



**STRONG PARTNERS.
TOUGH TRUCKS.™**

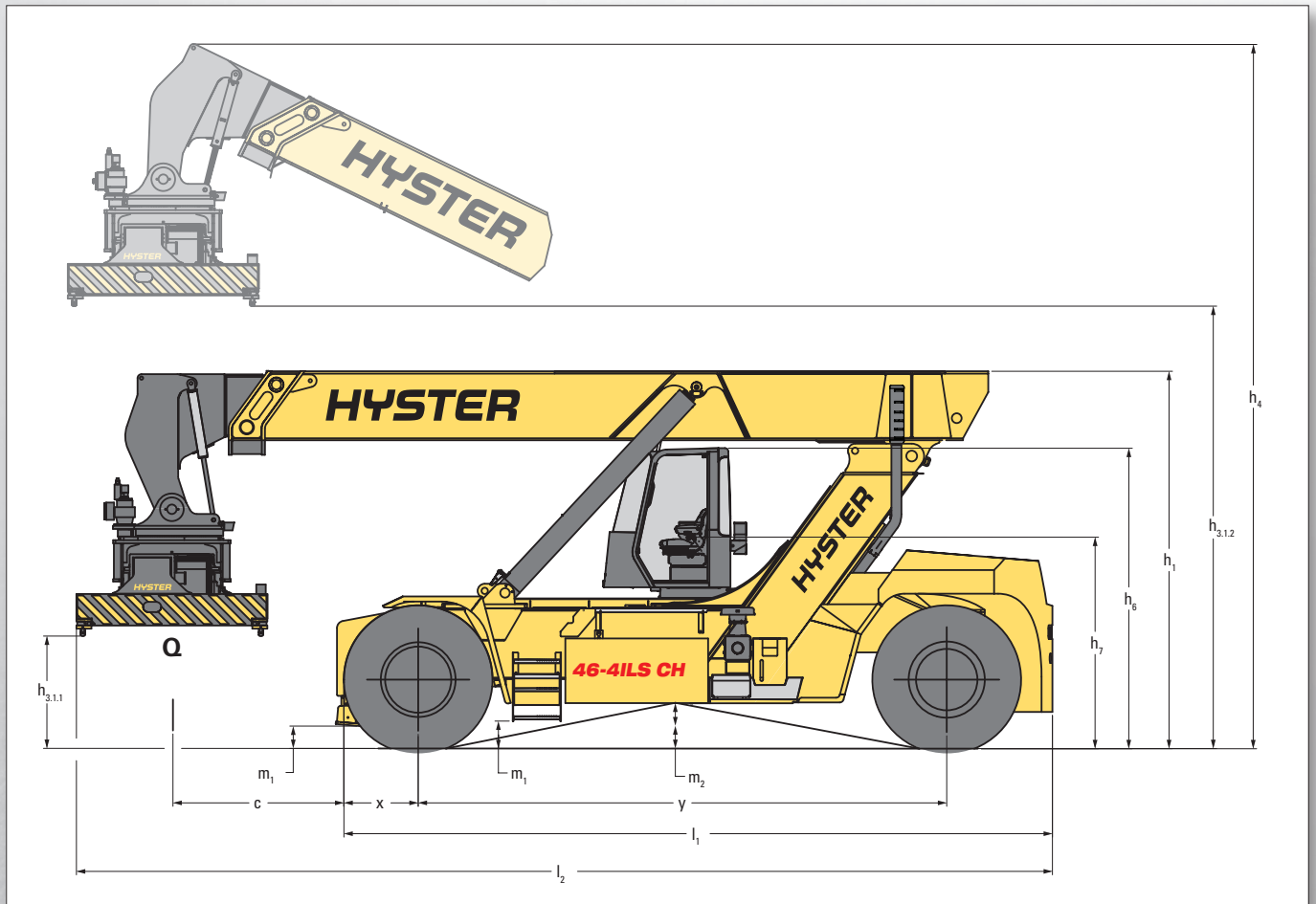


RS46 SERIES TECHNICAL GUIDE

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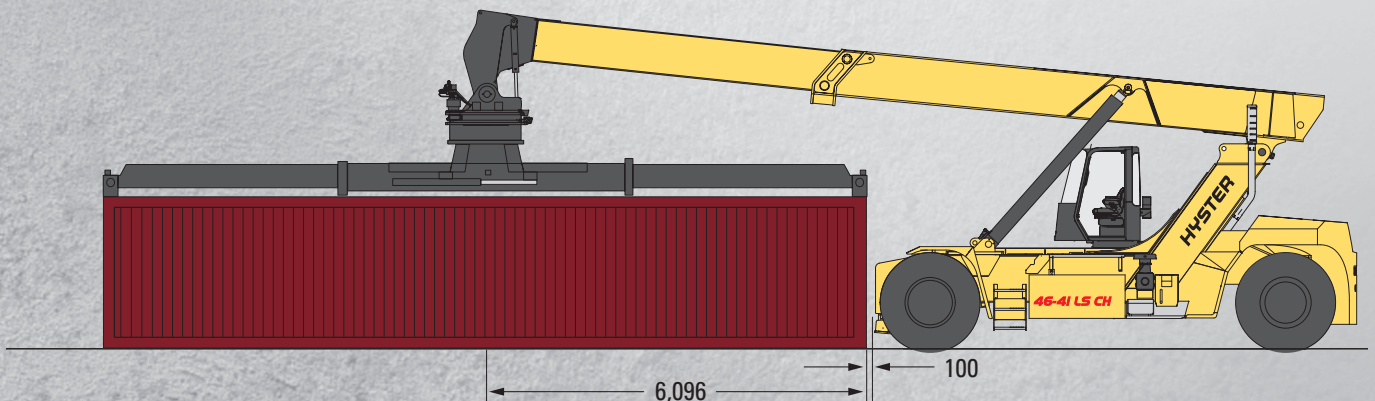
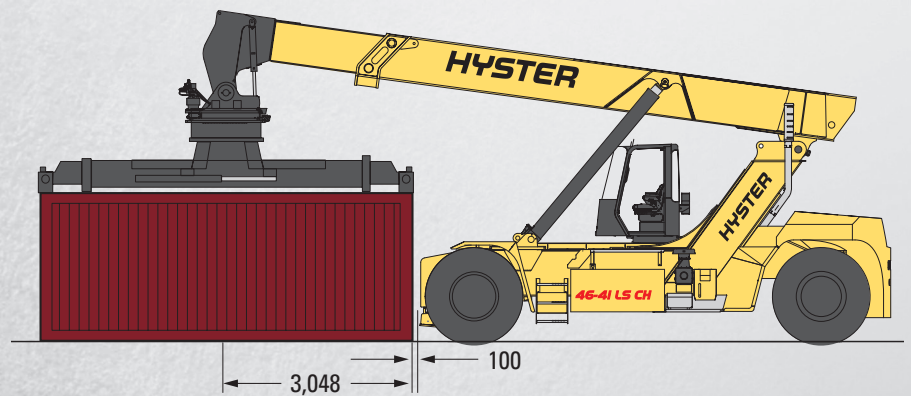


