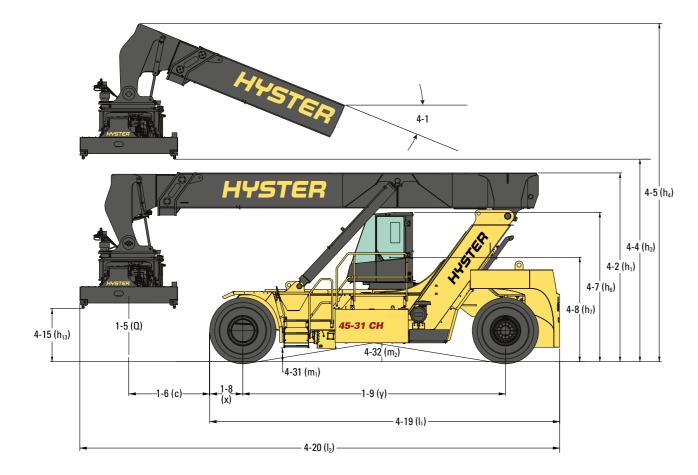




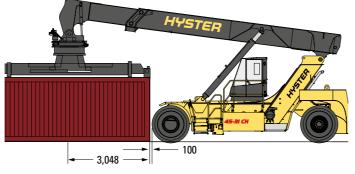
REACHSTACKER PRODUCT TECHNICAL GUIDE

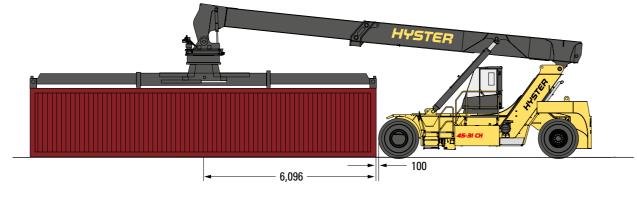


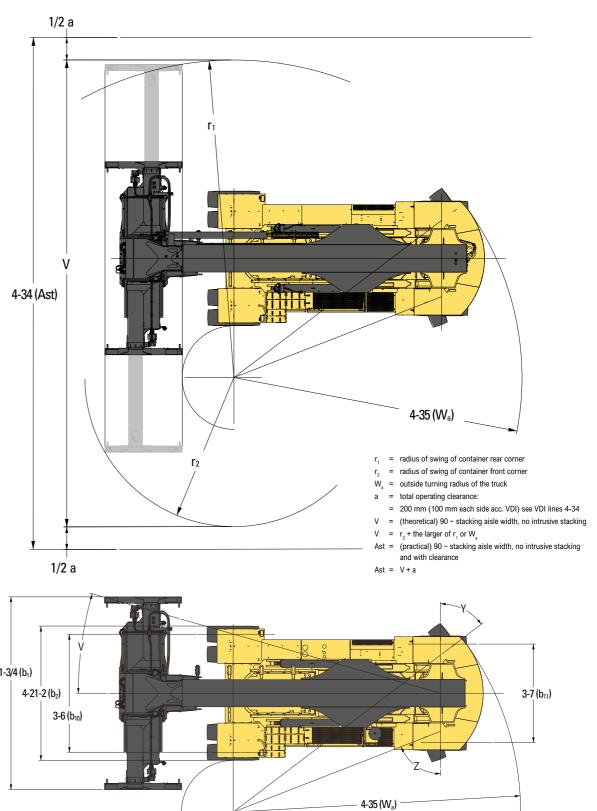
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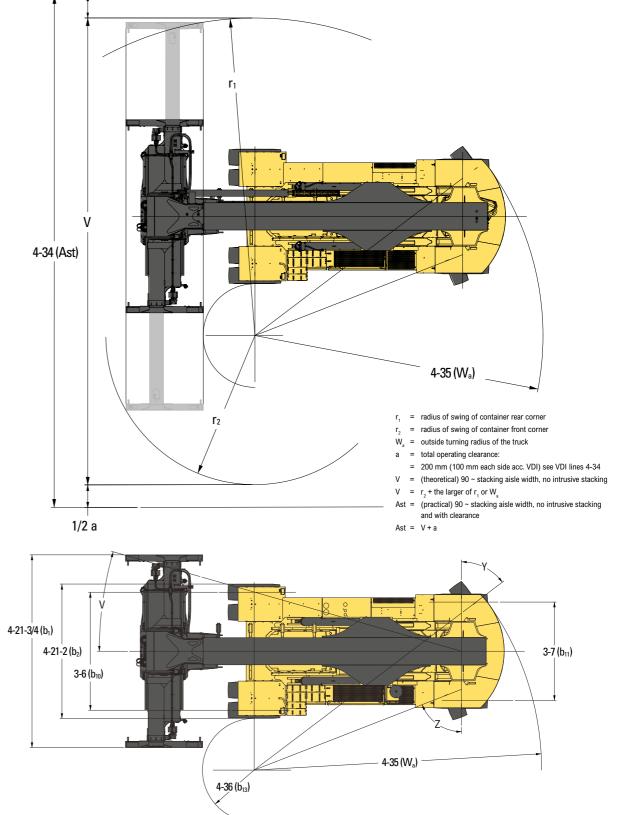


