STRONG PARTNERS.
TOUGH TRUCKS.™

RS46 SERIES TECHNICAL GUIDE

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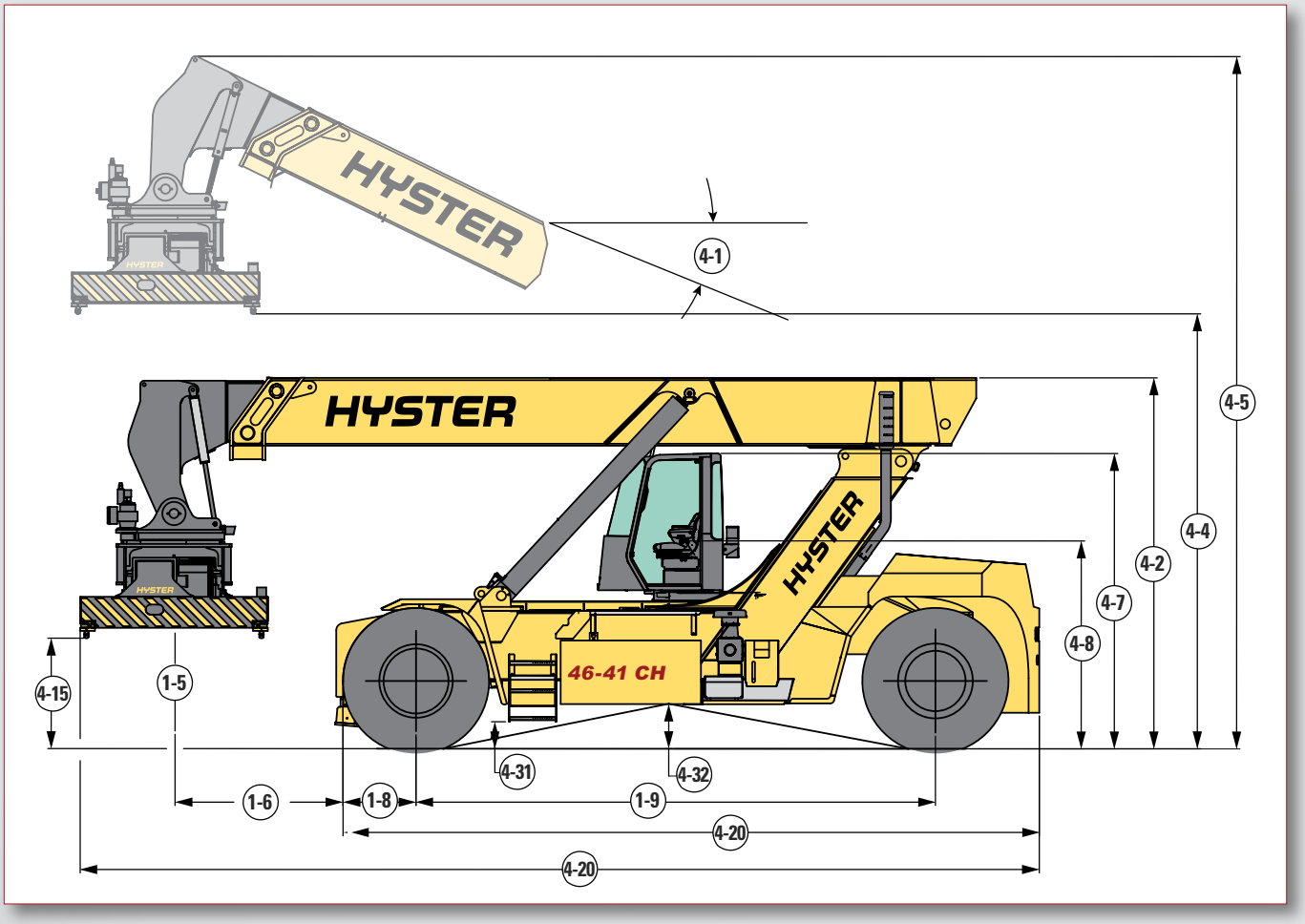
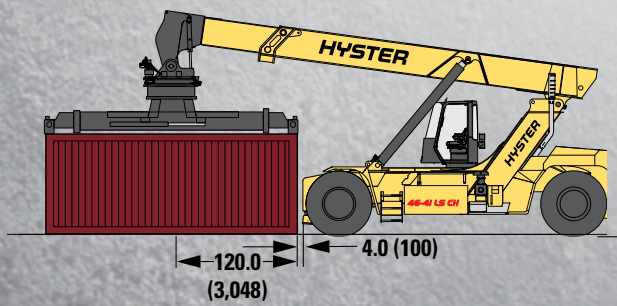
DIMENSIONS

