

REACHSTACKER PRODUCT TECHNICAL GUIDE



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DIMENSIONS



20'-0 END ON LIFTING CAPACITIES

HYSTER
(3,048)

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	TFR			HYS	TER	
	1-2	Model designation										-31CH	
GENERAL	1-2	Powertrain/drivetrain				RS45-27CH Diesel				Diesel			
	1-3	Operator type				Seated			Seated				
	1-5-1	Load capacity at load center distance c1	Q1	lb	kg	99,208 45,000		99,208		45,000			
	1-5-2	Load capacity at load center distance c1	Q2	lb	kg	59,525 27,000		68,343		31,000			
	1-5-3	Load capacity at load center distance c2	Q3	lb	kg	27,1		12,		33,0		15,000	
GEN	1-6-1	Load center distance c1 (1)	c1	in	mm	62		1,5		62			565
	1-6-2	Load center distance c2 (1)	c2	in	mm	15		3,8		15			315
	1-6-3	Load center distance c3 (1)	c3	in	mm	24		6,3		249		6,315	
	1-8	Load distance	x	in	mm	33 835		33		835			
	1-9	Wheelbase	y	in	mm	256 6,500		256		6,500			
	1-10	Stacking height at first row	,	#		20		9' 6"	.00	20		9' 6"	
	2-1	Service weight		lb	kg	137,		62,	300	143,			300
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
WE	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	-	,	Pneur			,		matic	,
	3-2	Tire size, front					18.00-2	5 40PR			18.00-2	5 40PR	
SI	3-3	Tire size, rear					18.00-2	5 40PR			18.00-2	5 40PR	
WHEELS	3-5	Number of tires, front/rear (X driven)					x4	/2			x4	/2	
	3-6	Tread, front	b10	in	mm	14	6	3,7	'03	14	6	3,7	703
	3-7	Tread, rear	b11	in	mm	12	0	3,0	60	12	0	3,0)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 4,700		'00			700	
	4-4-1	Lift height at load center c1 (2)	h3.1	in	mm	59	4	15,0	080	594		15,080	
	4-4-2	Lift height at load center c2 (2)	h3.2	in	mm	53	0	13,4	470	530		13,470	
	4-4-3	Lift height at load center c3 (2)	h3.3	in	mm	40	6	10,3	320	406		10,320	
	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	3,720		14	6	3,7	20
	4-8	Seat height to SIP (3)	h7	in	mm	10)1	2,5	55	10	1	2,5	555
	4-15	Height under twistlock - lowered (2)	h13	in	mm	50	0	1,2	?75	50)	1,2	275
ONS	4-19	Overall length	1	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,	875
DIM	4-21-2	Overall width across all of truck	b2	in	mm	16	5	4,2	200	16	5	4,2	200
	4-21-3	Overall width across spreader 20'	b1.20	in	mm	24	0	6,1	00	24	0	6,1	100
	4-21-4	Overall width across spreader 40'	b1.40	in	mm	48	0	12,5	200	48	0	12,	200
	4-28	Reach distance	14	in	mm	170 4,310		810	170		4,310		
	4-31	Ground clearance, lowest point	m1	in	mm	11 285			11		285		
	4-32	Ground clearance, center or wheelbase	m2	in	mm	17	1	43	1	17		43	1
	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
	SINGLE	POWERTRAIN SECTION Travel speed, with/without load		mph	km/h	QS 12.4	L9 Tier 3 E 20	ngine - TE 14.3	27 23	QS 12.4	L9 Tier 3 E 20	ngine - TE 14.3	27 23
NCE	5-2	Lifting speed, with/without load		ft/min	m/s	47	0.24	81	0.41	47	0.24	81	0.41
DRM	5-3	Lowering speed, with/without load		ft/min	m/s	89	0.45	89	0.45	89	0.45	89	0.45
PERFORMANCE	5-4-1	Telescoping speed, 20'/40'		sec	sec		ç					9	
4	5-5	Drawbar pull - 1 mph 1.6 km/h, with/without load		اله ۷	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)		%	0	24	+	3	0	23)	3	6

