

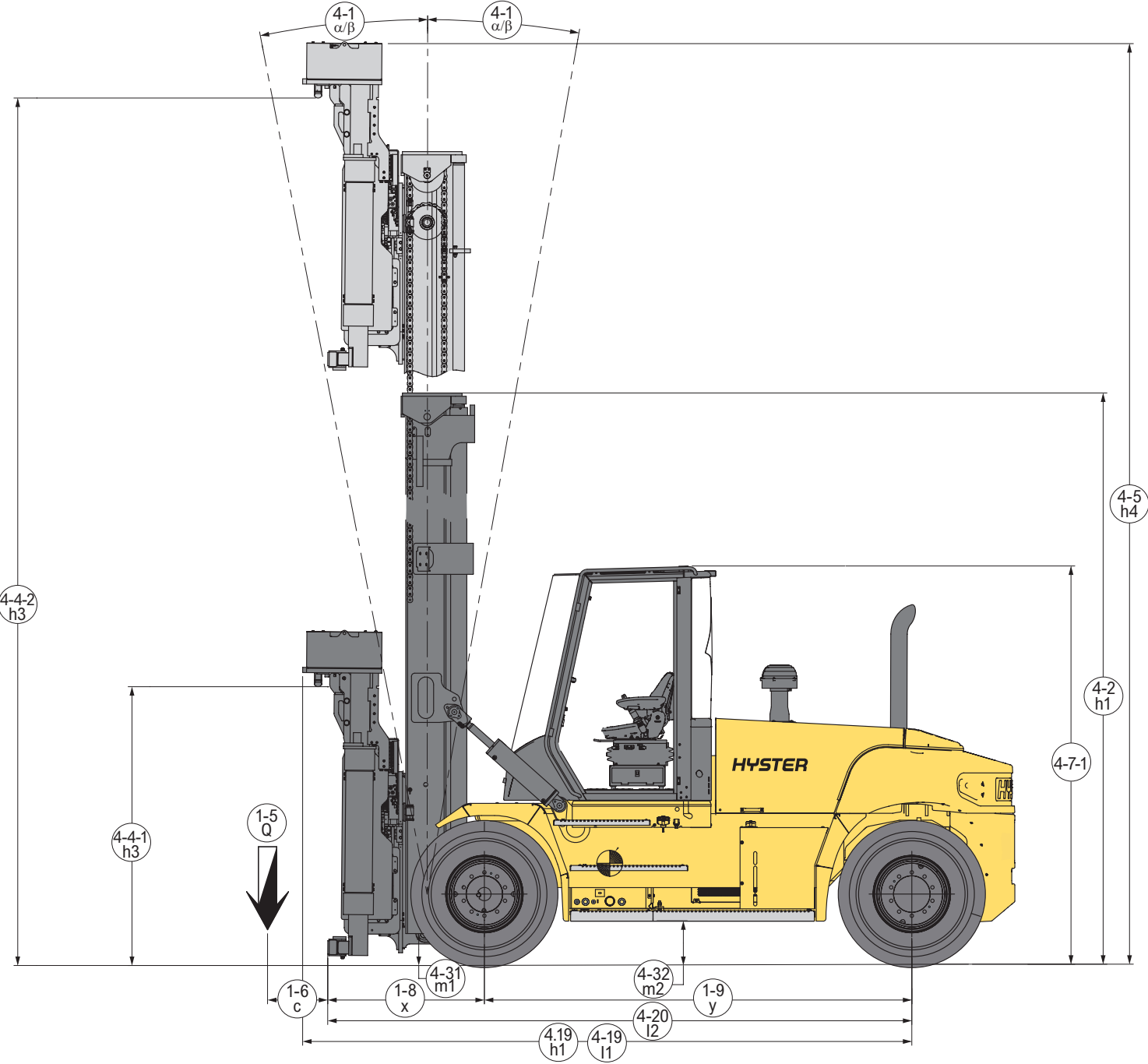
H150XD-EC4



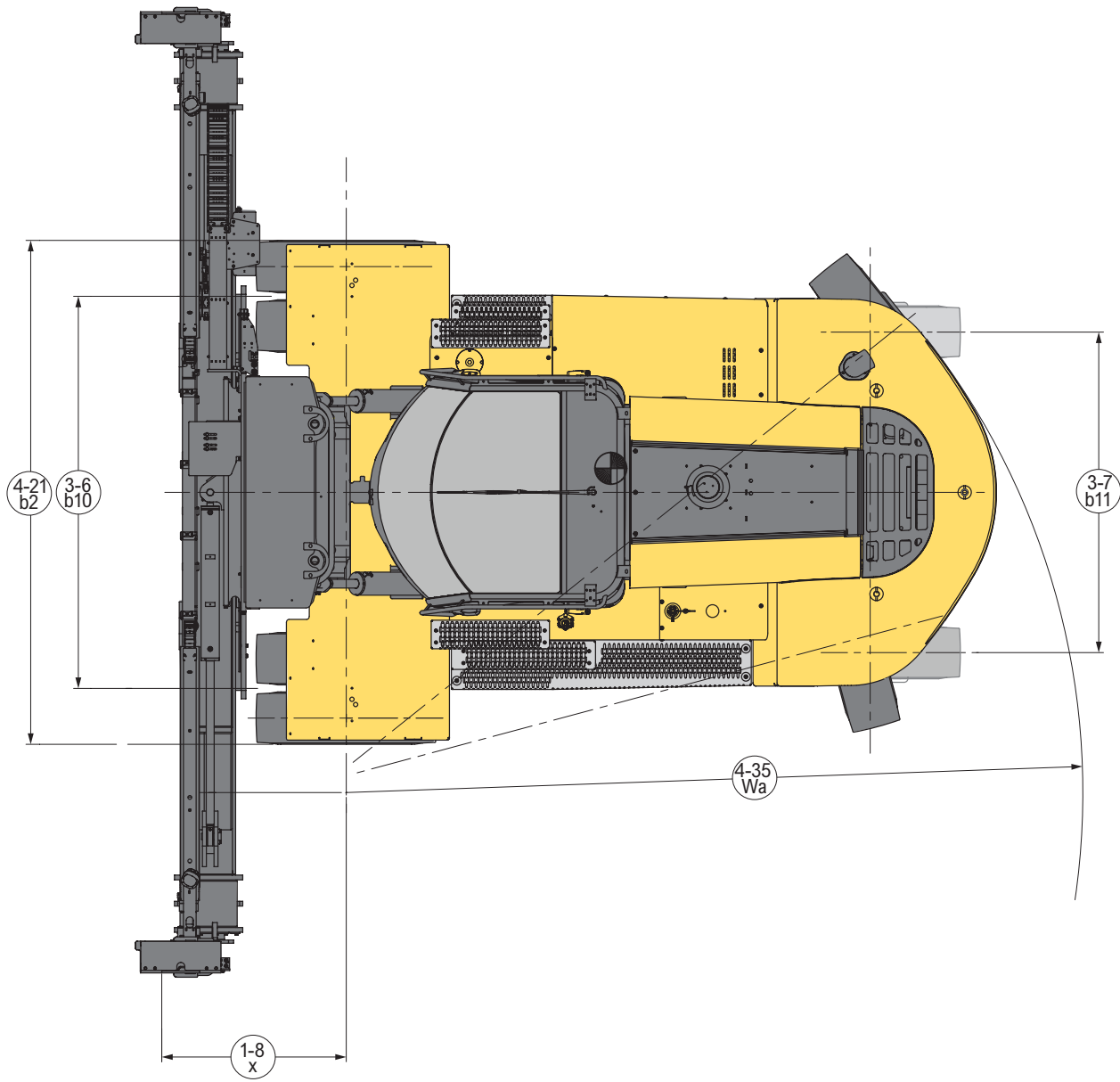
EMPTY CONTAINER HANDLER PRODUCT TECHNICAL GUIDE



DIMENSIONS



DIMENSIONS



SPECIFICATIONS

GENERAL	1-1	Manufacturer				Hyster			
	1-2	Model designation				H150XD-EC4			
	1-3	Powertrain / drivetrain				Diesel			
	1-4	Operator type				Seated			
	1-5	Load capacity at load center, nominal	Q	lb	kg	15,400		6,985	
	1-5-1	Load capacity at load center, max lift	Q	lb	kg	15,400		6,985	
	1-6	Load center	c	in	mm	48		1,219	
	1-8	Load distance	x	in	mm	44.6		1,133	
	1-9	Wheelbase	y	in	mm	130		3,300	
	1-10-1	Stacking height at first row (number x container height)			#		4/4		
WEIGHT	2-1	Service weight (1)		lb	kg	54,436		24,692	
	2-2	Axle loading with load, front / rear		lb	kg	59,634	10,201	27,050	4,627
	2-3	Axle loading without load, front / rear		lb	kg	33,254	21,182	15,084	9,608
WHEELS	3-1	Tire type			Type	Pneumatic			
	3-2	Tire size, front		0	0	12.00-20 20PR			
	3-3	Tire size, rear		0	0	12.00-20 20PR			
	3-5	Number of tires, front / rear (X driven)			#	x4 / 2			
	3-6	Tread, front	b10	in	mm	97		2,469	
DIMENSIONS	3-7	Tread, rear	b11	in	mm	79		2,018	
	4-1	Mast tilt, forward / backward	α/β		Degree	5 / 6			
	4-2	Height, mast lowered	h1	in	mm	264		6,693	
	4-4-1	Distance from ground to twistlocks, minimum	h3	in	mm	85		2,151	
	4-4-2	Distance from ground to twistlocks, maximum	h3	in	mm	474		12,061	
