

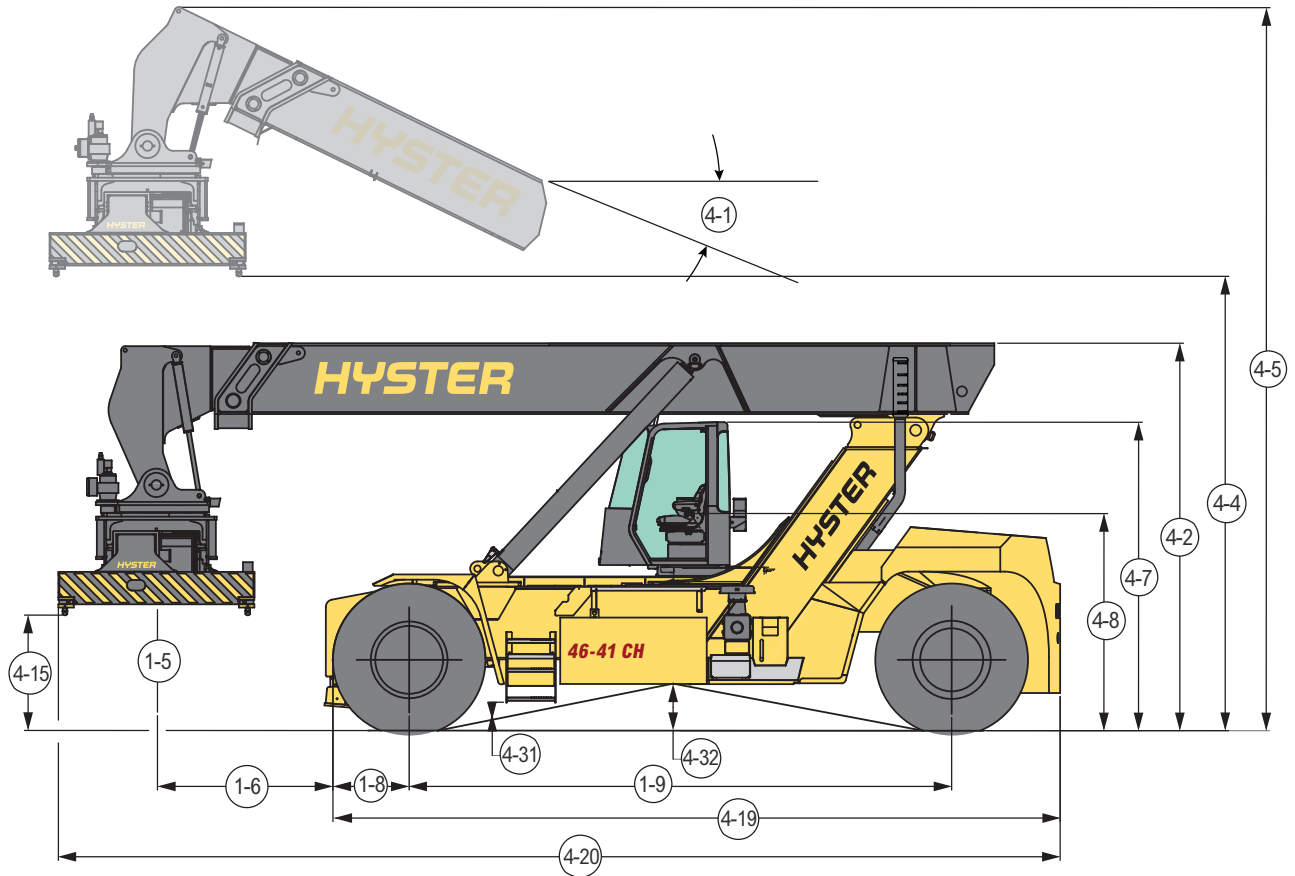
RS46 SERIES



REACHSTACKER PRODUCT TECHNICAL GUIDE



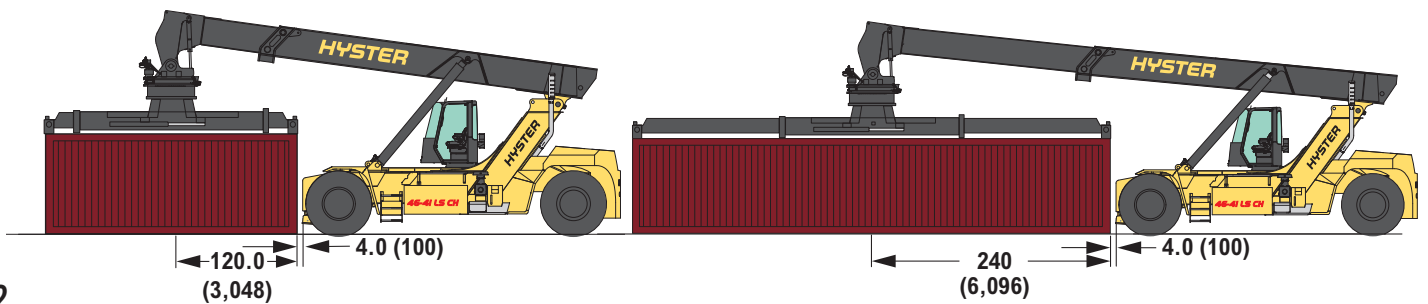
RS46 DIMENSIONS

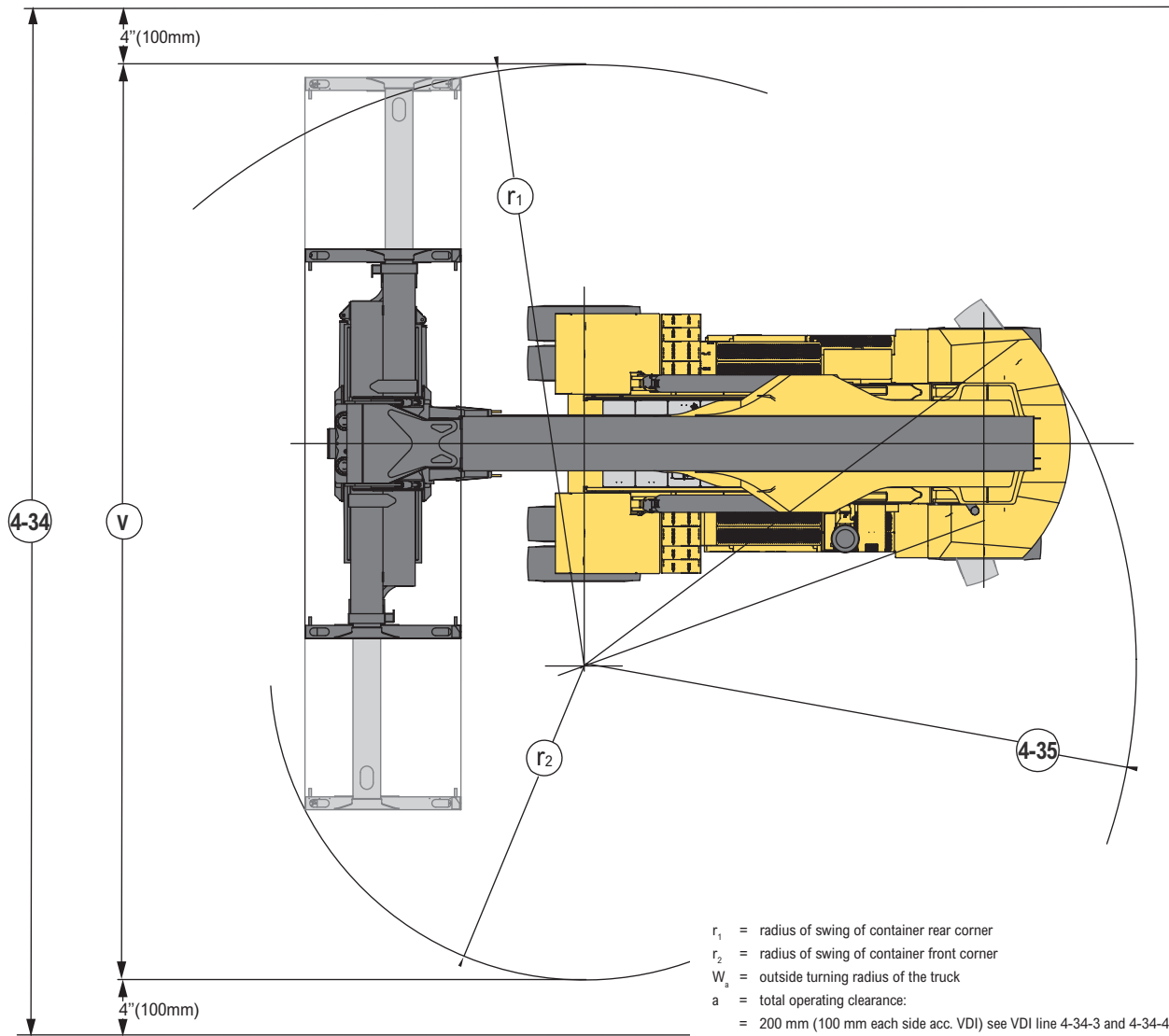


MAXIMUM CAPACITY CONTAINER PICKING END TO END				
MODEL	20'		40'	
	lb	kg	lb	kg
RS46-29XD/62	71,000	32,000	31,000	14,000
RS46-33XD/62	77,000	35,000	35,000	16,000
RS46-36XD/62	93,000	42,000	44,000	20,000
RS46-41XD/62S	99,000	44,900	58,000	26,300
RS46-41XD/67	99,000	44,900	58,000	26,300
RS46-41XD/67S	99,000	44,900	58,000	26,300