POWERTRAINS

	7-1	Engine manufacturer/type			Cummins/	0.51.9		
	7-1a	EPA Tier Compliance			Tier 3/Stag			
	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		
ш	7-3	Rated speed	rpm	rpm	2,000			
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	Ту	be	Wastegate, air cooled			
	7-8	Alternator output	Am	ps	120			
	7-9	Electrical system voltage	V	1	24			
	7-10	Battery voltage/nominal capacity	V//	Ah	24/160)		
	8-0	Drive control/transmission	Ту	pe	Powershift Tran	nsmission		
	8-1	Type of drive unit	Ту	pe	Torque Con	verter		
س	8-2	Transmission manufacturer/type	Ту	pe	Spicer Off-High	way TE-27		
DRIVE	8-2-1	Transmission speeds forward/backward	#	1	4/4			
-	8-3	Drive axle manufacturer/type	Ту	ре	Kessler D102			
	8-11	Service brake	Ту	ре	Oil immersed (wet) disc			
	8-12	Parking brake	Ту	ре	Spring applied, dry disc on drive axle			
	9-1	Spreader manufacturer/type	Ту	pe	Elme/81	17		
	9-1-1	Pile slope, mechanical without PPS	Degi	rees	3			
	9-1-2	Pile slope, mechanical with PPS	Degi	rees	2			
SPREADER	9-1-3	Pile slope, total with PPS	Degi		6			
REA	9-3	Size of containers	ft	ft	ISO 20' -			
SP	9-4	Sideshift (total)	in	mm	+/-31.5	+/-800		
	9-4a	Sideshift	in	mm	31.5	800		
	9-6-1	Rotation angle, without override	Degrees		N/A			
	9-6-2	Rotation angle, with override	Degrees		+195/-1			
	10-1	Working pressure for attachments	psi	MPa	2,031	140		
	10-2	Oil volume for attachments	gpm	l/m	29	110		
ÿ	10-3	Hydraulic oil tank, capacity	gal	I	165	625		
MISC	10-4	Fuel tank, capacity	gal	l. I	219 830			
	10-5	Steering design	Ty		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

	070	0.00
PERFORMANCE	STD	ОРТ
Cummins QSL 9L diesel engine rated 304 hp Tier 3/227 kw Stage IIIA	x	
Tier 3/Stage IIIA compliant	х	
Wastegate turbocharger, water cooled - Tier 3/Stage IIIA	х	
Hibernate idle	х	
On-demand cooling fan	х	
120 amp alternator	x	
Performance modes	х	
Powertrain protection system	x	
Heavy duty air intake	х	
Spicer off-highway TE-27 4-speed auto-shifting transmission	x	
Kessler D102 drive axle with wet disc brakes	х	
DRIVE	STD	OPT
Travel speed limiter when twistlocks closed	х	
Travel speed limiter pre-set to 10 mph/16 km/h		х
Travel speed limiter pre-set to 12 mph/20 km/h		х
Steer axle with full stroke steer cylinder for tight turning radius	х	
E3 Pneumatic Drive and Steer Tires Continental Cranemaster 18.00-25 40PR	x	
Pneumatic 18.00x25-40PR ELV-4B drive and steer tires		х
18.00-R25 Goodyear EV-5S Slick Radial drive and steer tires		х
LIFT	STD	OPT
230cc Dual Pump Hydraulic System	х	
On-Demand Load Sensing Hydraulic System	х	
Automatic throttle-up when lifting (in neutral or inching)	х	
2-stage boom for 5-high 1st row stacking	x	
3B6 Load Moment Indicator with color display	х	
High speed hoist system - when empty	x	
High speed hoist system - below 10 tons		х
Hydraulic system temperature protection with performance de-rate		x
Container weighing system SOLAS compliant		х
HANDLING	STD	ОРТ
Hyster model 817 spreader, with rotation	х	
CANBus spreader controls	х	
Mechanical pile slope	х	
Powered pile slope		х
Dampening cylinders	х	
Powered dampening cylinders		х
4 lifting eyes located on end beam corners	х	
4 lifting eyes located under center beam of spreader		х
Spreader guides located at end of spreader beams		х
Spreader guides located 19.9" (506 mm) inwards from center of spreader end beam		х
Rotation stops with override		х
Automatic one-touch extend/retract (20'/40') for spreader		х