	4-5	Height, mast extended (2)	h4	in	mm	491		12,459	
	4-7-1	Height of overhead guard (closed cab)		in	mm	122.4		3,110	
	4-7-2	Height of overhead guard (closed cab w/ airco)		in	mm	122.4		3,110	
	4-7-3	Height of overhead guard (closed cab w/ strobe light)		in	mm	126.2		3,205	
	4-7-4	Height of overhead guard (closed cab w/ work lights)		in	mm	128.3		3,259	
	4-7-5	Height of overhead guard (closed cab w/ airco & strobe light)		in	mm	127.4		3,235	
	4-8	Seat height to SIP	h7	in	mm	75		1,903	
	4-12	Tow coupler height	h10	in	mm	27.1		689	
	4-19	Overall length	l1	in	mm	214		5,441	
	4-20	Length to face of spreader	l2	in	mm	206		5,228	
	4-21	Overall width across drive tires	b2	in	mm	125		3,168	
	4-23	Width across spreader, retracted / extended	b1.20	in	mm	240	482	6,106	12,238
	4-30	Sideshift		in	mm	+/- 15.7		+/- 400	
	4-31	Ground clearance, lowest point	m1	in	mm	9.6		245	
	4-32	Ground clearance, center of wheelbase	m2	in	mm	13.4		341	
	4-33	Aisle width with 20' Container - no operating clearance (3)	Ast20	in	mm	343		8,722	
	4-33-1	Aisle width with 20' Container - 7.9" (200mm) operating clearance (3)	Ast20	in	mm	351		8,922	
	4-33-2	Aisle width with 20' Container - 10% operating clearance (3)	Ast20	in	mm	378		9,594	
	4-34	Aisle width with 40' Container - no operating clearance (3)	Ast40	in	mm	534		13,558	
