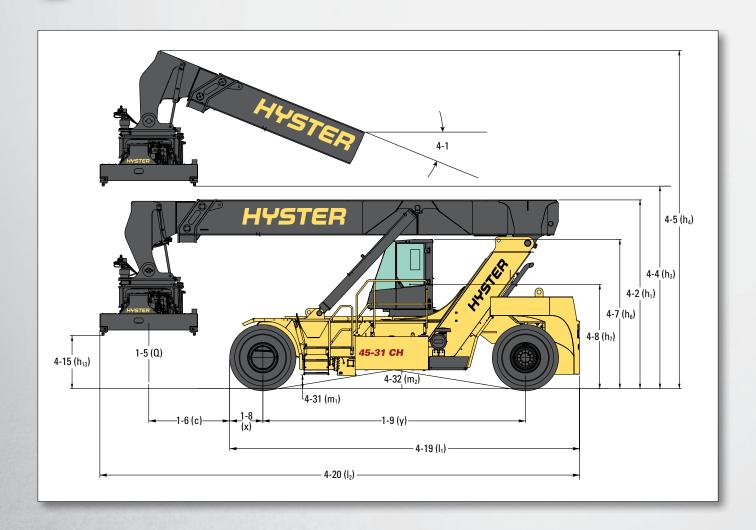




RS45 SERIES TECHNICAL GUIDE

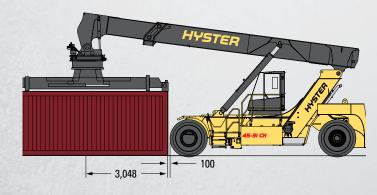


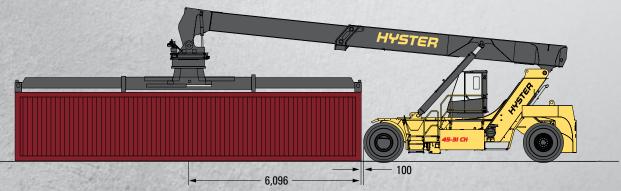
> TRUCK DIMENSIONS



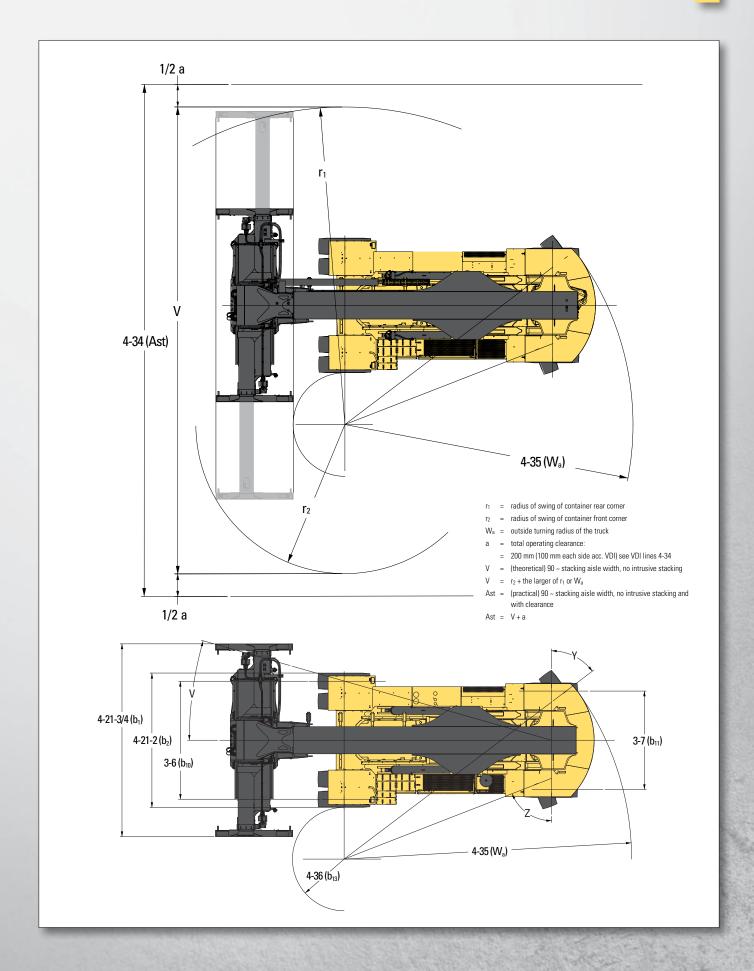
MAXIMUM CAPACITY CONTAINER PICKING END TO END

MODEL	20′	40′
WIODEL	kg	kg
RS45-27	31,000	12,300
RS45-31	34,000	15,000





TRUCK DIMENSIONS <



> RS 45-27, RS 45-31 CONTAINER HANDLERS

	1-1	Manufacturer			HYS	TER	HYS	TER	
	1-2	Model designation			RS45-		RS45-		
	1-3	Powertrain / drivetrain					Die		
	1-4	Operator type			Diesel Seated		Seated		
	1-5-1	Load capacity at load centre distance c ₁	Q ₁	kg	45,000		45,000		
	1-5-2	Load capacity at load centre distance c ₂	Q ₂	kg	27,000		31,000		
GENERAL	1-5-3	Load capacity at load centre distance c ₃	Q ₃	kg	12,3		15,		
E E	1-6-1	Load centre distance c ₁ (1)	C ₁	mm	1,5		1,5		
	1-6-2	Load centre distance c ₁ (1)	C ₂	mm	3,8		3,8		
	1-6-3	Load centre distance c ₂ (1)	C ₃	mm	6,3		6,3		
	1-8	Load distance	X	mm	83		83		
	1-9	Wheelbase	у	mm	6,500 5 x 9' 6"		6,500		
	1-10	Stacking height at first row (number x container height)	7	#			5 x 9′ 6″		
	2-1	Service weight		kg	63,300		66,300		
WEIGHT	2-2-1	Axle loading with load, front / rear at c ₁		kg	95,957	12,343	95,765	15,535	
₹	2-3-1	Axle loading without load, front / rear at c ₁		kg	34,307	28,993	34,115	32,185	
	3-1	Tyre type		g	Pneur		Pneui		
	3-2	Tyre size, front			18.00-2		18.00-25 40PR		
SI	3-3	Tyre size, rear			18.00-2		18.00-2		
WHEELS	3-5	Number of wheels, front / rear (x = driven wheels)			х4		x4		
5	3-6	Tread, front	b ₁₀	mm	3,7		3,7		
	3-7	Tread, rear	b ₁₁	mm	3,0		3,0		
	4-1	Boom angle minimum / maximum	- 11	degrees	0/		0 / 59		
	4-2	Height of boom lowered	h ₁	mm	4,7		4,700		