> TRUCK DIMENSIONS

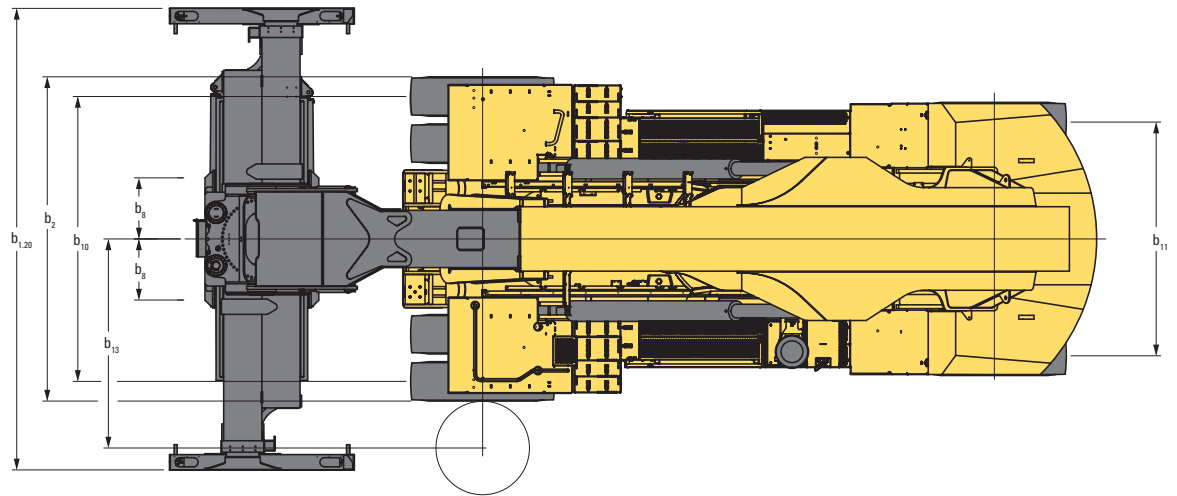
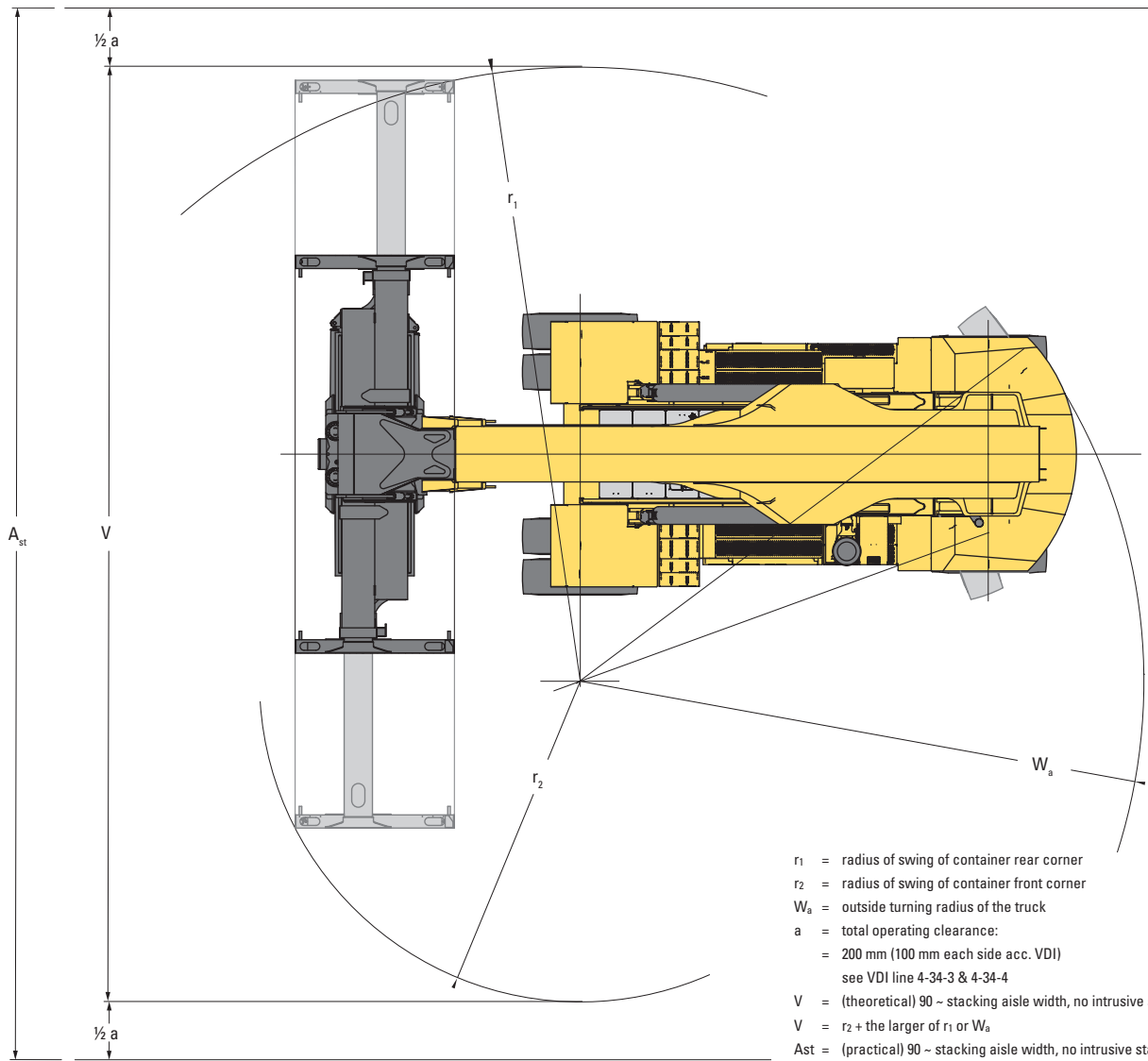


MAXIMUM CAPACITY CONTAINER PICKING END TO END

MODEL	20'	40'
	kg	kg
RS46-29	32,000	14,000
RS46-33	35,000	16,000
RS46-36	42,000	20,000
RS46-41S	44,900	26,300
RS46-41L	44,900	26,300
RS46-41LS	44,900	30,300
RS46-41XLS	44,900	30,300



TRUCK DIMENSIONS <



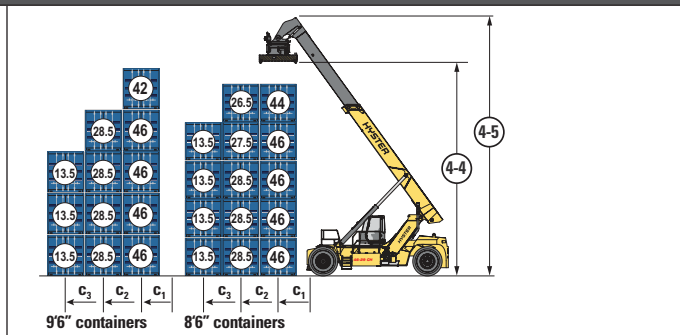
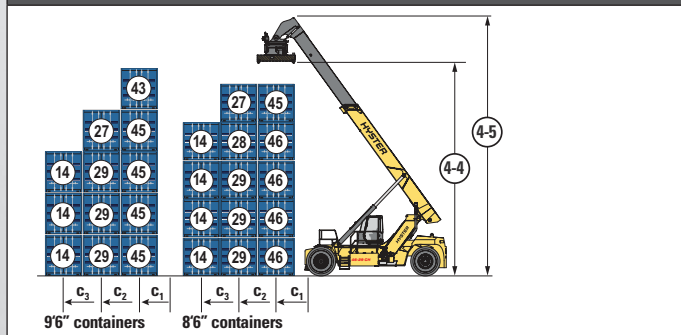
▶ RATED CAPACITIES AND STACKING HEIGHTS

(shown in 1,000 kg.)

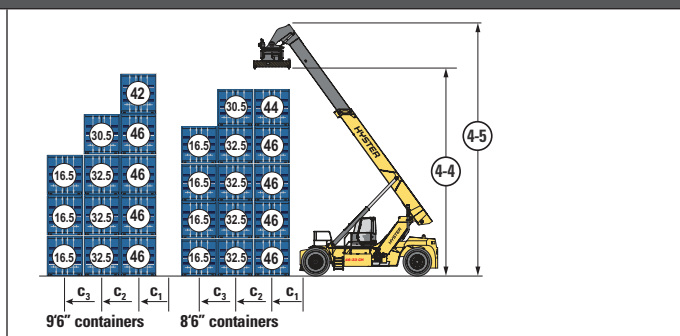
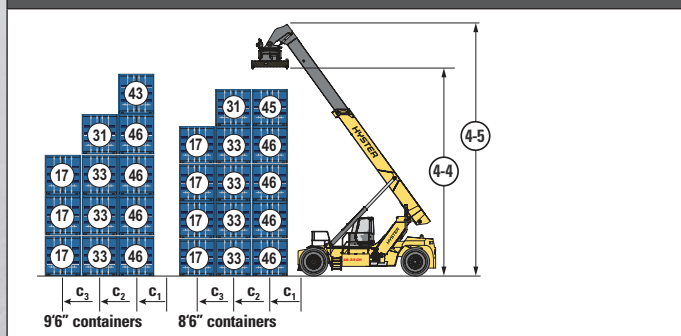
MECHANICAL PILE SLOPE

POWERED PILE SLOPE

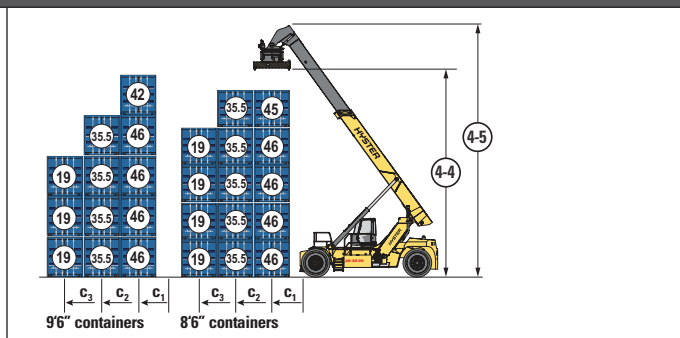
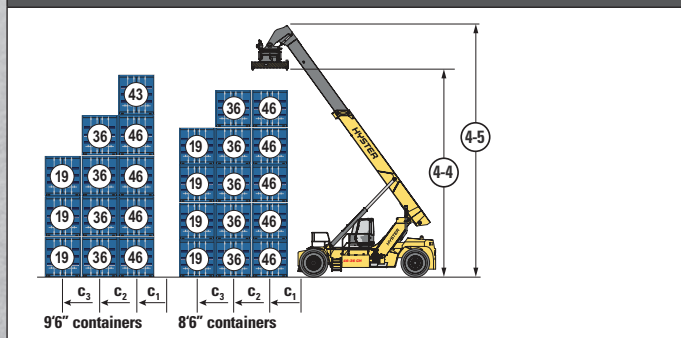
RS 46-29 CH CONTAINER SPREADER