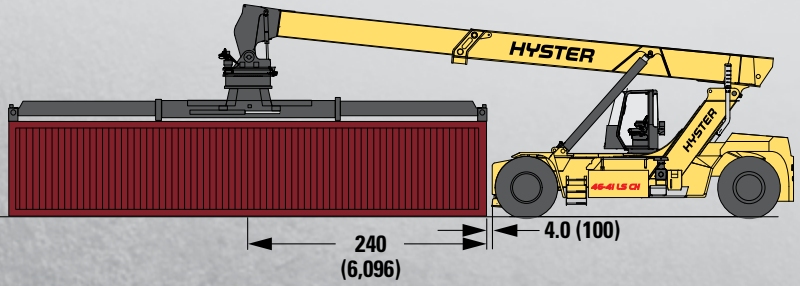


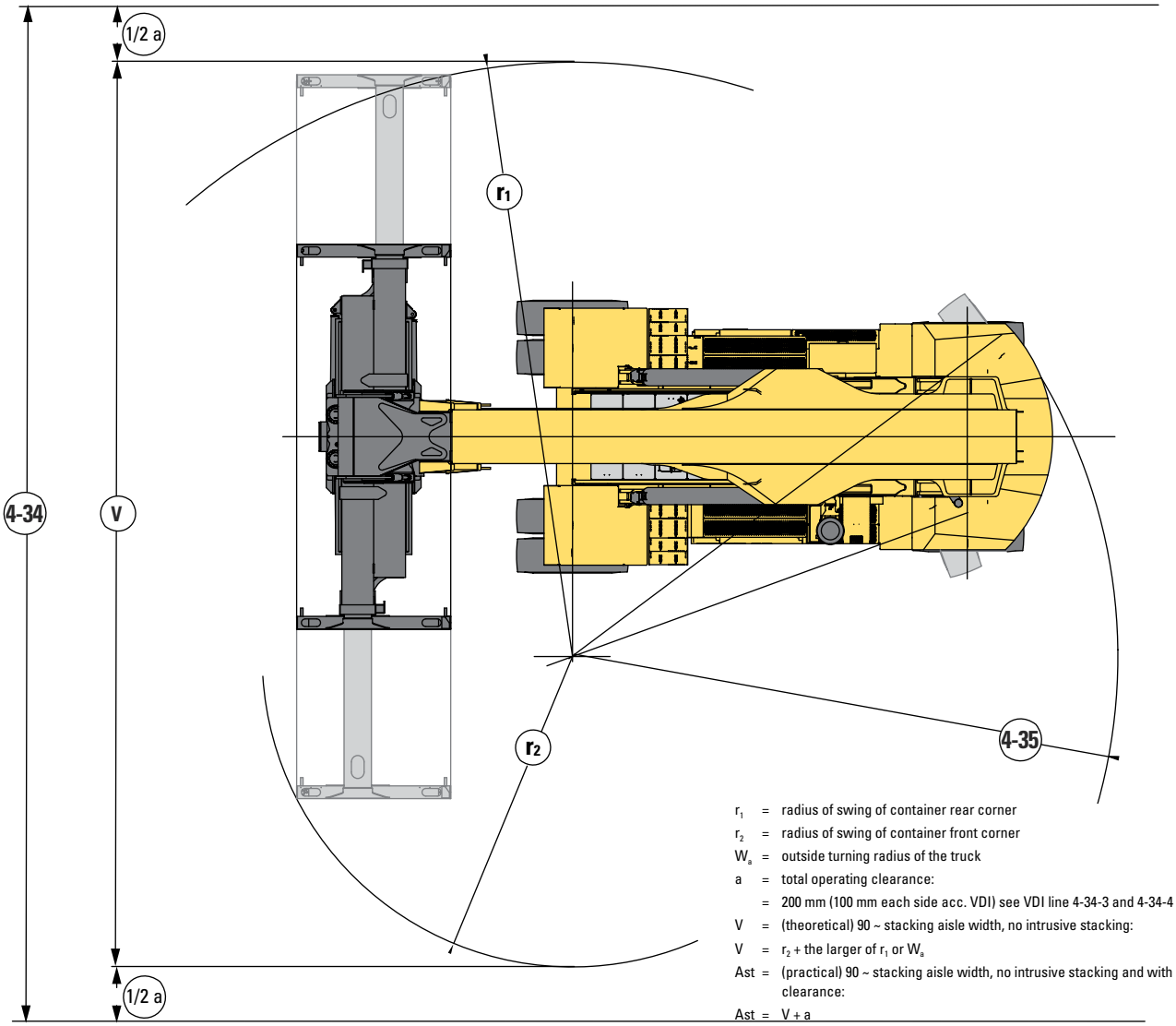
MAXIMUM CAPACITY CONTAINER PICKING END TO END				
MODEL	20′		40′	
	lb	kg	lb	kg
RS46-29	71,000	32,000	31,000	14,000
RS46-33	77,000	35,000	35,000	16,000
RS46-36	93,000	42,000	44,000	20,000
RS46-41S	99,000	44,900	58,000	26,300
RS46-41L	99,000	44,900	58,000	26,300
RS46-41LS	99,000	44,900	58,000	26,300
RS46-41XLS	99,000	44,900	61,000	27,500

20'-0 END ON LIFTING CAPACITIES

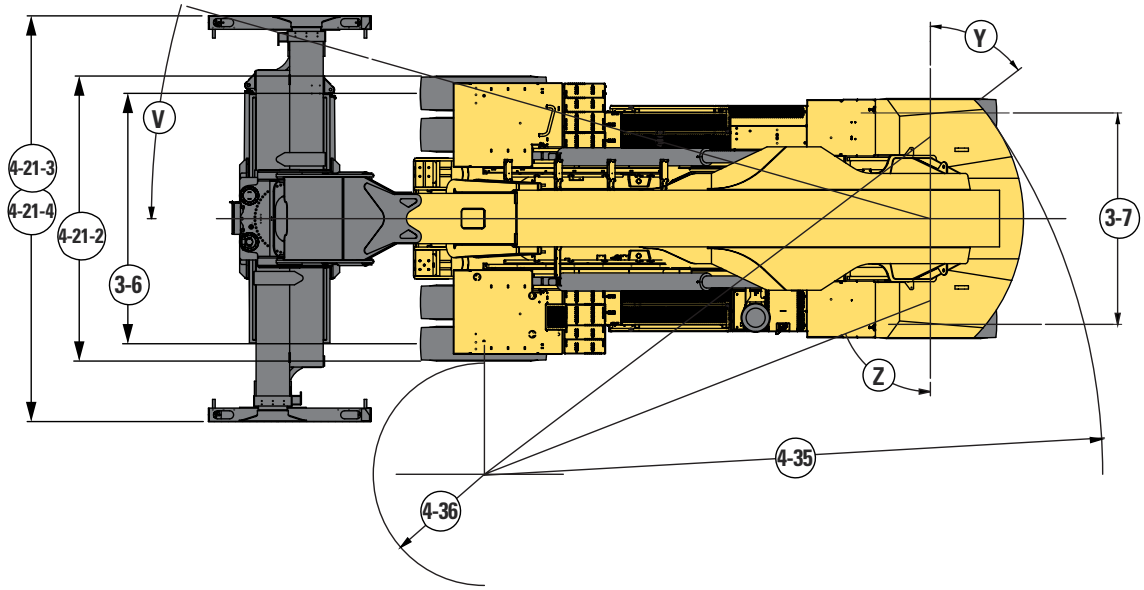


40'-0 END ON LIFTING CAPACITIES





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

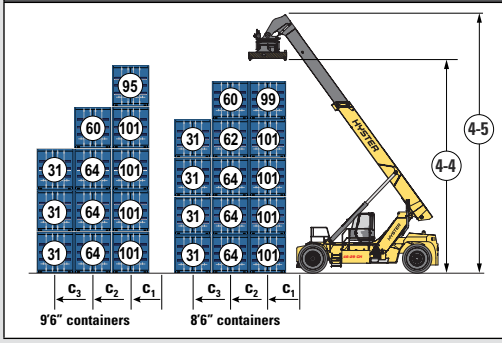


RATED CAPACITIES AND STACKING HEIGHTS

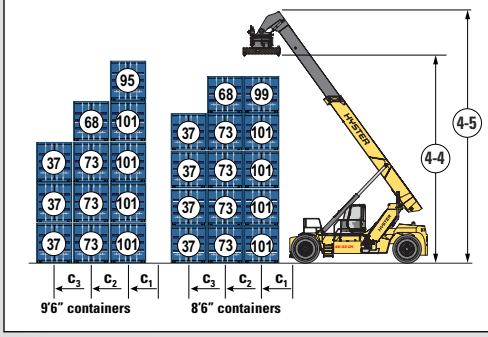
(shown in 1,000 lbs.)