	4-34-1	Aisle width with 40' Container - 7.9" (200mm) operating clearance (3)	Ast40	in	mm	542		13,758	
	4-34-2	Aisle width with 40' Container - 10% operating clearance (3)	Ast40	in	mm	587		14,914	
	4-35	Outside turning radius	Wa	in	mm	180		4,573	
	4-36	Internal turning radius	b13	in	mm	70		1,777	
PERFORMANCE	POWERTRAIN #1					TIER 4 QSB 6.7L			
	5-1	Travel speed, with / without load (4)		mph	km/h	17	18	27	29
	5-2	Lifting speed, with / without load		ft/min	m/s	114	118	.58	.60
	5-3	Lowering speed with / without load		ft/min	m/s	106	94	.54	.48
	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load		lb	kN	22,100	25,000	105	106
	5-6	Drawbar pull - max, with / without load		lb	kN	22,700	25,600	118	119
	5-7	Gradeability - 1 mph (1.6 km/h), with / without load (5)		%		36		37	
	5-8	Gradeability - max, with / without load (5)		%		41		37	
	POWERTRAIN #2					TIER 3 QSB 6.7L			
	5-1	Travel speed, with / without load (4)		mph	km/h	17	18	27	29
	5-2	Lifting speed, with / without load		ft/min	m/s	106	118	.54	.60
	5-3	Lowering speed with / without load		ft/min	m/s	106	94	.54	.48
	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load		lb	kN	20,900	21,400	99	100
	5-6	Drawbar pull - max, with / without load		lb	kN	23,600	24,200	111	113
	5-7	Gradeability - 1 mph (1.6 km/h), with / without load (5)		%		34		37	
	5-8	Gradeability - max, with / without load (5)		%		39		37	

