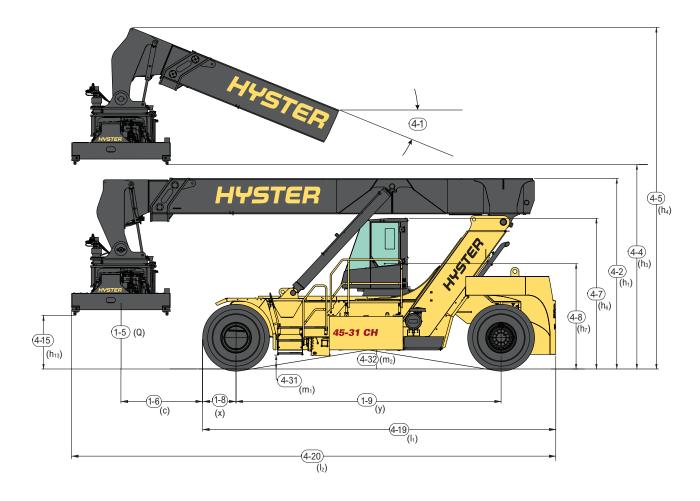


REACHSTACKER PRODUCT TECHNICAL GUIDE



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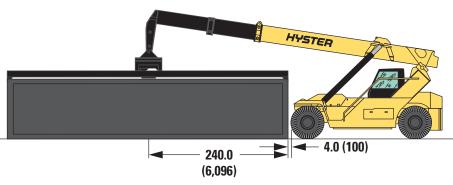
DIMENSIONS



20'-0 END ON LIFTING CAPACITIES

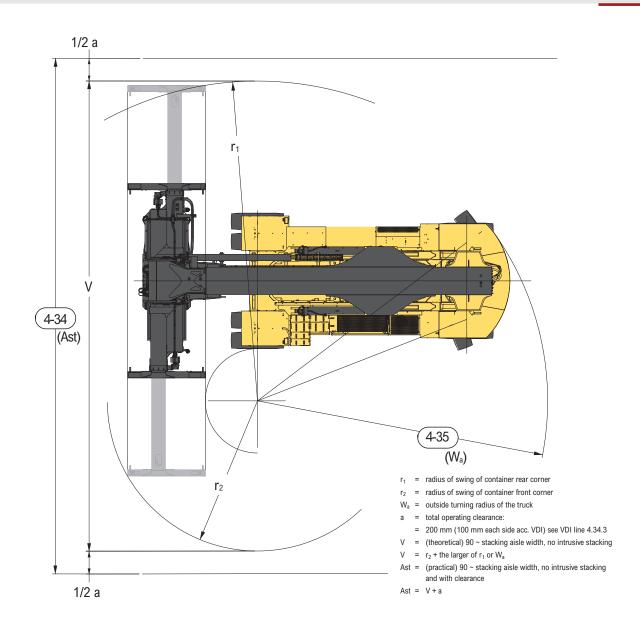
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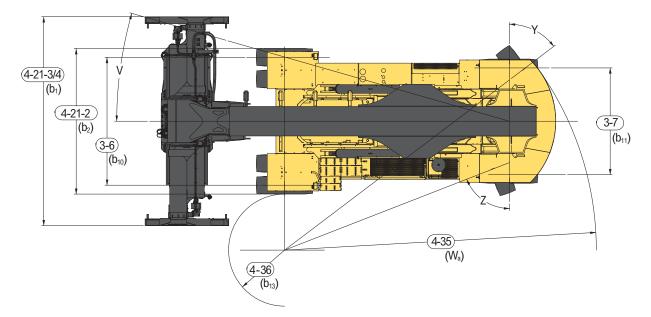
40'-0 END ON LIFTING CAPACITIES



MAXIMUM CAPACITY CONTAINER PICKING END TO END					
MODEL	20'	40'			
MODEL	kg	kg			
RS45-27	31,000	12,300			
RS45-31	34,000	15,000			

