <th>20</th> <th>67</th> <th></th> <th></th>	0						20	67			20	67		
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4-30 Sideshift In mm +/-24 +//-600 +/-24 +/-600 +/-24 +/-600 4-31 Ground clearance, lowest point m1 in mm 12 293 12 293 12 293 4-32 Ground clearance, center of wheelbase m2 in mm 16 10,566 398 10,096 416 10,566 398 10,096 416 10,566 398 10,096 443 Aisle width with 20' container; no operating clearance * REDUCED / FULL stroke Ast ₂₀ in mm 416 10,566 398 10,096 416 10,566 398 10,096 4-33 Aisle width with 40' container; no operating clearance * REDUCED / FULL stroke Ast ₄₀ in mm 566 14,382 554 14,081 366 14,382 554 14,081 30 763 4-34 Aisle width with 40' container; no operating clearance * REDUCED / FULL stroke Ma in mm 268 6,797 249 6,327 268 6,797 249 6,327 268 6,797 249 6,327 25 <th></th> <th>4-23</th> <th>Width across spreader, retracted / extended</th> <th>2</th> <th>in</th> <th>mm</th> <th>259</th> <th>6,566</th> <th>500</th> <th>12,700</th> <th>259</th> <th>6,566</th> <th>500</th> <th>12,700</th>		4-23	Width across spreader, retracted / extended	2	in	mm	259	6,566	500	12,700	259	6,566	500	12,700
4-32 Ground clearance, center of wheelbase m2 in mm 1 33 1 33 33 4-33 Aisle width with 20' container; no operating clearance * REDUCED / FULL stroke Ast ₂₀ in mm 416 10,566 398 10,096 416 10,566 398 10,096 446 10,566 398 10,096 446 10,566 398 10,096 446 10,566 398 10,096 446 10,566 398 10,096 446 10,566 398 10,096 446 14,081 566 14,382 554 14,081 566 14,382 554 14,081 566 14,382 564 14,081 566 6,797 249 6,327 268 6,797 249 6,327 268 6,797 249 6,327 268 6,797 249 6,327 268 16,19 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 753 15 25 12.4 20 15.5 25 12.4 <th></th> <th></th> <th></th> <th></th> <th>in</th> <th>mm</th> <th>+/-</th> <th></th> <th>+/-(</th> <th></th> <th>+/-</th> <th></th> <th></th> <th></th>					in	mm	+/-		+/-(+/-			
4-32 Ground clearance, center of wheelbase m2 in mm 1 33 1 33 33 4-33 Aisle width with 20' container; no operating clearance * REDUCED / FULL stroke Ast ₂₀ in mm 416 10,566 398 10,096 416 10,566 398 10,096 446 10,566 398 10,096 446 10,566 398 10,096 446 10,566 398 10,096 446 10,566 398 10,096 446 10,566 398 10,096 446 14,081 566 14,382 554 14,081 566 14,382 554 14,081 566 14,382 564 14,081 566 6,797 249 6,327 268 6,797 249 6,327 268 6,797 249 6,327 268 6,797 249 6,327 268 16,19 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 753 15 25 12.4 20 15.5 25 12.4 <th></th> <th>4-31</th> <th>Ground clearance, lowest point</th> <th>m,</th> <th>in</th> <th>mm</th> <th>1</th> <th>2</th> <th>29</th> <th>93</th> <th>1</th> <th>2</th> <th>29</th> <th>93</th>		4-31	Ground clearance, lowest point	m,	in	mm	1	2	29	93	1	2	29	93
4-33 Aisle width with 20' container; no operating clearance * REDUCED / FULL stroke Ast ₂₀ in mm 416 10,566 398 10,096 416 10,566 398 10,096 4-34 Aisle width with 40' container; no operating clearance * REDUCED / FULL stroke Ast ₄₀ in mm 566 14,382 554 14,081 566 14,382 554 14,081 4-35 Outside turning radius, reduced / full stroke Wa in mm 644 1,619 30 763 644 1,619 30 763 644 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 753 54 14,041				m ₂	in	mm	1	5	38	33	1	5	38	33