MECHANICAL PILE SLOPE

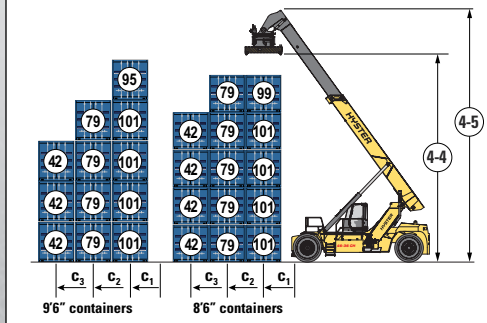
RS 46-29 CH CONTAINER SPREADER



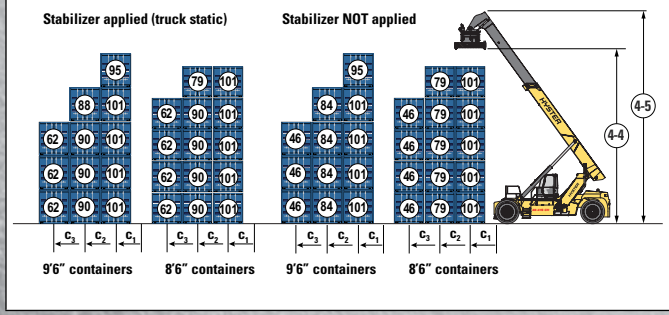
RS 46-33 CH CONTAINER SPREADER



RS 46-36 CH CONTAINER SPREADER

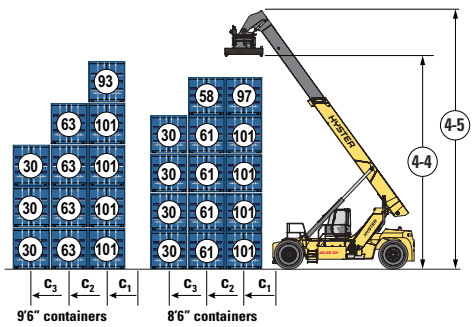


RS 46-41S CH CONTAINER SPREADER

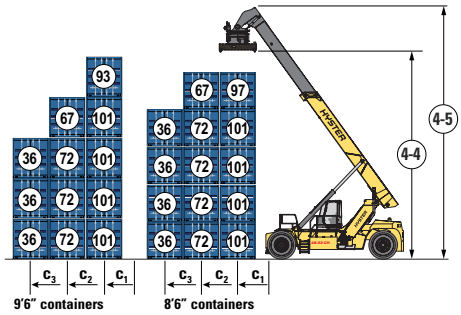


POWERED PILE SLOPE

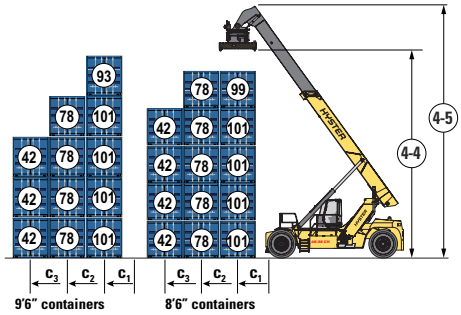
RS 46-29 CH CONTAINER SPREADER



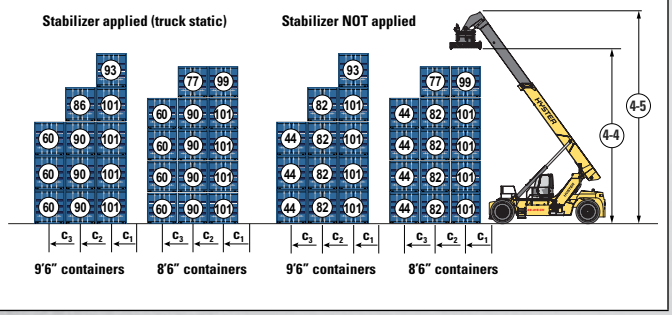
RS 46-33 CH CONTAINER SPREADER



RS 46-36 CH CONTAINER SPREADER



RS 46-41S CH CONTAINER SPREADER



c_1	c_2	c_3
73"	150"	249"
1865mm	3815mm	6315mm

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

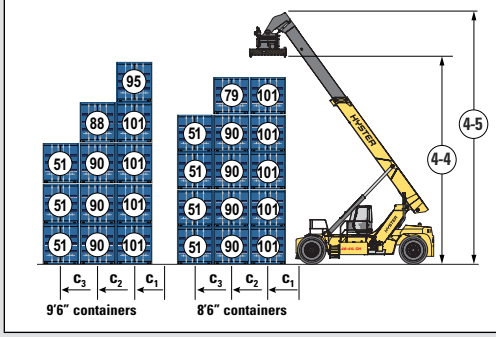
RATED CAPACITIES AND STACKING HEIGHTS

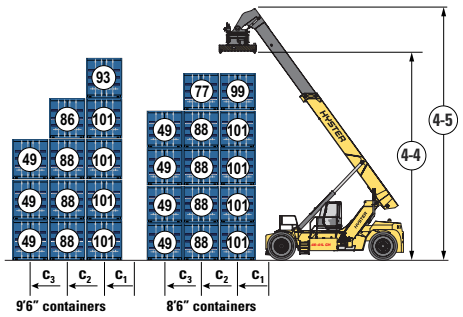
(shown in 1,000 lbs.)

