

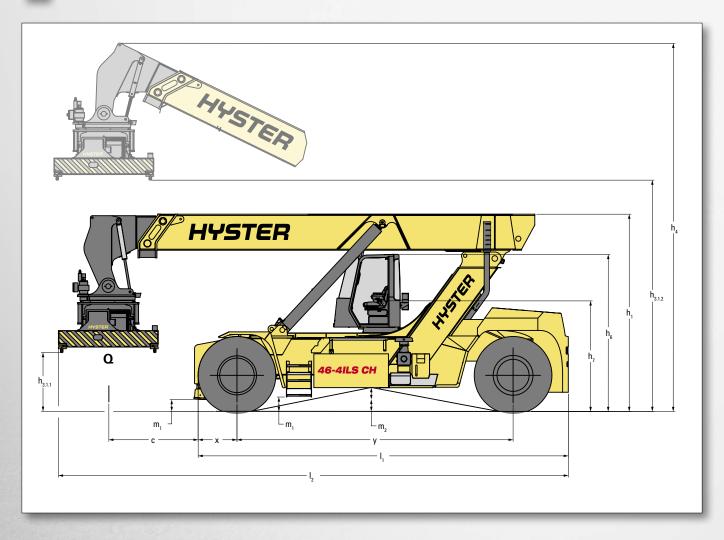


RS46 SERIES TECHNICAL GUIDE

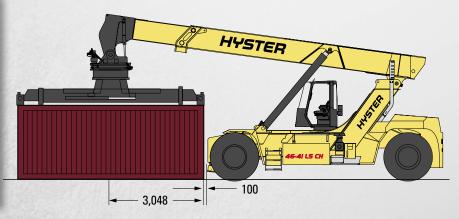


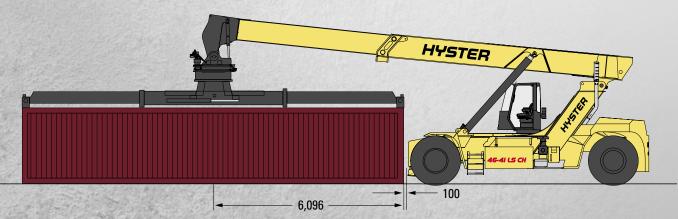


> TRUCK DIMENSIONS



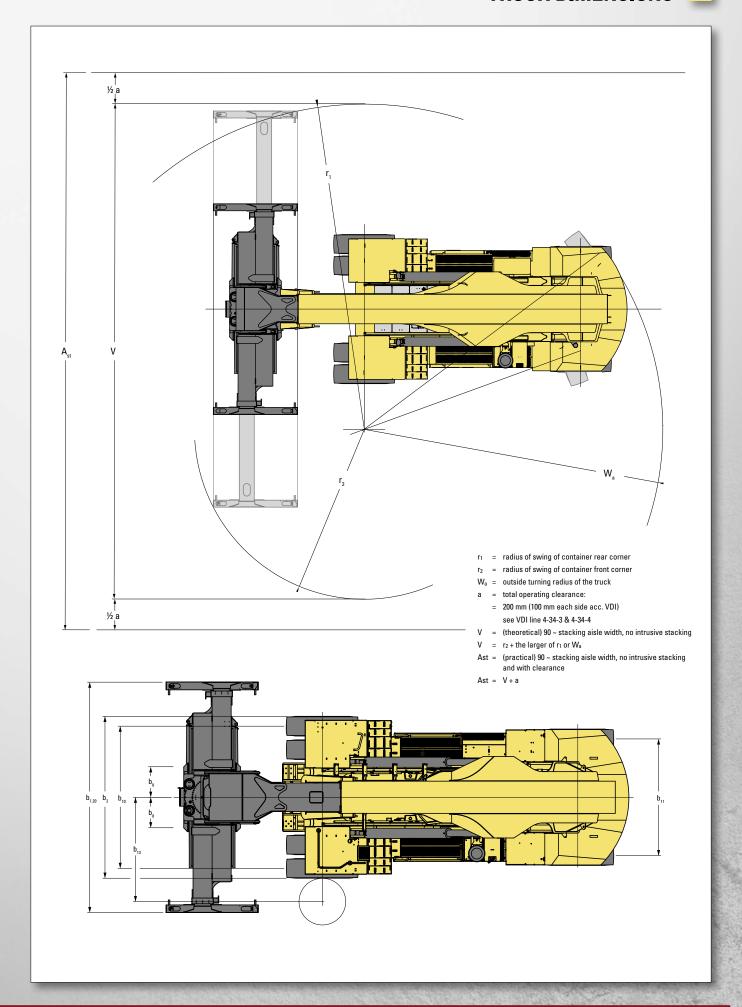
MAXIMUM CAPACITY PICKING LENGTHWISE									
MODEL	20′	40′							
INIODEL	kg	kg							
RS46-29XD/62	32,000	14,000							
RS46-33XD/62	35,000	16,000							
RS46-36XD/62	42,000	20,000							
RS46-41XD/67	44,900	26,300							
RS46-41XD/62S	44,900	26,300							
RS46-41XD/67S	44,900	30,300							
RS46-41XD/75S	44,900	30,300							





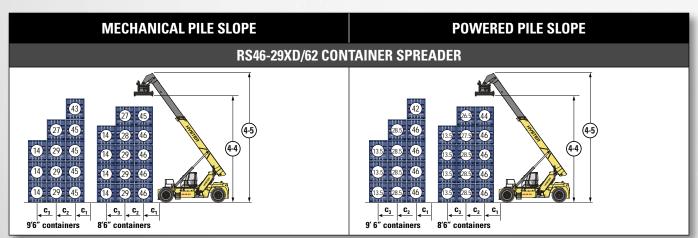
TRUCK DIMENSIONS <

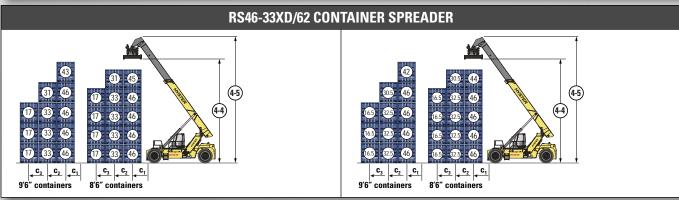


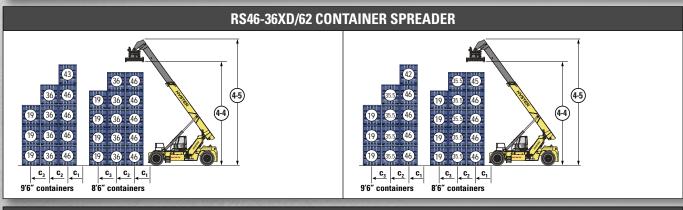


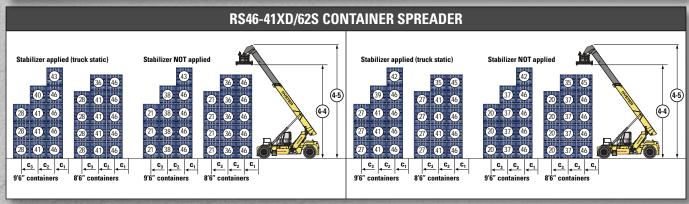
RATED CAPACITIES AND STACKING HEIGHTS

(shown in 1,000 kg.)







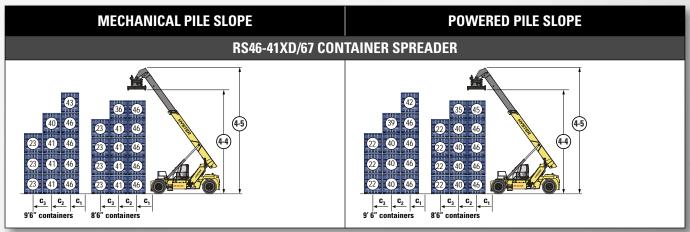


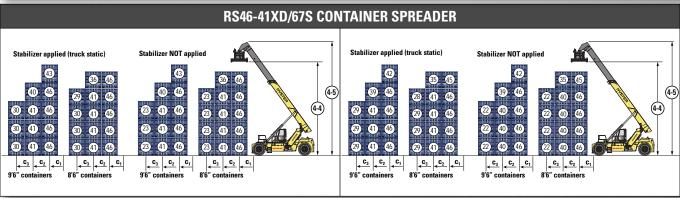
C1	C2	C3
1865mm	3815mm	6315mm

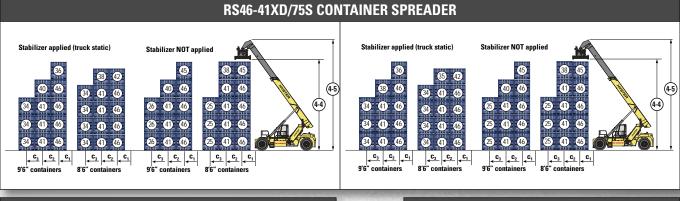
Note: All load centres c_1 , c_2 , c_3 are taken from the front face of the (front) tyres.