Powered sliding cabin (1200 mm), including additional mirrors on top of fendersNNFull steel cab operator compartmentXIsolated cabin mounting for low noise and vibrationXIsolated cabin dowXIsolated cabin dowXIsolated cabin dowXIsolated cabin dowXIsolated cabin dowIsolated cabin dowXIsolated cabin diver sering columnXIsolated c	ERGONOMICS	STD	OPT
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Seat-side joystick hydraulic controlxSteering wheel with spinner knobxxDirectional control lever on steering columnxxManual park brakexxAutomatic park brakexxHeater with 3 speed fanxxTelescoping & tilting steering columnxxDC/DC converter 24 volt/12 volt with socketxxHeavy duty air conditioningxxReading lightxxSun shades on top and rearxxTrainer seatxxRecirculation fanxx	Multifunction display panel	х	
Directional control lever on steering columnxManual park brakexAutomatic park brakexAutomatic park brakexHeater with 3 speed fanxTelescoping & tilting steering columnxDC/DC converter 24 volt/12 volt with socketxHeavy duty air conditioningxReading lightxSun shades on top and rearxTrainer seatxRecirculation fanx		х	
Manual park brakexAutomatic park brakexHeater with 3 speed fanxTelescoping & tilting steering columnxDC/DC converter 24 volt/12 volt with socketxHeavy duty air conditioningxReading lightxSun shades on top and rearxTrainer seatxRecirculation fanx	Steering wheel with spinner knob	х	
Manual park brakexAutomatic park brakexHeater with 3 speed fanxTelescoping & tilting steering columnxDC/DC converter 24 volt/12 volt with socketxHeavy duty air conditioningxReading lightxSun shades on top and rearxTrainer seatxRecirculation fanx	Directional control lever on steering column	х	
Heater with 3 speed fanxTelescoping & tilting steering columnxDC/DC converter 24 volt/12 volt with socketxHeavy duty air conditioningxReading lightxSun shades on top and rearxTrainer seatxRecirculation fanx		х	
Telescoping & tilting steering columnxDC/DC converter 24 volt/12 volt with socketxHeavy duty air conditioningxReading lightxSun shades on top and rearxTrainer seatxRecirculation fanx	Automatic park brake		х
DC/DC converter 24 volt/12 volt with socketxHeavy duty air conditioningxReading lightxSun shades on top and rearxTrainer seatxRecirculation fanx	Heater with 3 speed fan	х	
Heavy duty air conditioningxReading lightxSun shades on top and rearxTrainer seatxRecirculation fanx	Telescoping & tilting steering column	х	
Reading light x Sun shades on top and rear x Trainer seat x Recirculation fan x	DC/DC converter 24 volt/12 volt with socket	х	
Sun shades on top and rearxTrainer seatxRecirculation fanx	Heavy duty air conditioning		х
Trainer seat x Recirculation fan x	Reading light		х
Trainer seat x Recirculation fan x	Sun shades on top and rear		х
			х
Radio preparation set-up (wiring, two speakers and antenna) x	Recirculation fan	х	
	Radio preparation set-up (wiring, two speakers and antenna)		х

FEATURES AND OPTIONS

	070	0.07
VISIBILITY	STD	ОРТ
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		х
OPERATION	STD	ОРТ
Air horn 112 dBA	х	
Visible alarm – Amber strobe light, ignition activated	х	
Audible element reverse direction estimated $92, 102 d P(A)$		
Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting	х	
	x	х
self-adjusting	X	x x
self-adjusting Forward motion alarm	X	
self-adjusting Forward motion alarm Seatbelt interlock for engine start and truck operation	x	х
self-adjusting Forward motion alarm Seatbelt interlock for engine start and truck operation Seatbelt indicator light on top of cab	x	x x
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

OPERATION (continued)	STD	ОРТ
Electric circuit breakers		х
Non-lockable fuel cap	x	
Lockable fuel cap		х
Hyster $Tracker^{\scriptscriptstyle \texttt{M}}$ 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	x	
Special paint base truck		х
Hazard warning striping on counterweight		х
SUPPLEMENTAL	STD	OPT
Literature package	x	
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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