MECHANICAL PILE SLOPE

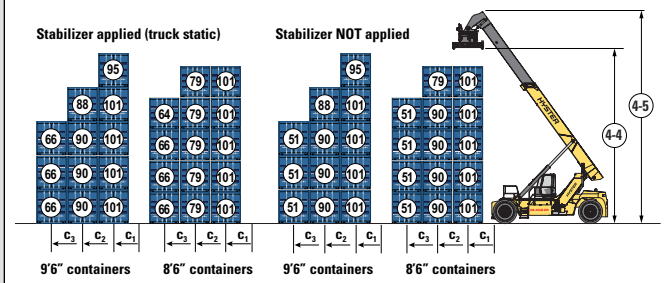
POWERED PILE SLOPE

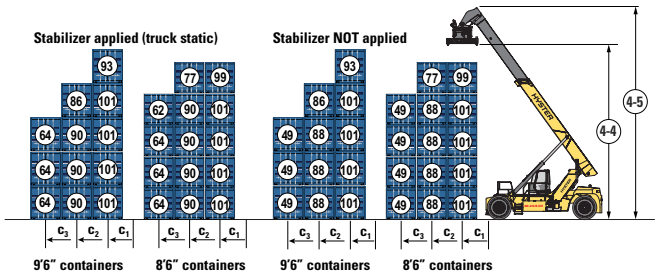
RS 46-41L CH CONTAINER SPREADER



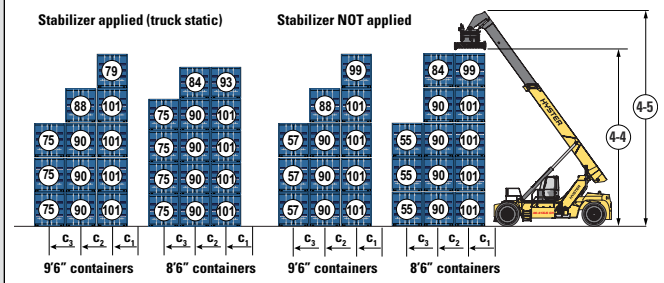


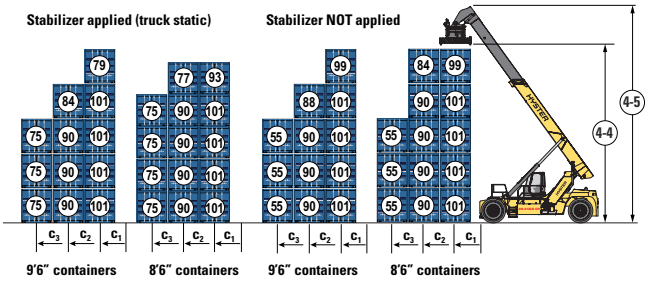
RS 46-41LS CH CONTAINER SPREADER



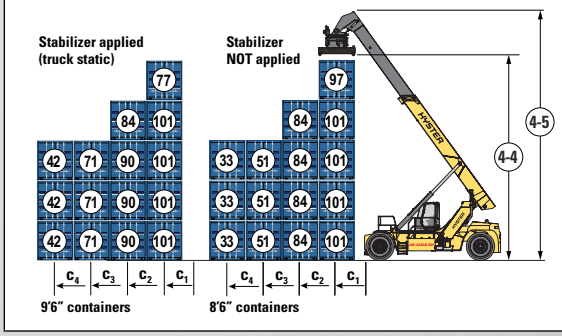


RS 46-41XLS CH CONTAINER SPREADER

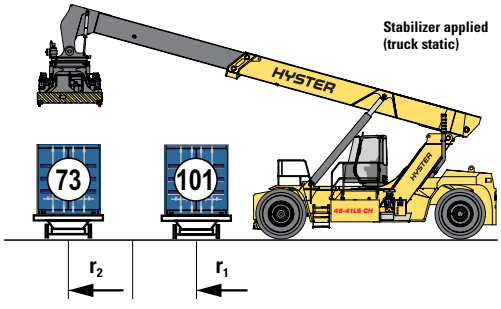




RS 46-41XLS CH CONTAINER SPREADER (WTP WITH POWERED PILE SLOPE)



HANDLING IN SECOND RAIL (MECHANICAL PILE SLOPE)



c_1	c_2	c_3	c_4
73"	150"	249"	344"
1865mm	3815mm	6315mm	8750mm

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.