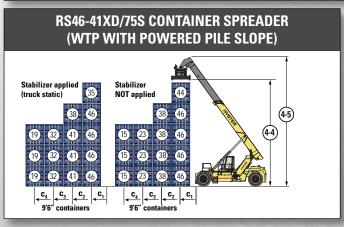
RATED CAPACITIES AND STACKING HEIGHTS <

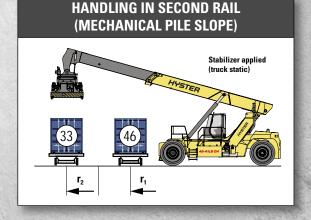
(shown in 1,000 kg.)











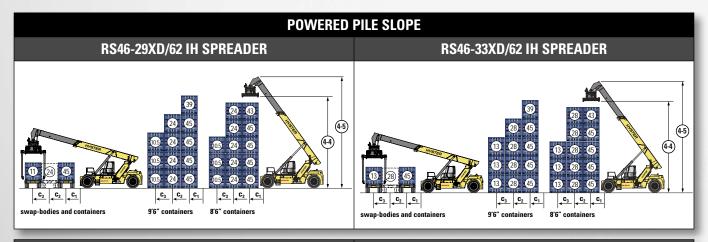
C1	C2	C3	C ⁴
1865mm	3815mm	6315mm	8750mm

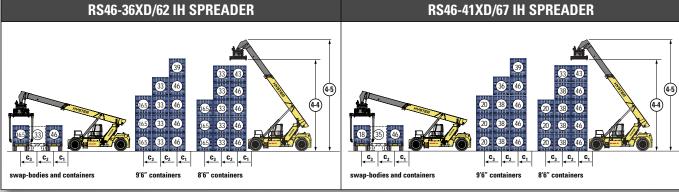
Note: All load centres c1, c2, c3, c4 are taken from the front face of the (front) tyres.

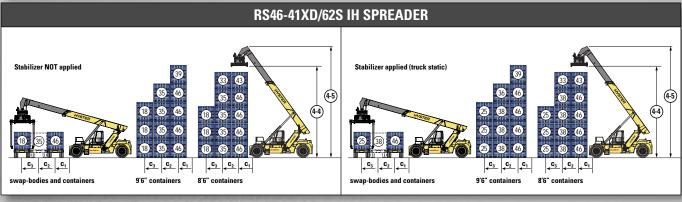
r1	r2
1865mm	6400mm

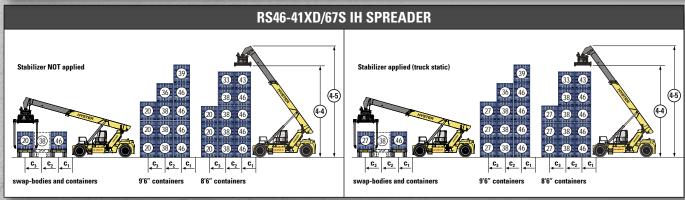
RATED CAPACITIES AND STACKING HEIGHTS

(shown in 1,000 kg.)







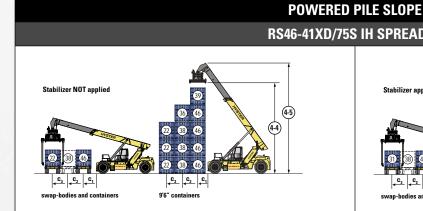


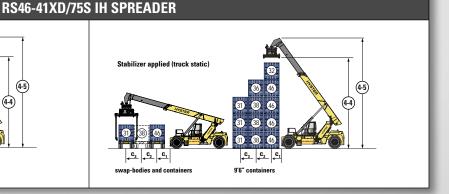
C1	C2	C3
1865mm	3815mm	6315mm

Note: All load centres c1, c2, c3 are taken from the front face of the (front) tyres.

RATED CAPACITIES AND STACKING HEIGHTS <

(shown in 1,000 kg.)

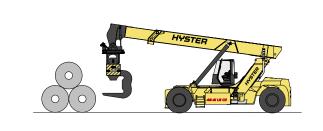


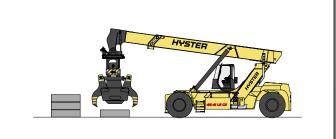


RS 46 FOR STEEL LOAD HANDLING

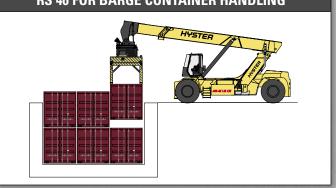
RS 46 FOR COIL HANDLING

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.

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.

- From face of front tyres. Deduct 100mm for loadcentre from front side of Stabilizer when applicable.
- For CH models only: With optional P(owered) P(ile) S(lope) function: deduct 310mm
- Full suspension seat in depressed position.
- These data are with the container carried 500mm in front of the wheels (load centre 1720mm).
- Stacking aisle width is based on the VDI standard calculation as shown on illustration. The British Industrial Truck Association recommends the addition of 100 mm to the total clearance (dimension a) for extra operating margin at the rear of truck.
- Gradeability figures are provided for comparison of tractive performance, but are not intended to endorse the operation of vehicle on the stated inclines.
- 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 $Hyster^{\otimes}$ container handling spreader for handling ISO container.

Safety: This truck conforms to the current EU requirements.

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

Specification data is based on VDI 2198

RS46-29, RS46-33, RS46-36, RS46-41 CONTAINER HANDLERS

	1-1	Manufacturer			пло	TER	HYS	TED	HYS	TED	HYS	TED	
	1-1	Model designation				9XD/62	RS46-3		RS46-3		RS46-4		
	1-3	Drive				sel	Die		Die		Die		
	1-3	Operator type				ited	Sea		Sea		Sea		
	1-5-1	Load capacity at load centre distance c ₁ without/with stabiliser	Q_1	kg	46,000	n/a	46,000	n/a	46,000	n/a	46,000	n/a	
Ι.	1-5-1	Load capacity at load centre distance c ₂ without/with stabiliser	Q ₂	kg	29,000	n/a	33,000	n/a	36,000	n/a	41,000	n/a	
GENERAL	1-5-2	Load capacity at load centre distance c ₂ without/with stabiliser	Q ₃	kg	14,000	n/a	17,000	n/a	19,000	n/a	23,000	n/a	
GEN	1-6-1	Load centre distance c ₁ (1)	C ₁	mm		865	1,7,000		13,000		1,8		
	1-6-2	Load centre distance c ₁ (1)	C ₂	mm		315	3,8		3,8		3,8		
	1-6-3	Load centre distance c ₂ (1)	C ₃	mm		315	6,3		6,3		6,3		
	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	у	mm		200	6,2		6,2		6,7		
	1-10	Stacking height at first row (number x container height)	,	#	5 x 9		5 x 9		5 x 9		5 x 9		
H.	2-1	Service weight		kg		500	72,		79,		82,		
WEIGHT	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	103,400	25,200	
×	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	38,200	44,400	
	3-1	Tyre type		3	Pneu		Pneu		Pneu		Pneu		
	3-2	Tyre size, front				5 40PR	18.00-2	5 40PR	18.00-3		18.00-3		
S.	3-3	Tyre size, rear			18.00-2	5 40PR	18.00-2	5 40PR	18.00-3	3 36PR	18.00-3		
WHEELS	3-5	Wheels, number front / rear (X = driven wheels)			x4	/ 2	x4	/ 2	x4	/ 2	x4	/ 2	
[3-6	Tread, front	b ₁₀	mm	3,7	703	3,7	03	3,7	03	3,7	03	
	3-7	Tread, rear	b ₁₁	mm	3,0	060	3,0	160	3,0	60	3,0	60	
	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 c1 (2)	h _{3.1}	mm	15,	15,260		15,260		15,355		15,355	
	4-4-2	Lift height at load centre c2 (2)	h _{3.2}	mm	13,	850	13,850		13,945		13,945		
	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	3,7	7 20	3,7	20	3,815		3,815		
	4-8	Seat height to SIP (3)	h ₇	mm	2,5	555	2,5	55	2,650		2,650		
8	4-15	Height under Twistlock - lowered (2)	h ₁₃	mm	1,3	345	1,3	45	1,440		1,440		
ONS	4-19	Overall length	l ₁	mm	8,3	360	8,3	60	8,6	50	9,1	50	
MENSIONS	4-20	Overall length including boom retracted	l ₂	mm	11,	873	11,8	873	12,0	073	12,	573	
	4-21-2	Overall width across all of truck	b ₂	mm	4,2	200	4,2	100	4,2	00	4,2	00	
	4-21-3	Overall width across spreader 20'	b _{1.20}	mm	6,1	00	6,1	00	6,1	00	6,1	00	
	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	29	96	29	96	31	5	31	15	
	4-32	Ground clearance, centre or wheelbase	m ₂	mm	4!	59	45	59	54	14	54		
8	4-34-3	Aisle width: 20' container (5) (6)	Ast ₂₀	mm	12,	639	12,0	639	13,	330	13,		
8	4-34-4	Aisle width: 40' container (5) (6)	Ast ₄₀	mm		403	14,4		14,0		14,0		
8	4-35	Outside turning radius	Wa	mm		120	8,4		9,2		9,3		
8—	4-36	Internal turning radius	b ₁₃	mm		500	1,5		2,0		2,4		
.	5-1-1	Travel speed with / without load		km/h	20	23	20	23	20	25	19	22	
ANCE	5-1-2	Travel speed with / without load, backwards		km/h	20	23	20	23	20	25	19	22	
DRM/	5-2-1 5-2-2	Lifting speed with / without load (260cc pump option) Lifting speed with / without load (294cc pump option)		m/s m/s	0.25 0.28	0.48 0.48	0.25 0.28	0.48 0.48	0.25 0.28	0.48	0.25 0.28	0.48	
PERFORMANCE	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 (7)		%	27	31	26	31	22	31	21	31	
8		orassamily no might, with a without load (1)		/"		01	20	01			-1		

⁽¹⁾ From face of front tyres. Deduct 100 mm for loadcentre from front side of Stabilizer when applicable

⁽²⁾ For CH models only: With optional P(owered) P(ile) S(lope) function: deduct 310 mm

³⁾ Full suspension seat in depressed position

⁽⁵⁾ These data are with the container carried 500 mm in front of the wheels (loadcentre 1720 mm)

⁽⁶⁾ Stacking aisle width is based on the VDI standard calculation as shown on illustration. The British Industrial Truck Association recommends the addition of 100 mm to the total clearance (dimension a) for extra operating margin at the rear of truck.