	4-4-1	Lift height at load centre c ₁ (2)	h _{3.1}	mm		15,150		15,150	
	4-4-2	Lift height at load centre c ₂ (2)	h _{3.2}	mm	13,540		13,540		
	4-4-3	Lift height at load centre c ₃ (2)	h _{3.3}	mm	10,3	390	10,	390	
	4-5	Height, boom extended	h ₄	mm	18,	110	18,110		
	4-7	Height of overhead guard (cabin)	h ₆	mm	3,7	20	3,720		
1	4-8	Seat height to SIP (3)	h ₇	mm	2,5	55	2,555		
	4-15	Height under twistlock - lowered (2)	h ₁₃	mm	1,3	45	1,3	1,345	
SNOIS	4-19	Overall length	I ₁	mm	8,6	60	8,6	60	
	4-20	Overall length including boom retracted	l ₂	mm	11,8	375	11,8	375	
DIME	4-21-2	Overall width across all of truck	b ₂	mm	4,2	200	4,2	00	
	4-21-3	Overall width across spreader 20'	b _{1.20}	mm	6,1	00	6,1	00	
	4-21-4	Overall width across spreader 40'	b _{1.40}	mm	12,2	200	12,200		
	4-28	Reach distance	l ₄	mm	4,3	4,310		4,310	
	4-31	Ground clearance, lowest point	m ₁	mm	28	35	285		
	4-32	Ground clearance, centre or wheelbase	m ₂	mm	437		437		
	4-34-3	Aisle width: 20' container, reduced / full stroke (4)	Ast ₂₀	mm	12,520	11,950	12,520	11,950	
	4-34-4	Aisle width: 40' container, reduced / full stroke (4)	Ast ₄₀	mm	14,040	13,830	14,040	13,830	
	4-35	Outside turning radius, reduced / full stroke	Wa	mm	8,990	8,450	8,990	8,450	
	4-36	Internal turning radius, reduced / full stroke	b ₁₃	mm	1,620	1,040	1,620	1,040	
,,,	5-1	Travel speed with / without load		km/h	20	23	20	23	
NCE	5-2	Lifting speed with / without load		m/s	0.24	0.41	0.24	0.41	
RMA	5-3	Lowering speed with / without load		m/s	0.45	0.45	0.45	0.45	
PERFORMANCE	5-4-1	Telescoping speed 20' - 40'		sec	S		Ę		
퓝	5-5	Drawbar pull - 1 mph (1.6 km/h) with / without load		kN			309	317	
	5-7	Gradeability - 1 mph (1.6 km/h) with / without load (5)		%	27	31	27	29	