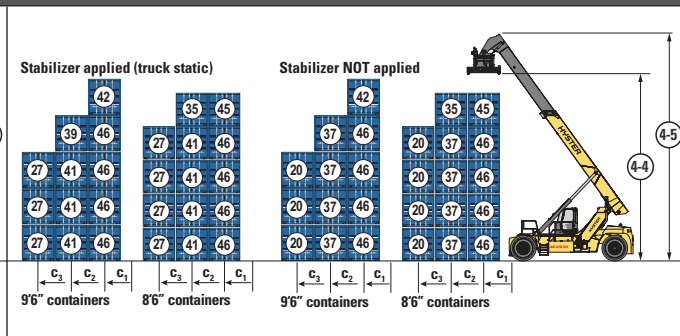
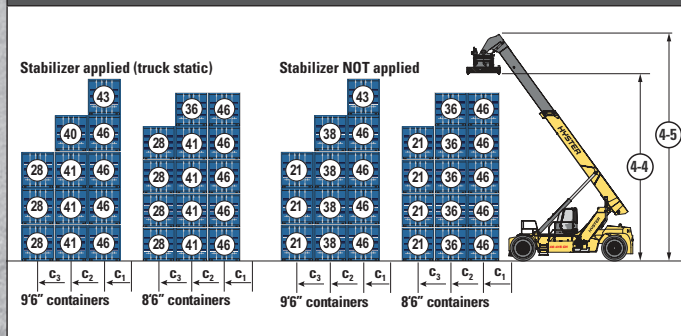
RS 46-33 CH CONTAINER SPREADER



RS 46-36 CH CONTAINER SPREADER



RS 46-41S CH CONTAINER SPREADER



c1	c2	c3
1865mm	3815mm	6315mm

Note: All load centres c1, c2, c3 are taken from the front face of the (front) Tyres, deduct 100mm for load centres taken from the front face of the stabiliser.

RATED CAPACITIES AND STACKING HEIGHTS

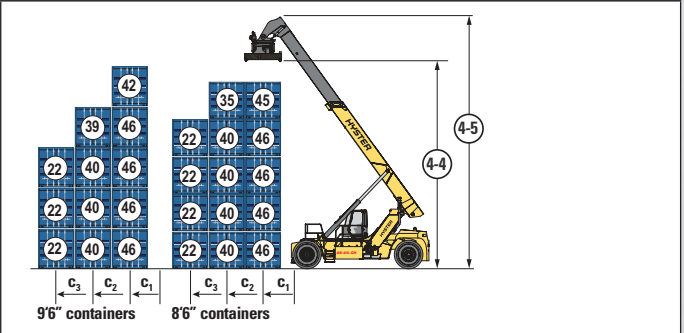
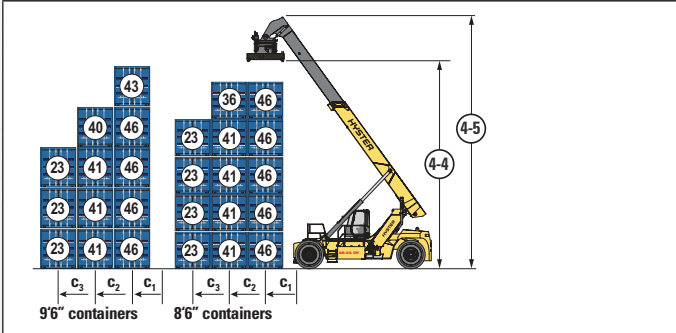
(shown in 1,000 kg.)



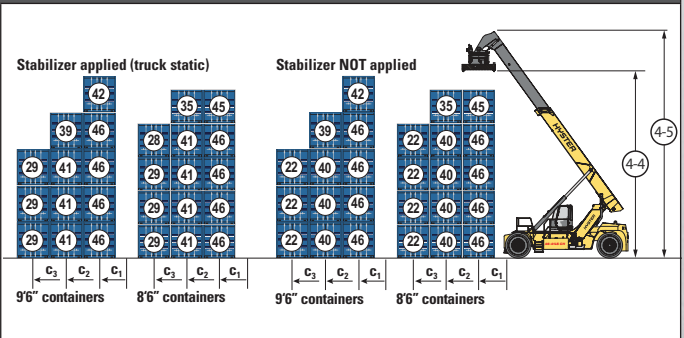
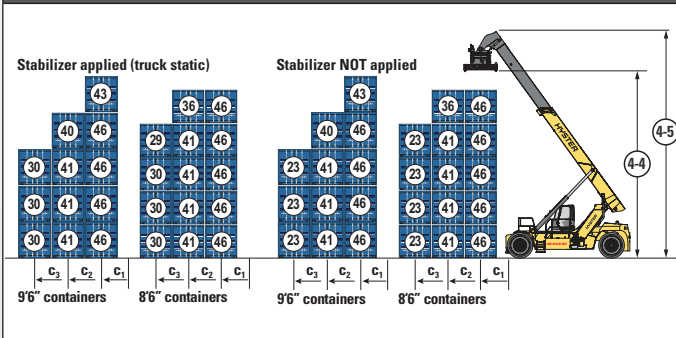
MECHANICAL PILE SLOPE

POWERED PILE SLOPE

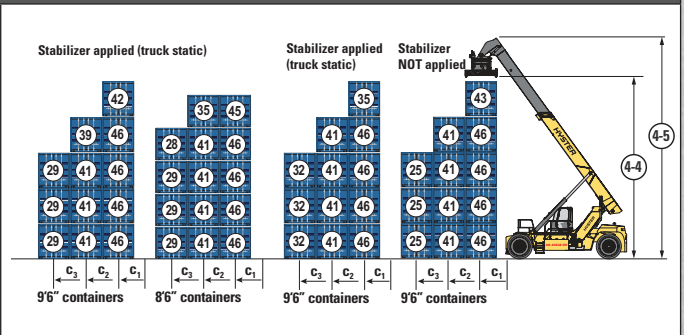
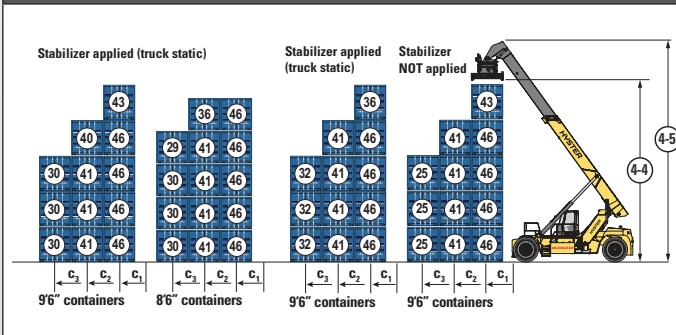
RS 46-41L CH CONTAINER SPREADER



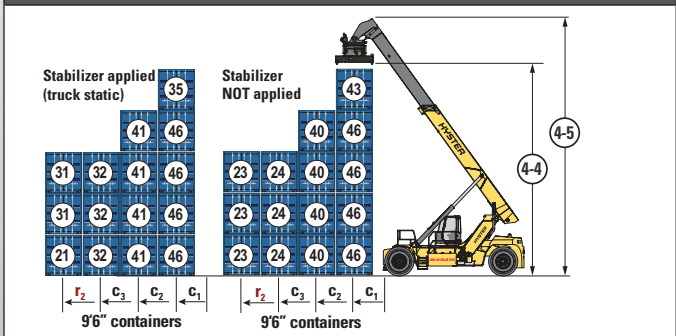
RS 46-41LS CH CONTAINER SPREADER



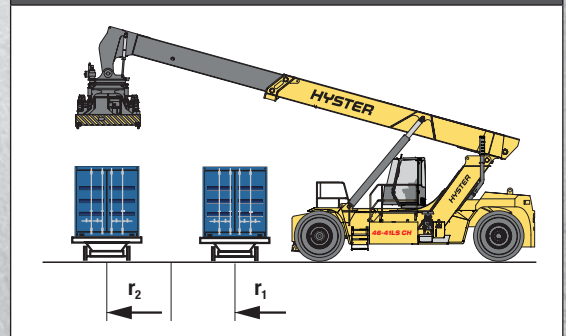
RS 46-41XLS CH CONTAINER SPREADER



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



HANDLING IN SECOND RAIL



c1	c2	c3
1865mm	3815mm	6315mm

Note: All load centres c1, c2, c3 are taken from the front face of the (front) Tyres, deduct 100mm for load centres taken from the front face of the stabiliser.