⁽⁷⁾ Gradeability figures are provided for comparison of tractive performance, but are not intended to endorse the operation of vehicle on the stated inclines.

RS46-41 CONTAINER HANDLERS <



	1-1	Manufacturer			HYS	TER	HYS	TER	HYS	TER
	1-2	Model designation				XD/62S	RS46-41		RS46-41	
	1-3	Drive			Die	sel		sel	Die	
	1-4	Operator type			Sea	ited	Seated		Seated	
	1-5-1	Load capacity at load centre distance c ₁ without/with stabiliser	Q ₁	kg	46,000	46,000	46,000	46,000	46,000	46,000
ب	1-5-2	Load capacity at load centre distance c ₂ without/with stabiliser	\mathbb{Q}_2	kg	38,000	41,000	41,000	41,000	41,000	41,000
GENERAL	1-5-3	Load capacity at load centre distance c ₃ without/with stabiliser	Q ₃	kg	21,000	28,000	23,000	30,000	25,000	34,100
B	1-6-1	Load centre distance c ₁ (1)	C ₁	mm	1,8	865	1,8	65	1,8	65
	1-6-2	Load centre distance c ₂ (1)	C ₂	mm	3,8	115	3,8	15	3,8	15
	1-6-3	Load centre distance c ₃ (1)	C3	mm	6,3	15	6,3	15	6,3	15
	1-8	Load distance, ctr of drive axle to face of front tyres/front of stabiliser	х	mm	930	1030	930	1030	930	1030
	1-9	Wheelbase	У	mm	6,2	100	6,7	00	7,5	00
	1-10	Stacking height at first row (number x container height)		#	5 x 9	9′ 6″	5 x 9	9′ 6″	5 x 9	0′ 6″
ļ.	2-1	Service weight		kg	83,	600	84,	600	84,6	650
WEIGHT	2-2-1	Axle loading with load, front / rear at c ₁		kg	105,400	24,200	105,600	25,000	103,350	27,300
>	2-3-1	Axle loading without load, front / rear at c ₁		kg	38,700	44,900	40,400	44,200	41,300	43,350
	3-1	Tyre type			Pneu	matic	Pneu	matic	Pneui	matic
10	3-2	Tyre size, front			18.00-3	3 36PR	18.00-3	3 36PR	18.00-3	3 36PR
WHEELS	3-3	Tyre size, rear			18.00-3	3 36PR	18.00-3	3 36PR	18.00-3	3 36PR
Š	3-5	Wheels, number front / rear (X = driven wheels)			x4		x4		x4	
	3-6	Tread, front	b ₁₀	mm	3,7		3,7		3,7	
	3-7	Tread, rear	b ₁₁	mm		160	3,0		3,0	
	4-1	Boom angle minimum / maximum		(°)	0/		0 / 59		3 / 58 5,457	
	4-2 4-4-1	Height of boom lowered Lift height at load centre c ₁ (2)	h ₁ h _{3.1}	mm mm		95	4,795 15,355		15,225	
	4-4-1	Lift height at load centre c ₂ (2)	h _{3.2}	mm		15,355 13,945			15,225	
	4-5	Height, boom extended	h ₄	mm	18,3				18,420	
	4-7	Height of overhead guard (cabin)	h ₆	mm		115	3,815		3,815	
	4-8	Seat height to SIP (3)	h ₇	mm		50	2,6		2,6	
	4-15	Height under Twistlock - lowered (2)	h ₁₃	mm	1,4	40	1,4	40	1,8	35
SNS	4-19	Overall length	I ₁	mm	8,7	'50	9,2	50	10,0	050
MENSIONS	4-20	Overall length including boom retracted	l ₂	mm	12,	073	12,	573	13,6	613
DIME	4-21-2	Overall width across all of truck	b ₂	mm	4,2	100	4,2	:00	4,2	00
	4-21-3	Overall width across spreader 20'	b _{1.20}	mm	6,1	00	6,1	00	6,1	00
	4-21-4	Overall width across spreader 40'	b _{1.40}	mm	12,:	200	12,:	200	12,2	200
	4-31	Ground clearance, lowest point	m ₁	mm	25	50	25	50	25	0
	4-32	Ground clearance, centre or wheelbase	m ₂	mm	54	14	54	14	54	4
	4-34-3	Aisle width: 20' container (5) (6)	Ast ₂₀	mm	13,	330	13,4	430	14,7	780
	4-34-4	Aisle width: 40' container (5) (6)	Ast ₄₀	mm	14,		14,		15,3	
	4-35	Outside turning radius	Wa	mm		200		300	10,6	
	4-36	Internal turning radius	b ₁₃	mm		000		.00	2,9	
	5-1-1	Travel speed with / without load		km/h	19	22	19	22	19	22
ANCE	5-1-2	Travel speed with / without load, backwards		km/h	19	22	19	22	19	22
ORM/	5-2-1 5-2-2	Lifting speed with / without load (260cc pump option) Lifting speed with / without load (294cc pump option)		m/s m/s	0.25 0.28	0.48	0.25 0.28	0.48	0.25 0.28	0.48
PERFORMANCE	5-2-2	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 (7)		%	18	32	18	32	18	32
	,	S. G. G. G. G. M.		/3	10	02 02	10	0L	10	02 000

From face of front tyres. Deduct 100 mm for loadcentre from front side of Stabilizer when applicable

For CH models only: With optional P(owered) P(ile) S(lope) function: deduct 310 mm

Full suspension seat in depressed position

These data are with the container carried 500 mm in front of the wheels (loadcentre 1720 mm)

Stacking aisle width is based on the VDI standard calculation as shown on illustration. The British Industrial Truck Association recommends the addition of 100 mm to the total clearance (dimension a) for extra operating margin at the rear of truck.

⁽⁷⁾ Gradeability figures are provided for comparison of tractive performance, but are not intended to endorse the operation of vehicle on the stated inclines.