RS46-41XD/75S	99,000	44,900	61,000	27,500

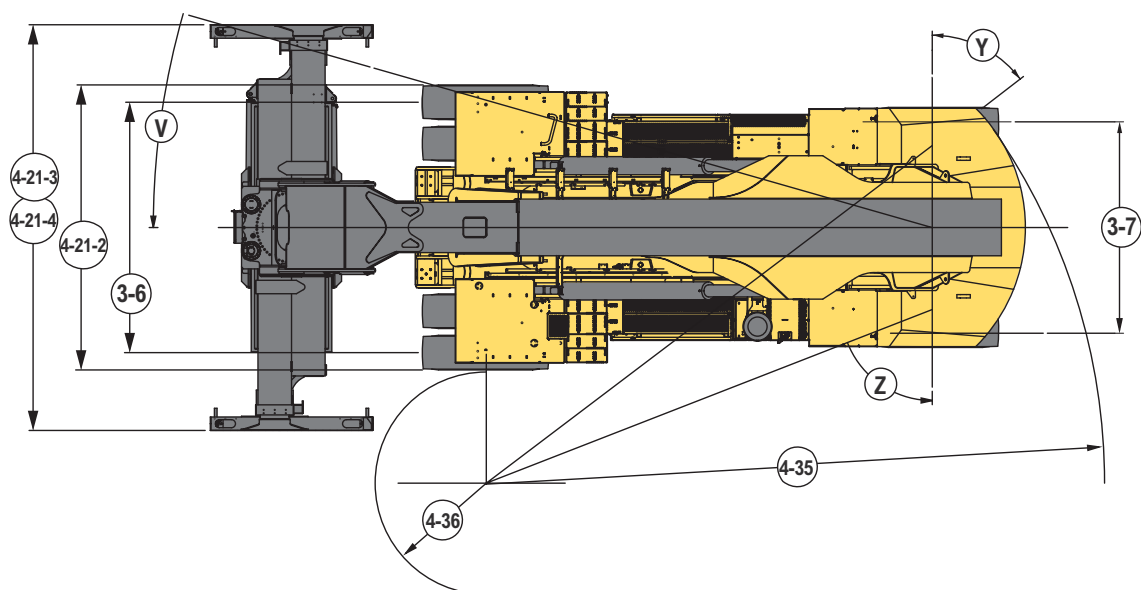
20'-0" END ON LIFTING CAPACITIES

40'-0" END ON LIFTING CAPACITIES





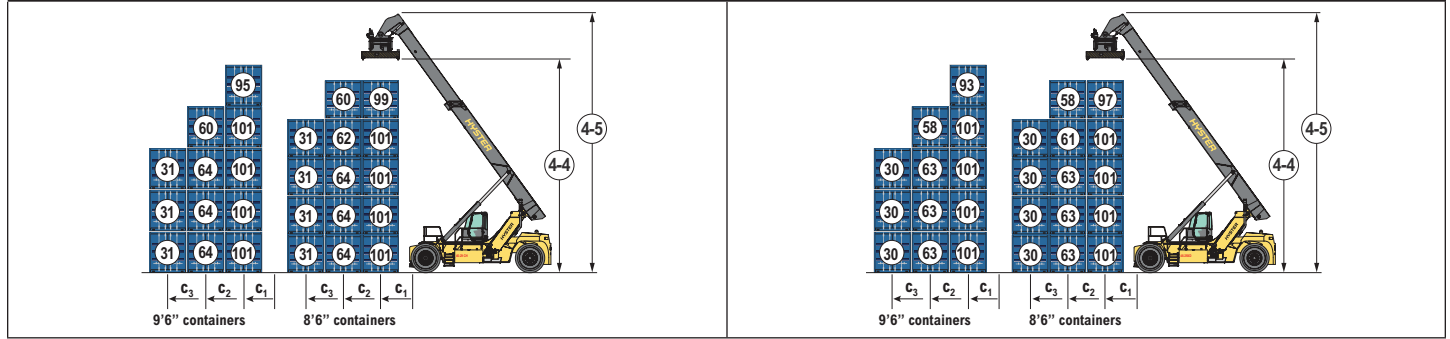
- r_1 = radius of swing of container rear corner
- r_2 = radius of swing of container front corner
- W_a = outside turning radius of the truck
- a = total operating clearance:
= 200 mm (100 mm each side acc. VDI) see VDI line 4-34-3 and 4-34-4
- V = (theoretical) 90° stacking aisle width, no intrusive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