POWERTRAINS <

₹ 1-1	Manufacturer			HYSTER
1-1 1-2 1-3	Model designation			RS45-27/31CH
1-3	Powertrain / drivetrain			Diesel
7-1	Engine manufacturer / model			Cummins / QSL9 227
7-1a	EPA / CE Tier compliance			Tier 3 / Stage IIIA
7-2	Engine power output according to ISO 1585		kW	227
7-2-1	Engine power output - peak		kW	247
7-3 7-3-1	Rated speed		rpm	2,000
7-3-1	Engine torque @rpm (1/min)		N-m	1,424 @ 1500
7-4	Number of cylinders / displacement		# / cm ³	6 / 8900
	Turbocharger			Wastegate, air cooled
7-8	Alternator output		Amps	120
7-10	Battery voltage, rated capacity		V / Ah	24 / 160
8-1	Drive control / transmission		Type / #	Hydrodynamic Transmission
8-2	Transmission manufacturer / type		Type / #	Spicer Off-Highway / TE-27
8-4	Transmission speeds forward / backward		#	4 / 4
8-5	Coupling		Туре	Torque Converter
8-6	Wheel drive / drive axle manufacturer / type		Type / #	AxleTech / PRC7545
8-11	Service brake		Туре	Oil immersed (wet) disc
8-12	Parking brake		Туре	Spring applied, dry disc on drive axle
9-1	Spreader manufacturer / type		Type / #	Elme / 817
9-1-1	Pile slope, mechanical without PPS		degrees	3
9-1-3	Pile slope, total with PPS		degrees	6
9-3	Size of containers		ft	ISO 20' - 40'
9-1-3 9-3 9-4	Side shift	b ₈	mm	+800 / -800
9-6-1	Rotation angle, without override		degrees	n/a
9-6-2	Rotation angle, with override		degrees	+185 / -95
10-3	Hydraulic tank capacity		1	625
10-4	Fuel tank capacity		1	830
10-5	Steering design			Hydrostatic
10-7	Sound pressure level at driver's seat	Lpaz	dB(A)	78
10-7-1	Sound power level during the work cycle	Lwaz	dB(A)	109

NOTES:

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

- (1) From face of front tyres
- With Mechanical Pile Slope (MPS). For optional Powered Pile Slope (PPS) function: deduct 310 mm
- (3) Full suspension seat in depressed position
- 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.

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.



C C Safety: This truck conforms to the current EU requirements.

NOTICE:

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

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

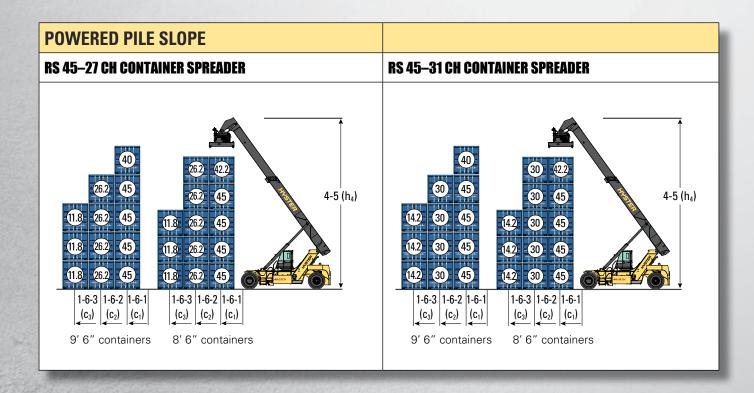
Hyster products are subject to change without notice.