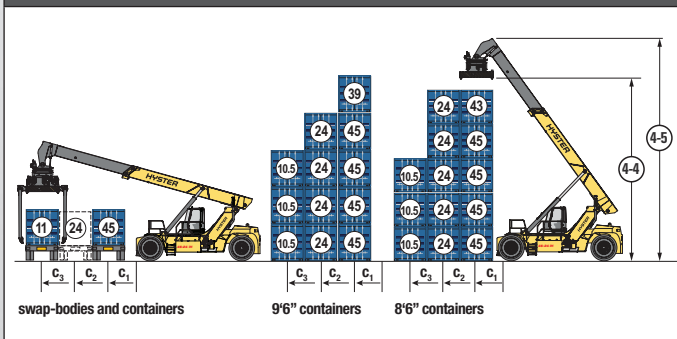
r1	r2
1865mm	6400mm

➤ RATED CAPACITIES AND STACKING HEIGHTS

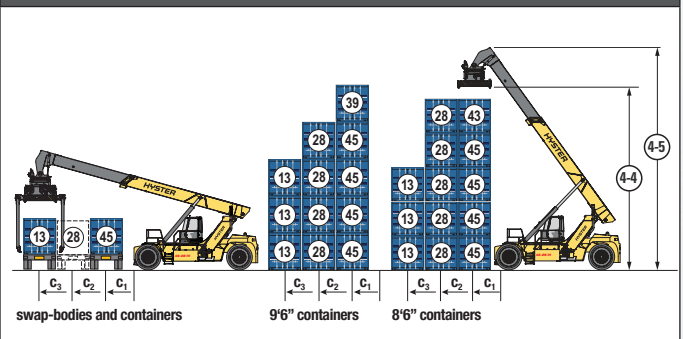
(shown in 1,000 kg.)

POWERED PILE SLOPE

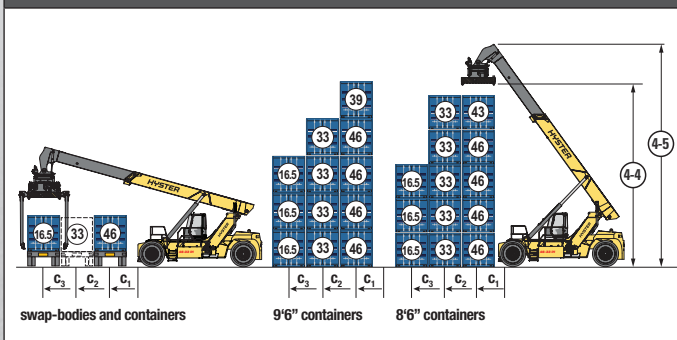
RS 46-24 IH SPREADER



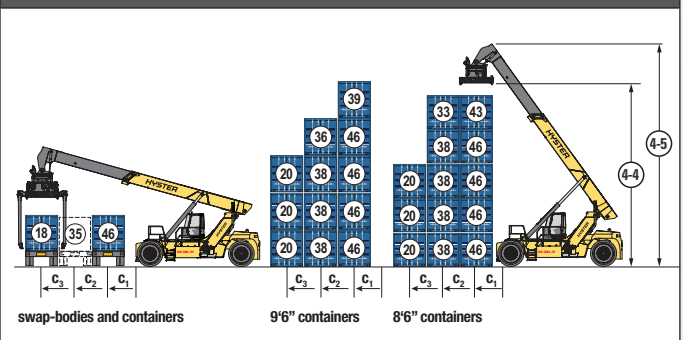
RS 46-28 IH SPREADER



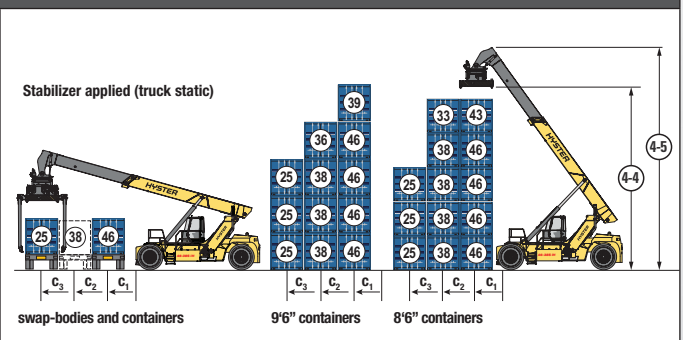
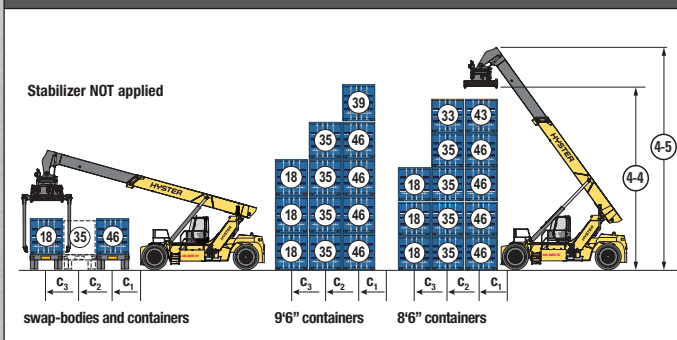
RS 46-33 IH SPREADER



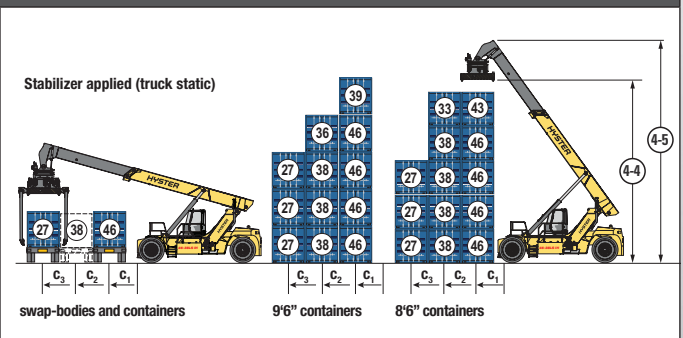
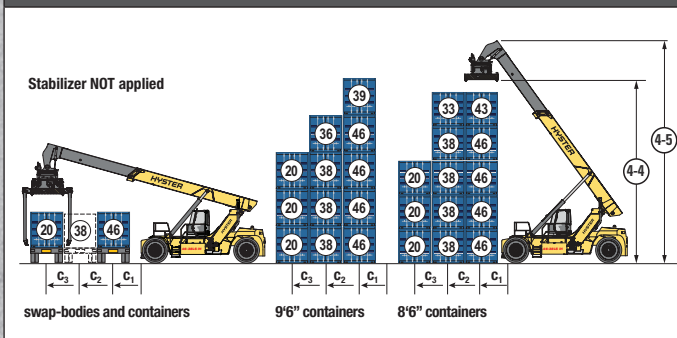
RS 46-38L IH SPREADER



RS 46-38S IH SPREADER



RS 46-38LS IH SPREADER



c1	c2	c3
1865mm	3815mm	6315mm

Note: All load centres c1, c2, c3 are taken from the front face of the (front) Tyres, deduct 100mm for load centres taken from the front face of the stabiliser.

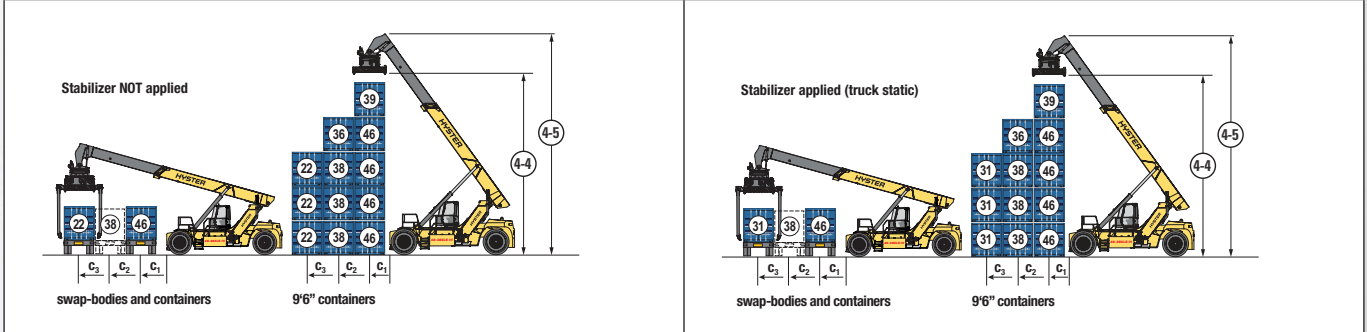
RATED CAPACITIES AND STACKING HEIGHTS



(shown in 1,000 kg.)