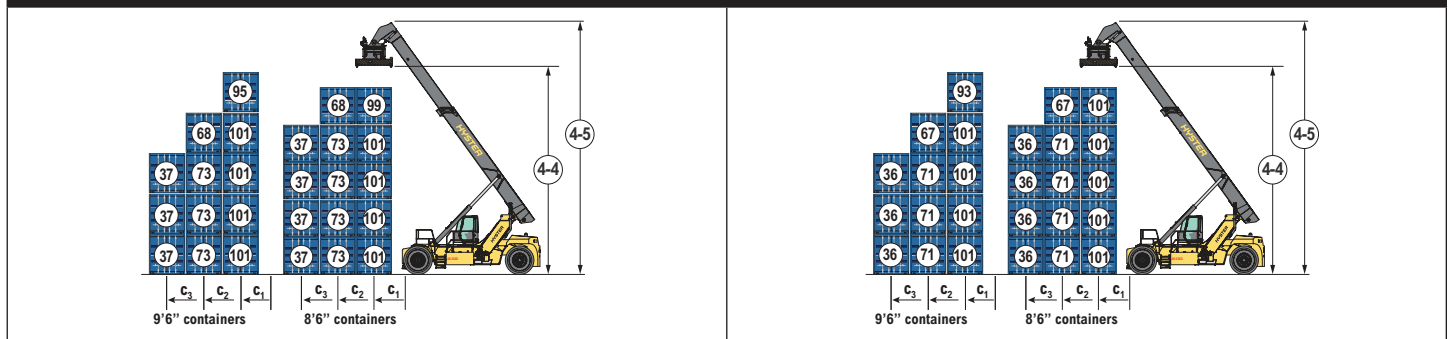
RATED CAPACITIES AND STACKING HEIGHTS (SHOWN IN 1,000 LB)

MECHANICAL PILE SLOPE POWERED PILE SLOPE

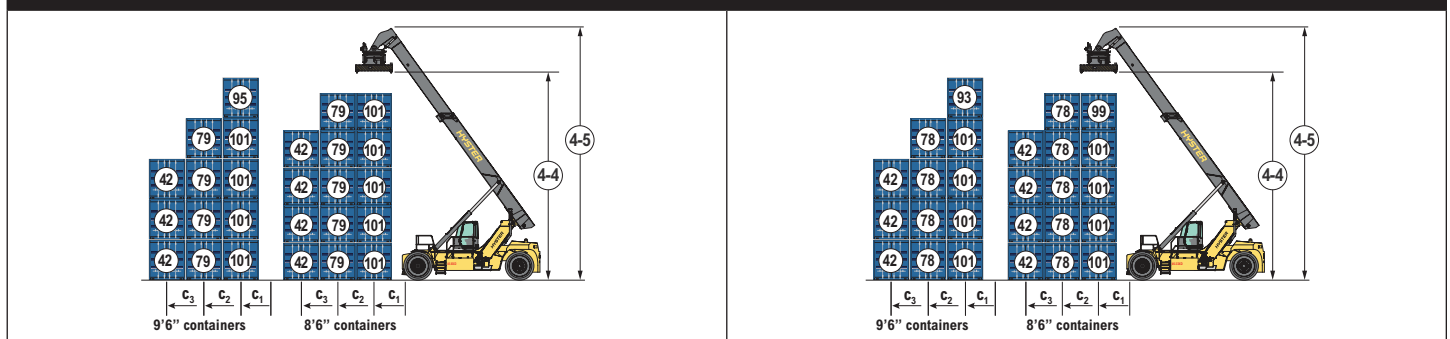
RS46-29XD/62 CONTAINER SPREADER



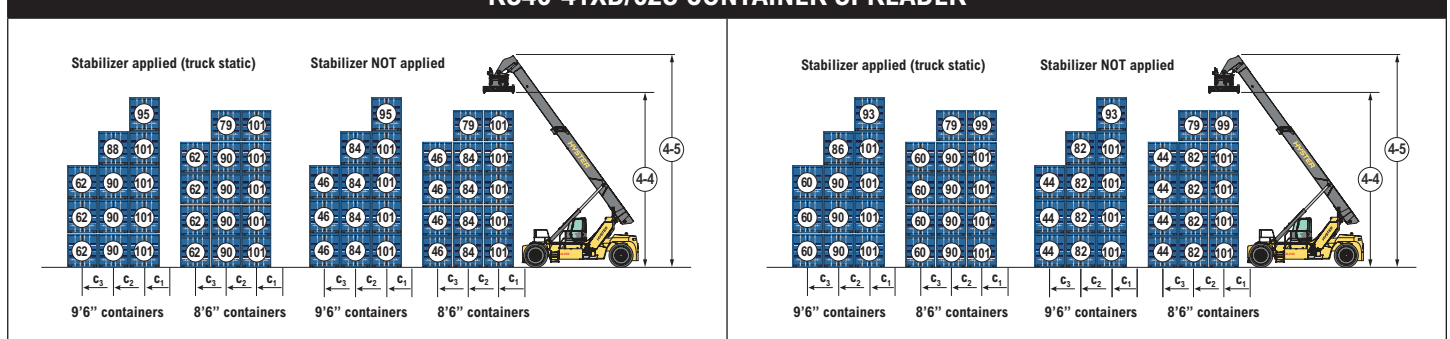
RS46-33XD/62 CONTAINER SPREADER



RS46-36XD/62 CONTAINER SPREADER



RS46-41XD/62S CONTAINER SPREADER



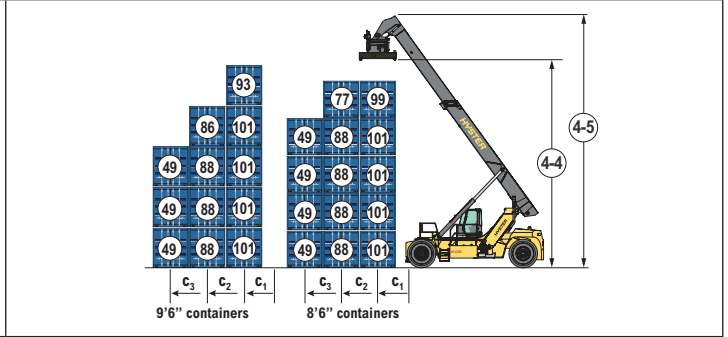
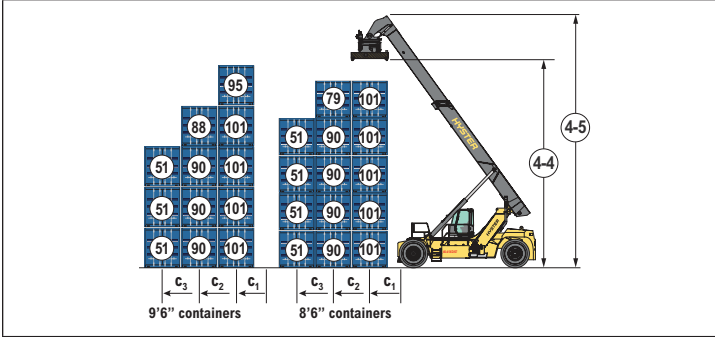
C ₁	C ₂	C ₃
73"	150"	249"
1865mm	3815mm	6315mm

Note: All load centers c₁, c₂, c₃ are taken from the front face of the (front) tires, deduct 3.9" for load centers taken from the front face of the stabilizer.