Lift trucks illustrated may feature optional equipment. Values may vary with alternative configurations.

CERTIFICATION: Hyster lift trucks meet the design and construction requirements of B56.1-1969, per OSHA Section 1910.178(a)(2), and also comply with the B56.1 revision in effect at time of manufacture.

RATED CAPACITIES AND STACKING HEIGHTS – CONTAINER HANDLERS

MECHANICAL PILE SLOPE RS 45-27 CH CONTAINER SPREADER RS 45-31 CH CONTAINER SPREADER (31) 4-5 (h₄) 4-5 (h₄) (15) (31) (31) (27) **(27)** (15) (31) (31) 15) (27) **27 45** (31) (31) (45) 1-6-3 1-6-2 1-6-1 1-6-3 1-6-2 1-6-1 1-6-3 1-6-2 1-6-1 1-6-3 1-6-2 1-6-1 (c_3) (c_2) (c_1) (c_3) (c_2) (c_1) (c_3) (c_2) (c_1) $(C_3) \mid (C_2) \mid (C_1)$ 9' 6" containers 8' 6" containers 9' 6" containers 8' 6" containers



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.

STANDARD AND OPTIONAL EQUIPMENT

PERFORMANCE	STD	OP'
Cummins QSL 9 turbo diesel engine delivering 227 kW (rated) / 247 kW (max)	Х	
Tier 3 / Stage IIIA compliant	Х	
Wastegate turbocharger	Х	
Hibernate Idle	Х	
Hydraulically driven on-demand cooling fan	Х	
120 amp alternator	Х	
Powertrain protection system	Х	
Spicer Off-Highway TE-27 4-speed auto-shifting transmission	Х	
Axletech PRC 7547 drive axle with wet disc brakes	Х	
Kessler D102 drive axle with wet disc brakes		Χ
DRIVE	STD	0P
Traction speed limiter when carrying container (adjustable)	Х	
Traction speed limiter - unconditional (adjustable)		Х
Steer axle with reduced stroke steer cylinder for longer tyre life*		Х
Steer axle with full stroke steer cylinder for tight turning radius*		Х
E3 pneumatic drive and steer tyres Continental Cranemaster 18.00-25.40PR	Х	
E4 pneumatic drive and steer tyres MRF Muscle Rok 18.00-25.40PR		Х
E4 pneumatic drive and steer tyres Continental Container Master 18.00-25.40PR		X
E4 pneumatic drive and steer tyres Goodyear ELV-4B 18.00-25.40PR		Х
Drive and steer Slick Tyres Bridgestone 18.00-25.40PR		X
Drive and steer Slick Ryles Bridgestone 10.00-20.40111 Drive and steer Slick Radial Tyres Goodyear EV5S 18.00 R25		X
LIFT	STD	OP
	Х	UF
On-demand load sensing hydraulic system Automatic throttle up when lifting lie poutral or inching	X	
Automatic throttle-up when lifting (in neutral or inching)	X	
2-stage boom for 5-high 1st row stacking	-	
3B6 load moment indicator (integrated in digital operator display)	X	
High speed hoist system - when empty	Х	
High speed hoist system - below 10 tons		X
Hydraulic system temperature protection		X
Container weighing system SOLAS compliant	OTD	X
HANDLING CANDO CONTROL SIAMS and all 047 with materials	STD	OP
CANBus spreader, ELME model 817 with rotation	X	
Mechanical Pile Slope	X	
Powered Pile Slope		X
Powered dampening		Х
4 lifting eyes located on end beam corners	Х	
4 lifting eyes located under centre beam of spreader		X
Container guides - located outside near twistlocks		Х
Container guides - 500mm inset, heavy duty		Х
Rotation stops with override		Х
Automatic extend/retract		Х
Stops for 30' containers		Х
Vertical lift		Х
	STD	OP
VISIBILITY	עוט	
VISIBILITY	Х	
VISIBILITY External wide angle mirrors mounted on rear of front fenders	1	
VISIBILITY External wide angle mirrors mounted on rear of front fenders External wide angle mirrors mounted on top of front fenders	Х	X
VISIBILITY External wide angle mirrors mounted on rear of front fenders External wide angle mirrors mounted on top of front fenders Rear view camera system	Х	Х
VISIBILITY External wide angle mirrors mounted on rear of front fenders External wide angle mirrors mounted on top of front fenders Rear view camera system Halogen work lights	X	
VISIBILITY External wide angle mirrors mounted on rear of front fenders External wide angle mirrors mounted on top of front fenders Rear view camera system Halogen work lights LED work lights	X	Х
VISIBILITY External wide angle mirrors mounted on rear of front fenders External wide angle mirrors mounted on top of front fenders Rear view camera system Halogen work lights LED work lights High performance LED work lights	X	X
VISIBILITY External wide angle mirrors mounted on rear of front fenders External wide angle mirrors mounted on top of front fenders Rear view camera system Halogen work lights LED work lights High performance LED work lights LED twistlock indicator lights	X	X
VISIBILITY External wide angle mirrors mounted on rear of front fenders External wide angle mirrors mounted on top of front fenders Rear view camera system Halogen work lights LED work lights High performance LED work lights LED twistlock indicator lights LED stop/tail/brake lights	X	X
VISIBILITY	X	X X X X OP
VISIBILITY External wide angle mirrors mounted on rear of front fenders External wide angle mirrors mounted on top of front fenders Rear view camera system Halogen work lights LED work lights High performance LED work lights LED twistlock indicator lights LED stop/tail/brake lights Turn signals, hazard & marker lights (LED)*	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X
VISIBILITY External wide angle mirrors mounted on rear of front fenders External wide angle mirrors mounted on top of front fenders Rear view camera system Halogen work lights LED work lights 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