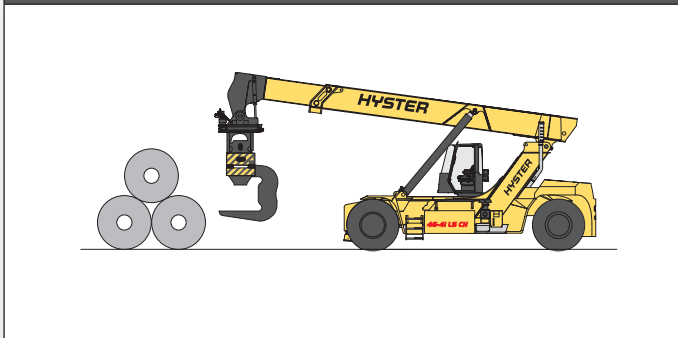
POWERED PILE SLOPE

RS 46-41XLS IH SPREADER

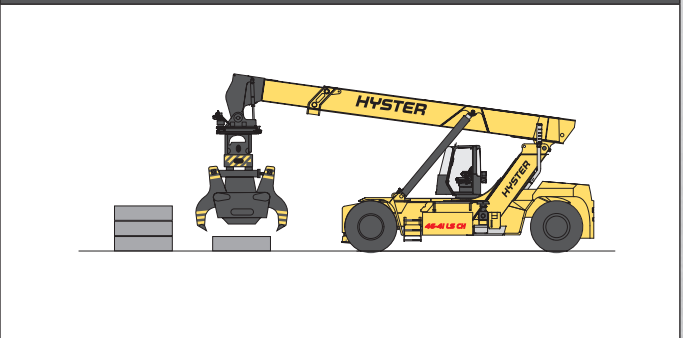


RS 46 FOR STEEL LOAD HANDLING

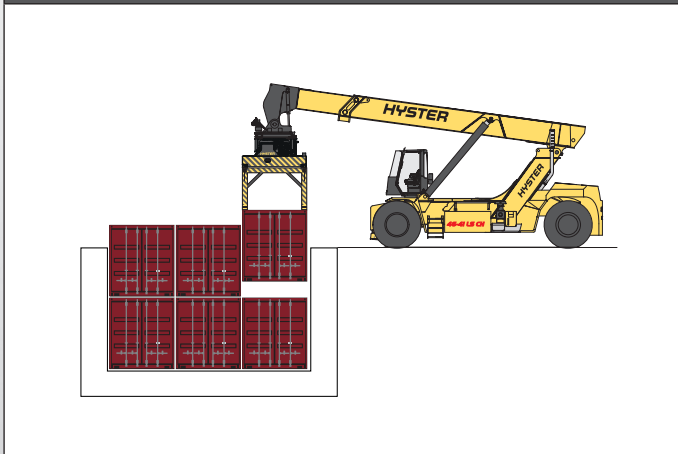
RS 46 FOR COIL HANDLING



RS 46 FOR SLAB HANDLING



RS 46 FOR BARGE CONTAINER HANDLING



C1	C2	C3
1865mm	3815mm	6315mm

Note: All load centres c₁, c₂, c₃ are taken from the front face of the (front) Tyres, deduct 100mm for load centres taken from the front face of the stabiliser.

> RS 46-29, RS 46-33, RS 46-36, RS 46-41S CONTAINER HANDLERS

				HYSTER		HYSTER		HYSTER		HYSTER		
				RS 46-29 CH		RS 46-33 CH		RS 46-36 CH		RS 46-41S CH		
GENERAL	1-1	Manufacturer										
	1-2	Model designation										
	1-3	Powertrain / drivetrain				Diesel		Diesel		Diesel		
	1-4	Operator type				Seated		Seated		Seated		
	1-5-1	Load capacity at load centre distance c ₁ without/with stabiliser (1)	Q ₁	kg	46,000	45,000	46,000	45,000	46,000	45,000	46,000	46,000
	1-5-2	Load capacity at load centre distance c ₂ without/with stabiliser (1)	Q ₂	kg	29,000	27,000	33,000	31,000	36,000	32,000	38,000	41,000
	1-5-3	Load capacity at load centre distance c ₃ without/with stabiliser (1)	Q ₃	kg	14,000	15,000	17,000	16,000	19,000	18,000	21,000	28,000
	1-6-1	Load centre distance c ₁ (2)	c ₁	mm	1,865		1,865		1,865		1,865	
	1-6-2	Load centre distance c ₂ (2)	c ₂	mm	3,815		3,815		3,815		3,815	
	1-6-3	Load centre distance c ₃ (2)	c ₃	mm	6,315		6,315		6,315		6,315	
1-8	Load distance, ctr of drive axle to face of front Tyres/front of stabiliser	x	mm	835	n/a	835	n/a	930	n/a	930	1030	
1-9	Wheelbase	y	mm	6,200		6,200		6,200		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"		5 x 9' 6"		
WEIGHT	2-1	Service weight				68,500		72,200		79,300		
	2-2-1	Axle loading with load, front / rear at c ₁		kg	101,350	13,150	101,100	17,100	103,200	22,100	105,400	24,200
	2-3-1	Axle loading without load, front / rear at c ₁		kg	35,300	33,200	35,000	37,200	36,500	42,800	38,700	44,900
WHEELS	3-1	Tyre type				Pneumatic		Pneumatic		Pneumatic		
	3-2	Tyre size, front				18.00-25 40PR		18.00-25 40PR		18.00-33 36PR		
	3-3	Tyre size, rear				18.00-25 40PR		18.00-25 40PR		18.00-33 36PR		
	3-5	Wheels, number front / rear (X = driven wheels)				x4 / 2		x4 / 2		x4 / 2		
	3-6	Tread, front	b ₁₀	mm	3,703		3,703		3,703		3,703	
	3-7	Tread, rear	b ₁₁	mm	3,060		3,060		3,060		3,060	
	DIMENSIONS	4-1	Boom angle minimum / maximum				(°)		0 / 59		0 / 59	
4-2		Height of boom lowered				h ₁		mm		4,700		
4-4-1		Lift height at load centre c ₁ (3)				h _{3.1}		mm		15,260		
4-4-2		Lift height at load centre c ₂ (3)				h _{3.2}		mm		13,850		
4-5		Height, boom extended				h ₄		mm		18,110		
4-7		Height of overhead guard (cabin)				h ₆		mm		3,720		
4-8		Seat height to SIP (4)				h ₇		mm		2,555		
4-15		Height under Twistlock - lowered (3)				h ₁₃		mm		1,345		
4-19		Overall length				l ₁		mm		8,360		
4-20		Overall length including boom retracted				l ₂		mm		11,873		
4-21-2		Overall width across all of truck				b ₂		mm		4,200		
4-21-3		Overall width across spreader 20'				b _{1.20}		mm		6,100		
4-21-4		Overall width across spreader 40'				b _{1.40}		mm		12,200		
4-31		Ground clearance, lowest point				m ₁		mm		285		
4-32		Ground clearance, centre or wheelbase				m ₂		mm		437		
PERFORMANCE		PERFORMANCE			CUMMINS QSM11 224KW STAGE IIIA ENGINE - TE 27							
	5-1	Travel speed with / without load		km/h	20	23	20	23	20	25	19	22
	5-2	Lifting speed with / without load		m/s	0.25	0.48	0.25	0.48	0.25	0.48	0.25	0.48
	5-3	Lowering speed with / without load		m/s	0.46	0.45	0.46	0.45	0.46	0.45	0.46	0.45
	5-7	Gradeability - 1.6 km/h, with / without load (6)		%	22	36	22	36	19	34	18	32
	PERFORMANCE			CUMMINS QSM11 250KW STAGE IIIA ENGINE - TE 32								
	5-1	Travel speed with / without load		km/h	21	23	21	23	23	26	20	24
	5-2	Lifting speed with / without load		m/s	0.28	0.48	0.28	0.48	0.28	0.48	0.28	0.48
5-3	Lowering speed with / without load		m/s	0.46	0.45	0.46	0.45	0.46	0.45	0.46	0.45	
5-7	Gradeability - 1.6 km/h, with / without load (6)		%	26	35	25	35	25	33	21	32	