4-34 Aisle width with 40' container; no operating clearance * REDUCED / FULL stroke Ast ₄₀ in mm 566 14,382 554 14,081 566 14,382 554 14,081 4-35 Outside turning radius, reduced / full stroke Wa in mm 268 6,797 249 6,327 268 6,797 249 6,327 4-36 Internal turning radius, reduced / full stroke b ₁₃ in mm 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 753 14,90 15,5 25 12,4 20 15,5 25 15,5 14,90 16,90 16,90 <td< th=""><th></th><th></th><th></th><th></th><th>in</th><th>mm</th><th>416</th><th>10,566</th><th>398</th><th>10,096</th><th>416</th><th>10,566</th><th>398</th><th>10,096</th></td<>					in	mm	416	10,566	398	10,096	416	10,566	398	10,096
4-35 Outside turning radius, reduced / full stroke Wa in mm 268 6,797 249 6,327 268 6,797 249 6,327 4-36 Internal turning radius, reduced / full stroke b13 in mm 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 763 64 1,619 30 1,61 51 54 1,619 30 1,61 51 54 1,63 54 1,63 1,61<		4-34	Aisle width with 40' container; no operating clearance * REDUCED / FULL stroke		in	mm	566	14,382	554	14,081	566	14,382	554	14,081
4-36 Internal turning radius, reduced / full stroke b13 in mm 64 1,619 30 763 65 55 55		4-35	Outside turning radius, reduced / full stroke		in	mm	268	6,797	249	6,327	268	6,797	249	6,327
5-1 Travel speed, with / without load mph km/h 12.4 20 15.5 25 12.4 20 15.5 25 5-2 Lifting speed, with / without load ft/min m/s 91 0.46 120 0.61 91 0.46 120 0.61 5-3 Lowering speed with / without load ft/min m/s 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 108 0.55 149 0.46 140 0.55 149 0.46 140 0.55 148 0.55 108 0.55 148 0.55 148 0.55 149 0.40 147 0.50 149 0.56 149 0.50 149 0.50 149 0.50 149 0.50 149 <th< th=""><th></th><th>4-36</th><th>Internal turning radius, reduced / full stroke</th><th>b₁₃</th><th>in</th><th>mm</th><th>64</th><th>1,619</th><th>30</th><th>763</th><th>64</th><th>1,619</th><th>30</th><th>763</th></th<>		4-36	Internal turning radius, reduced / full stroke	b ₁₃	in	mm	64	1,619	30	763	64	1,619	30	763
5-2 Lifting speed, with / without load ft/min m/s 91 0.46 120 0.46 120 0.61 5-3 Lowering speed with / without load ft/min m/s 108 0.55 149 140		PERFO	DRMANCE					Tier 3 / S	Stage IIIA			Tier 3 / S	tage IIIA	
5-3 Lowering speed with / without load ft/min m/s 108 0.55 149 149 149 149 149 149 149 149 149 140	ш	5-1	Travel speed, with / without load		mph	km/h	12.4	20	15.5	25	12.4	20	15.5	25
5-5 Drawbar pull - 1 mph (1.6 km/h), with / without load Ib kN 33,300 148 33,500 149 33,000 147 33,500 149 5-6 Drawbar pull - max, with / without load Ib kN 40,000 178 40,500 180 40,000 178 40,000 178 40,000 180	NC				ft/min	m/s	91		120		91	0.46	120	0.61
5-6 Drawbar pull - max, with / without load Ib kN 40,000 178 40,000 178 40,000 178 40,000 180 5-7 Gradeability - 1 mph (1.6 km/h), with / without load (5) % 33 / 39 32 / 38 32 / 38	RMA		Lowering speed with / without load		ft/min	m/s								0.55
5-7 Gradeability - 1 mph (1.6 km/h), with / without load (5) % 33 / 39 32 / 38	FOF	_			lb	kN	33,300	148	33,500	149	33,000	147	33,500	149
	PER	5-6	Drawbar pull - max, with / without load		lb	kN	40,000	178	40,500	180	40,000			180
5-8 Gradeability - max, with / without load (5) % 41 / 39 39 / 38			Gradeability - 1 mph (1.6 km/h), with / without load (5)											
		5-8	Gradeability - max, with / without load (5)		9	0		41	/ 39			39	/ 38	