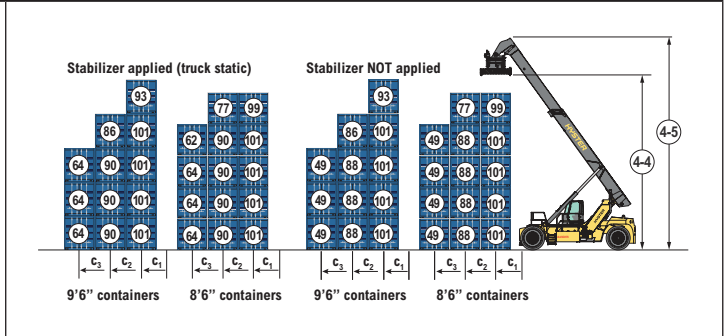
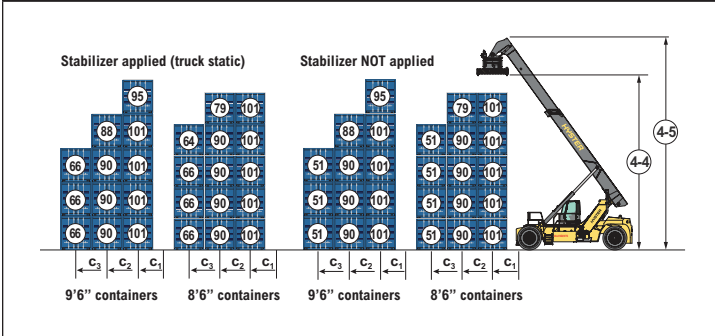
RATED CAPACITIES AND STACKING HEIGHTS (SHOWN IN 1,000 LB)

MECHANICAL PILE SLOPE POWERED PILE SLOPE

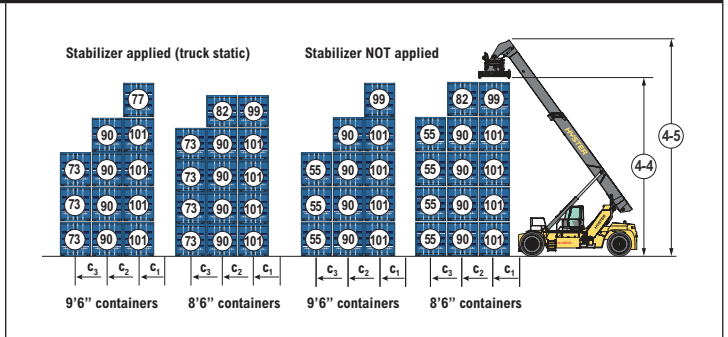
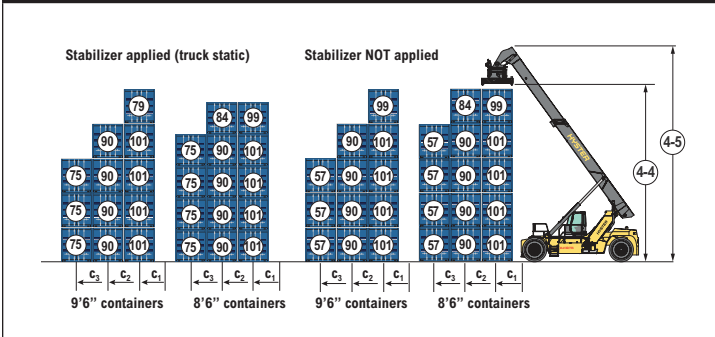
RS46-41XD/67 CONTAINER SPREADER



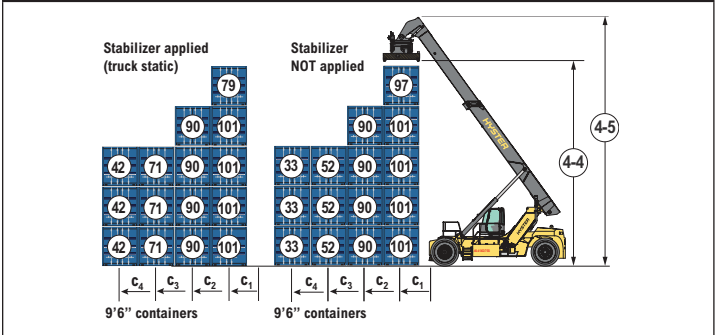
RS46-41XD/67S CONTAINER SPREADER



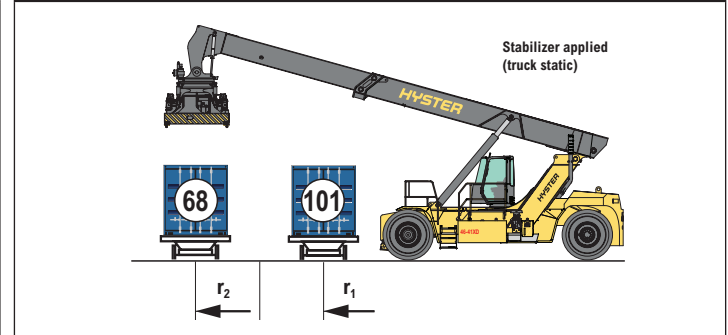
RS46-41XD/75S CONTAINER SPREADER



RS46-41XD/75S CONTAINER SPREADER (WTP WITH POWERED PILE SLOPE)



HANDLING IN SECOND RAIL (WTP WITH POWERED PILE SLOPE)



C ₁	C ₂	C ₃	C ₄
73"	150"	249"	344"
1865mm	3815mm	6315mm	8750mm

r ₁	r ₂
73"	252"
1865mm	6400mm

Note: All load centers c_1 , c_2 , c_3 , c_4 are taken from the front face of the (front) tires, deduct 3.9" for load centers taken from the front face of the stabilizer.