r_1	r_2
73"	252"
1865mm	6400mm

RS46-29 / RS46-33 / RS46-36 SPECIFICATIONS

GENERAL	1-1	Manufacturer				HYSTER				HYSTER				HYSTER					
	1-2	Model designation				RS46-29 CH				RS46-33 CH				RS46-36 CH					
	1-3	Powertrain / drivetrain				Diesel				Diesel				Diesel					
	1-4	Operator type				Seated				Seated				Seated					
	1-5-1	Load capacity at load center distance c_1 without/with stabilizer **(1)**	Q_1	lbs	kg	101,413	46,000	n/a	n/a	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 c_2 without/with stabilizer **(1)**	Q_2	lbs	kg	63,934	29,000	n/a	n/a	72,753	33,000	n/a	n/a	79,366	36,000	n/a	n/a		
	1-5-3	Load capacity at load center distance c_3 without/with stabilizer **(1)**	Q_3	lbs	kg	30,865	14,000	n/a	n/a	37,479	17,000	n/a	n/a	41,888	19,000	n/a	n/a		
	1-6-1	Load center distance c_1 **(2)**	c_1	in	mm	73		1,865		73		1,865		73		1,865			
	1-6-2	Load center distance c_2 **(2)**	c_2	in	mm	150		3,815		150		3,815		150		3,815			
	1-6-3	Load center distance c_3 **(2)**	c_3	in	mm	249		6,315		249		6,315		249		6,315			
	1-8	Load distance, ctr 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	37	930	n/a	n/a		
	1-9	Wheelbase	y	in	mm	244		6,200		244		6,200		244		6,200			
	1-10	Stacking height at first row (number x container height)		#	#	5 x 9' 6"				5 x 9' 6"				5 x 9' 6"					
WT.	2-1	Service weight		lbs	kg	151,017		68,500		159,174		72,200		174,827		79,300			
	2-2-1	Axle loading with load, front / rear at c_1		lbs	kg	223,439	101,350	28,991	13,150	222,887	101,100	37,699	17,100	227,517	103,200	48,722	22,100		
	2-3-1	Axle loading without load, front / rear at c_1		lbs	kg	77,823	35,300	73,193	33,200	77,162	35,000	82,012	37,200	80,469	36,500	94,358	42,800		
WHEELS	3-1	Tire type				Pneumatic				Pneumatic				Pneumatic					
	3-2	Tire size, front				18.00-25 40PR				18.00-25 40PR				18.00-33 36PR					
	3-3	Tire size, rear				18.00-25 40PR				18.00-25 40PR				18.00-33 36PR					
		Wheels, number front / rear (X = driven wheels)				x4 / 2				x4 / 2				x4 / 2					
	3-6	Tread, front	b_{10}	in	mm	146		3,703		146		3,703		146		3,703			
	3-7	Tread, rear	b_{11}	in	mm	120		3,060		120		3,060		120		3,060			
DIMENSIONS	4-1	Boom angle minimum / maximum		deg	deg	0 / 59				0 / 59				0 / 59					
	4-2	Height of boom lowered	h_1	in	mm	185		4,700		185		4,700		189		4,795			
	4-4-1	Lift height at load center c_1 **(3)**	$h_{3.1}$	in	mm	601		15,260		601		15,260		605		15,355			
	4-4-2	Lift height at load center c_2 **(3)**	$h_{3.2}$	in	mm	545		13,850		545		13,850		549		13,945			
	4-5	Height, boom extended	h_4	in	mm	713		18,110		713		18,110		717		18,205			
	4-7	Height of overhead guard (cabin)	h_6	in	mm	146		3,720		146		3,720		150		3,815			
	4-8	Seat height to SIP **(4)**	h_7	in	mm	101		2,555		101		2,555		104		2,650			
	4-15	Height under Twistlock - lowered **(3)**	h_{13}	in	mm	53		1,345		53		1,345		57		1,440			
	4-19	Overall length	l_1	in	mm	329		8,360		329		8,360		341		8,650			
	4-20	Overall length including boom retracted	l_2	in	mm	467		11,873		467		11,873		475		12,073			
	4-21-2	Overall width across all of truck	b_2	in	mm	165		4,200		165		4,200		165		4,200			
	4-21-3	Overall width across spreader 20'	$b_{1.20}$	in	mm	240		6,100		240		6,100		240		6,100			
	4-21-4	Overall width across spreader 40'	$b_{1.40}$	in	mm	480		12,200		480		12,200		480		12,200			
	4-31	Ground clearance, lowest point	m_1	in	mm	11		285		11		285		12		304			
	4-32	Ground clearance, center or wheelbase	m_2	in	mm	17		437		17		437		21		532			
	4-34-3	Aisle width: 20' container **(5)**	Ast_{20}	in	mm	498		12,639		498		12,639		525		13,330			
	4-34-4	Aisle width: 40' container **(5)**	Ast_{40}	in	mm	567		14,403		567		14,403		576		14,620			
	4-35	Outside turning radius	W_a	in	mm	331		8,420		331		8,420		362		9,200			
	4-36	Internal turning radius	b_{13}	in	mm	59		1,500		59		1,500		79		2,000			
PERFORMANCE		**PERFORMANCE**	**CUMMINS QSL9 TIER 4F ENGINE - TE 32**																
	5-1	Travel speed with / without load		mph	km/h	12.4	20	13.7	22	12.4	20	13.7	22	13.0	21	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 **(6)**		%	%	26	26	35	35	25	25	35	35	23	23	33	33		
		PERFORMANCE	**CUMMINS QSM11 335HP TIER 3 ENGINE - TE 32**																
	5-1	Travel speed with / without load		mph	km/h	13.0	21	14.3	23	13.0	21	14.3	23	14.3	23	16.2	26		
	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 **(6)**		%	%	26	26	35	35	25	25	35	35	25	25	33	33		
		PERFORMANCE	**QSM11 300HP TIER 3 ENGINE - TE 27**																
	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	15.5	25		
	5-2	Lifting speed with / without load		ft/min	m/s	49	0.25	94	0.48	49	0.25	94	0.48	49	0.25	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 **(6)**		%	%	22	22	36	36	22	22	36	36	19	19	34	33		

(1) Load capacities shown with mechanical pile slope (MPS) spreader. Deduction for using powered pile slope spreader is approx. 2,000 lbs. (900 kg)
(2) From face of front tires.
(3) With Mechanical Pile Slope (MPS). For optional Powered Pile Slope (PPS) function: deduct 12.2 in (310 mm).
(4) Full suspension seat in depressed position.
(5) Spreader at 315 in (8.0 m) high, central above front axle; container 0 in/mm in front of tires; includes 2 x 4 in (100 mm) clearance.
(6) Gradeability figures provided for comparison of tractive performance, but are not intended to endorse the operation of vehicle on the stated inclines.