RS46-29, RS46-33, RS46-36, RS46-41 INTERMODAL HANDLERS

	1-1	Manufacturer			HYS	TER	HYS	TER	HYS	TER	HYS	TER
	1-2	Model designation			RS46-2	9XD/62	RS46-3	3XD/62	RS46-3	6XD/62	RS46-4	1XD/67
	1-3	Drive			Die	sel	Die	sel	Die	sel	Die	sel
	1-4	Operator type			Sea	ted	Sea	ited	Sea	ited	Sea	ted
	1-5-1	Load capacity at load centre distance c ₁ without/with stabiliser	Q ₁	kg	45,000	n/a	45,000	n/a	46,000	n/a	46,000	n/a
ابا	1-5-2	Load capacity at load centre distance c ₂ without/with stabiliser	Q_2	kg	24,000	n/a	28,000	n/a	33,000	n/a	38,000	n/a
GENERAL	1-5-3	Load capacity at load centre distance c3 without/with stabiliser	Q ₃	kg	11,000	n/a	13,000	n/a	17,000	n/a	20,000	n/a
8	1-6-1	Load centre distance c ₁ (1)	C ₁	mm	1,8	65	1,8	65	1,8	65	1,8	65
	1-6-2	Load centre distance c ₂ (1)	C ₂	mm	3,8	15	3,8	15	3,8	15	3,8	15
	1-6-3	Load centre distance c ₃ (1)	C ₃	mm	6,3	15	6,3	115	6,3	115	6,3	15
	1-8	Load distance, ctr of drive axle to face of front tyres/front of stabiliser	х	mm	835	n/a	835	n/a	930	n/a	930	n/a
	1-9	Wheelbase	у	mm	6,2	00	6,2	200	6,2	200	6,7	00
	1-10	Stacking height at first row (number x container height)	,	#	5 x S		5 x 9		5 x 9		5 x 9	
١.	2-1	Service weight		kg	72,		76,		83,	200	86,5	
WEIGHT	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
	3-1	Tyre type		9	Pneu			matic	Pneu		Pneui	
	3-2	Tyre size, front			18.00-2		18.00-2		18.00-3		18.00-3	
ည	3-3	Tyre size, rear			18.00-2		18.00-2		18.00-3		18.00-3	
WHEELS	3-5	Wheels, number front / rear (X = driven wheels)			x4			/ 2	x4		x4	
	3-6	Tread, front	b ₁₀	mm	3,7		3,7		3,7		3,7	
	3-7	Tread, rear	b ₁₁	mm	3,0			160	3,0		3,0	
Н	4-1	Boom angle minimum / maximum	DII	(°)	0 /				0 /		0/	
	4-2	Height of boom lowered	h ₁	mm		0 / 59 0 / 59 4,700 4,700		4,795		4,795		
	4-4-1	Lift height at load centre c ₁ (2)	h _{3.1}	mm				14,875		14,875		
	4-4-2	Lift height at load centre c ₂ (2)	h _{3.2}	mm	13,				13,470		13,470	
	4-5	Height, boom extended	h ₄	mm	18,			110	18,205		18,205	
	4-7	Height of overhead guard (cabin)	h ₆	mm	3,7			20	3,8		3,8	
	4-8	Seat height to SIP (3)	h ₇	mm	2,5		2,5		2,6		2,6	
	4-15	Height under Twistlock - lowered (2)	h ₁₃	mm	88		88		98		98	
2	4-19	Overall length	l ₁	mm	8,3		8,3		8,6		9,1	
MENSIONS	4-20	Overall length including boom retracted		mm	11,		11,		12,		12,5	
	4-21-2	Overall width across all of truck										
ੂ =	4-21-3	Overall width across spreader 20'	b ₂ b _{1.20}	mm	4,2 6,1		4,2	00	4,2 6,1		4,2 6,1	
	4-21-3	Overall width across spreader 40'		mm		200		200	12,3		12,2	
	4-31	Ground clearance, lowest point	b _{1.40}	mm		96		200 96	31		31	
	4-31	Ground clearance, contre or wheelbase	m ₁			59		59	54		54	
1	4-32	,	M ₂	mm		639		639	13,		13,4	
	4-34-3	Aisle width: 20' container (5) (6) Aisle width: 40' container (5) (6)	Ast ₂₀	mm								
			Ast ₄₀	mm	14,4			403	14,		14,6	
	4-35	Outside turning radius	Wa	mm	8,4			20	9,2		9,3	
	4-36	Internal turning radius	b ₁₃	mm	1,5			000	2,0		2,4	
	5-1-1	Travel speed with / without load Travel speed with / without load becaused		km/h	20	23	20	23	20	25	19	22
ANC	5-1-2 5-2-1	Travel speed with / without load, backwards Lifting speed with / without load (260cc pump option)		km/h	20 0.24	23 0.47	20 0.24	23 0.47	20 0.24	25 0.47	19 0.24	22 0.47
DRM/	5-2-1	Lifting speed with / without load (294cc pump option)		m/s m/s	0.24	0.47	0.24	0.47	0.24	0.47	0.24	0.47
PERFORMANCE	5-3	Lowering speed with / without load		m/s	0.46	0.47	0.46	0.47	0.46	0.47	0.46	0.47
-	5-3 5-7	Gradeability - 1.6 km/h, with / without load (7)		%	22	36	22	36	19	34	18	32
	3- <i>1</i>	Gradeability - 1.0 Killyll, Witti / Wittibut IOdu (7)	95945	/0	22	30		30	13	J4	10	JZ

⁽¹⁾ From face of front tyres. Deduct 100 mm for loadcentre from front side of Stabilizer when applicable

⁽²⁾ For CH models only: With optional P(owered) P(ile) S(lope) function: deduct 310 mm

³⁾ Full suspension seat in depressed position

⁽⁵⁾ These data are with the container carried 500 mm in front of the wheels (loadcentre 1720 mm)

⁽⁶⁾ Stacking aisle width is based on the VDI standard calculation as shown on illustration. The British Industrial Truck Association recommends the addition of 100 mm to the total clearance (dimension a) for extra operating margin at the rear of truck.

⁽⁷⁾ Gradeability figures are provided for comparison of tractive performance, but are not intended to endorse the operation of vehicle on the stated inclines.

RS46-41 INTERMODAL HANDLERS <



	1-1	Manufacturer			HYS	TED	пло	TER	шус	TER	
	1-2	Model designation				XD/62S	RS46-41			XD/75S	
	1-3	Drive			Die		Diesel		Diesel		
	1-4	Operator type			Sea		Seated		Seated		
	1-5-1	Load capacity at load centre distance c ₁ without/with stabiliser	Q_1	kg	46,000	46,000	46,000	46,000	46,000	46,000	
	1-5-2	Load capacity at load centre distance c ₂ without/with stabiliser	Q ₂	kg	35,000	38,000	38,000	38,000	38,000	38,000	
GENERAL	1-5-3	Load capacity at load centre distance c ₃ without/with stabiliser	Q_3	kg	18,000	25,000	20,000	27,000	22,000	31,000	
GE	1-6-1	Load centre distance c ₁ (1)	C ₁	mm	1,8	865	1,8	65	1,865		
	1-6-2	Load centre distance c ₂ (1)	C ₂	mm	3,815		3,8	15	3,8	15	
	1-6-3	Load centre distance c ₃ (1)	C 3	mm	6,3	15	6,3	15	6,3	15	
	1-8	Load distance, ctr of drive axle to face of front tyres/front of stabiliser	х	mm	930	1030	930	1030	930	1030	
	1-9	Wheelbase	у	mm	6,2	200	6,7	00	7,5	00	
	1-10	Stacking height at first row (number x container height)		#	5 x 9	9′ 6″	5 x 9	9′ 6″	5 x 9	9′ 6″	
E	2-1	Service weight		kg	87,	500	88,	500	88,	500	
WEIGHT	2-2-1	Axle loading with load, front / rear at c_1		kg	111,000	22,500	111,000	23,500	110,055	24,488	
5	2-3-1	Axle loading without load, front / rear at c ₁		kg	44,200	43,300	45,800	42,700	46,900	41,600	
	3-1	Tyre type			Pneu	matic	Pneu	matic	Pneu	matic	
	3-2	Tyre size, front			18.00-3	3 36PR	18.00-3	3 36PR	18.00-3	3 36PR	
WHEELS	3-3	Tyre size, rear			18.00-3	3 36PR	18.00-3	3 36PR	18.00-3	3 36PR	
¥	3-5	Wheels, number front / rear (X = driven wheels)			x4	/ 2	x4	/ 2	x4	/ 2	
	3-6	Tread, front	b ₁₀	mm	3,7		3,7			03	
	3-7	Tread, rear	b ₁₁	mm	3,0		3,0			60	
	4-1	Boom angle minimum / maximum		(°)		59		0 / 59		58	
	4-2 4-4-1	Height of boom lowered	h ₁	mm	4,795		4,795 14,875		5,457 14,765		
	4-4-1	Lift height at load centre c_1 (2) Lift height at load centre c_2 (2)	h _{3.1}	mm		14,875 13,470		13,470		13,698	
	4-5	Height, boom extended	h ₄	mm	18,			18,205		18,420	
	4-7	Height of overhead guard (cabin)	h ₆	mm		115	3,815			15	
	4-8	Seat height to SIP (3)	h ₇	mm	2,6		2,6			50	
	4-15	Height under Twistlock - lowered (2)	h ₁₃	mm	98	30	98	30	1,835		
SNS	4-19	Overall length	I ₁	mm	8,7	'50	9,2	50	10,	050	
IMENSIONS	4-20	Overall length including boom retracted	l ₂	mm	12,	073	12,	573	13,	613	
DIME	4-21-2	Overall width across all of truck	b ₂	mm	4,2	100	4,2	:00	4,2	00	
	4-21-3	Overall width across spreader 20'	b _{1.20}	mm	6,1	00	6,1	00	6,1	00	
	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	25	50	25	50	25	50	
	4-32	Ground clearance, centre or wheelbase	m ₂	mm	54	14	54	14	54	14	
	4-34-3	Aisle width: 20' container (5) (6)	Ast ₂₀	mm	13,	330	13,	430	14,	780	
	4-34-4	Aisle width: 40' container (5) (6)	Ast ₄₀	mm		620	14,			370	
	4-35	Outside turning radius	Wa	mm		200	9,3			650	
	4-36	Internal turning radius	b ₁₃	mm	2,0		2,4		2,9		
	5-1-1	Travel speed with / without load		km/h	19	22	19	22	19	22	
PERFORMANCE	5-1-2 5-2-1	Travel speed with / without load, backwards Lifting speed with / without load (260cc pump option)		km/h m/s	0.24	0.47	19 0.24	0.47	19 0.24	0.47	
ORM	5-2-1	Lifting speed with / without load (294cc pump option)		m/s	0.24	0.47	0.24	0.47	0.24	0.47	
PERF	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 (7)		%	18	32	18	32	18	32	
		, , , , , , , , , , , , , , , , , , , ,		CONTRACTOR OF	100000000000000000000000000000000000000	CONTRACTOR N	5757878108408	CONTROL OF THE PARTY.	ALEX CALLS CO.	Marine Marine	

From face of front tyres. Deduct 100 mm for loadcentre from front side of Stabilizer when applicable

For CH models only: With optional P(owered) P(ile) S(lope) function: deduct 310 mm

Full suspension seat in depressed position

These data are with the container carried 500 mm in front of the wheels (loadcentre 1720 mm)

Stacking aisle width is based on the VDI standard calculation as shown on illustration. The British Industrial Truck Association recommends the addition of 100 mm to the total clearance (dimension a) for extra operating margin at the rear of truck.