RS46-29XD/62 | RS46-33XD/62 SPECIFICATIONS

					HYSTER				HYSTER				
					RS46-29XD/62				RS46-33XD/62				
GENERAL	1-1	Manufacturer											
	1-2	Model designation											
	1-3	Powertrain/drivetrain											
	1-4	Operator type											
	1-5-1	Load capacity at load center distance c1 without/with stabilizer	Q1	lb	kg	101,413	46,000	N/A	N/A	101,413	46,000	N/A	N/A
	1-5-2	Load capacity at load center distance c2 without/with stabilizer	Q2	lb	kg	63,934	29,000	N/A	N/A	72,753	33,000	N/A	N/A
	1-5-3	Load capacity at load center distance c3 without/with stabilizer	Q3	lb	kg	30,865	14,000	N/A	N/A	37,479	17,000	N/A	N/A
	1-6-1	Load center distance c1 (1)	c1	in	mm	73		1,865		73		1,865	
	1-6-2	Load center distance c2 (1)	c2	in	mm	150		3,815		150		3,815	
	1-6-3	Load center distance c3 (1)	c3	in	mm	249		6,315		249		6,315	
1-8	Load distance, center of drive axle to face of front tires/front of stabilizer	x	in	mm	33	835	N/A	N/A	33	835	N/A	N/A	
1-9	Wheelbase	y	in	mm	244		6,200		244		6,200		
1-10	Stacking height at first row			#			5 x 9'6"				5 x 9'6"		
WEIGHT	2-1	Service weight		lb	kg	147,048		66,700		153,001		69,400	
	2-2-1	Axle loading with load (c1), front/rear		lb	kg	219,140	99,400	29,321	13,300	218,699	99,200	35,715	16,200
	2-3-1	Axle loading without load (c1), front/rear		lb	kg	73,414	33,300	73,634	33,400	72,973	33,100	80,028	36,300
WHEELS	3-1	Tire type		Type			Pneumatic				Pneumatic		
	3-2	Tire size, front					18.00-25 40PR				18.00-25 40PR		
	3-3	Tire size, rear					18.00-25 40PR				18.00-25 40PR		
	3-5	Number of tires, front/rear (X driven)					x 4/2				x 4/2		
	3-6	Tread, front	b10	in	mm	146		3,703		146		3,703	
	3-7	Tread, rear	b11	in	mm	120		3,060		120		3,060	
DIMENSIONS	4-1	Boom angle minimum/maximum	0	degrees			0/59				0/59		
	4-2	Height of boom lowered	h1	in	mm	185		4,700		185		4,700	
	4-4-1	Lift height at load center c1 (2)	h3.1	in	mm	598		15,190		598		15,190	
	4-4-2	Lift height at load center c2 (2)	h3.2	in	mm	543		13,780		543		13,780	
	4-5	Height, boom extended	h4	in	mm	713		18,110		713		18,110	
	4-7	Height of overhead guard (cabin)	h6	in	mm	146		3,720		146		3,720	
	4-8	Seat height to SIP (3)	h7	in	mm	101		2,555		101		2,555	
	4-15	Height under twistlock - lowered	h13	in	mm	50		1,275		50		1,275	
	4-19	Overall length	l1	in	mm	329		8,360		329		8,360	
	4-20	Overall length including boom retracted	l2	in	mm	467		11,873		467		11,873	
	4-21-2	Overall width across all of truck	b2	in	mm	165		4,200		165		4,200	
	4-21-3	Overall width across spreader 20'	b1.20	in	mm	240		6,100		240		6,100	
	4-21-4	Overall width across spreader 40'	b1.40	in	mm	480		12,200		480		12,200	
	4-31	Ground clearance, lowest point	m1	in	mm	12		296		12		296	
	4-32	Ground clearance, center or wheelbase	m2	in	mm	18		459		18		459	
	4-34-1	Aisle width: 20' container - Add clearance (4)	Ast 20	in	mm	386		9,817		386		9,817	
	4-34-2	Aisle width: 20' container - Add clearance (6)	Ast 20	in	mm	490		12,439		490		12,439	
	4-34-3	Aisle width with 20' container - 200 mm operating clearance (6)	Ast 20	in	mm	498		12,639		498		12,639	
	4-34-4	Aisle width with 20' container - 10% operating clearance (6)	Ast 20	in	mm	539		13,683		539		13,683	
	4-34-6	Aisle width: 40' container - Add clearance (4)	Ast40	in	mm	495		12,569		495		12,569	
4-34-7	Aisle width: 40' container - Add clearance (6)	Ast 40	in	mm	559		14,203		559		14,203		
4-34-8	Aisle width with 40' container - 200mm operating clearance (6)	Ast40	in	mm	567		14,403		567		14,403		
4-34-9	Aisle width with 40' container - 10% operating clearance (6)	Ast40	in	mm	615		15,623		615		15,623		
4-35	Outside turning radius	Wa	in	mm	331		8,420		331		8,420		
4-36	Internal turning radius	b13	in	mm	59		1,500		59		1,500		
PERFORMANCE	POWERTRAIN 1				X12 Tier 4 355hp (265kW) - TE30				X12 Tier 4 355hp (265kW) - TE30				
	5-1	Travel speed, with/without load		mph	km/h	12.4	20	14.3	23	12.4	20	14.3	23
	5-2	Lifting speed, with/without load		ft/min	m/s	55	0.28	94	0.48	55	0.28	94	0.48
	5-3	Lowering speed, with/without load		ft/min	m/s	91	0.46	89	0.45	91	0.46	89	0.45
	5-7	Gradeability - 1 mph (1.6 km/h), with/without load (5)		%		26		35		27		35	
	POWERTRAIN 2				X12 Tier 3 350hp (261kW) - TE30				X12 Tier 3 350hp (261kW) - TE30				
	5-1	Travel speed, with/without load		mph	km/h	12.4	20	14.3	23	12.4	20	14.3	23
	5-2	Lifting speed, with/without load		ft/min	m/s	55	0.28	94	0.48	55	0.28	94	0.48
	5-3	Lowering speed, with/without load		ft/min	m/s	91	0.46	89	0.45	91	0.46	89	0.45
	5-7	Gradeability - 1 mph (1.6 km/h), with/without load (5)		%		26		35		27		35	