DIMENSIONS





RS 45-27, RS 45-31 CONTAINER HANDLERS

	1-1	Manufacturer					HYS.	TER			нус	TER		
	1-2	Model designation					RS45-				RS45-			
	1-2	•												
	1-3	Powertrain/drivetrain Operator type					Die				Die			
	1-4		Q1	lla	ka	99,2	Sea		000	00.0	Sea		200	
		Load capacity at load center distance c1		lb	kg				000	99,2		45,0		
RAL	1-5-2	Load capacity at load center distance c2	Q2	lb	kg	59,5			000	68,3		31,0		
GENERAL	1-5-3	Load capacity at load center distance c3	Q3	lb	kg	27,1			300	33,0		15,0		
	1-6-1	Load center distance c1 (1)	c1	in	mm	62			565	62		1,5		
	1-6-2	Load center distance c2 (1)	c2	in	mm	15			315	15		3,8		
	1-6-3	Load center distance c3 (1)	c3	in	mm	24			315	24		6,3		
	1-8	Load distance	Х	in	mm	33		83		33		83		
	1-9	Wheelbase	у	in	mm	25			500	25		6,5	00	
	1-10	Stacking height at first row		#			5 x 9					9' 6"		
토	2-1	Service weight		lb	kg	137,			300	143,		65,3		
WEIGHT	2-2-1	Axle loading with load (c1), front/rear		lb	kg	205,030	93,000	31,526	14,300	204,589	92,800	38,581	17,500	
_	2-3-1	Axle loading without load (c1), front/rear		lb	kg	69,225	31,400	68,123	30,900	68,784	31,200	75,178	34,100	
	3-1	Tire type		Тур	e		Pneur	natic			Pneu	Pneumatic		
	3-2	Tire size, front					18.00-2	5 40PR			18.00-2	5 40PR		
WHEELS	3-3	Tire size, rear					18.00-2	5 40PR		18.00-25 40PR				
MH	3-5	Number of tires, front/rear (X driven)					x4,	/2			x4	/2		
	3-6	Tread, front	b10	in	mm	14	6	3,7	703	14	6	3,7	03	
	3-7	Tread, rear	b11	in	mm	12	0	3,0)60	12	120 3,060		60	
	4-1	Boom angle minimum/maximum	0	Degr	ees	0/59					0/59			
	4-2	Height of boom lowered	h1	in	mm	18	5	4,7	700	18	5	4,7	00	
	4-4-1	Lift height at load center c1 (2)	h3.1	in	mm	59	4	15,	080	59	4	15,0	080	
	4-4-2	Lift height at load center c2 (2)	h3.2	in	mm	53	0	13,	470	53	0	13,4	470	
	4-4-3	Lift height at load center c3 (2)	h3.3	in	mm	40	6	10,	320	40	6	10,3	320	
	4-5	Height, boom extended	h4	in	mm	71	3	18,	110	71	3	18,	110	
	4-7	Height of overhead guard (cabin)	h6	in	mm	14	6	3,7	20	14	6	3,7	20	
	4-8	Seat height to SIP (3)	h7	in	mm	10	1	2,5	555	10	1	2,5	55	
	4-15	Height under twistlock - lowered (2)	h13	in	mm	50	D	1,2	275	50)	1,2	75	
SNOI	4-19	Overall length	11	in	mm	34	1	8,6	60	34	1	8,6	60	
MENSIONS	4-20	Overall length including boom retracted	12	in	mm	46	8	11,	875	46	8	11,8	375	
DIN	4-21-2		b2	in	mm	16	5	4,2	200	16	5	4,2	00	
	4-21-3	Overall width across spreader 20'	b1.20	in	mm	24	0	6,1	00	24	0	6,1	00	
	4-21-4	Overall width across spreader 40'	b1.40	in	mm	48	0	12,	200	48	0	12,2	200	
	4-28	Reach distance	14	in	mm	170 4,310		310	170		4,310			
	4-31	Ground clearance, lowest point	m1	in	mm	11 285		35	11		285			
	4-32	Ground clearance, center or wheelbase	m2	in	mm	17 437		37	17	7	43	37		
	4-34-2	Aisle width: 20' Container REDUCED/FULL stroke (4)	Ast 20	in	mm	493	12,520	470	11,950	493	12,520	470	11,950	
	4-34-7	Aisle width: 40' Container REDUCED/FULL stroke (4)	Ast 40	in	mm	553	14,040	544	13,830	553	14,040	544	13,830	
	4-35	Outside turning radius, reduced/full stroke	Wa	in	mm	354	8,990	333	8,450	354	8,990	333	8,450	
	4-36	Internal turning radius, reduced/full stroke	b13	in	mm	64	1,620	41	1,040	64	1,620	41	1,040	
		POWERTRAIN SECTION					L9 Tier 3 E	-				ngine - TE		
NCE	<u>5-1</u> 5-2	Travel speed, with/without load		mph ft/min	km/h	12.4	20	14.3 81	23	12.4	20	14.3 81	23	
RMA	5-2 5-3	Lifting speed, with/without load Lowering speed, with/without load		ft/min ft/min	m/s m/s	47 89	0.24	81 89	0.41 0.45	47 89	0.24	81 89	0.41	
PERFORMANCE	5-4-1	Telescoping speed, 20'/40'		Sec	sec		9		0.10	00	0.40		0.70	
PE	5-5	Drawbar pull - 1 mph 1.6 km/h, with/without load		lb	kN	69,241	308	71,040	316	68,567	305	70,365	313	
	5-7	Gradeability - 1 mph (1.6 km/h), with/without load (7)		%		24	4	3	8	23	3	3	6	