MAXIMUM CAPACITY CONTAINER PICKING END TO END			
MODEL	20'	40'	
MODEL	kg	kg	
RS45-27	31,000	12,300	
RS45-31	34,000	15,000	









DIMENSIONS

RS 45-27, RS 45-31 CONTAINER HANDLERS

	4.4	Manufacturer							
	1-1				D0 45 070		STER DO 45 044	211 (4004)	
	1-2	Model designation			RS45-27CH (A921) RS45-31CH (A921) Diesel			JH (A921)	
	1-3	Powertrain / drivetrain							
	1-4	Operator type	0	ka	Seated				
	1-5-1 1-5-2	Load capacity at load centre distance c	Q ₁	kg	45,000			000	
GENERAL		Load capacity at load centre distance c ₂							
GENI	1-5-3	Load capacity at load centre distance c ₃			۱۷,۰			000	
	1-6-1 1-6-2	Load centre distance c ₁ (1)							
	1-6-2	Load centre distance c ₂ (1) Load centre distance c ₃ (1)							
	1-0-5								
	1-0	Wheelbase							
	1-10	Stacking height at first row (number x container height)	у						
	2-1	Service weight	Q_2 kg $27,00$ $31,00$ Q_3 kg $12,30$ $15,00$ c_1 mm $$						
WEIGHT	2-2	Axle loading with load, front / rear at c,							
WE	2-3	Axle loading without load, front / rear at c,							
	3-1	Tyre type front/rear		ng	01,100			01,100	
	3-2	Tyre size, front							
WHEELS	3-3	Tyre size, rear							
	3-5	Number of wheels, front / rear (x = driven wheels)							
	3-6	Tread, front	b.o	mm					
	3-7	Tread, rear		mm					
	4-1	Boom angle minimum / maximum		degrees	0 / 59				
	4-2	Height of boom lowered	h,	-					
	4-4-1	Lift height at load centre c, (2)		mm	15,080				
	4-4-2	Lift height at load centre c_{2} (2)		mm					
	4-4-3	Lift height at load centre c ₃ (2)		mm					
	4-5	Height, boom extended		mm	18,110				
	4-7	Height of overhead guard (cabin)	h ₆	mm					
	4-8	Seat height to SIP (3)		mm	2,555				
	4-15	Height under twistlock - lowered (2)	h ₁₃	mm	1,275				
SNO	4-19	Overall length	I,	mm	8,660				
DIMENSIONS	4-20	Overall length including boom retracted	I_2	mm	11,875				
	4-21	Overall width across all of truck		mm	4,200				
	4-21-1	Overall width across spreader 20'	b _{1.20}	mm	6,100				
	4-21-2	Overall width across spreader 40'	b _{1.40} mm 12,200	200					
	4-28	Reach distance	l ₄	mm	4,310				
	4-31	Ground clearance, lowest point	m ₁	mm	285				
	4-32	Ground clearance, centre or wheelbase	m ₂	mm	437				
	4-34-1	Aisle width: 20' container, reduced / full stroke (4)	Ast ₂₀	mm	12,520 / 11,950				
	4-34-2	Aisle width: 40' container, reduced / full stroke (4)	Ast ₄₀ mm 14,040 / 13,830						
	4-35	Outside turning radius, reduced / full stroke	W _a	mm	8,990 / 8,450				
	4-36	Internal turning radius, reduced / full stroke	b ₁₃	mm	1,620 / 1,040				
	5-1	Travel speed with / without load		km/h	20 / 23				
ANCI	5-2	Lifting speed with / without load		m/s	0.24 / 0.41				
PERFORMANCE	5-3	Lowering speed with / without load		m/s	0.45 / 0.45				
IRFO	5-4	Telescoping speed 20' - 40'		Sec	9			040	
PEF	5-5	Drawbar pull - 1 mph (1.6 km/h) with / without load		kN	308	316	305	313	
	5-7	Gradeability - 1 mph (1.6 km/h) with / without load (5)		%	24	38	23	36	