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

	1-1	Manufacturer					HYS	TED				STER			LIVC	STER		
	1-1	Manufacturer Model designation (AM)					H210XI									D-ECD9		
	1-2	U					Die			H230XD-EC8 Diesel				Diesel				
_	1-3	Powertrain / drivetrain						ited		Seated						ated		
RA		Operator type	0	lh	ka	21		9,525 23,000					23,000			100		
GENERAI	1-5 1-6	Load capacity at load center, nominal (1) AM Load center	Q	lb	kg		000 8			48		10,433		48		10,433 1,220		
9	1-0	Load distance	C	in	mm		o 2		220 309	4		1,220			o 2	1,2		
	1-0	Wheelbase	X	in in	mm mm	17			500 500	17			500		77	4,5		
	1-9		У	#	#	14	7+1/	· · ·	000	11	-	· · ·	000	14		· · ·	00	
		Container stacking height, 8'6" / 9'6"				00			000			/6+1	0.47	07		/7+1	100	
E	2-1			lb	kg	92,		41, 21.427	886	94,4		42, 22.436	847	. ,	440	44, ² 22.024	9.990	
WEIGHT	2-2	Axle loading with load, front / rear AM		lb	kg	92,960	1	,	9,719	96,408	43,730	,	10,177	99,664	1.1.1	1.	-,	
_	2-3 3-1	Axle loading without load, front / rear		lb Tu	kg	58,524		33,817	15,339	58,528	26,548		16,299	61,785		35,653	16,172	
	3-1	Tire type Tire size, front		Ту	be		Pneuma 14.00					<mark>atic radial</mark> 0-R24				i <mark>tic radial</mark>)-R24		
S							14.00					0-R24						
NHEELS	3-3	Tire size, rear												14.00-R24				
N	3-5	Number of tires, front / rear (X driven)	h	#				/ 2 x4 3.507 138		· ·	07			/2	07			
	3-6 3-7		Ь ₁₀	in	mm		38	3,5					507		38	3,5		
		,	b ₁₁	in °	mm	8	3	2,° / 3	108	8		/3	108	8	3	2,1	00	
	4-1 4-2	Mast tilt, forward / backward Height, mast lowered	α/β	in	mm	A	47 25		795	42		1	795	4		12,005		
	4-2	0	h ₁	in	mm			- /	795 D	42		- /	795 D			12,095 0		
	4-3	Lift	h ₂ h ₃	in	mm		0		450	648		16,450		0 750		19,050		
	4-4-1	Lift minimum (3)		in	mm		648 97		430 172	97		2,472		97		2,472		
	4-4-2	()	h _{3.1.1} h	in	mm	745			922	745		18,922		847		2,472		
	4-5	Height, mast extended	h _{3.1.2}	in	mm	74		· · · ·	19.020		749		19.020		851		21,620	
	4-7-1			in	mm		49	3,791		149		3,791		149		3,791		
	4-7-2	o ()		in	mm		19	· · · ·	791	149		3,791			19	3,791		
	4-7-3	J		in	mm		19	3,791		149		3,791		149		3,7		
10	4-7-4			in	mm		56	3,961		156		3,9		156		3,961		
NO	4-8	о (h ₇	in	mm	10		2.650		104		2.650		104		2.650		
ISN	4-19		l ₁	in	mm		53 53	9,216		363		9,216		363		9,216		
DIMENSIONS	4-20		-1 2	in	mm	26		6,776		267		6,776		267		6,776		
D	4-21	0	b ₂	in	mm		52	· · · ·	10	17		4,335		171		4.335		
	4-23		-2	in	mm	259	6,566	500	12,700	259	6,566	500	12,700	259	6,566	500	12,700	
	4-30	Sideshift		in	mm		24	+/-	600	+/-			600	+/-	· ·	+/-6	<i>'</i>	
	4-31		m₁	in	mm		2		93	1			93		2	29		
	4-32	Ground clearance, center of wheelbase	m ₂	in	mm		5		83	1			83		5	38		
	4-33	Aisle width with 20' container; no operating clearance * REDUCED / FULL stroke	Ast ₂₀	in	mm	416	10,566	398	10,096	416	10,566	398	10,096	416	10,566	398	10,096	
	4-34	Aisle width with 40' container; no operating clearance * REDUCED / FULL stroke	Ast ₄₀	in	mm	566	14,382	554	14,081	566	14,382	554	14,081	566	14,382	554	14,081	
	4-35	Outside turning radius, reduced / full stroke	Wa	in	mm	268	6,797	249	6,327	268	6,797	249	6,327	268	6,797	249	6,327	
	4-36	Internal turning radius, reduced / full stroke	b ₁₃	in	mm	59	1,507	26	651	59	1,507	26	651	59	1,507	26	651	
		DRMANCE																
	5-1	Travel speed, with / without load		mph	km/h	12.4	20	15.5	25	12.4	20	15.5	25	12.4	20	15.5	25	
NCE	5-2	3		ft/min	m/s	91	0.46	120	0.61	91	0.46	120	0.61	91	0.46	120	0.61	
MA	5-3	Lowering speed with / without load		ft/min	m/s	108	0.55	108	0.55	108	0.55	108	0.55	108	0.55	108	0.55	
PERFORMANCE	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load		lb	kN	33,000	147	33,500	149	33,000	147	33,500	149	33,000	147	33,300	148	
PE	5-6	Drawbar pull - max, with / without load		lb	kN	40,000	178	40,500	180	39,800	177	40,200	179	39,800	177	40,200	179	
	5-7	Gradeability - 1 mph (1.6 km/h), with / without load (5)		%			30 /					/ 37		28 / 36				
	5-8	Gradeability - max, with / without load (5)		%	0		37 /	37			36	/ 37		35 / 36				