RS46-41S / RS46-41L SPECIFICATIONS

GENERAL	1-1	Manufacturer				HYSTER				HYSTER				
	1-2	Model designation				RS46-41S CH				RS46-41L CH				
	1-3	Powertrain / drivetrain				Diesel				Diesel				
	1-4	Operator type				Seated				Seated				
	1-5-1	Load capacity at load center distance c_1 without/with stabilizer **(1)**	Q_1	lbs	kg	101,413	46,000	101,413	46,000	101,413	46,000	n/a	n/a
	1-5-2	Load capacity at load center distance c_2 without/with stabilizer **(1)**	Q_2	lbs	kg	83,776	38,000	90,390	41,000	90,390	41,000	n/a	n/a
	1-5-3	Load capacity at load center distance c_3 without/with stabilizer **(1)**	Q_3	lbs	kg	46,297	21,000	61,729	28,000	50,706	23,000	n/a	n/a
	1-6-1	Load center distance c_1 **(2)**	c_1	in	mm	73		1,865		73		1,865	
	1-6-2	Load center distance c_2 **(2)**	c_2	in	mm	150		3,815		150		3,815	
	1-6-3	Load center distance c_3 **(2)**	c_3	in	mm	249		6,315		249		6,315	
	1-8	Load distance, ctr of drive axle to face of front tires / front of stabilizer	x	in	mm	37	930	41	1,030	37	930	n/a	n/a
	1-9	Wheelbase	y	in	mm	244		6,200		264		6,700	
	1-10	Stacking height at first row (number x container height)		#	#	5 x 9' 6"				5 x 9' 6"			
WT.	2-1	Service weight		lbs	kg	184,306		83,600		182,102		82,600	
	2-2-1	Axle loading with load, front / rear at c_1		lbs	kg	232,367	105,400	53,352	24,200	227,958	103,400	55,556	25,200
	2-3-1	Axle loading without load, front / rear at c_1		lbs	kg	85,319	38,700	98,988	44,900	84,217	38,200	97,885	44,400
WHEELS	3-1	Tire 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			
		Wheels, number front / rear (X = driven wheels)				x4 / 2				x4 / 2			
	3-6	Tread, front	b_{10}	in	mm	146		3,703		146		3,703	
	3-7	Tread, rear	b_{11}	in	mm	120		3,060		120		3,060	
DIMENSIONS	4-1	Boom angle minimum / maximum		deg	deg	0 / 59				0 / 59			
	4-2	Height of boom lowered	h_1	in	mm	189		4,795		189		4,795	
	4-4-1	Lift height at load center c_1 **(3)**	$h_{3.1}$	in	mm	605		15,355		605		15,355	
	4-4-2	Lift height at load center c_2 **(3)**	$h_{3.2}$	in	mm	549		13,945		549		13,945	
	4-5	Height, boom extended	h_4	in	mm	717		18,205		717		18,205	
	4-7	Height of overhead guard (cabin)	h_6	in	mm	150		3,815		150		3,815	
	4-8	Seat height to SIP **(4)**	h_7	in	mm	104		2,650		104		2,650	
	4-15	Height under Twistlock - lowered **(3)**	h_{13}	in	mm	57		1,440		57		1,440	
	4-19	Overall length	l_1	in	mm	344		8,750		360		9,150	
	4-20	Overall length including boom retracted	l_2	in	mm	475		12,073		475		12,073	
	4-21-2	Overall width across all of truck	b_2	in	mm	165		4,200		165		4,200	
	4-21-3	Overall width across spreader 20'	$b_{1.20}$	in	mm	240		6,100		240		6,100	
	4-21-4	Overall width across spreader 40'	$b_{1.40}$	in	mm	480		12,200		480		12,200	
	4-31	Ground clearance, lowest point	m_1	in	mm	10		250		12		304	
	4-32	Ground clearance, center or wheelbase	m_2	in	mm	21		532		21		532	
	4-34-3	Aisle width: 20' container **(5)**	Ast_{20}	in	mm	525		13,330		529		13,430	
	4-34-4	Aisle width: 40' container **(5)**	Ast_{40}	in	mm	576		14,620		576		14,620	
	4-35	Outside turning radius	W_a	in	mm	362		9,200		366		9,300	
	4-36	Internal turning radius	b_{13}	in	mm	79		2,000		94		2,400	
PERFORMANCE		**PERFORMANCE**				**CUMMINS QSL9 TIER 4F ENGINE - TE 32**							
	5-1	Travel speed with / without load		mph	km/h	13.0	21	14.3	23	13.0	21	14.3	23
	5-2	Lifting speed with / without load		ft/min	m/s	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 **(6)**		%	%	21	21	32	32	21	21	32	32
		PERFORMANCE				**CUMMINS QSM11 335HP TIER 3 ENGINE - TE 32**							
	5-1	Travel speed with / without load		mph	km/h	12.4	20	14.9	24	12.4	20	14.9	24
	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 **(6)**		%	%	21	21	32	32	21	21	32	32
		PERFORMANCE				**QSM11 300HP TIER 3 ENGINE - TE 27**							
	5-1	Travel speed with / without load		mph	km/h	11.8	19	13.7	22	11.8	19	13.7	22
	5-2	Lifting speed with / without load		ft/min	m/s	49	0.25	94	0.48	49	0.25	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 **(6)**		%	%	18	18	32	32	18	18	32	32

(1) Load capacities shown with mechanical pile slope (MPS) spreader. Deduction for using powered pile slope spreader is approx. 2,000 lbs. (900 kg)
(2) From face of front tires.
(3) With Mechanical Pile Slope (MPS). For optional Powered Pile Slope (PPS) function: deduct 12.2 in (310 mm).
(4) Full suspension seat in depressed position.
(5) Spreader at 315 in (8.0 m) high, central above front axle; container 0 in/mm in front of tires; includes 2 x 4 in (100 mm) clearance.
(6) Gradeability figures provided for comparison of tractive performance, but are not intended to endorse the operation of vehicle on the stated inclines.