(1) From face of front tyres

(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 tyres; includes 2 x 100 mm clearance; full/reduced stroke steer cylinder

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

AL	1-1	Manufacturer				
NER	1-2	Model designation				
GE	1-3	Powertrain / drivetrain				
	7-1	Engine manufacturer / model				
	7-1-1	EPA / CE Tier compliance				
	7-2	Engine power output according to ISO 1585				
	7-2-1	Engine power output . peak				
ENGINE	7-3	Rated speed				
ENG	7-3-1	Engine torque @rpm (1/min)				
	7-4	Number of cylinders / displacement				
	7-5	Turbocharger				
	7-8	Alternator output				
	7-10	Battery voltage, rated capacity				
	8-1	Drive control / transmission				
	8-2	Transmission manufacturer / type				
ш	8-4	Transmission speeds forward / backward				
DRIVE	8-5	Coupling				
	8-6	Wheel drive / drive axle manufacturer / type				
	8-11	Service brake				
	8-12	Parking brake				
	9-1	Spreader manufacturer / type				
	9-1-1	Pile slope, mechanical without PPS				
SPREADER	9-1-2	Pile slope, total with PPS				
REA	9-3	Size of containers				
SPI	9-4	Side shift				
	9-6-1	Rotation angle, without override				
	9-6-2	Rotation angle, with override				
	10-3	Hydraulic tank capacity				
	10-4	Fuel tank capacity				
MISC	10-5	Steering design				
	10-7	Sound pressure level at driver's seat				
	10-7-1	Sound power level during the work cycle				

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.

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.

POWERTRAINS

		HYSTER
		RS45-27/31CH (A921)
		Diesel
		Cummins / QSL9 227
		Tier 3 / Stage IIIA
	kW	227
	kW	247
	rpm	2,000
	N.m	1,424 @ 1500
	# / cm ³	6 / 8900
		Wastegate, air cooled
	Amps	120
	V / Ah	24 / 160
	Type / #	Hydrodynamic Transmission
	Type / #	Spicer Off Highway / TE.27
	#	4 / 4
	Туре	Torque Converter
	Type / #	Kessler / D102
	Туре	Oil immersed (wet) disc
	Туре	Spring applied, dry disc on drive axle
	Type / #	Elme / 817
	degrees	3
	degrees	6
	ft	ISO 20' . 40'
b ₈	mm	+800 / -800
	degrees	n/a
	degrees	+195 / -105
	1	625
	1	830
		Hydrostatic
Lpaz	dB(A)	78
Lwaz	dB(A)	109

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.

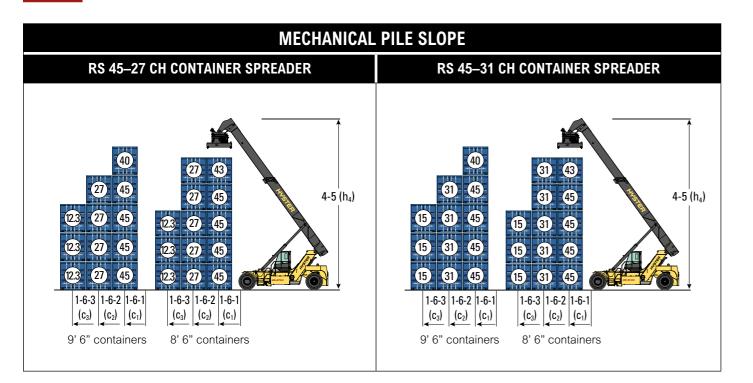
NOTE: Specifications, unless otherwise listed, are for a standard truck without optional equipment.