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

ERGONOMICS	STD	0PT
Powered sliding cabin (1200 mm), including additional mirrors on top of fenders	Χ	
Isolated mounting for low noise and vibration	Χ	
Coat hook	Χ	
Cabin emergency exit - rear hinged window	Χ	
Front, top and rear wipers	Χ	
Front and rear window defrosters	Х	
Left side handrails, stairway and cabin door	Х	
Right side handrails, stairway and cabin door		Χ
Stair lights Stair lights		Х
7" digital operator display	Х	
Seat-side joystick hydraulic control	Х	
Steering wheel spinner knob	Х	
Directional control lever	X	
Interior wide angle mirrors	X	
Heater with 3-speed fan	X	
Telescoping & tilting steering column	X	
Recirculation fan	X	
DC/DC converter 24 volt/12 volt with socket*	Х	
Air conditioning		X
Sun shades on top and rear		X
Radio preparation set-up (wiring, two speakers and antenna)		X
Reading light	V	X
Operator presence system Mechanical superprise seet	X	
Mechanical suspension seat Deluxe air suspension seat	^	Х
Low backrest*		X
High backrest*		X
Cloth seat cover	Х	
Vinyl seat cover		Х
Seat heating		Х
2-point high visibility seatbelt	Х	
3-point high visibility seatbelt		
		X
OPERATION	STD	X OPT
OPERATION Electric air horn 112 dB	STD X	
Electric air horn 112 dB		OPT
Electric air horn 112 dB Visible alarm – amber strobe light, key switch activated*		OPT X
Electric air horn 112 dB Visible alarm – amber strobe light, key switch activated* Visible alarm – amber strobe light, switch and key switch activated* Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting Forward motion alarm	Х	X X X
Electric air horn 112 dB Visible alarm – amber strobe light, key switch activated* Visible alarm – amber strobe light, switch and key switch activated* Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting Forward motion alarm Seatbelt interlock for engine start	Х	X X X X
Electric air horn 112 dB Visible alarm – amber strobe light, key switch activated* Visible alarm – amber strobe light, switch and key switch activated* Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting Forward motion alarm Seatbelt interlock for engine start Seatbelt indicator light on top of cab	Х	X X X X X
Electric air horn 112 dB Visible alarm – amber strobe light, key switch activated* Visible alarm – amber strobe light, switch and key switch activated* Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting Forward motion alarm Seatbelt interlock for engine start Seatbelt indicator light on top of cab Tyre pressure monitoring system	X	X X X X
Electric air horn 112 dB Visible alarm – amber strobe light, key switch activated* Visible alarm – amber strobe light, switch and key switch activated* Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting Forward motion alarm Seatbelt interlock for engine start Seatbelt indicator light on top of cab Tyre pressure monitoring system Lockable battery disconnect switch	Х	X X X X X X
Electric air horn 112 dB Visible alarm – amber strobe light, key switch activated* Visible alarm – amber strobe light, switch and key switch activated* Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting Forward motion alarm Seatbelt interlock for engine start Seatbelt indicator light on top of cab Tyre pressure monitoring system Lockable battery disconnect switch NATO plug start aid	X	X X X X X X X X X
Electric air horn 112 dB Visible alarm – amber strobe light, key switch activated* Visible alarm – amber strobe light, switch and key switch activated* Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting Forward motion alarm Seatbelt interlock for engine start Seatbelt indicator light on top of cab Tyre pressure monitoring system Lockable battery disconnect switch NATO plug start aid Adjustable automatic "empty seat" engine shutdown	X	X X X X X X X X X X