RS46-36XD/62 | RS46-41XD/62S SPECIFICATIONS

					HYSTER				HYSTER				
					RS46-36XD/62				RS46-41XD/62S				
GENERAL	1-1	Manufacturer											
	1-2	Model designation											
	1-3	Powertrain/drivetrain											
	1-4	Operator type											
	1-5-1	Load capacity at load center distance c1 without/with stabilizer	Q1	lb	kg	101,413	46,000	N/A	N/A	101,413	46,000	101,413	46,000
	1-5-2	Load capacity at load center distance c2 without/with stabilizer	Q2	lb	kg	79,366	36,000	N/A	N/A	83,776	38,000	90,390	41,000
	1-5-3	Load capacity at load center distance c3 without/with stabilizer	Q3	lb	kg	41,888	19,000	N/A	N/A	46,297	21,000	61,729	28,000
	1-6-1	Load center distance c1 (1)	c1	in	mm	73		1,865		73		1,865	
	1-6-2	Load center distance c2 (1)	c2	in	mm	150		3,815		150		3,815	
	1-6-3	Load center distance c3 (1)	c3	in	mm	249		6,315		249		6,315	
1-8	Load distance, center of drive axle to face of front tires/front of stabilizer	x	in	mm	37	930	N/A	N/A	37	930	41	1,030	
1-9	Wheelbase	y	in	mm	244		6,200		244		6,200		
1-10	Stacking height at first row			#	5 x 9'6"				5 x 9'6"				
WEIGHT	2-1	Service weight		lb	kg	168,874		76,600		177,693		80,600	
	2-2-1	Axle loading with load (c1), front/rear		lb	kg	223,549	101,400	46,738	21,200	226,856	102,900	52,250	23,700
	2-3-1	Axle loading without load (c1), front/rear		lb	kg	76,500	34,700	92,374	41,900	79,587	36,100	98,106	44,500
WHEELS	3-1	Tire type		Type	Pneumatic				Pneumatic				
	3-2	Tire size, front			18.00-33 36PR				18.00-33 36PR				
	3-3	Tire size, rear			18.00-33 36PR				18.00-33 36PR				
	3-5	Number of tires, front/rear (X driven)			x 4/2				x 4/2				
	3-6	Tread, front	b10	in	mm	146		3,703		146		3,703	
	3-7	Tread, rear	b11	in	mm	120		3,060		120		3,060	
	4-1	Boom angle minimum/maximum			degrees	0/59				0/59			
4-2	Height of boom lowered	h1	in	mm	189		4,795		189		4,795		
4-4-1	Lift height at load center c1 (2)	h3.1	in	mm	602		15,285		602		15,285		
4-4-2	Lift height at load center c2 (2)	h3.2	in	mm	546		13,875		546		13,875		
4-5	Height, boom extended	h4	in	mm	717		18,205		717		18,205		
4-7	Height of overhead guard (cabin)	h6	in	mm	150		3,815		150		3,815		
4-8	Seat height to SIP (3)	h7	in	mm	104		2,650		104		2,650		
4-15	Height under twistlock - lowered	h13	in	mm	54		1,370		54		1,370		
4-19	Overall length	l1	in	mm	341		8,650		344		8,750		
4-20	Overall length including boom retracted	l2	in	mm	475		12,073		475		12,073		
4-21-2	Overall width across all of truck	b2	in	mm	165		4,200		165		4,200		
4-21-3	Overall width across spreader 20'	b1.20	in	mm	240		6,100		240		6,100		
4-21-4	Overall width across spreader 40'	b1.40	in	mm	480		12,200		480		12,200		
4-31	Ground clearance, lowest point	m1	in	mm	12		315		10		250		
4-32	Ground clearance, center or wheelbase	m2	in	mm	21		544		21		544		
4-34-1	Aisle width: 20' container - Add clearance (4)	Ast 20	in	mm	417		10,600		417		10,600		
4-34-2	Aisle width: 20' container - Add clearance (6)	Ast 20	in	mm	517		13,130		517		13,130		
4-34-3	Aisle width with 20' container - 200 mm operating clearance (6)	Ast 20	in	mm	525		13,330		525		13,330		
4-34-4	Aisle width with 20' container - 10% operating clearance (6)	Ast 20	in	mm	569		14,443		569		14,443		
4-34-6	Aisle width: 40' container - Add clearance (4)	Ast40	in	mm	493		12,510		493		12,510		
4-34-7	Aisle width: 40' container - Add clearance (6)	Ast 40	in	mm	568		14,420		568		14,420		
4-34-8	Aisle width with 40' container - 200mm operating clearance (6)	Ast40	in	mm	576		14,620		576		14,620		
4-34-9	Aisle width with 40' container - 10% operating clearance (6)	Ast40	in	mm	624		15,862		624		15,862		
4-35	Outside turning radius	Wa	in	mm	362		9,200		362		9,200		
4-36	Internal turning radius	b13	in	mm	79		2,000		79		2,000		
PERFORMANCE	POWERTRAIN 1				X12 Tier 4 355hp (265kW) - TE30				X12 Tier 4 355hp (265kW) - TE30				
	5-1	Travel speed, with/without load		mph	km/h	12.4	20	14.3	23	12.4	20	14.3	23
	5-2	Lifting speed, with/without load		ft/min	m/s	55	0.28	94	0.48	55	0.28	94	0.48
	5-3	Lowering speed, with/without load		ft/min	m/s	91	0.46	89	0.45	91	0.46	89	0.45
	5-7	Gradeability - 1 mph (1.6 km/h), with/without load (5)			%	23		35		22		35	
	POWERTRAIN 2				X12 Tier 3 350hp (261kW) - TE30				X12 Tier 3 350hp (261kW) - TE30				
	5-1	Travel speed, with/without load		mph	km/h	12.4	20	14.3	23	12.4	20	14.3	23
	5-2	Lifting speed, with/without load		ft/min	m/s	55	0.28	94	0.48	55	0.28	94	0.48
	5-3	Lowering speed, with/without load		ft/min	m/s	91	0.46	89	0.45	91	0.46	89	0.45
	5-7	Gradeability - 1 mph (1.6 km/h), with/without load (5)			%	23		35		22		35	