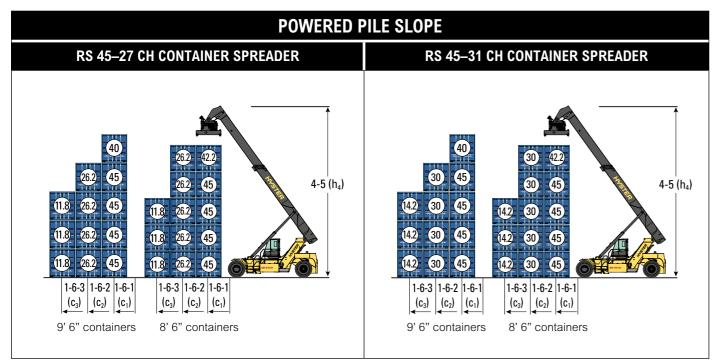
Specification data is based on VDI 2198.



CE UK Safety: This truck conforms to the current EU and UK CA requirements.

RATED CAPACITIES AND STACKING HEIGHTS





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.

PERFORMANCE	STD	OPT	ERGONOMICS	STD	OP
Cummins QSL 9 turbo diesel engine delivering 227 kW (rated) / 247 kW (max)	Х		Powered sliding cabin (1200 mm), including additional mirrors on top of fenders	Х	
Tier 3 / Stage IIIA compliant	Х		Isolated mounting for low noise and vibration	Х	
Wastegate turbocharger	Х		Front, top and rear wipers	Х	
Hibernate Idle	Х		Left side handrails, stairway and cabin door	Х	
Hydraulically driven on-demand cooling fan	Х		Seat-side joystick hydraulic control	Х	
120 amp alternator	Х		Steering wheel spinner knob	Х	
Powertrain protection system	Х		Directional control lever	Х	
Spicer Off-Highway TE-27 4-speed auto-shifting transmission	Х		Interior wide angle mirrors	Х	
Kessler D102 drive axle with wet disc brakes	Х		Heater with 3-speed fan	Х	
DRIVE	STD	OPT	Telescoping & tilting steering column	X	
Traction speed limiter when carrying container (adjustable)	Х		Recirculation fan	X	
Traction speed limiter - unconditional (adjustable)		Х	DC/DC converter 24 volt/12 volt with socket*	X	
Steer axle with reduced stroke steer cylinder for longer tyre life*		Х	Air conditioning	X	Х
Steer axle with full stroke steer cylinder for tight turning radius*		Х	Sun shades on top and rear		X
E3 pneumatic drive and steer tyres Continental Container Master		х	Radio preparation set-up (wiring, two speakers and antenna)	Х	Í
18.00x25.40PR	Х		Reading light	X	
18.00 x 25-40 Advance Bias Drive and Steer Tyres E4 pneumatic drive and steer tyres Continental Container Master	^		Operator presence system	X	
18.00-25.40PR		Х	Mechanical suspension seat	X	
E4 pneumatic drive and steer tyres Goodyear ELV-4B 18.00-25.40PR		Х	Deluxe air suspension seat	~)
Drive and steer Slick Tyres Bridgestone 18.00-25.40PR		Х	Low backrest*)
Drive and steer Slick Radial Tyres Goodyear EV5S 18.00 R25		Х	High backrest*		
IFT	STD	OPT	Cloth seat cover	х	
Dn-demand load sensing hydraulic system	Х		Vinyl seat cover	~)
Automatic throttle-up when lifting (in neutral or inching)	Х		2-point high visibility seatbelt	Х	,
2-stage boom for 5-high 1st row stacking	Х		3-point high visibility seatbolt	~)
3B6 load moment indicator (integrated in digital operator display)	Х		OPERATION	STD	0
High speed hoist system - below 10 tons	Х		Electric air horn 112 dB	Х	
lydraulic system temperature protection		х	Visible alarm – amber strobe light, key switch activated*	~)
Container weighing system SOLAS compliant		Х	Visible alarm – amber strobe light, switch and key switch activated*		
IANDLING	STD	OPT	Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting	х	
CANBus spreader, ELME model 817 with rotation	Х		Seatbelt interlock for engine start	X	
Mechanical Pile Slope	Х		Tyre pressure monitoring system	~	Х
Powered Pile Slope		Х	Lockable battery disconnect switch	Х	
Powered dampening		Х	Trainer seat	~	>
lifting eyes located on end beam corners	Х		Non-locking fuel cap		
lifting eyes located under centre beam of spreader		Х	Lockable fuel cap	х	,
		Х		~)
		~			
Rotation stops with override	STD	OPT	Hyster Tracker wireless asset management - monitoring*		,
Rotation stops with override	STD X		Hyster Tracker wireless asset management - access / verification		