Electric air horn 112 dB Visible alarm – amber strobe light, key switch activated* Visible alarm – amber strobe light, switch and key switch activated* Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting Forward motion alarm Seatbelt interlock for engine start Seatbelt indicator light on top of cab Tyre pressure monitoring system Lockable battery disconnect switch NATO plug start aid Adjustable automatic "empty seat" engine shutdown Trainer seat	X	X X X X X X X X X
Electric air horn 112 dB Visible alarm – amber strobe light, key switch activated* Visible alarm – amber strobe light, switch and key switch activated* Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting Forward motion alarm Seatbelt interlock for engine start Seatbelt indicator light on top of cab Tyre pressure monitoring system Lockable battery disconnect switch NATO plug start aid Adjustable automatic "empty seat" engine shutdown Trainer seat Non-locking fuel cap	X	X X X X X X X X X X X X X X X X X X X
Electric air horn 112 dB Visible alarm – amber strobe light, key switch activated* Visible alarm – amber strobe light, switch and key switch activated* Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting Forward motion alarm Seatbelt interlock for engine start Seatbelt indicator light on top of cab Tyre pressure monitoring system Lockable battery disconnect switch NATO plug start aid Adjustable automatic "empty seat" engine shutdown Trainer seat Non-locking fuel cap Lockable fuel cap	X	X X X X X X X X X X X X X X X X X X X
Electric air horn 112 dB Visible alarm – amber strobe light, key switch activated* Visible alarm – amber strobe light, switch and key switch activated* Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting Forward motion alarm Seatbelt interlock for engine start Seatbelt indicator light on top of cab Tyre pressure monitoring system Lockable battery disconnect switch NATO plug start aid Adjustable automatic "empty seat" engine shutdown Trainer seat Non-locking fuel cap Lockable fuel cap Hyster Tracker wireless asset management - monitoring*	X	X X X X X X X X X X X X X X X X X X X
Electric air horn 112 dB Visible alarm – amber strobe light, key switch activated* Visible alarm – amber strobe light, switch and key switch activated* Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting Forward motion alarm Seatbelt interlock for engine start Seatbelt indicator light on top of cab Tyre pressure monitoring system Lockable battery disconnect switch NATO plug start aid Adjustable automatic "empty seat" engine shutdown Trainer seat Non-locking fuel cap Lockable fuel cap Hyster Tracker wireless asset management - monitoring* Hyster Tracker wireless asset management - access / verification	X	X X X X X X X X X X X X X X X X X X X
Electric air horn 112 dB Visible alarm – amber strobe light, key switch activated* Visible alarm – amber strobe light, switch and key switch activated* Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting Forward motion alarm Seatbelt interlock for engine start Seatbelt indicator light on top of cab Tyre pressure monitoring system Lockable battery disconnect switch NATO plug start aid Adjustable automatic "empty seat" engine shutdown Trainer seat Non-locking fuel cap Lockable fuel cap Hyster Tracker wireless asset management - monitoring* Hyster Tracker wireless asset management - access / verification Auto greasing system for basic truck & outer boom	X	X X X X X X X X X X X X X X X X X X X