RS46-41XD/67 | RS46-41XD/67S | RS46-41XD75S SPECIFICATIONS

		HYSTER				HYSTER				HYSTER							
		RS46-41XD/67				RS46-41XD/67S				RS46-41XD/75S							
		Diesel				Diesel				Diesel							
		Seated				Seated				Seated							
GENERAL	1-1	Manufacturer															
	1-2	Model designation															
	1-3	Powertrain/drivertrain															
	1-4	Operator type															
	1-5-1	Load capacity at load center distance c1 without/with stabilizer	Q1	lb	kg	101,413	46,000	N/A	N/A	101,413	46,000	101,413	46,000	101,413	46,000	101,413	46,000
	1-5-2	Load capacity at load center distance c2 without/with stabilizer	Q2	lb	kg	90,390	41,000	N/A	N/A	90,390	41,000	90,390	41,000	90,390	41,000	90,390	41,000
	1-5-3	Load capacity at load center distance c3 without/with stabilizer	Q3	lb	kg	50,706	23,000	N/A	N/A	50,706	23,000	66,139	30,000	55,116	25,000	75,178	34,100
	1-6-1	Load center distance c1 (1)	c1	in	mm	73		1,865		73		1,865		73		1,865	
	1-6-2	Load center distance c2 (1)	c2	in	mm	150		3,815		150		3,815		150		3,815	
	1-6-3	Load center distance c3 (1)	c3	in	mm	249		6,315		249		6,315		249		6,315	
1-8	Load distance, center of drive axle to face of front tires/ front of stabilizer	x	in	mm	37	930	N/A	N/A	37	930	41	1,030	37	930	41	1,030	
1-9	Wheelbase	y	in	mm	264		6,700		264		6,700		295		7,500		
1-10	Stacking height at first row		#		5 x 9'6"				5 x 9'6"				5 x 9'6"				
WEIGHT	2-1	Service weight		lb	kg	176,149		79,900		180,779		82,000		180,779		82,000	
	2-2-1	Axle loading with load (c1), front/rear		lb	kg	223,769	101,500	53,793	24,400	228,840	103,800	53,352	24,200	224,872	102,000	57,320	26,000
	2-3-1	Axle loading without load (c1), front/rear		lb	kg	80,028	36,300	96,122	43,600	85,098	38,600	95,681	43,400	85,650	38,850	95,129	43,150
WHEELS	3-1	Tire type		Type	Pneumatic				Pneumatic				Pneumatic				
	3-2	Tire size, front			18.00-33 36PR				18.00-33 36PR				18.00-33 36PR				
	3-3	Tire size, rear			18.00-33 36PR				18.00-33 36PR				18.00-33 36PR				
	3-5	Number of tires, front/rear (X driven)			x 4/2				x 4/2				x 4/2				
	3-6	Tread, front	b10	in	mm	146		3,703		146		3,703		146		3,703	
	3-7	Tread, rear	b11	in	mm	120		3,060		120		3,060		120		3,060	
	4-1	Boom angle minimum/maximum	0	Degrees	0/59				0/59				3/58				
4-2	Height of boom lowered	h1	in	mm	189		4,795		189		4,795		215		5,457		
4-4-1	Lift height at load center c1 (2)	h3.1	in	mm	602		15,285		602		15,285		597		15,155		
4-4-2	Lift height at load center c2 (2)	h3.2	in	mm	546		13,875		546		13,875		555		14,085		
4-5	Height, boom extended	h4	in	mm	717		18,205		717		18,205		725		18,420		
4-7	Height of overhead guard (cabin)	h6	in	mm	150		3,815		150		3,815		150		3,815		
4-8	Seat height to SIP (3)	h7	in	mm	104		2,650		104		2,650		104		2,650		
4-15	Height under twistlock - lowered	h13	in	mm	54		1,370		54		1,370		69		1,765		
4-19	Overall length	l1	in	mm	360		9,150		364		9,250		396		10,050		
4-20	Overall length including boom retracted	l2	in	mm	495		12,573		495		12,573		536		13,613		
4-21-2	Overall width across all of truck	b2	in	mm	165		4,200		165		4,200		165		4,200		
4-21-3	Overall width across spreader 20'	b1.20	in	mm	240		6,100		240		6,100		240		6,100		
4-21-4	Overall width across spreader 40'	b1.40	in	mm	480		12,200		480		12,200		480		12,200		
4-31	Ground clearance, lowest point	m1	in	mm	12		315		10		250		10		250		
4-32	Ground clearance, center or wheelbase	m2	in	mm	21		544		21		544		21		544		
4-34-1	Aisle width: 20' container - Add clearance (4)	Ast 20	in	mm	421		10,700		421		10,700		474		12,050		
4-34-2	Aisle width: 20' container - Add clearance (6)	Ast 20	in	mm	521		13,230		521		13,230		574		14,580		
4-34-3	Aisle width with 20' container - 200 mm operating clearance (6)	Ast 20	in	mm	529		13,430		529		13,430		582		14,780		
4-34-4	Aisle width with 20' container - 10% operating clearance (6)	Ast 20	in	mm	573		14,553		573		14,553		631		16,038		
4-34-6	Aisle width: 40' container - Add clearance (4)	Ast40	in	mm	495		12,569		495		12,569		523		13,290		
4-34-7	Aisle width: 40' container - Add clearance (6)	Ast 40	in	mm	568		14,420		568		14,420		597		15,170		
4-34-8	Aisle width with 40' container - 200mm operating clearance (6)	Ast40	in	mm	576		14,620		576		14,620		605		15,370		
4-34-9	Aisle width with 40' container - 10% operating clearance (6)	Ast40	in	mm	624		15,862		624		15,862		657		16,687		
4-35	Outside turning radius	Wa	in	mm	366		9,300		366		9,300		419		10,650		
4-36	Internal turning radius	b13	in	mm	94		2,400		94		2,400		117		2,975		
PERFORMANCE	POWERTRAIN 1				X12 Tier 4 355hp (265kW) - TE30				X12 Tier 4 355hp (265kW) - TE30				X12 Tier 4 355hp (265kW) - TE30				
	5-1	Travel speed, with/without load		mph	km/h	12.4	20	14.3	23	12.4	20	14.3	23	12.4	20	14.3	23
	5-2	Lifting speed, with/without load		ft/ min	m/s	55	0.28	94	0.48	55	0.28	94	0.48	55	0.28	94	0.48
	5-3	Lowering speed, with/without load		ft/ min	m/s	91	0.46	89	0.45	91	0.46	89	0.45	91	0.46	89	0.45
	5-7	Gradeability - 1 mph (1.6 km/h), with/without load (5)		%		22		35		21		34		21		34	
	POWERTRAIN 2				X12 Tier 3 350hp (261kW) - TE30				X12 Tier 3 350hp (261kW) - TE30				X12 Tier 3 350hp (261kW) - TE30				
	5-1	Travel speed, with/without load		mph	km/h	12.4	20	14.3	23	12.4	20	14.3	23	12.4	20	14.3	23
	5-2	Lifting speed, with/without load		ft/ min	m/s	55	0.28	94	0.48	55	0.28	94	0.48	55	0.28	94	0.48
	5-3	Lowering speed, with/without load		ft/ min	m/s	91	0.46	89	0.45	91	0.46	89	0.45	91	0.46	89	0.45
	5-7	Gradeability - 1 mph (1.6 km/h), with/without load (5)		%		22		35		21		34		21		34	

					Powertrain #1		Powertrain #2	
ENGINE	1-3	Power type			Diesel		Diesel	
	7-1	Engine manufacturer/model			Cummins X12		Cummins X12	
	7-1a	EPA Tier Compliance			Tier 4F/Stage V		Tier 3/Stage III	
	7-2	Engine power output - rated	hp	kW	355@2000	265@2000	350@2000	261@2000
	7-2-1	Engine power output - peak	hp	kW	380@1700	283@1700	370@1800	276@1800
	7-3-1	Engine torque @rpm (1/min)	lb-ft	N-m	1373@1400	1862@1400	1235@1400	1674@1400
	7-4	Number of cylinders/displacement	#/in3	#/cm3	6/720	6/11,800	6/720	6/11,800
	x	Turbocharger		Type	Wastegate, water-cooled		Wastegate, water-cooled	
	7-8	Alternator output		Amps	120		120	
	7-9	Electrical system voltage		V	24		24	
7-10	Battery voltage, rated capacity		V / Ah	24/210		24/210		
DRIVE	8-0	Drive control/transmission		Type	Powershift transmission		Powershift transmission	
	8-1	Type of drive unit		Type	Torque converter		Torque converter	
	8-2	Transmission manufacturer/type		Type	Spicer off-highway/TE-30		Spicer off-highway/TE-30	
	8-2-1	Transmission speeds forward/backward		#	5/3		5/3	
	8-3	Wheel drive/drive axle manufacturer/type		Type	Kessler/D102		Kessler/D102	
	8-11	Service brake		Type	Oil-immersed disc		Oil-immersed disc	
8-12	Parking brake		Type	Dry disc on drive axle		Dry disc on drive axle		
SPREADER	9-1	Spreader manufacturer/type		Type	Elme/817		Elme/817	
	9-1-1	Pile slope, mechanical without PPS		Degrees	3		3	
	9-1-3	Pile slope, total with PPS		Degrees	6		6	
	9-3	Size of containers		ft	ISO 20'-40'		ISO 20'-40'	
	9-4	Sideshift	b8	in mm	+/- 31.5	+/- 800	+/- 31.5	+/- 800
	9-6-1	Rotation angle, without override		Degrees	+12/-12		+12/-12	
9-6-2	Rotation angle, with override		Degrees	+195/-105		+195/-105		
MISC	10-1	Operating pressure for attachments		psi bar	2,031	140	2,031	140
	10-2	Oil volume for attachments		gpm l/m	29	110	29	110
	10-3	Hydraulic tank capacity		gal l	165	625	165	625
	10-4	Fuel tank capacity		gal l	226	855	226	855
	10-4-1	DEF/AdBlue tank capacity		gal l	25	95	N/A	N/A
	10-5	Steering design		Type	Hydrostatic		Hydrostatic	
	10-6	Number of steering rotations		#	6.0		6.0	
10-7	Sound pressure level at driver's seat (6)	Lpaz		dB(A)	75		75	