RS46-41LS / RS46-41XLS SPECIFICATIONS

GENERAL	1-1	Manufacturer				HYSTER				HYSTER				
	1-2	Model designation				RS46-41LS CH				RS46-41XLS CH				
	1-3	Powertrain / drivetrain				Diesel				Diesel				
	1-4	Operator type				Seated				Seated				
	1-5-1	Load capacity at load center distance c_1 without/with stabilizer	Q_1	lbs	kg	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 c_2 without/with stabilizer	Q_2	lbs	kg	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 c_3 without/with stabilizer	Q_3	lbs	kg	50,706	23,000	66,139	30,000	57,320	26,000	74,957	34,000
	1-6-1	Load center distance c_1 **(2)**	c_1	in	mm	73		1,865		73		1,865	
	1-6-2	Load center distance c_2 **(2)**	c_2	in	mm	150		3,815		150		3,815	
	1-6-3	Load center distance c_3 **(2)**	c_3	in	mm	249		6,315		249		6,315	
	1-8	Load distance, ctr of drive axle to face of front tires / front of stabilizer	x	in	mm	37	930	41	1,030	37	930	41	1,030
	1-9	Wheelbase	y	in	mm	264		6,700		295		7,500	
	1-10	Stacking height at first row (number x container height)		#	#	5 x 9' 6"				5 x 9' 6"			
WT.	2-1	Service weight		lbs	kg	186,511		84,600		186,621		84,650	
	2-2-1	Axle loading with load, front / rear at c_1		lbs	kg	232,808	105,600	55,116	25,000	227,848	103,350	60,186	27,300
	2-3-1	Axle loading without load, front / rear at c_1		lbs	kg	89,067	40,400	97,444	44,200	91,051	41,300	95,570	43,350
WHEELS	3-1	Tire 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			
		Wheels, number front / rear (X = driven wheels)				x4 / 2				x4 / 2			
	3-6	Tread, front	b_{10}	in	mm	146		3,703		146		3,703	
	3-7	Tread, rear	b_{11}	in	mm	120		3,060		120		3,060	
DIMENSIONS	4-1	Boom angle minimum / maximum		deg	deg	0 / 59				3 / 58			
	4-2	Height of boom lowered	h_1	in	mm	189		4,795		215		5,457	
	4-4-1	Lift height at load center c_1 **(2)**	$h_{3.1}$	in	mm	605		15,355		599		15,225	
	4-4-2	Lift height at load center c_2 **(2)**	$h_{3.2}$	in	mm	549		13,945		557		14,158	
	4-5	Height, boom extended	h_4	in	mm	717		18,205		725		18,420	
	4-7	Height of overhead guard (cabin)	h_6	in	mm	150		3,815		150		3,815	
	4-8	Seat height to SIP **(3)**	h_7	in	mm	104		2,650		104		2,650	
	4-15	Height under Twistlock - lowered **(2)**	h_{13}	in	mm	57		1,440		72		1,835	
	4-19	Overall length	l_1	in	mm	364		9,250		396		10,050	
	4-20	Overall length including boom retracted	l_2	in	mm	495		12,573		536		13,613	
	4-21-2	Overall width across all of truck	b_2	in	mm	165		4,200		165		4,200	
	4-21-3	Overall width across spreader 20'	$b_{1.20}$	in	mm	240		6,100		240		6,100	
	4-21-4	Overall width across spreader 40'	$b_{1.40}$	in	mm	480		12,200		480		12,200	
	4-31	Ground clearance, lowest point	m_1	in	mm	10		250		10		250	
	4-32	Ground clearance, center or wheelbase	m_2	in	mm	21		532		21		532	
	4-34-3	Aisle width: 20' container **(4)**	Ast_{20}	in	mm	529		13,430		582		14,780	
	4-34-4	Aisle width: 40' container **(4)**	Ast_{40}	in	mm	576		14,620		605		15,370	
	4-35	Outside turning radius	W_a	in	mm	366		9,300		419		10,650	
	4-36	Internal turning radius	b_{13}	in	mm	94		2,400		117		2,975	
PERFORMANCE		**PERFORMANCE**				**CUMMINS QSL9 TIER 4F ENGINE - TE 32**							
	5-1	Travel speed with / without load		mph	km/h	13.0	21	14.3	23	13.0	21	14.3	23
	5-2	Lifting speed with / without load		ft/min	m/s	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)**		%	%	21	21	32	32	21	21	32	32
		PERFORMANCE				**CUMMINS QSM11 335HP TIER 3 ENGINE - TE 32**							
	5-1	Travel speed with / without load		mph	km/h	12.4	20	14.9	24	12.4	20	14.9	24
	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)**		%	%	21	21	32	32	21	21	32	32
		PERFORMANCE				**QSM11 300HP TIER 3 ENGINE - TE 27**							
	5-1	Travel speed with / without load		mph	km/h	11.8	19	13.7	22	11.8	19	13.7	22
	5-2	Lifting speed with / without load		ft/min	m/s	49	0.25	94	0.48	49	0.25	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)**		%	%	18	18	32	32	18	18	32	32

(1) Load capacities shown with mechanical pile slope (MPS) spreader. Deduction for using powered pile slope spreader is approx. 2,000 lbs. (900 kg)
(2) From face of front tires.
(3) With Mechanical Pile Slope (MPS). For optional Powered Pile Slope (PPS) function: deduct 12.2 in (310 mm).
(4) Full suspension seat in depressed position.
(5) Spreader at 315 in (8.0 m) high, central above front axle; container 0 in/mm in front of tires; includes 2 x 4 in (100 mm) clearance.
(6) Gradeability figures provided for comparison of tractive performance, but are not intended to endorse the operation of vehicle on the stated inclines.

GENERAL	1-1	Manufacturer				HYSTER					
	1-2	Model designation				RS 46-29/33/36/41 CH					
	1-3	Powertrain / drivetrain				Diesel					
ENGINE	7-1	Engine manufacturer / model				CUMMINS / QSM 11		Cummins / QSM 11		Cummins / QSL9	
	7-1a	EPA / CE compliance				Tier 3 / Stage IIIA		Tier 3 / Stage IIIA		Tier 4 / Stage IV	
	7-2	Engine power output according to ISO 1585		hp	HP | kW	300	224	335	250	350	261
	7-2-1	Engine power output - Peak		hp	HP | kW	300	224	365	272	380	283
	7-3	Rated speed		rpm	1/min	2,100		2,100		2,100	
	7-3-1	Engine torque @rpm (1/min)		lb-ft	N-m	1,050 @ 1000	1,424@ 1000	1,235 @ 900	1,674 @ 900	1,200 @ 1500	1,627 @ 1500
	7-4	Number of cylinders / displacement		# / cm3		6 / 659	6 / 10,800	6 / 659	6 / 10,800	6 / 543	6 / 8,900
		Turbocharger		Type		Wastegate, water cooled		Wastegate, water cooled		Variable geometry, water cooled	
	7-8	Alternator output		Amps		120		120		120	
	7-9	Electric system voltage		V		24		24		24	
	7-10	Battery voltage, rated capacity		V / Ah		24 / 120		24 / 120		24 / 120	
DRIVE	8-1	Drive control / Transmission		Type / #		Powershift Transmission		Powershift Transmission		Powershift Transmission	
	8-2	Transmission manufacturer / type		Type / #		Spicer Off-Highway TE-27		Spicer Off-Highway TE-32		Spicer Off-Highway TE-32	
	8-4	Transmission speeds forward / backward		#		4 / 4		4 / 4		4 / 4	
	8-5	Coupling		Type		Torque Converter		Torque Converter		Torque Converter	
	8-6	Wheel drive / drive axle manufacturer / type		Type / #		Kessler D102		Kessler D102		Kessler D102	
	8-11	Service brake		Type		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	
SPREADER	9-1	Spreader manufacturer / type		Type / #		Elme / 817		Elme / 817		Elme / 817	
	9-1-1	Pile slope, mechanical without PPS		degrees		3		3		3	
	9-1-3	Pile slope, total with PPS		degrees		6		6		6	
	9-3	Size of containers		ft		ISO 20' - 40'		ISO 20' - 40'		ISO 20' - 40'	
	9-4	Side shift	b_8	in	mm	+ 31.5 / - 31.5	+ 800 / - 800	+ 31.5 / - 31.5	+ 800 / - 800	+ 31.5 / - 31.5	+ 800 / - 800
	9-6-1	Rotation angle, without override		degrees		+12 / -12		+12 / -12		+12 / -12	
	9-6-2	Rotation angle, with override		degrees		+185 / -95		+185 / -95		+185 / -95	
MISC	10-1	Operating pressure for attachments		psi	bar	2,031	140	2,031	140	2,031	140
	10-2	Oil volume for attachments		gpm	l/m	29	110	29	110	29	110
	10-3	Hydraulic tank capacity		gal	l	165	625	165	625	165	625
	10-4	Fuel tank capacity		gal	l	219	830	219	830	219	830
	10-4-1	DEF/AdBlue Tank capacity		gal	l	N/A		N/A		15	57
	10-5	Steering design				Hydrostatic		Hydrostatic		Hydrostatic	
	10-6	Number of steering rotations				6.0		6.0		6.0	
	10-7	Sound pressure level at driver's seat **(7)**	Lpaz	dB(A)		78		78		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) Load capacities shown with mechanical pile slope (MPS) spreader. Deduction for using powered pile slope spreader is approx. 2,000 lbs. (900 kg)
(2) From face of front tires.
(3) With Mechanical Pile Slope (MPS). For optional Powered Pile Slope (PPS) function: deduct 12.2 in (310 mm).
(4) Full suspension seat in depressed position.
(5) Spreader at 315 in (8.0 m) high, central above front axle; container 0 in/mm in front of tires; includes 2 x 4 in (100 mm) clearance.
(6) Gradeability figures provided for comparison of tractive performance, but are not intended to endorse the operation of vehicle on the stated inclines.
(7) Add 2 dB(A) for option with additional cab fan.