POWERTRAINS

	7-1	Engine manufacturer/type			Cummins/	1910		
	7-1a	EPA Tier Compliance				Tier 3/Stage IIIA		
	7-2	Engine power - rated	hp	kW	304@2,000	227@2,000		
	7-2-1	Engine power - peak	hp	kW	331@1,700	247@1,700		
	7-3	Rated speed	rpm	rpm	2,000	= 1		
ENGINE	7-3-1	Engine torque @ rpm (1/min)	lb-ft	N-m	1,050@1500	1424@1500		
EN	7-4	Number of cylinders/displacement	#/in3	#/cm3	6/543	6/8900		
	x	Turbocharger	Ty		Wastegate, ai			
	7-8	Alternator output	Am		120			
	7-9	Electrical system voltage	V	•	24			
	7-10	Battery voltage/nominal capacity	V//	Ah	24/160			
	8-0	Drive control/transmission	Ту	De	Powershift Transmission			
	8-1	Type of drive unit	Ty		Torque Converter			
	8-2	Transmission manufacturer/type	Ту		Spicer Off-Highway TE-27			
DRIVE	8-2-1	Transmission speeds forward/backward	#		4/4			
	8-3	Drive axle manufacturer/type	Туре		Kessler D102			
	8-11	Service brake	Ту	be	Oil immersed (wet) disc			
	8-12	Parking brake	Ту	ре	Spring applied, dry disc on drive axle			
	9-1	Spreader manufacturer/type	Туј	17				
	9-1-1	Pile slope, mechanical without PPS	Degi	rees	3 2			
	9-1-2	Pile slope, mechanical with PPS	Degi	rees				
DER	9-1-3	Pile slope, total with PPS	Degrees		6			
SPREADER	9-3	Size of containers	ft	ft	ISO 20' -	40'		
SPF	9-4	Sideshift (total)	in	mm	+/-31.5	+/-800		
	9-4a	Sideshift	in	mm	31.5	800		
	9-6-1	Rotation angle, without override	Degr	rees	N/A			
	9-6-2	Rotation angle, with override	Degi	rees	+185/-9	95		
	10-1	Working pressure for attachments	psi	MPa	2,031	140		
	10-2	Oil volume for attachments	gpm	l/m	29	110		
ى	10-3	Hydraulic oil tank, capacity	gal	1	165	625		
MISC	10-4	Fuel tank, capacity	gal	l.	219	830		
	10-5	Steering design	Ту		Hydrostatic			
	10-6	Number of steering rotations	#		8.0			
	10-7	Sound pressure level at the driver's seat LpAZ	dB	(A)	78			

NOTES:

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

(1) From face of front tires

- (2) With Mechanical Pile Slope (MPS). For optional Powered Pile Slope (PPS) function: deduct 310 mm.
- (3) Full suspension seat in depressed position.
- (4) Spreader at 8.0 m high, central above front axle; container 0mm in front of tires; includes 2x100 mm clearance. FULL/REDUCED steer cylinder stroke.
- (5) Gradeability figures are provided for comparison of tractive performance, but are not intended to endorse the operation of vehicle on the stated inclines.

All capacities are according to EN1459.

All specifications and capacities are valid for trucks equipped with a Hyster® container handling spreader for handling ISO containers.

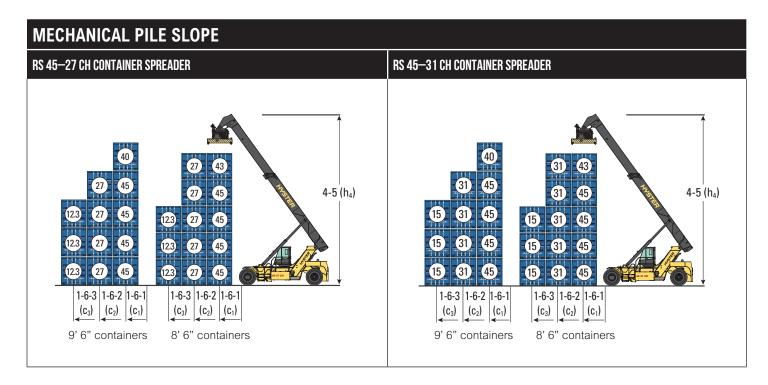
Specification data is based on VDI 2198.