POWERTRAINS

	1-1	Manufacturer			HYS	TEP	HYS	TER		
	1-2	Model designation			H180-200			KD-ECD7-9		
	1-3	Power type			Die		Die			
	7-1	Engine manufacturer / model			Cummins			/ QSB 6.7		
	7-1a	EPA Tier Compliance			Tier 3 / S		Tier 3 / S			
	7-2	Engine power - rated	hp	kW	220@2200	164@2200	220@2200	164@2200		
NE	7-2-1	Engine - peak	hp	kW	231@2000	172@2200	231@2000	172@2200		
ENGINE	7-3	Rated speed	rpm	rpm	2,2		2,2			
	7-3-1	Engine torque @ rpm (1.min)	lb-ft	N-m	700@1500	949@1500	700@1500	949@1500		
	7-4	Number of cylinders / displacement	# / in3	# / cm3	6 / 408	6 / 6,690	6 / 408	6 / 6,690		
	x	Turbocharger	Ту	ре	Wastegate, v	vater-cooled	Wastegate, v	vater-cooled		
	7-8	Alternator output	Am	ips	12	20	12	20		
	7-9	Electrical system voltage	١	/	2	4	24			
	7-10	Battery voltage, normal capacity	V /	Ah	24 /	102	24 / 102			
	8-0	Drive control / transmission	Ту	oe	Powershift T	ransmission	Powershift Transmission			
	8-1	Type of drive unit	Ту	ре	Torque C	converter	Torque C	Converter		
ш	8-2	Transmission manufacturer / type	Туре		ZF 5W	/G211	F 5W	G211		
DRIVE	8-2-1	Transmission speeds forward / backward	#		5,	3	5.	/ 3		
	8-3	Wheel drive / drive axel manufacturer / type	Ту	ре	AxleTech / PF	RC 1756W3H	AxleTech / Pf	RC 1756W3H		
	8-11	Service brake	Ту	ре	Oil immerse	d (wet) disc	Oil immersed (wet) disc			
	8-12	Parking brake	Ту	ре	Spring applied, dry		Spring applied, dry disc on drive axle			
	9-1	Spreader manufacturer / type	Ту	ре	Elme / 58	6TB MPS	Elme / 58	4LD PPS		
К.	9-1-1	Pile slope, mechanical	in	mm	+/- 8.1	+/- 205	+/- 7.6	+/- 192		
EADE	9-1-2	Pile slope total, powered	Deg		+/-		+/-			
SPREADER	9-3	Size of containers		t	ISO 20		ISO 20			
	9-4	Sideshift (total)	in	mm	+/- 23.6	+/- 600	+/- 23.6	+/- 600		
	9-4-1	Telescoping time, extend/retract	Sec	Sec		10 / 13		/ 13		
	10-1	Operating pressure for attachments	psi	Мра	3,263	22.5	3,263	22.5		
	10-2	Oil volume for attachments	gpm	l/m	19	72	19	72		
MISC	10-3	Hydraulic tank capacity	gal	1	71	268	71	268		
MIS	10-4 10-4-1	Fuel tank capacity	gal		92 N/A	350 N/A	92 N/A	350 N/A		
		DEF/AdBlue Tank capacity	gal					1		
	10-5 10-6	Steering design	Ty		Hydro 5.		Hydrostatic			
	10-6	Number of steering rotations	7	F	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) Minimum/maximum height of twistlocks
- (3) With raised cabin position add 39" / 1000 mm
- (4) SIP to drive axle plus radius of tires to ground using standard tires

Safety: This truck conforms to the

current EU and ANSI requirements.

(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.

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.