Electric air horn 112 dB Visible alarm – amber strobe light, key switch activated* Visible alarm – amber strobe light, switch and key switch activated* Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting Forward motion alarm Seatbelt interlock for engine start Seatbelt indicator light on top of cab Tyre pressure monitoring system Lockable battery disconnect switch NATO plug start aid Adjustable automatic "empty seat" engine shutdown Trainer seat Non-locking fuel cap Lockable fuel cap Hyster Tracker wireless asset management - monitoring* Hyster Tracker wireless asset management - access / verification Auto greasing system for inner boom and spreader	X	X X X X X X X X X X X X X X X X X X X
Electric air horn 112 dB Visible alarm – amber strobe light, key switch activated* Visible alarm – amber strobe light, switch and key switch activated* Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting Forward motion alarm Seatbelt interlock for engine start Seatbelt indicator light on top of cab Tyre pressure monitoring system Lockable battery disconnect switch NATO plug start aid Adjustable automatic "empty seat" engine shutdown Trainer seat Non-locking fuel cap Lockable fuel cap Hyster Tracker wireless asset management - monitoring* Hyster Tracker wireless asset management - access / verification Auto greasing system for basic truck & outer boom Auto greasing system for inner boom and spreader 24 volt electrical system	X	X X X X X X X X X X X X X X X X X X X
Electric air horn 112 dB Visible alarm – amber strobe light, key switch activated* Visible alarm – amber strobe light, switch and key switch activated* Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting Forward motion alarm Seatbelt interlock for engine start Seatbelt indicator light on top of cab Tyre pressure monitoring system Lockable battery disconnect switch NATO plug start aid Adjustable automatic "empty seat" engine shutdown Trainer seat Non-locking fuel cap Lockable fuel cap Hyster Tracker wireless asset management - monitoring* Hyster Tracker wireless asset management - access / verification Auto greasing system for basic truck & outer boom Auto greasing system for inner boom and spreader 24 volt electrical system Engine block heater 110 & 220 volt	X	X X X X X X X X X X X X X X X X X X X
Electric air horn 112 dB Visible alarm – amber strobe light, key switch activated* Visible alarm – amber strobe light, switch and key switch activated* Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting Forward motion alarm Seatbelt interlock for engine start Seatbelt indicator light on top of cab Tyre pressure monitoring system Lockable battery disconnect switch NATO plug start aid Adjustable automatic "empty seat" engine shutdown Trainer seat Non-locking fuel cap Lockable fuel cap Hyster Tracker wireless asset management - monitoring* Hyster Tracker wireless asset management - access / verification Auto greasing system for basic truck & outer boom Auto greasing system for inner boom and spreader 24 volt electrical system Engine block heater 110 & 220 volt Steer wheel lug nut protection	X X X	X X X X X X X X X X X X X X X X X X X
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Electric air horn 112 dB Visible alarm – amber strobe light, key switch activated* Visible alarm – amber strobe light, switch and key switch activated* Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting Forward motion alarm Seatbelt interlock for engine start Seatbelt indicator light on top of cab Tyre pressure monitoring system Lockable battery disconnect switch NATO plug start aid Adjustable automatic "empty seat" engine shutdown Trainer seat Non-locking fuel cap Lockable fuel cap Hyster Tracker wireless asset management - monitoring* Hyster Tracker wireless asset management - access / verification Auto greasing system for basic truck & outer boom Auto greasing system for inner boom and spreader 24 volt electrical system Engine block heater 110 & 220 volt Steer wheel lug nut protection Engine compartment light	X X X	X X X X X X X X X X X X X X X X X X X
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