⁽⁷⁾ Gradeability figures are provided for comparison of tractive performance, but are not intended to endorse the operation of vehicle on the stated inclines.

POWERTRAINS

귤	1-1	Manufacturer			HYSTER	HYSTER
GENERAL	1-2	Model designation			RS46 CH	RS46 IH
	1-3	Drive			Diesel	Diesel
	7-1	Engine manufacturer / model			Cummins	: QSM11
	7-1a	Emission legislation			Stage	HIIA
	7-2	Engine power rated to ISO 1585		kW	22	4
	7-2-1	Engine power, maximum		kW	22	4
ENGINE	7-3	Rated speed		min ⁻¹	2,1	00
ı	7-3-1	Engine torque @rpm		Nm/min ⁻¹	1424 @ 10	000-1400
	7-4	Number of cylinders / displacement		# / cm ³	6 / 10	,800
	7-8	Alternator output		Amps	15	0
	7-9	Electrical system voltage		V	24	1
	7-10-1	Battery voltage, rated capacity		V / Ah	24/	210
199						
	8-1	Drive control / Transmission		Type / #	Torque C	onverter
	8-2	Transmission manufacturer / type		Type / #	Spicer Off-Hig	hway / TE-30
Щ.	8-4	Transmission speeds forward / backward		#	5/	3
DRIVE	8-5	Coupling		Туре	Torque C	onverter
I -	8-6	Wheel drive / drive axle manufacturer / type		Type / #	Kessler / D102F	PL341/528-NLB
	8-11	Service brake		Туре	Oil immerse	d (wet) disc
	8-12	Parking brake		Туре	Spring applied, dry	disc on drive axle
-						
	9-1	Spreader manufacturer / type		Type / #	Elme / 817	Elme / 857
	9-1-1	Pile slope, mechanical without PPS		degrees	+/- 3	-
#		Pile slope, mechanical with PPS		degrees	+/-1.5	+/-1.5
SPREADER		Pile slope, total with PPS		degrees	+/- 6	+/- 6
E E	9-2	Size of containers		ft	ISO 20	
"	9-4	Side shift	b ₈	mm	+ 800 /	
	9-6-1	Rotation angle, without override		degrees	+12 / -12	+12 / -12
_	9-6-2	Rotation angle, with override		degrees	+105 / -195	+105 / -195
~						
	10-1	Operating pressure for attachments		bar	14	
	10-2	Oil volume for attachments		I/m	11	
	10-3	Hydraulic tank capacity		I .	62	
MISC	10-4	Fuel tank capacity		l .	85	
2		DEF/AdBlue Tank capacity		I	57	
	10-5	Steering design		ID(A)	Hydro	
9	10-7	Sound pressure level at driver's seat		dB(A)	78	
8	10-7-1	Sound pressure level at driver's seat	Lwaz	dB	On red	quest

> STANDARD EQUIPMENT AND OPTIONS

PERFORMANCE	STD	OPT
Cummins QSM11 Stage IIIA Diesel Engine: Power rating: nominal 224 kW @ 2100 rpm	Х	
Hydraulically driven on-demand cooling fan	Х	
Powertrain protection system	Χ	
Heavy duty air intake	Χ	
High mount exhaust	Χ	
Spicer Off-Highway 5-speed auto-shifting transmission	Х	
Kessler D102 drive axle with wet disc brakes	Х	
DRIVE	STD	OPT
Loaded Travel Speed Limiter pre-set to 20km/h depend on twist lock close signal	Х	
Travel speed limiter - unconditional (adjustable)		Х
Travel speed limiter - loaded (adjustable)	Х	
18.00 - 25 40 Pneumatic Bias Tyres (RS46-29XD - RS46-33XD)		Х
18.00 - 25 40PR Pneumatic Bridgestone STMS Slick Bias Tyres (RS46-29XD - RS46-33XD)		Х
18.00 x 25 Pneumatic Goodyear Bias Tyres (RS46-29XD - RS46-33XD)		Х
18.00 x 25-40 Pneumatic, E4 Bias Tyres		Х
18.00 x 25 Pneumatic Goodyear Slick Radial Tyres		Х
18.00 x 25 Continental Container Master E4 tyres	Х	
18.00 - 33 36 Pneumatic Bias Tyres (RS46-36XD - RS46-41XD)	Х	
18.00 x 33 Pneumatic Goodyear Slick Radial Tyres (RS46-36XD - RS46-41XD)		Х
Spare wheels and tyres		Х
Rear Tyre Life Enhancement		Х

LIFT	STD	OPT
260cc Pump Configuration with Dual 130cc Variable Displacement Pumps	Χ	
294cc Pump Configuration with Dual 147cc Variable Displacement Pumps		Χ
On-demand load sensing hydraulic system	Χ	
Automatic throttle-up when lifting (in neutral or inching)	Х	
2-stage telescoping Boom	Χ	
6-high 1st row stacking		Χ
Load Moment Indicator (integrated in dedicated display)	Х	
High speed hoist system - below 10 tons	Χ	
Hydraulic system temperature protection with performance de-rate		Χ
Digital Operator Display with Load Moment Indicator	Х	
SOLAS Container Weighing System - OIML R51 Compliant		Χ
Static Container Load Weight System With Printer		Х
Static Container Load Weight System Without Printer		Χ
HANDLING	STD	OPT
Hyster® 817 Top Pick Spreader 20-40ft Telescopic Spreader , capacity 40.000 kg, side shift +/- 800 mm	Х	
Hyster® 817 20-40ft Telescopic Spreader with Wide Twistlock Position (WTP)		Χ
Hyster® 857 Intermodal Spreader with integrated and foldable piggy back legs, capacity 40.000 kg, spread 20' - 40' side shift +/- 800 mm		Х
Soft landing system for spreader		Χ
Mechanical Pile Slope	Х	
Powered Pile Slope	IH	СН
Damping system +/- 5° on the longitudinal oscillating of the spreader.	Х	