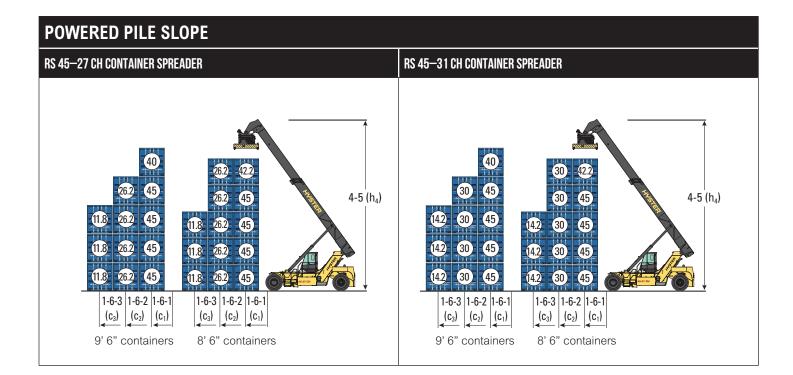
NOTICE: Care must be exercised when handling elevated loads. Operators must be trained and must read, understand and follow the instructions contained in the Operating Manual.

All values are nominal values and they are subject to tolerances. For further information, please contact the manufacturer.

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.

RATED CAPACITIES AND STACKING HEIGHTS





FEATURES AND OPTIONS

ERGONOMICS	STD	ОРТ
Powered sliding cabin (1200 mm), including additional mirrors	x	Ur I
on top of fenders		
Full steel cab operator compartment	х	
Isolated cabin mounting for low noise and vibration	Х	
Operator presence system	Х	
Mechanical suspension seat	Х	
Deluxe air suspension seat		Х
Low backrest seat	Х	
High backrest seat		х
Armrest on left side	Х	
Cloth seat cover	х	
Vinyl seat cover		Х
Seat heating		х
2-point high visibility seatbelt	х	
3-point high visibility seatbelt		х
Floor mat	х	
Coat hook	х	
Front, top and rear wipers	х	
"I"-pattern front wiper (enclosed operator cabin)	х	
Intermittent wipers		х
Front and rear window defrosters	х	
Left side handrails, stairway and cabin door	х	
Right side handrails, stairway and cabin door		х
Left side stair lights		х
Multifunction display panel	х	
Seat-side joystick hydraulic control	х	
Steering wheel with spinner knob	х	
Directional control lever on steering column	х	
Manual park brake	х	
Automatic park brake		х
Heater with 3 speed fan	х	
Telescoping & tilting steering column	х	
DC/DC converter 24 volt/12 volt with socket	х	
Heavy duty air conditioning		х
Reading light		x
Sun shades on top and rear		x
Trainer seat		x
Recirculation fan	х	
Radio preparation set-up (wiring, two speakers and antenna)		х
i and propulation sol ap (winnig, two speakers and antenna)		~

FEATURES AND OPTIONS

VISIBILITY	STD	OPT
External wide angle mirrors mounted on rear of front fenders	х	
Interior wide angle mirrors	х	
Rear view camera system		х
Radar object detection system		х
Halogen work lights	х	
High Performance LED work lights		х
Four Halogen head lights mounted on front fenders	х	
Four LED head lights mounted on front fenders		х
Four work lights mounted on the boom	х	
Turn signals, hazard & marker lights (LED)	х	
One engine compartment light		x
OPERATION	STD	ОРТ
Air horn 112 dBA	х	
Air horn 112 dBA Visible alarm – Amber strobe light, ignition activated	x x	
Visible alarm – Amber strobe light, ignition activated Audible alarm – reverse direction activated 82–102 dB(A),	х	X
Visible alarm – Amber strobe light, ignition activated Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting	х	x x
Visible alarm – Amber strobe light, ignition activated Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting Forward motion alarm	х	
Visible alarm – Amber strobe light, ignition activated Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting Forward motion alarm Seatbelt interlock for engine start and truck operation	х	х
Visible alarm – Amber strobe light, ignition activated Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting Forward motion alarm Seatbelt interlock for engine start and truck operation Seatbelt indicator light on top of cab	х	x x
Visible alarm – Amber strobe light, ignition activated Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting Forward motion alarm Seatbelt interlock for engine start and truck operation Seatbelt indicator light on top of cab Tire pressure monitoring system	x	x x

OPERATION (continued)	STD	ОРТ
Electric circuit breakers		х
Non-lockable fuel cap	х	
Lockable fuel cap		х
Hyster Tracker [™] wireless asset management - access/verification		х
Hyster Tracker [™] wireless asset management - monitoring	х	
Auto greasing system for basic truck & outer boom		х
Auto greasing system for inner boom and spreader		х
Fire suppression system		х
24 volt electrical system	х	
Engine block heater 110 or 240 volt		х
Second hour meter reader near fuel tank		х
Steer wheel lug nut protection	х	
APPEARANCE	STD	OPT
Hyster yellow paint base truck	х	
Special paint base truck		х
Hazard warning striping on counterweight		х
SUPPLEMENTAL	STD	OPT
Literature package	х	
Operator's manual	х	
Warranty: 12 months/2,000 hours parts & labor manufacturer's warranty*	х	

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



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