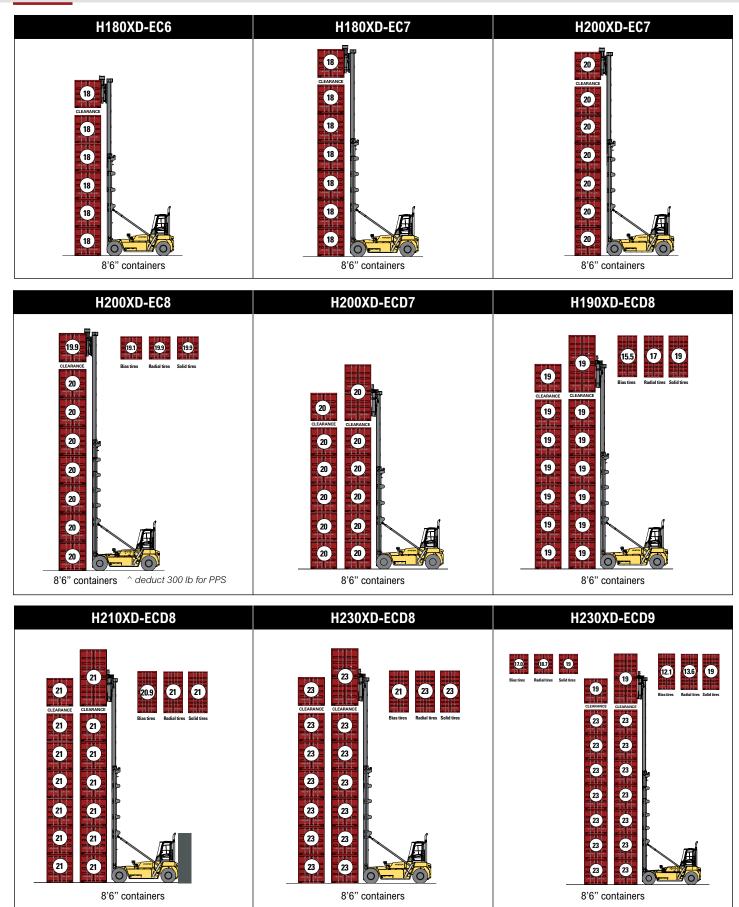
CERTIFICATION: Hyster lift trucks meet the design and construction requirements of B56.1-1969, per OSHA Section 1910.178(a)(2), and also comply with the B56.1 revision in effect at time of manufacture. Certification of compliance with the applicable ANSI standards appears on the lift truck. Performance 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.

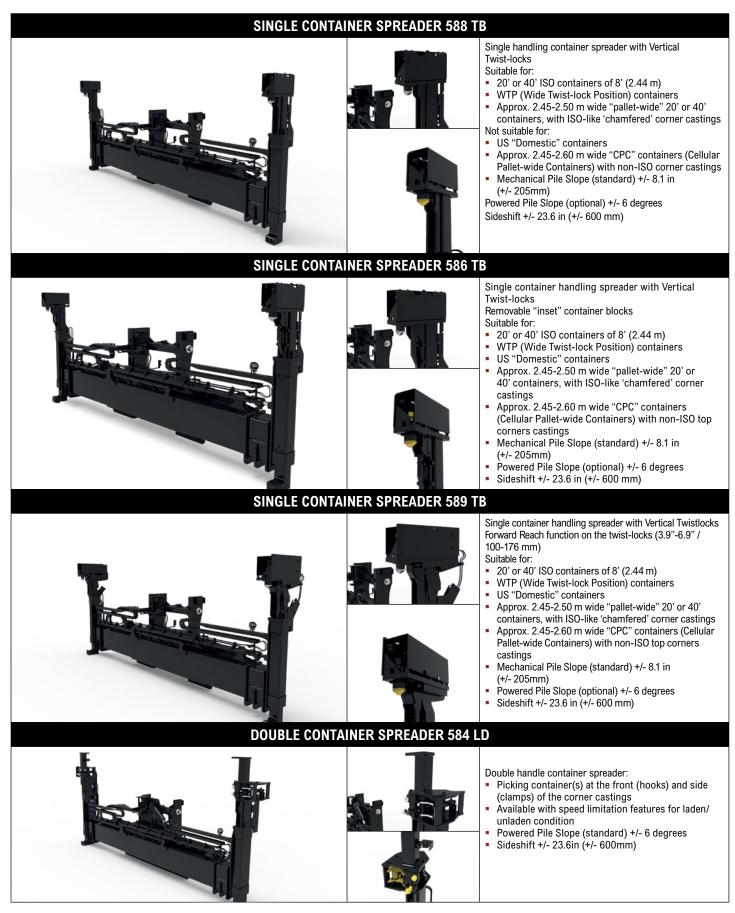
Specification data is based on VDI 2198.