STANDARD AND OPTIONAL EQUIPMENT



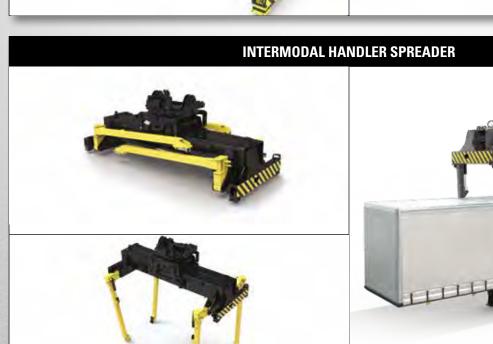
Tool changer Attachments for steel load handling Attachments for steel load handling Attachments for wind industry load handling Bumpers on Spreader as Guide for twistlocks (Mide) Bumpers on Spreader as Guide for twistlocks (Mide) Bumpers on Spreader as Guide for twistlocks (Mide) Automatic Hydraulic Spreader Stop at 20-40ft Position Automatic Hydraulic Stop at 20-40ft Position Automatic Hydraulic Spreader Stop at 20-40ft Position Automatic Hydraulic Stop Automatic Hydraulic Hydraulic Hydraulic Hydraulic Hydraulic Hydraulic Hydraulic		STD	0P
Attachments for steel load handling Attachments for wind industry load for twistlocks (Wide) Sumpers on Spreader as Guide for twistlocks (Wide) Automated One-touch Spreader Stop at 20-40f Position 30 Hydraulic Stop for Telescopic Spreader Vertical Lift System VISIBILITY STD Off VISIBILITY STD Off Automatic Hydraulic Spreader Stop at 20-40f Position 30 Hydraulic Stop for Telescopic Spreader Vertical Lift System VISIBILITY STD Off VISIBILITY STD Off Automatic Hydraulic Spreader Stop at 20-40f Position 30 Hydraulic Stop for Telescopic Spreader Vertical Lift System VISIBILITY STD Off VISIBILITY ST	Powered dampening cylinders	IH	CH
Attachments for wind industry load handling Barge container handling 4 Lifting Eyes mounted under the spreader, at 1.33m centre to centre 4 Lifting Eyes mounted mear twistlocks, 10t each Bumpers on Spreader as Guide for twistlocks (Wide) Bumpers on Spreader as Guide for twistlocks (Warrow) Automated One-touch Spreader Extend/Retract (20'-40') Automated Une-touch Spreader Extend/Retract (20'-40') Automatic Hydraulic Spreader Extend/Retract (20'-40') Automatic Hydraulic Stop for Telescopic Spreader Vertical Lift System Vertical Lift System Vertical Lift System VisiBILITY STD 01 Z External Mirrors on Front Fenders External wide angle mirrors mounted on rear of front fenders X External wide angle mirrors mounted on top of front fenders Rear Mounted Colour Camera with front mounted LCD Display Rear Mounted Colour Camera with rear mounted LCD Display Rear Mounted Colour Camera with rear mounted LCD Display Two Twist Lock Cameras Mounted on Spreader Halogen work lights LED work lights LED work lights LED twistlock indicator lights LED twistlock indicator lights LED twistlock indicator lights LED trurn signals, hazard & marker lights X EEB OSO/MICS Enclosed Operator Cabin with Automatic Climate Control Top Window with Armoured Glass (FOPS Certified) Top Window with Armoured Glass (FOPS Certified) Top Window with Armoured Glass (FOPS Certified) X Top Window with Armoured Glass (FOPS Certified) X Devered full-listing cabin (up to 9.m from the rear position), including rear view mirrors, front rail, right side stairway, and handrails Level Find and Additional mirrors on top of fenders Powered full-listing cabin (up to 2.m from the rear position) X Depreader of the Seat with Cloth Cover Deluxe Air Suspension Seat with C	Tool changer		Х
Barge container handling A Lifting Eyes mounted under the spreader, at 1.33m centre to centre Lifting Eyes mounted under the wistlocks, 10t each Bumpers on Spreader as Guide for twistlocks (Wide) Sumpers on Spreader as Guide for twistlocks (Wide) Sumpers on Spreader as Guide for twistlocks (Wide) Automated One-touch Spreader Extend/Retract (20-40') Automated One-touch Spreader Extend/Retract (20-40') Automated Chacuchus Spreader Extend/Retract (20-40') Automatic Hydraulic Spreader Stop at 20-40ft Position 30' Hydraulic Stop for Telescopic Spreader Vertical Lift System VISIBILITY STD Off External Mirrors on Front Fenders External wide angle mirrors mounted on rear of front fenders Heated Mirrors Rear Mounted Colour Camera with front mounted LCD Display Rear Mounted Colour Camera with rear mounted LCD Display Rear Mounted Colour Camera with rear mounted LCD Display Nov Twist Lock Cameras Mounted on Spreader Halogen work lights LED twork lights LED twork lights LED twork lights LED twork lights LED Turn signals, hazard & marker lights X LED Stop/tail/brake lights LED Turn signals, hazard & marker lights Exercised Operator Cabin with Automatic Climate Control Top Window with Armoured Glass (FOPS Certified) Top Wind			Х
4 Lifting Eyes mounted under the spreader, at 1.33m centre to centre 4 Lifting Eyes mounted near twistlocks, (10 each 8 Lifting Eyes mounted near twistlocks, (Wirde) 8 Limpers on Spreader as Guide for twistlocks (Narrow) 9 Automated One-touch Spreader Extend/Retract (20~40') 9 Automated One-touch Spreader Extend/Retract (20~40') 9 Automated One-touch Spreader Stop at 20~40f Position 9 Yertical Lift System 9 Vertical Lift System System Seat with Cloth Cover 1 Vertical Lift System System Seat Vertical Cloth Seat 1 Vertical System System Seat Vertical Cloth Seat 1 Vertical System System Seat Vertical Cloth Seat 1 Vertical Lift System System Seat Vertical Cloth Seat 1 Vertical System System Seat Vertical Cloth Seat 1 Ve			Х
4 Lifting Eyes mounted near twistlocks, 10t each Bumpers on Spreader as Guide for twistlocks (Wirde) Sumpers on Spreader as Guide for twistlocks (Warrow) Automated One-touch Spreader Extend/Retract (20'-40') Automatic Hydraulic Spreader Stop at 20-40ft Position 30 Hydraulic Stop for Telescopic Spreader Vertical Lift System 31 Hydraulic Stop for Telescopic Spreader 32 External Mirrors on Front Fenders External wide angle mirrors mounted on rear of front fenders External wide angle mirrors mounted on top of front fenders External wide angle mirrors mounted on top of front fenders H			X
Bumpers on Spreader as Guide for twistlocks (Wide) Bumpers on Spreader as Guide for twistlocks (Narrow) Automated One-touch Spreader Extend/Retract (20-40') Automated Charchouch Spreader Extend/Retract (20-40') Automatic Hydraulic Spreader Stop at 20-40ft Position 30' Hydraulic Stop for Telescopic Spreader Vertical Lift System VISIBILITY STD 01 Ze External Mirrors on Front Fenders External wide angle mirrors mounted on rear of front fenders External wide angle mirrors mounted on top of front fenders External wide angle mirrors mounted on top of front fenders External wide angle mirrors mounted on top of front fenders External wide angle mirrors mounted on top of front fenders External wide angle mirrors mounted to Display Rear Mounted Colour Camera with front mounted LCD Display Facer Mounted Colour Camera with rear mounted LCD Display Two Twist Lock Cameras Mounted on Spreader Halogen work lights LED twistlock indicator lig			Х
Bumpers on Spreader as Guide for twistlocks (Narrow) Automated One-touch Spreader Extend/Retract (20°-40°) Automated One-touch Spreader Extend/Retract (20°-40°) 30° Hydraulic Stop for Telescopic Spreader Vertical Lift System Vertical Lift System VisiBiLITY STO 20° External Mirrors on Front Fenders External wide angle mirrors mounted on rear of front fenders External wide angle mirrors mounted on rear of front fenders External wide angle mirrors mounted on top of front fenders External wide angle mirrors mounted to Display Rear Mounted Colour Camera with front mounted LCD Display Rear Mounted Colour Camera with front mounted LCD Display Rear Mounted Colour Camera with rear mounted LCD Display Rear Mounted Colour Camera with rear mounted LCD Display Rear Mounted Colour Camera with rear mounted LCD Display Rear Mounted Colour Camera with rear mounted LCD Display Rear Mounted Colour Camera with rear mounted LCD Display Rear Mounted Colour Camera with rear mounted LCD Display Rear Mounted Colour Camera with rear mounted LCD Display Rear Mounted Colour Camera with rear mounted LCD Display Rear Mounted Colour Camera with rear mounted LCD Display Rear Mounted Colour Camera with rear mounted LCD Display Rear Mounted Colour Camera with rear mounted LCD Display Rear Mounted Colour Camera with rear position, with the Colour Camera with Automatic Climate Control Top Window with Armoured Glass (FOPS Certified) T		Х	
Automated One-touch Spreader Extend/Retract (20'-40') Automatic Hydraulic Spreader Stop at 20-40ft Position 30 Hydraulic Stop for Telescopic Spreader Vertical Lift System 31 Hydraulic Stop for Telescopic Spreader VISIBILITY STD 06 22 External Mirrors on Front Fenders External wide angle mirrors mounted on rear of front fenders External wide angle mirrors mounted on top of front fenders External wide angle mirrors mounted on top of front fenders External wide angle mirrors mounted on top of front fenders External wide angle mirrors mounted t.CD Display Rear Mounted Colour Camera with front mounted LCD Display From Twist Lock Cameras Mounted on Spreader Halogen work lights LED work lights LED work lights LED work lights LED twistock indicator lights LED topisal/brake lights LED topisal/brake lights LED trun signals, hazard & marker lights External wide angle mirrors External wide angle mirrors mounted LCD Display The stop frail/brake lights LED Turn signals, hazard & marker lights External wide angle mirrors From the mirror son front fenders Powered operator Cabin with Heating X Enclosed Operator Cabin with Heating X Enclosed Operator Cabin with Automatic Climate Control Top Window with Armoured Glass (FOPS Certified) X From Window with Armoured Glass (FOPS Certified) X Powered partial-sliding cabin (up to 0.9m from the rear position), including additional mirrors on top to fenders Powered full-sliding cabin (up to 0.9m from the rear position), including additional mirrors on top to fenders Powered full-sliding cabin (up to 2.5m from the rear position), including dear view mirrors, front rail, right side stairway, and handrails Elevating operator cabin Solated mounting for low noise and vibration X Deperator presence system X Mechanical Suspension Cloth Seat Deluxe Air Suspension Seat with Cloth Cover Deluxe Air Suspension Seat with Cloth Cover Deluxe Air Suspension Seat with Cloth Cover Deluxe Air Suspension Seat with Cloth Cover, Heating, Ventilation Deluxe Air			X
Automatic Hydraulic Spreader Stop at 20-40ft Position 30 Hydraulic Stop for Telescopic Spreader Vertical Lift System VISIBILITY STD 01 External Mirrors on Front Fenders External Wide angle mirrors mounted on rear of front fenders External wide angle mirrors mounted on rear of front fenders External wide angle mirrors mounted on top of front fenders Heated Mirrors Rear Mounted Colour Camera with front mounted LCD Display Rear Mounted Colour Camera with rear mounted LCD Display Two Twist Lock Cameras Mounted on Spreader Halogen work lights LED work lights High performance LED work lights LED twistlock indicator lights LED twistlock indicator lights LED trun signals, hazard & marker lights Exergonomics Enclosed Operator Cabin with Heating Enclosed Operator Cabin with Hutomatic Climate Control Top Window with Armoured Glass (FOPS Certified) Top Window with Armoured Glass (FOPS Certified) and Additional Steel Bars Top Window with Armoured Glass (FOPS Certified) Two Great Power and Listing cabin (up to 0.9m from the rear position), including rear view mirrors, front rail, right side stairway, and handrails Elevating operator cabin Solated mounting for low noise and vibration Depreator presence system Mechanical Suspension Cloth Seat Mechanical Suspension Vinyl Seat Deluxe Air Suspension Seat with Vinyl Cover Air Suspension Seat with Vinyl Cover Air Suspension Seat with Vinyl Cover Air Suspension Seat with Loth Cover, Heating and Ventilation Deluxe Air Suspension Seat with Cloth Cover, Heating and Ventilation Deluxe Air Suspension Seat with Cloth Cover, Heating and Ventilation Deluxe Air Suspension Seat with Cloth Cover, Heating and Ventilation Deluxe Air Suspension Seat with Cloth Cover, Heating and Ventilation Deluxe Air Suspension Seat with Cloth Cover, Heating and Ventilation Deluxe Air Suspension Seat with Cloth Cover, Heating Aventilation The Count of the Cover Seat Heat Cloth Seat Deluxe Air Suspension Cloth Seat Machanical Suspension Cloth Seat Machanical Suspension Cloth Seat Machanical Suspension Cloth			X