Rotation stops with override /ISIBILITY External wide angle mirrors mounted on rear of front fenders	Х		Hyster Tracker wireless asset management - access / verification Auto greasing system for basic truck and outer boom)
Rotation stops with override /ISIBILITY External wide angle mirrors mounted on rear of front fenders High performance LED work lights			Hyster Tracker wireless asset management - access / verification Auto greasing system for basic truck and outer boom Auto greasing system for inner boom and spreader	v)
Rotation stops with override VISIBILITY External wide angle mirrors mounted on rear of front fenders High performance LED work lights LED twistlock indicator lights	X X		Hyster Tracker wireless asset management - access / verification Auto greasing system for basic truck and outer boom Auto greasing system for inner boom and spreader 24 volt electrical system	X	
Rotation stops with override VISIBILITY External wide angle mirrors mounted on rear of front fenders High performance LED work lights LED twistlock indicator lights LED stop/tail/brake lights	X X X		Hyster Tracker wireless asset management - access / verification Auto greasing system for basic truck and outer boom Auto greasing system for inner boom and spreader 24 volt electrical system Steer wheel lug nut protection	X X)
Rotation stops with override VISIBILITY External wide angle mirrors mounted on rear of front fenders High performance LED work lights LED twistlock indicator lights LED stop/tail/brake lights Turn signals, hazard & marker lights (LED)* APPEARANCE	X X X X X X	OPT	Hyster Tracker wireless asset management - access / verification Auto greasing system for basic truck and outer boom Auto greasing system for inner boom and spreader 24 volt electrical system Steer wheel lug nut protection Engine compartment light	х	
Rotation stops with override VISIBILITY External wide angle mirrors mounted on rear of front fenders High performance LED work lights LED twistlock indicator lights LED stop/tail/brake lights Turn signals, hazard & marker lights (LED)* APPEARANCE	X X X X X STD	OPT	Hyster Tracker wireless asset management - access / verification Auto greasing system for basic truck and outer boom Auto greasing system for inner boom and spreader 24 volt electrical system Steer wheel lug nut protection Engine compartment light SUPPLEMENTAL	X STD	>
Rotation stops with override VISIBILITY External wide angle mirrors mounted on rear of front fenders High performance LED work lights LED twistlock indicator lights LED stop/tail/brake lights Turn signals, hazard & marker lights (LED)* APPEARANCE	X X X X X STD	OPT	Hyster Tracker wireless asset management - access / verification Auto greasing system for basic truck and outer boom Auto greasing system for inner boom and spreader 24 volt electrical system Steer wheel lug nut protection Engine compartment light SUPPLEMENTAL Literature package	X STD X	
Rotation stops with override VISIBILITY External wide angle mirrors mounted on rear of front fenders High performance LED work lights LED twistlock indicator lights LED stop/tail/brake lights Turn signals, hazard & marker lights (LED)*	X X X X STD X	OPT OPT	Hyster Tracker wireless asset management - access / verification Auto greasing system for basic truck and outer boom Auto greasing system for inner boom and spreader 24 volt electrical system Steer wheel lug nut protection Engine compartment light SUPPLEMENTAL	X STD	

STANDARD AND OPTIONAL EQUIPMENT





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