RS 46-41L, RS 46-41LS, RS46-41XLS CONTAINER HANDLERS



				HYSTER		HYSTER		HYSTER		
				RS 46-41L CH	RS 46-41LS CH	RS 46-41LS CH	RS 46-41XLS CH			
GENERAL	1-1	Manufacturer			HYSTER		HYSTER		HYSTER	
	1-2	Model designation			RS 46-41L CH		RS 46-41LS CH		RS 46-41XLS CH	
	1-3	Powertrain / drivetrain			Diesel		Diesel		Diesel	
	1-4	Operator type			Seated		Seated		Seated	
	1-5-1	Load capacity at load centre distance c ₁ , without/with stabiliser (1)	Q ₁	kg	46,000	45,000	46,000	46,000	46,000	46,000
	1-5-2	Load capacity at load centre distance c ₂ , without/with stabiliser (1)	Q ₂	kg	41,000	40,000	41,000	41,000	41,000	41,000
	1-5-3	Load capacity at load centre distance c ₃ , without/with stabiliser (1)	Q ₃	kg	23,000	21,000	23,000	30,000	25,000	34,000
	1-6-1	Load centre distance c ₁ (2)	c ₁	mm	1,865		1,865		1,865	
	1-6-2	Load centre distance c ₂ (2)	c ₂	mm	3,815		3,815		3,815	
	1-6-3	Load centre distance c ₃ (2)	c ₃	mm	6,315		6,315		6,315	
1-8	Load distance, centre of drive axle to face of front Tyre/front of stabiliser	x	mm	930	n/a	930	1030	930	1030	
1-9	Wheelbase	y	mm	6,700		6,700		7,500		
1-10	Stacking height at first row (number x container height)		#	5 x 9' 6"		5 x 9' 6"		5 x 9' 6"		
WEIGHT	2-1	Service weight			82,600		84,600		84,650	
	2-2-1	Axle loading with load, front / rear at c ₁		kg	103,400	25,200	105,600	25,000	103,350	27,300
	2-3-1	Axle loading without load, front / rear at c ₁		kg	38,200	44,400	40,400	44,200	41,300	43,350
WHEELS	3-1	Tyre type			Pneumatic		Pneumatic		Pneumatic	
	3-2	Tyre size, front			18.00-33 36PR		18.00-33 36PR		18.00-33 36PR	
	3-3	Tyre size, rear			18.00-33 36PR		18.00-33 36PR		18.00-33 36PR	
	3-5	Number of wheels, front / rear (x = driven wheels)			x4 / 2		x4 / 2		x4 / 2	
	3-6	Tread, front	b ₁₀	mm	3,703		3,703		3,703	
	3-7	Tread, rear	b ₁₁	mm	3,060		3,060		3,060	
	DIMENSIONS	4-1	Boom angle minimum / maximum		(°)	0 / 59		0 / 59		3 / 58
4-2		Height of boom lowered	h ₁	mm	4,795		4,795		5,457	
4-4-1		Lift height at load centre c ₁ (3)	h _{3.1}	mm	15,355		15,355		15,225	
4-4-2		Lift height at load centre c ₂ (3)	h _{3.2}	mm	13,945		13,945		14,158	
4-5		Height, boom extended	h ₄	mm	18,205		18,205		18,420	
4-7		Height of overhead guard (cabin)	h ₆	mm	3,815		3,815		3,815	
4-8		Seat height to SIP (4)	h ₇	mm	2,650		2,650		2,650	
4-15		Height under twistlock - lowered (3)	h ₁₃	mm	1,440		1,440		1,835	
4-19		Overall length	l ₁	mm	9,150		9,250		10,050	
4-20		Overall length including boom retracted	l ₂	mm	12,573		12,573		13,613	
4-21-2		Overall width across all of truck	b ₂	mm	4,200		4,200		4,200	
4-21-3		Overall width across spreader 20'	b _{1.20}	mm	6,100		6,100		6,100	
4-21-4		Overall width across spreader 40'	b _{1.40}	mm	12,200		12,200		12,200	
4-31		Ground clearance, lowest point	m ₁	mm	304		250		250	
4-32		Ground clearance, centre or wheelbase	m ₂	mm	532		532		532	
4-34-3		Aisle width: 20' container (5)	Ast ₂₀	mm	13,430		13,430		14,780	
4-34-4		Aisle width: 40' container (5)	Ast ₄₀	mm	14,620		14,620		15,370	
4-35		Outside turning radius	W _a	mm	9,300		9,300		10,650	
4-36	Internal turning radius	b ₁₃	mm	2,400		2,400		2,975		
PERFORMANCE	PERFORMANCE			CUMMINS QSM11 224KW STAGE IIIA ENGINE - TE 27						
	5-1	Travel speed with / without load		km/h	19	22	19	22	19	22
	5-2	Lifting speed with / without load		m/s	0.25	0.48	0.25	0.48	0.25	0.48
	5-3	Lowering speed with / without load		m/s	0.46	0.45	0.46	0.45	0.46	0.45
	5-7	Gradeability - 1.6 km/h, with / without load (6)		%	18	32	18	32	18	32
	PERFORMANCE			CUMMINS QSM11 250KW STAGE IIIA ENGINE - TE 32						
	5-1	Travel speed with / without load		km/h	20	24	20	24	20	24
	5-2	Lifting speed with / without load		m/s	0.28	0.48	0.28	0.48	0.28	0.48
	5-3	Lowering speed with / without load		m/s	0.46	0.45	0.46	0.45	0.46	0.45
	5-7	Gradeability - 1.6 km/h, with / without load (6)		%	21	32	21	32	21	32

> RS 46-24, RS 46-28, RS 46-33, RS 46-38L INTERMODAL HANDLERS

			HYSTER		HYSTER		HYSTER		HYSTER			
			RS 46-24 IH	RS 46-28 IH	RS 46-33 IH	RS 46-38L IH						
GENERAL	1-1	Manufacturer			HYSTER	HYSTER	HYSTER	HYSTER				
	1-2	Model designation			RS 46-24 IH	RS 46-28 IH	RS 46-33 IH	RS 46-38L IH				
	1-3	Powertrain / drivetrain			Diesel	Diesel	Diesel	Diesel				
	1-4	Operator type			Seated	Seated	Seated	Seated				
	1-5-1	Load capacity at load centre distance c ₁ without/with stabiliser (1)	Q ₁	kg	45.000	45,000	45.000	45,000	46.000	44,000	46.000	46,000
	1-5-2	Load capacity at load centre distance c ₂ without/with stabiliser (1)	Q ₂	kg	24.000	27,000	28.000	27,000	33.000	32,000	38.000	41,000
	1-5-3	Load capacity at load centre distance c ₃ without/with stabiliser (1)	Q ₃	kg	11.000	13,000	13.000	15,000	17.000	15,000	20.000	28,000
	1-6-1	Load centre distance c ₁ (2)	c ₁	mm	1,865		1,865		1,865		1,865	
	1-6-2	Load centre distance c ₂ (2)	c ₂	mm	3,815		3,815		3,815		3,815	
	1-6-3	Load centre distance c ₃ (2)	c ₃	mm	6,315		6,315		6,315		6,315	
1-8	Load distance, ctr of drive axle to face of front Tyres/front of stabiliser	x	mm	835	n/a	835	n/a	930	n/a	930	n/a	
1-9	Wheelbase	y	mm	6,200		6,200		6,200		6,700		
1-10	Stacking height at first row (number x container height)	#		5 x 9' 6"		5 x 9' 6"		5 x 9' 6"		5 x 9' 6"		
WEIGHT	2-1	Service weight		kg	72,400		76,100		83,200		86,500	
	2-2-1	Axle loading with load, front / rear at c ₁		kg	105,400	12,000	105,200	15,900	108,800	20,400	108,800	23,700
	2-3-1	Axle loading without load, front / rear at c ₁		kg	40,800	31,600	40,500	35,600	42,100	41,100	43,600	42,900
WHEELS	3-1	Tyre type			Pneumatic		Pneumatic		Pneumatic		Pneumatic	
	3-2	Tyre size, front			18.00-25 40PR		18.00-25 40PR		18.00-33 36PR		18.00-33 36PR	
	3-3	Tyre size, rear			18.00-25 40PR		18.00-25 40PR		18.00-33 36PR		18.00-33 36PR	
	3-5	Wheels, number front / rear (X = driven wheels)			x4 / 2		x4 / 2		x4 / 2		x4 / 2	
	3-6	Tread, front	b ₁₀	mm	3,703		3,703		3,703		3,703	
	3-7	Tread, rear	b ₁₁	mm	3,060		3,060		3,060		3,060	
	DIMENSIONS	4-1	Boom angle minimum / maximum		(°)	0 / 59		0 / 59		0 / 59		0 / 59
4-2		Height of boom lowered	h ₁	mm	4,700		4,700		4,795		4,795	
4-4-1		Lift height at load centre c ₁ (3)	h _{3.1}	mm	14,780		14,780		14,875		14,875	
4-4-2		Lift height at load centre c ₂ (3)	h _{3.2}	mm	13,375		13,375		13,470		13,470	
4-5		Height, boom extended	h ₄	mm	18,110		18,110		18,205		18,205	
4-7		Height of overhead guard (cabin)	h ₆	mm	3,720		3,720		3,815		3,815	
4-8		Seat height to SIP (4)	h ₇	mm	2,555		2,555		2,650		2,650	
4-15		Height under Twistlock - lowered (3)	h ₁₃	mm	885		885		980		980	
4-19		Overall length	l ₁	mm	8,360		8,360		8,650		9,150	
4-20		Overall length including boom retracted	l ₂	mm	11,873		11,873		12,073		12,573	
4-21-2		Overall width across all of truck	b ₂	mm	4,200		4,200		4,200		4,200	
4-21-3		Overall width across spreader 20'	b _{1.20}	mm	6,100		6,100		6,100		6,100	
4-21-4		Overall width across spreader 40'	b _{1.40}	mm	12,200		12,200		12,200		12,200	
4-31		Ground clearance, lowest point	m ₁	mm	285		285		304		304	
4-32		Ground clearance, centre or wheelbase	m ₂	mm	437		437		532		532	
4-34-3		Aisle width: 20' container (5)	Ast ₂₀	mm	12,639		12,639		13,330		13,430	
4-34-4	Aisle width: 40' container (5)	Ast ₄₀	mm	14,403		14,403		14,620		14,620		
4-35	Outside turning radius	W _a	mm	8,420		8,420		9,200		9,300		
4-36	Internal turning radius	b ₁₃	mm	1,500		1,500		2,000		2,400		
PERFORMANCE	PERFORMANCE		CUMMINS QSM11 224KW STAGE IIIA ENGINE - TE 27									
	5-1	Travel speed with / without load		km/h	20	23	20	23	20	25	19	22
	5-2	Lifting speed with / without load		m/s	0.24	0.47	0.24	0.47	0.24	0.47	0.24	0.47
	5-3	Lowering speed with / without load		m/s	0.46	0.45	0.46	0.45	0.46	0.45	0.46	0.45
	5-7	Gradeability - 1.6 km/h, with / without load (6)		%	22	36	22	36	19	34	18	32
	PERFORMANCE		CUMMINS QSM11 250KW STAGE IIIA ENGINE - TE 32									
	5-1	Travel speed with / without load		km/h	21	23	21	23	23	26	20	23
	5-2	Lifting speed with / without load		m/s	0.27	0.47	0.27	0.47	0.27	0.47	0.27	0.47
	5-3	Lowering speed with / without load		m/s	0.46	0.45	0.46	0.45	0.46	0.45	0.46	0.45
	5-7	Gradeability - 1.6 km/h, with / without load (6)		%	26	35	25	35	25	33	21	32