Wertical Lift System			X
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Deluxe Air Suspension Seat with Cloth Cover, Heating and Ventilation Deluxe Air Suspension Seat with Cloth Cover, Heating, Ventilation High and Adjustable Seat Backrest Hi-Vis Red 2 Point Seat Belt K Hi-Vis Red 3 Point Seat Belt K Coat hook K Front, top and rear wipers K H'-pattern front wiper K Front and rear window defrosters K Left side handrails, stairway and cabin door K Handrails and Platform on Counterweight Dual 7" Digital Display Hydraulics controlled by Joystick Directional Control on Joystick Additional Armrest on Left Side Manual park brake Park Brake - Automatic Steering wheel spinner knob Telescoping & tilting steering column DC/DC 12/24V Converter with 1 Power Socket and 2 USB Outlets	Deluxe Air Suspension Cloth Seat		Х
Deluxe Air Suspension Seat with Cloth Cover, Heating, Ventilation High and Adjustable Seat Backrest Hi-Vis Red 2 Point Seat Belt X Hi-Vis Red 3 Point Seat Belt X Coat hook X Front, top and rear wipers X'	Deluxe Air Suspension Heated Cloth Seat		Х
Deluxe Air Suspension Seat with Cloth Cover, Heating, Ventilation High and Adjustable Seat Backrest Hi-Vis Red 2 Point Seat Belt X Hi-Vis Red 3 Point Seat Belt X Coat hook X Front, top and rear wipers X'	Deluxe Air Suspension Seat with Cloth Cover, Heating and Ventilation		Х
High and Adjustable Seat Backrest Hi-Vis Red 2 Point Seat Belt X Hi-Vis Red 3 Point Seat Belt X Floor mat X Coat hook X Front, top and rear wipers X "H"-pattern front wiper X Front and rear window defrosters X Left side handrails, stairway and cabin door X Left side handrails, stairway and cabin door X Handrails and Platform on Counterweight Dual 7" Digital Display Hydraulics controlled by Joystick X Additional Armrest on Left Side Manual park brake Park Brake - Automatic Steering wheel spinner knob Telescoping & tilting steering column X DC/DC 12/24V Converter with 1 Power Socket and 2 USB Outlets	Deluxe Air Suspension Seat with Cloth Cover, Heating, Ventilation		Х
Hi-Vis Red 2 Point Seat Belt X Hi-Vis Red 3 Point Seat Belt Coat hook X Front, top and rear wipers X''-pattern front wiper Y''-pattern front wiper X Front and rear window defrosters Left side handrails, stairway and cabin door X Left side handrails, stairway and cabin door X Left side stair lights Right side handrails, stairway and cabin door Handrails and Platform on Counterweight Dual 7" Digital Display Hydraulics controlled by Joystick Directional Control on Joystick X Additional Armrest on Left Side Manual park brake Park Brake - Automatic Steering wheel spinner knob Telescoping & tilting steering column X DC/DC 12/24V Converter with 1 Power Socket and 2 USB Outlets			Х
Hi-Vis Red 3 Point Seat Belt	Hi-Vis Red 2 Point Seat Belt	Χ	
Floor mat	Hi-Vis Red 3 Point Seat Belt		Х
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 Left side stair lights X Right side handrails, stairway and cabin door X Handrails and Platform on Counterweight X Dual 7" Digital Display X Hydraulics controlled by Joystick X Directional Control on Joystick X Additional Armrest on Left Side X Manual park brake X Park Brake - Automatic X Steering wheel spinner knob X Telescoping & tilting steering column X DC/DC 12/24V Converter with 1 Power Socket and 2 USB Outlets >	Floor mat	Х	
Front, top and rear wipers "H"-pattern front wiper "I"-pattern front wiper X Front and rear window defrosters Left side handrails, stairway and cabin door Left side stair lights Right side handrails, stairway and cabin door Handrails and Platform on Counterweight Dual 7" Digital Display Hydraulics controlled by Joystick X Directional Control on Joystick X Additional Armrest on Left Side Manual park brake Park Brake - Automatic Steering wheel spinner knob X Telescoping & tilting steering column X DC/DC 12/24V Converter with 1 Power Socket and 2 USB Outlets	Coat hook		
H'-pattern front wiper 'I'-pattern front wiper Front and rear window defrosters Left side handrails, stairway and cabin door Left side stair lights Right side handrails, stairway and cabin door Handrails and Platform on Counterweight Dual 7" Digital Display Hydraulics controlled by Joystick X Directional Control on Joystick X Additional Armrest on Left Side Manual park brake Park Brake - Automatic Steering wheel spinner knob X Telescoping & tilting steering column X DC/DC 12/24V Converter with 1 Power Socket and 2 USB Outlets			
T'I'-pattern front wiper X Front and rear window defrosters X Left side handrails, stairway and cabin door X Left side stair lights Right side handrails, stairway and cabin door Handrails and Platform on Counterweight Dual 7" Digital Display Hydraulics controlled by Joystick Directional Control on Joystick Additional Armrest on Left Side Manual park brake Park Brake - Automatic Steering wheel spinner knob Telescoping & tilting steering column DC/DC 12/24V Converter with 1 Power Socket and 2 USB Outlets X Left side handrails, stairway and cabin door X X Additional Armrest on Left Side X Additional Armrest on Left Side X DC/DC 12/24V Converter with 1 Power Socket and 2 USB Outlets X			Х
Front and rear window defrosters X Left side handrails, stairway and cabin door X Left side stair lights	"H"-pattern front wiper		<u> </u>
Left side handrails, stairway and cabin door Left side stair lights Right side handrails, stairway and cabin door Handrails and Platform on Counterweight Dual 7" Digital Display Hydraulics controlled by Joystick X Directional Control on Joystick X Additional Armrest on Left Side Manual park brake Park Brake - Automatic Steering wheel spinner knob X Telescoping & tilting steering column DC/DC 12/24V Converter with 1 Power Socket and 2 USB Outlets	"H"-pattern front wiper "I"-pattern front wiper	Х	
Left side stair lights Right side handrails, stairway and cabin door Handrails and Platform on Counterweight Dual 7" Digital Display Hydraulics controlled by Joystick X Directional Control on Joystick X Additional Armrest on Left Side Manual park brake Park Brake - Automatic Steering wheel spinner knob X Telescoping & tilting steering column X DC/DC 12/24V Converter with 1 Power Socket and 2 USB Outlets	"I"-pattern front wiper		
Right side handrails, stairway and cabin door Handrails and Platform on Counterweight Dual 7" Digital Display Hydraulics controlled by Joystick X Directional Control on Joystick X Additional Armrest on Left Side X Manual park brake Park Brake - Automatic Steering wheel spinner knob X Telescoping & tilting steering column X DC/DC 12/24V Converter with 1 Power Socket and 2 USB Outlets	"I"-pattern front wiper Front and rear window defrosters	Χ	
Handrails and Platform on Counterweight Dual 7" Digital Display X	"I"-pattern front wiper Front and rear window defrosters Left side handrails, stairway and cabin door	Χ	Х
Dual 7" Digital Display X Hydraulics controlled by Joystick X Directional Control on Joystick X Additional Armrest on Left Side X Manual park brake X Park Brake - Automatic > Steering wheel spinner knob X Telescoping & tilting steering column X DC/DC 12/24V Converter with 1 Power Socket and 2 USB Outlets >	"I"-pattern front wiper Front and rear window defrosters Left side handrails, stairway and cabin door Left side stair lights	Χ	
Hydraulics controlled by Joystick	"I"-pattern front wiper Front and rear window defrosters Left side handrails, stairway and cabin door Left side stair lights Right side handrails, stairway and cabin door	Χ	Х
Directional Control on Joystick	"I"-pattern front wiper Front and rear window defrosters Left side handrails, stairway and cabin door Left side stair lights Right side handrails, stairway and cabin door Handrails and Platform on Counterweight	X	Х
Additional Armrest on Left Side X Manual park brake X Park Brake - Automatic Steering wheel spinner knob X Telescoping & tilting steering column X DC/DC 12/24V Converter with 1 Power Socket and 2 USB Outlets	"I"-pattern front wiper Front and rear window defrosters Left side handrails, stairway and cabin door Left side stair lights Right side handrails, stairway and cabin door Handrails and Platform on Counterweight Dual 7" Digital Display	X X	Х
Manual park brake X Park Brake - Automatic >> Steering wheel spinner knob X Telescoping & tilting steering column X DC/DC 12/24V Converter with 1 Power Socket and 2 USB Outlets >>	"I"-pattern front wiper Front and rear window defrosters Left side handrails, stairway and cabin door Left side stair lights Right side handrails, stairway and cabin door Handrails and Platform on Counterweight Dual 7" Digital Display Hydraulics controlled by Joystick	X X X X	Х
Park Brake - Automatic Steering wheel spinner knob Telescoping & tilting steering column X DC/DC 12/24V Converter with 1 Power Socket and 2 USB Outlets	"I"-pattern front wiper Front and rear window defrosters Left side handrails, stairway and cabin door Left side stair lights Right side handrails, stairway and cabin door Handrails and Platform on Counterweight Dual 7" Digital Display Hydraulics controlled by Joystick Directional Control on Joystick	X X X X	Х
Steering wheel spinner knob X Telescoping & tilting steering column X DC/DC 12/24V Converter with 1 Power Socket and 2 USB Outlets	"I"-pattern front wiper Front and rear window defrosters Left side handrails, stairway and cabin door Left side stair lights Right side handrails, stairway and cabin door Handrails and Platform on Counterweight Dual 7" Digital Display Hydraulics controlled by Joystick Directional Control on Joystick Additional Armrest on Left Side	X X X X X	Х
Telescoping & tilting steering column X DC/DC 12/24V Converter with 1 Power Socket and 2 USB Outlets	"I"-pattern front wiper Front and rear window defrosters Left side handrails, stairway and cabin door Left side stair lights Right side handrails, stairway and cabin door Handrails and Platform on Counterweight Dual 7" Digital Display Hydraulics controlled by Joystick Directional Control on Joystick Additional Armrest on Left Side Manual park brake	X X X X X	X
DC/DC 12/24V Converter with 1 Power Socket and 2 USB Outlets	"I"-pattern front wiper Front and rear window defrosters Left side handrails, stairway and cabin door Left side stair lights Right side handrails, stairway and cabin door Handrails and Platform on Counterweight Dual 7" Digital Display Hydraulics controlled by Joystick Directional Control on Joystick Additional Armrest on Left Side Manual park brake Park Brake - Automatic	X X X X X X	Х
	"I"-pattern front wiper Front and rear window defrosters Left side handrails, stairway and cabin door Left side stair lights Right side handrails, stairway and cabin door Handrails and Platform on Counterweight Dual 7" Digital Display Hydraulics controlled by Joystick Directional Control on Joystick Additional Armrest on Left Side Manual park brake Park Brake - Automatic Steering wheel spinner knob	X X X X X X	X
	"I"-pattern front wiper Front and rear window defrosters Left side handrails, stairway and cabin door Left side stair lights Right side handrails, stairway and cabin door Handrails and Platform on Counterweight Dual 7" Digital Display Hydraulics controlled by Joystick Directional Control on Joystick Additional Armrest on Left Side Manual park brake Park Brake - Automatic Steering wheel spinner knob Telescoping & tilting steering column	X X X X X X	X