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) From face of front tires. Deduct 3.9" (100 mm) when stabilizer applied
- (2) Deduct 8.3" (310 mm) for optional powered pile slope.
- (3) Full suspension seat in depressed position.
- (4) Spreader at 8.0 m high, central above front axle
- (5) Gradeability figures are provided for comparison of tractive performance but are not intended to endorse the operation of the vehicle at the stated incline.
- (6) Container carried 500mm in front of wheels (loadcenter 1720 mm)

All capacities are according to EN1459. 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. Values may vary with alternative configurations. Lift trucks illustrated may feature optional equipment.

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.

FEATURES AND OPTIONS

PERFORMANCE	STD	OPT
Cummins X12 diesel engine rated 355 hp tier 4/265 kW stage V*	x	
Cummins X12 diesel engine rated 350 hp tier 3/261 kW stage IIIA*	x	
Tier 4/stage IV compliant	x	
Tier 3/stage IIIA compliant	x	
Wastegate 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	
Spicer off-highway TE-30 5-speed auto-shifting transmission	x	
Kessler D102 drive axle with wet disc brakes	x	
DRIVE	STD	OPT
Travel speed limiter - unconditional and customer adjustable	x	
Travel speed limiter when twistlocks closed	x	
18.00-25 40PR pneumatic bias ply drive and steer tires*	x	
18.00-33 36PR pneumatic bias ply drive and steer tires*	x	
18.00-R25 pneumatic radial drive and steer tires		x
18.00-R33 pneumatic radial drive and steer tires		x
18.00-R25 pneumatic radial slick drive and steer tires		x
18.00-R33 pneumatic radial slick 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	
2-stage boom for 5-high 1st row stacking	x	
2-stage boom for 6-high 1st row stacking		x
Load moment indicator (integrated in digital operator display)	x	
High speed hoist system - below 10 tons	x	
Hydraulic system temperature protection with performance de-rate		x
Container weighing system SOLAS compliant		x

HANDLING	STD	OPT
CANBus spreader, Hyster model 817 with rotation	x	
Mechanical pile slope	x	
Powered pile slope		x
Dampening cylinders	x	
Powered dampening cylinders		x
Wide twistlock position (WTP) container handling spreader		x
Attachments for steel load handling		x
Attachments for wind industry load handling		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" (506 mm) inward from center of spreader end beam		x
Rotation stops with override	x	
Automatic one-touch extend/retract (20'/40') for spreader		x
Stops for 30' containers		x
Vertical lift		x
Stops for 20-40' containers		x
ERGONOMICS	STD	OPT
Powered full-sliding cabin, including mirrors, front rail, right side stairway and handrails		x
Powered partial-sliding cabin, including additional mirrors on top of fenders		x
Manual sliding cabin for service access	x	
Enclosed operator cabin	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

ERGONOMICS (continued)	STD	OPT
Floor mat	x	
Interior dome light	x	
Front, top and rear wipers	x	
7" Integrated Performance Display	x	
TouchPoint mini levers hydraulic control integrated in control arm	x	
Joystick hydraulic control integrated in control arm		x
Steering wheel with spinner knob	x	
Directional control lever on steering column	x	
Hyster MONOTROL® pedal directional control		x
Directional control switch (integrated into control arm)		x
Directional control on joystick		x
Park brake - manual	x	
Park brake - automatically applied		x
Interior wide angle mirrors	x	
Heater with adjustable speed fan		x
Telescoping & tilting steering column	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 and automatic climate control		x
Reading light		x
Sun shades on top and rear (standard with air conditioning and automatic climate control)		x
Sun visors front window		x
Cloth trainer seat with 2-point seatbelt		x
Recirculation fan (enclosed operator cabin)	x	
Accessory mounting bracket on cab front right pillar		x
Document holder on cab front right pillar		x
Heated top and/or rear window		x
Radio preparation with 2 speakers and antenna		x
VISIBILITY	STD	OPT
Steel bars on top of cab (open operator compartment)	x	
Top window with armored glass (enclosed operator cabin)	x	
Steel bars under armored glass top window (enclosed operator cabin)		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
Two halogen head lights mounted on front fenders	x	
Two LED head lights mounted on front fenders		x
Two mast mounted work lights	x	

VISIBILITY (continued)	STD	OPT
Four cabin mounted work lights		x
Two rearward work lights mounted on the cabin	x	
LED stop/tail/brake lights	x	
Turn signals, hazard & marker lights (LED)		x
OPERATION	STD	OPT
Air horn 112 dBA		x
Electric horn 105 dBA	x	
Visible alarm – amber strobe light, keyswitch activated	x	
Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting	x	
Forward motion alarm		x
Seatbelt interlock for engine start and truck operation		x
Air conditioning shut-off with open door		x
Automatic engine shutdown with timer		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 replaced by electric circuit breakers		x
Non-lockable fuel cap	x	
Lockable fuel cap		x
Fuel strainer in fuel filler neck		x
Hyster Tracker™ wireless asset management - access / verification		x
Hyster Tracker™ wireless asset management - monitoring	x	
Auto greasing for base truck and outer boom		x
Auto greasing for spreader and inner boom		x
24-volt electrical system	x	
Engine block heater 110 or 240-volt		x
Steer wheel lug nut protection	x	
Front and rear mud guards		x
Lifting eyes - 2 front and 2 rear		x
APPEARANCE	STD	OPT
Hyster yellow paint base truck	x	
Special paint base truck		x
SUPPLEMENTAL	STD	OPT
Literature package	x	
Operator manual	x	
CE certification*		x
Warranty: 12 months/2,000 hours parts & labor manufacturer's warranty*	x	

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



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