RS 46-38S, RS 38LS, RS 46-41XLS INTERMODAL HANDLERS



GENERAL	1-1		HYSTER		HYSTER		HYSTER				
	Manufacturer										
	1-2		RS 46-38S IH		RS 46-38LS IH		RS 46-41XLS IH				
	1-3		Diesel		Diesel		Diesel				
	1-4		Seated		Seated		Seated				
	1-5-1	Load capacity at load centre distance c ₁ , without/with stabiliser (1)	Q ₁	kg	46,000	46,000	46,000	46,000			
	1-5-2	Load capacity at load centre distance c ₂ , without/with stabiliser (1)	Q ₂	kg	35,000	38,000	38,000	38,000			
	1-5-3	Load capacity at load centre distance c ₃ , without/with stabiliser (1)	Q ₃	kg	18,000	25,000	20,000	27,000			
	1-6-1	Load centre distance c ₁ (2)	c ₁	mm	1,865		1,865				
	1-6-2	Load centre distance c ₂ (2)	c ₂	mm	3,815		3,815				
	1-6-3	Load centre distance c ₃ (2)	c ₃	mm	6,315		6,315				
	1-8	Load distance, centre of drive axle to face of front Tyre/front of stabiliser	x	mm	930	1030	930	1030			
	1-9	Wheelbase	y	mm	6,200		6,700				
	1-10	Stacking height at first row (number x container height)		#	5 x 9' 6"		5 x 9' 6"				
WEIGHT	2-1		Service weight		87,500		88,500				
	2-2-1		Axle loading with load, front / rear at c ₁		111,000	22,500	111,000	23,500			
	2-3-1		Axle loading without load, front / rear at c ₁		44,200	43,300	45,800	42,700			
WHEELS	3-1		Tyre type		Pneumatic		Pneumatic				
	3-2		Tyre size, front		18.00-33 36PR		18.00-33 36PR				
	3-3		Tyre size, rear		18.00-33 36PR		18.00-33 36PR				
	3-5		Number of wheels, front / rear (x = driven wheels)		x4 / 2		x4 / 2				
	3-6		Tread, front	b ₁₀	mm	3,703		3,703			
	3-7		Tread, rear	b ₁₁	mm	3,060		3,060			
	DIMENSIONS	4-1		Boom angle minimum / maximum		(°)	0 / 59		3 / 58		
4-2		Height of boom lowered		h ₁	4,795		5,457				
4-4-1		Lift height at load centre c ₁ (3)		h _{3,1}	14,875		14,765				
4-4-2		Lift height at load centre c ₂ (3)		h _{3,2}	13,470		13,698				
4-5		Height, boom extended		h ₄	18,205		18,420				
4-7		Height of overhead guard (cabin)		h ₆	3,815		3,815				
4-8		Seat height to SIP (4)		h ₇	2,650		2,650				
4-15		Height under twistlock - lowered (3)		h ₁₃	980		1,835				
4-19		Overall length		l ₁	8,750		9,250				
4-20		Overall length including boom retracted		l ₂	12,073		12,573				
4-21-2		Overall width across all of truck		b ₂	4,200		4,200				
4-21-3		Overall width across spreader 20'		b _{1,20}	6,100		6,100				
4-21-4		Overall width across spreader 40'		b _{1,40}	12,200		12,200				
4-31		Ground clearance, lowest point		m ₁	250		250				
4-32		Ground clearance, centre or wheelbase		m ₂	532		532				
4-34-3		Aisle width: 20' container (5)		Ast ₂₀	13,330		13,430				
4-34-4		Aisle width: 40' container (5)		Ast ₄₀	14,620		15,370				
4-35		Outside turning radius		W _a	9,200		9,300				
4-36		Internal turning radius		b ₁₃	2,000		2,400				
PERFORMANCE	PERFORMANCE				CUMMINS QSM11 224KW STAGE IIIA ENGINE - TE 27						
	5-1		Travel speed with / without load		km/h	19	22	19	22	19	22
	5-2		Lifting speed with / without load		m/s	0.24	0.47	0.24	0.47	0.24	0.47
	5-3		Lowering speed with / without load		m/s	0.46	0.45	0.46	0.45	0.46	0.45
	5-7		Gradeability - 1.6 km/h, with / without load (6)		%	18	32	18	32	18	32
	PERFORMANCE				CUMMINS QSM11 250KW STAGE IIIA ENGINE - TE 32						
	5-1		Travel speed with / without load		km/h	20	23	20	23	20	23
	5-2		Lifting speed with / without load		m/s	0.27	0.47	0.27	0.47	0.27	0.47
	5-3		Lowering speed with / without load		m/s	0.46	0.45	0.46	0.45	0.46	0.45
	5-7		Gradeability - 1.6 km/h, with / without load (6)		%	21	32	21	32	21	32

> POWERTRAINS

GENERAL	1-1	Manufacturer			HYSTER	HYSTER	HYSTER
	1-2	Model designation			RS46 CH	RS46 CH	RS46 IH
	1-3	Powertrain / drivetrain			Diesel	Diesel	Diesel

ENGINE	7-1	Engine manufacturer / model			Cummins / QSM11	Cummins / QSM11	Cummins / QSM11
	7-1a	EPA / CE Tier compliance			Tier 3 / Stage IIIA	Tier 3 / Stage IIIA	Tier 3 / Stage IIIA
	7-2	Engine power output according to ISO 1585		kW	224	250	224
	7-2-1	Engine power output - peak		kW	224	272	224
	7-3	Rated speed		rpm	2,100	2,100	2,100
	7-3-1	Engine torque @rpm (1/min)		N-m	1,424 @ 1000	1,674 @ 900	1,424 @ 1000
	7-4	Number of cylinders / displacement		# / cm3	6 / 10,800	6 / 10,800	6 / 10,800
		Turbocharger		Type	Wastegate, water cooled	Wastegate, water cooled	Wastegate, water cooled
	7-8	Alternator output		Amps	120	120	120
	7-10	Battery voltage, rated capacity		V / Ah	24 / 200	24 / 200	24 / 200

DRIVE	8-1	Drive control / transmission		Type / #	Hydrodynamic Transmission	Hydrodynamic Transmission	Hydrodynamic Transmission
	8-2	Transmission manufacturer / type		Type / #	Spicer Off-Highway / TE-27	Spicer Off-Highway / TE-32	Spicer Off-Highway / TE-27
	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 / 857
	9-1-1	Pile slope, mechanical without PPS		°	3	3	3
	9-1-2	Pile slope, mechanical with PPS		°	1.5	1.5	1.5
	9-1-3	Pile slope, total with PPS		°	6	6	6
	9-3	Size of containers		feet (')	ISO 20' - 40'	ISO 20' - 40'	ISO 20' - 40'
	9-4	Side shift	b ₈	mm	+800 / -800	+800 / -800	+800 / -800
	9-6-1	Rotation angle, without override		°	+12 / -12	+12 / -12	+12 / -12
	9-6-2	Rotation angle, with override		°	+185 / -95	+185 / -95	+185 / -95

MISC	10-1	Operating pressure for attachments		bar	140	140	140
	10-2	Oil volume for attachments		l/min	110	110	110
	10-3	Hydraulic oil tank, capacity		l	625	625	625
	10-4	Fuel tank capacity		l	830	830	830
	10-5	Steering design			Hydrostatic	Hydrostatic	Hydrostatic
	10-6	Number of steering rotation			6	6	6
	10-7	Sound pressure level at driver's seat (7)	Lpaz	dB(A)	73.9	73.9	73.9
	10-7-1	Sound power level during the workcycle	Lwaz	dB	109	109	109


NOTES:

Specifications are affected by the condition of the vehicle and how it is equipped, as well as the nature and condition of the operating area. Inform your dealer of the nature and condition of the intended operating area when purchasing your Hyster® truck.

- (1) Load capacities shown with mechanical pile slope (MPS) spreader. Deduction for using powered pile slope spreader is approx. 900 kg
- (2) From face of front Tyres.
- (3) With Mechanical Pile Slope (MPS). For optional Powered Pile Slope (PPS) function: deduct 310 mm.
- (4) Full suspension seat in depressed position.
- (5) Spreader at 8.0 m high, central above front axle; container 0 mm in front of Tyres; includes 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.