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.

CE **Safety:** This truck conforms to the current EU 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.

FEATURES AND OPTIONS

PERFORMANCE	STD	OPT
Cummins QSL 9 diesel engine rated 350 hp (271 kW) Tier 4* variable geometry turbocharger, water cooled	x	
Cummins QSM11 diesel engine rated 300 hp (224 kW) Tier 3* wastegate turbocharger, water cooled	x	
Cummins QSM11 diesel engine rated 335 hp (250 kW) Tier 3* wastegate turbocharger, water cooled		x
Hibernate idle	x	
Hydraulically driven on-demand cooling fan	x	
120 amp alternator	x	
Powertrain protection system	x	
Heavy duty air intake	x	
High mount exhaust	x	
Spicer Off-Highway TE-32 4-speed auto-shifting transmission*	x	
Spicer Off-Highway TE-27 4-speed auto-shifting transmission*	x	
Kessler D102 drive axle with wet disc brakes	x	
DRIVE	**STD**	**OPT**
Travel speed limiter - unconditional (adjustable)		x
Travel speed limiter - loaded (adjustable)	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	x
18.00-25 40PR Goodyear Pneumatic Bias Ply drive and steer tires		x
18.00-R25 Goodyear Slick Radial drive and steer tires		x
18.00-25 40PR Bridgestone STMS Slick Bias Ply drive and steer tires		x
18.00-R36 Michelin XZM Pneumatic Radial drive and steer tires		x
18.00-R36 Goodyear Pneumatic Slick Radial drive and steer tires		x
18.00-33 36PR Goodyear Pneumatic Bias Ply 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	
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" (506mm) inwards from center of spreader end beam		x
Rotation stops with override	x	
Automatic one-touch Extend/Retract (20'/40') for spreader 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**
Manual sliding cabin for service access	x	
Powered partial-sliding cabin, including additional mirrors on top of fenders		x
Powered full-sliding cabin, including rear view mirrors, front rail, right side stairway, and handrails		x
Full steel cab operator compartment	x	
Isolated mounting for low noise and vibration	x	
Operator presence system	x	
Mechanical suspension seat	x	
Deluxe air suspension seat		x
Low backrest on seat*		x
Cloth seat cover	x	
Vinyl seat cover		x
Seat heating		x
2-point high visibility seatbelt	x	
3-point high visibility seatbelt		x
Floor mat	x	
Coat hook	x	

Front, top and rear wipers	x	
"H"-pattern front wiper		x
"I"-pattern front wiper	x	
Front and rear window defrosters	x	
Left side handrails, stairway and cabin door	x	
Right side door	x	
Right side handrails and stairway		x
Left side stair lights		x
7" Color digital operator display	x	
Seat-side joystick hydraulic control	x	
Steering wheel with spinner knob	x	
Directional control lever	x	
Manual park brake	x	
Automatic park brake		x
Interior wide angle mirrors	x	
Heater with 3 speed fan	x	
Telescoping & tilting steering column	x	
DC/DC converter 24 volt/12 volt with socket*		x
Air conditioning		x
Reading light		x
Sun shades on top and rear		x
Trainer seat		x
Recirculation fan	x	
Rear locking console in cab		x
Accessory mounting post		x
Heated top window		x
Radio preparation set-up (wiring, two speakers and antenna)		x
VISIBILITY	**STD**	**OPT**
External wide angle mirrors mounted on rear of front fenders	x	
External wide angle mirrors mounted on top of front fenders		x
Rear view camera system		x
Halogen work lights	x	
High Performance LED work lights		x
LED twistlock indicator lights	x	

LED stop/tail/brake lights	x	
Turn signals, hazard & marker lights (LED)	x	
OPERATION	**STD**	**OPT**
Electric air horn 112 dBA	x	
Visible alarm – Amber strobe light	x	
Audible alarm – Reverse direction activated 82–102 dB(A), self-adjusting	x	
Forward motion alarm		x
Seatbelt interlock for engine start		x
Seatbelt indicator light on top of cab		x
Tire pressure monitoring system		x
Lockable battery disconnect switch	x	
NATO plug start aid		x
"Empty seat" engine shutdown		x
Key switch start	x	
Key switch start with seat belt interlock for engine start and operation		x
Non-lockable fuel cap	x	
Lockable fuel cap		x
Diesel fuel inlet strainer in filler neck		x
Hyster Tracker wireless asset management system	x	
Hyster Tracker wireless asset management - Access / Verification		x
Hyster Tracker wireless asset management - Monitoring		x
Auto greasing system for basic truck & outer boom		x
Auto greasing system for inner boom and spreader		x
24 volt electrical system	x	
Engine block heater 110 & 240 volt		x
Steer wheel lug nut protection	x	
Engine compartment light		x
APPEARANCE	**STD**	**OPT**
Hyster yellow paint base truck	x	
Special paint base truck		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 selected markets. Other options available through Special Products Engineering Department (SPED). Contact Hyster for details.*

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Part No. RS46CH/TG
03/2019 Litho in U.S.A.

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