CE

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



SPREADERS AND ENGAGEMENT SYSTEMS



FEATURES AND OPTIONS

PERFORMANCE	STD	OPT
Cummins QSB 6.7L diesel engine rated 220 hp tier 3 / 164 kW Stage IIIA	x	
Tier 3 / stage IIIA compliant	х	
Wastegate turbocharger, water cooled	х	
Hibernate idle	х	
Hydraulically driven on-demand cooling fan	х	
120 amp alternator	х	
Powertrain protection system	х	
ZF transmission 5WG211 5-spd fwd / 3-spd reverse auto-shifting	x	
AxleTech drive axle PRC1756 W3H with wet disc brakes	х	
LIFT	STD	ОРТ
On-Demand Load Sensing Hydraulic System	х	
Automatic throttle-up when lifting (in neutral or inching)	х	
Variable lap mast for low roller forces	х	
2 cylinder / 2 chain design	х	
2 Stage Non Free Lift Mast	х	
Mast tilt - 4° Forward / 3° Back	х	
Hydraulic accumulator	х	
Pressure compensated lowering		х
Hydraulic system temperature protection with performance de-rate		х
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		х
Mechanical pile slope	х	~
Powered pile slope*	~	х
Automatic one-touch extend/retract (20'/40') for spreader		x
Mast tilt indicator - mechanical		x
ERGONOMICS	STD	OPT
Enclosed Classic Cabin	х	
Powered tilt operator compartment for service	^	x
Manual tilt operator compartment for service	х	Â
Raised cabin height	^	х
Cabin automatic tip-up (for high stacking)		x
Operator presence system	х	^
Mechanical suspension seat	x	
Air suspension seat	^	x
Deluxe air suspension seat		x
Low backrest seat	х	~
High backrest seat	^	x
Armrest on left side	х	^
Cloth seat cover	x	
Vinyl seat cover	^	x
2-point high visibility seatbelt	х	^
Lateral seat sliding mechanism	^	x
Eatoral sout sharing moonanism		~

Dome interior light	x	
Front, top and rear wipers	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		х
7" Integrated Performance Display	x	
Dual 7" Integrated Performance Displays*		х
Joystick hydraulic control integrated in control arm	x	
Steering wheel with spinner knob	х	
Directional control lever on steering column	x	
Directional control on joystick		х
Park brake - manual	x	
Park brake - automatic		х
Interior wide angle mirrors	x	
Heater with adjustable speed fan	x	
USB outlet inside armrest	х	
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	
Reading light		х
Sun shades on top and rear	x	
Sun visors front window	~	х
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	
		UPI
Steel bars under armoured glass top window	X	
External wide angle mirrors mounted on rear of front fenders Exterior mirrors mounted to handrails	X	v
		X
Rear view camera system	v	X
LED work lights	X	
Four LED 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	х	
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	х	
OPERATION	STD	OPT
Air horn 112 dBA	х	
Visible alarm – amber strobe light	х	
OPERATION (continued)	STD	OPT
*Standard on devide handling models		

*Standard on double handling models.

FEATURES AND OPTIONS

Audible alarm – reverse direction activated	х	
Blue LED spotlight - rear		Х
Seatbelt interlock for engine start and truck operation		х
Air conditioning shut-off with open door	x	
Automatic engine shutdown with timer		х
Delayed engine shutdown for turbo cooldown		х
Lockable battery disconnect switch		х
Battery jump start connector (NATO plug)		х
Truck start with key switch and start button	x	
Operator password (display) for truck start	x	
Fuses partially replaced by electric circuit breakers		х
Non-lockable fuel cap	x	
Lockable fuel cap		х
Hyster Tracker™ wireless asset management - access / verification		х
Hyster Tracker™ wireless asset management - monitoring	x	
Tire pressure monitoring system		х
Load weight indicator		х
Auto greasing system for spreader		х
Auto greasing system for base truck, outer mast with centralized greasing system for inner mast		x
Centralized greasing system for top end mast		х
24 volt electrical system	x	
Steer wheel lug nut protection	x	
Front and rear mud guards		х
SUPPLEMENTAL	STD	OPT
Literature package	x	
Operator's manual	x	
CE certification		х
Warranty: 12 months / 2,000 hours parts & labor manufacturer's warranty	x	

*Standard on double handling models.



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