 **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.



STANDARD AND OPTIONAL EQUIPMENT

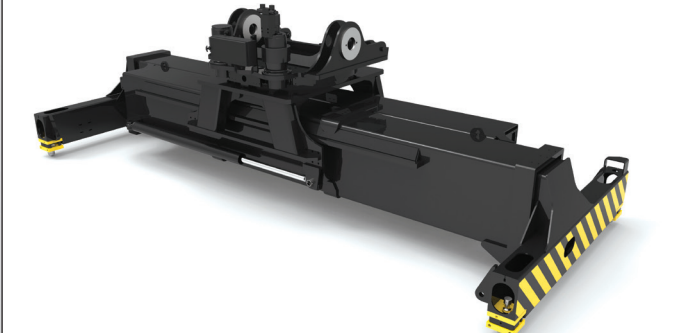
PERFORMANCE	STD	OPT
Cummins QSM11 diesel engine rated 224 kW Stage IIIA wastegate turbocharger, water cooled	X	
Cummins QSM11 diesel engine rated 250 kW Stage IIIA wastegate turbocharger, water cooled		X
Hibernate Idle	X	
Hydraulically driven on-demand cooling fan	X	
120 amp alternator	X	
Powertrain protection system	X	
Spicer Off-Highway TE-27 4-speed auto-shifting transmission	X	
Spicer Off-Highway TE-32 4-speed auto-shifting transmission		X
Kessler D102 drive axle with wet disc brakes	X	
DRIVE	STD	OPT
Traction speed limiter when carrying container (adjustable)	X	
Traction speed limiter - unconditional (adjustable)		X
Steer axle with full stroke steer cylinder for tight turning radius	X	
Steer axle with reduced stroke steer cylinder for longer Tyre life		X
Premium E4 Pneumatic bias ply Tyres	X	
Premium Slick bias ply Tyres		X
Premium Slick radial Tyres		X
18.00-25 40PR drive and steer Tyres	X	
18.00-33 36PR drive and steer Tyres	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
3B6 load moment Indicator with monochrome display	X	
3B6 load moment Indicator with color display	IH	CH
High speed hoist system - below 10 tons	X	
Hydraulic system temperature protection		X
Container weighing system SOLAS compliant		X
HANDLING	STD	OPT
Hyster model 817 spreader, with rotation (CH models)	X	
Hyster model 857 spreader, with rotation (IH models)	X	
Mechanical Pile Slope	X	
Powered Pile Slope	IH	CH
Powered dampening		X
Wide Twistlock Position (WTP) container handling		X
Intermodal handling - top / bottom pick	X	
Barge container handling		X
4 lifting eyes located on end beam corners	X	
4 lifting eyes located under centre beam of spreader		X
Container guides - located outside near twistlocks		X
Container guides - 500mm inset, heavy duty		X
Rotation stops with override	X	
Automatic extend/retract		X
Stops for 30' containers		X
Vertical lift		X
Tool changer		X
Attachments for steel load handling		X
Attachments for wind industry load handling		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	IH	CH
Rear view camera system		X
Halogen work lights	X	
LED 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	
SUPPLEMENTAL	STD	OPT
Literature package		
Operator's manual		
Warranty: 12 months / 2,000 hours manufacturer's warranty	X	
CE Certification		X

APPEARANCE	STD	OPT
Hyster yellow paint base truck and spreader	X	
Special paint base truck and spreader		X
ERGONOMICS	STD	OPT
Powered partial-sliding cabin, including additional mirrors on top of fenders	X	
Powered full-sliding cabin, including additional steps and handrails		X
Isolated mounting for low noise and vibration	X	
Coat hook	X	
Front, top and rear wipers	X	
Front and rear window defrosters	X	
Left side handrails, stairway and cabin door	X	
RH side door		X
Right side handrails and stairway		X
Stair lights		X
Multifunction display panel	X	
Seat-side joystick hydraulic control	X	
Steering wheel spinner knob	X	
Directional control lever	X	
Interior wide angle mirrors	X	
Heater with 3 speed fan	X	
Telescoping & tilting steering column	X	
Recirculation fan		X
DC/DC converter 24 volt/12 volt with socket		X
2nd 12 volt socket		X
Accessory mounting post		X
Rear locking console in cab		X
Heated top window		X
"H"-pattern front wiper		X
Air conditioning		X
Sun shades on top and rear		X
Radio preparation set-up (wiring, two speakers and antenna)		X
Reading light		X
Operator presence system	X	
Mechanical suspension seat	X	
Deluxe air suspension seat		X
Low backrest		X
High backrest	X	
Cloth seat cover	X	
Vinyl seat cover		X
Seat heating		X
2-point high visibility seatbelt	X	
3-point high visibility seatbelt		X
OPERATION	STD	OPT
Electric air horn 112 dB	X	
Visible alarm – Amber strobe light, key switch activated	X	
Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting	X	
Forward motion alarm		X
Seatbelt interlock for engine start		X
Seatbelt indicator light on top of cab		X
Tyre pressure monitoring system		X
Lockable battery disconnect switch	X	
Battery jump start connection (NATO plug)		X
Adjustable automatic "empty seat" engine shutdown		X
Trainer seat		X
Non-locking fuel cap	X	
Lockable fuel cap		X
Hyster Tracker wireless asset management - monitoring		X
Hyster Tracker wireless asset management - access / verification		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 220 volt		X
Steer wheel lug nut protection	X	
Engine compartment light		X

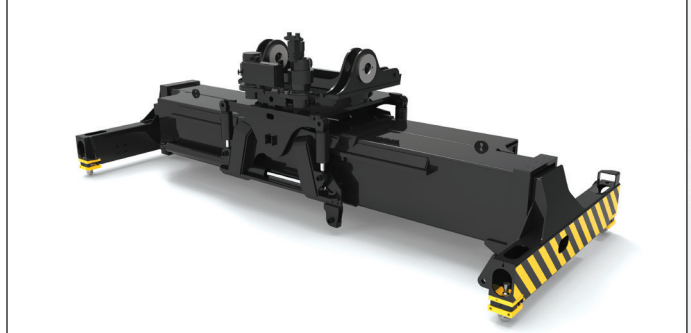
> FRONT END EQUIPMENT

CONTAINER HANDLER SPREADERS

ISO CONTAINER SPREADER WITH MPS



ISO CONTAINER SPREADER WITH PPS



INTERMODAL HANDLER SPREADER



SPREADER FOR BUKL LOAD HANDLING

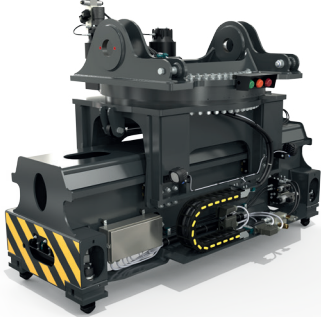
ISO CONTAINER TIPPING SPREADER



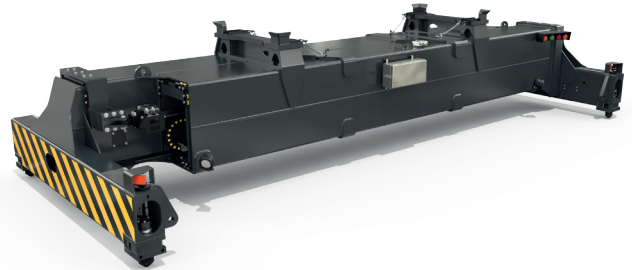


TOOL CHANGER AND ATTACHMENTS

TOOL CHANGER



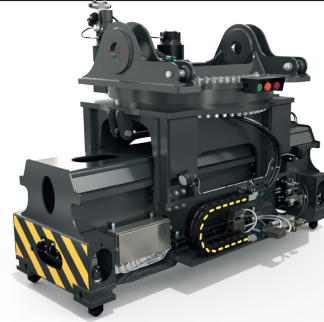
CH SPREADER FOR TOOL CHANGER



SLAB HANDLER FOR TOOL CHANGER



C-HOOK FOR TOOL CHANGER



SPREADER FOR BARGE HANDLING

OVERSIZED LEG SPREADER



STRONG PARTNERS. TOUGH TRUCKS.™

FOR DEMANDING OPERATIONS, EVERYWHERE.

Hyster® supplies a complete range of warehouse equipment, IC and electric counterbalanced trucks, container handlers and reach stackers. Hyster® is committed to being much more than a lift truck supplier.

Our aim is to offer a complete partnership capable of responding to the full spectrum of material handling issues: whether you need professional consultancy on your fleet management, fully qualified service support, or reliable parts supply, you can depend on Hyster®.

Our network of highly trained dealers provides expert, responsive local support. They can offer cost-effective finance packages and introduce effectively managed maintenance programmes to ensure that you get the best possible value. Our business is dealing with your material handling needs so you can focus on the success of your business today and in the future.



HYSTER EUROPE


Centennial House, Frimley Business Park, Frimley, Surrey, GU16 7SG, England.


Tel: +44 (0) 1276 538500

 www.hyster.eu  infoeurope@hyster.com  [/HysterEurope](https://www.facebook.com/HysterEurope)  [@HysterEurope](https://twitter.com/HysterEurope)  [/HysterEurope](https://www.youtube.com/HysterEurope)  www.hyster-bigtrucks.com



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