ERGONOMICS (continued)	STD	OPT
Reading light		Х
Top and Rear Screen Roller Sunshade		Х
2 Sun Visors for Front Window		Х
Sunshades in Operator Cabin		Х
Trainer Seat with Cloth Cover and 2-point High-Visibility Seatbelt		Х
Recirculation fan		Х
Additional Operator Fan in Cabin		Х
Accessory Mounting Bar on A-Pillar		Х
Heated Top and Rear Windows		Х
Heated Rear Window		Х
Heated Top Window		Х
Tinted Cabin Windows - Applied to all Windows (SPED)		Х
Tinted Top Cabin Window (SPED)		X
Radio Preparation with 2 Speakers and Antenna		X
Bluetooth Radio with 2 Speaker and Antenna		Х
OPERATION	STD	0PT
Emergency Hydraulic Stop on Armrest		Х
Air horn 112 dB	Х	
Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting	Х	
Audible Alarm - Forward / Reverse		Х
Audible White Noise Reverse Alarm		Х
Visible alarm – Strobe Light	Х	
Rear Radar Object Detection System		Х
Truck Start – Key switch with Start Button – without Seatbelt Interlock	Х	
Truck Start – Key switch with Start Button – with Seatbelt Interlock		х
non-sequenced Truck Start – Key switch with Start Button with Seatbelt Interlock on		
Sequence		Х
Tyre pressure monitoring system		Х
Lockable battery disconnect switch	Х	
Battery jump start connection (NATO plug)		Х
Automatic Truck Shutdown with Timer		Х
Automatic Climate Control Shut-off with Open Door		Х
Delayed Engine Shutdown for Turbo Cooldown		Х
Lockable Fuel Cap		Х
Non-Lockable Fuel Cap	Х	
Stainless Steel diesel fuel inlet strainer in filler neck		Х
Hyster Tracker wireless asset management system	Х	
Hyster Tracker wireless asset management - monitoring		Х
Hyster Tracker wireless asset management - access / verification		Х
Automatic Grease Basic Truck and Outer Boom		X
Automatic Grease Spreader 817 with mechanical PPS and Inner Boom		Х
Automatic Grease Spreader 817 with powered pile slope and Inner Boom	_	X
Steer Axle with Wheel Nut Protection	Х	-
Automatic Fire Suppression System		X
Fuses Partially Replaced by Electric Circuit Breakers		X
Operator password (display) for Truck Start	V	X
Engine Oil Level on Display	Х	X
Engine Oil level on Display and Dipstick Coolant level warning on display	Х	
Coolant level warning on display and Sight glass	^	
Diesel Fueled Cab Heater (SPED)		X
	CTD	
APPEARANCE History college point base truck and appead or	STD	OPT
Hyster yellow paint base truck and spreader	Х	-
Special paint base truck and spreader Red/White Retroreflective		X
SUPPLEMENTAL	CTD	OPT
	STD	UPI
Literature package *	Х	$\vdash \vdash \vdash$
Warranty: 24 Months / 4,000 Hours Parts & Labour manufacturer's warranty	Х	
Warranty: 12 Months / 2,000 Hours Parts & Labour manufacturer's		\neg
warranty		Х

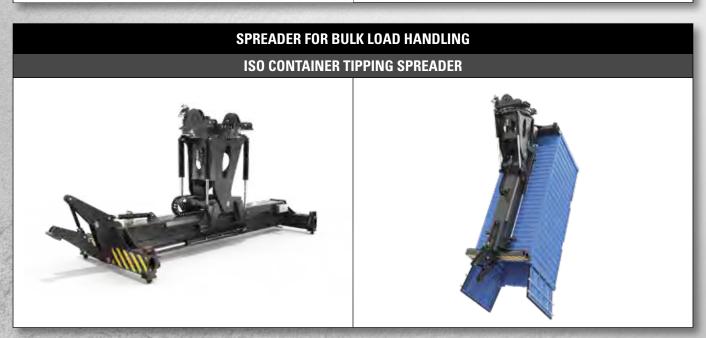
^{*}Standard or Optional in select markets or on select models. Other options available through Special Products Engineering Department (SPED). Contact Hyster for details.

FRONT END EQUIPMENT



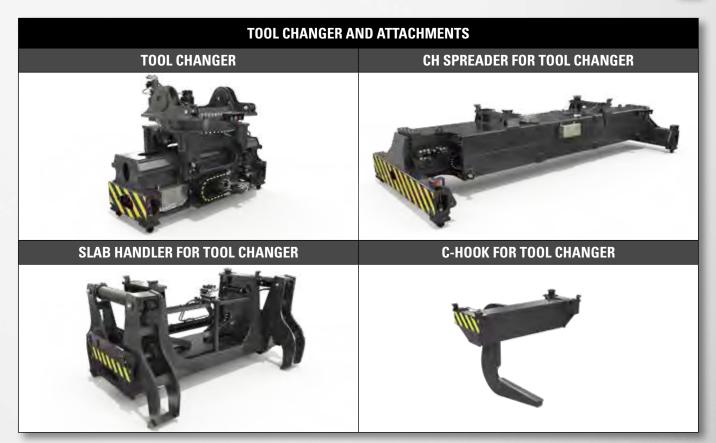




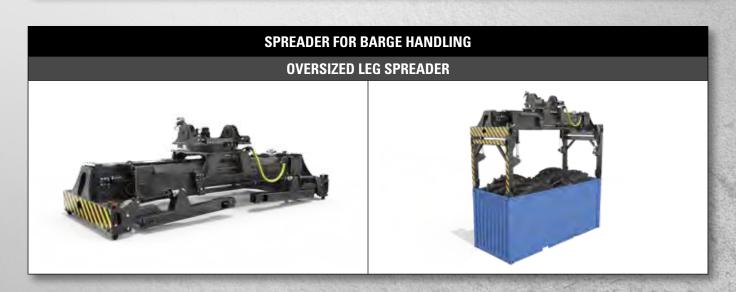


FRONT END EQUIPMENT <









HYSTER® DEALERS





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