SPECIFICATIONS

POWERTRAIN									
GENERAL	1-1	Manufacturer			Hyster		Hyster		
	1-2	Model designation			H150XD-EC4		H150XD-EC4		
	1-3	Powertrain / drivetrain			Diesel		Diesel		
ENGINE	7-1	Engine manufacturer / model			Cummins / QSB 6.7		Cummins / QSB 6.7		
	x	EPA tier compliance			Tier 4F / stage IV		Tier 3 / stage III		
	7-2	Engine power - rated	hp	kW	164@2,300	122@2,300	156@2,300	116@2,300	
	7-2-1	Engine power - peak	hp	kW	168@2,100	125@2,100	156@2,300	116@2,300	
	7-3	Rated speed	rpm	rpm	2,300		2,300		
	7-3-1	Engine torque @ rpm (1.min)	lb-ft	N-m	540 @ 1,500	732 @ 1,500	440 @ 1,500	597 @ 1,500	
	7-4	Number of cylinders / displacement	# / in3	# / cm3	6 / 409	6 / 6,700	6 / 409	6 / 6,700	
	x	Turbocharger	Type		Variable geometry, water cooled		Wastegate, water cooled		
	7-8	Alternator output	Amps		120		120		
	7-9	Electrical system voltage	V		24		24		
	7-10	Battery voltage, nominal capacity	V / Ah		24 / 102		24 / 102		
DRIVE	8-0	Drive control / transmission	Type		Powershift transmission		Powershift transmission		
	8-1	Type of drive unit	Type		Torque converter		Torque converter		
	8-2	Transmission manufacturer / type	Type		ZF / WG161		ZF / WG161		
	8-2-1	Transmission speeds forward / backward	#		3 / 3		3 / 3		
	8-3	Wheel drive / drive axle manufacturer / type	Type		Kessler / D81		Kessler / D81		
	8-11	Service brake	Type		Oil immersed (wet) disc		Oil immersed (wet) disc		
	8-12	Parking brake	Type		Spring apply, dry disc on drive axle		Spring apply, dry disc on drive axle		
SPREADER	9-1	Spreader manufacturer / type	Type		Elme / 588TB		Elme / 588TB		
	9-1-1	Pile slope, mechanical	in	mm	+/- 8.1	+/- 205	+/- 8.1	+/- 205	
	9-3	Size of containers	ft		ISO 20' & 40'		ISO 20' & 40'		
	9-4	Sideshift (total)	in	mm	+/- 15.7	+/- 400	+/- 15.7	+/- 400	
	9-4-1	Telescoping time, extend / retract	sec	sec	14 / 16		14 / 16		
MISC	10-1	Operating pressure for attachments	psi	MPa	3,263	22.5	3,263	22.5	
	10-2	Oil volume for attachments	gpm	l/m	26.4	100	26.4	100	
	10-3	Hydraulic tank capacity	gal	l	27	103	27	103	
	10-4	Fuel tank capacity	gal	l	30	113	30	113	
	10-4-1	DEF/AdBlue Tank capacity	gal	l	5	19	N/A	N/A	
	10-5	Steering design	Type		Hydrostatic		Hydrostatic		
	10-6	Number of steering rotations	#		5.0		5.0		
	10-8	Towing coupling, type DIN	Type		Pin		Pin		

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) Based on Tier 4 engine and 588TB spreader
- (2) Top of spreader
- (3) With 588TB spreader
- (4) Travel speed with or without load limited to 12 mph (20 kmh) as factory default
- (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.

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.

FEATURES AND OPTIONS

PERFORMANCE	STD	OPT
Cummins QSB 6.7L Tier 4F diesel engine 164 hp (122 kW)*	x	
Cummins QSB 6.7L Tier 3 diesel engine 156 hp (116 kW)*	x	
Tier 4/Stage IV compliant	x	
Tier 3/Stage IIIA compliant	x	
Wastegate turbocharger, water cooled - Tier 3/Stage IIIA	x	
Variable geometry turbocharger, water cooled - Tier 4	x	
On-demand cooling fan	x	
120 amp alternator	x	
Performance modes selectable in Integrated Performance Display	x	
Powertrain protection system	x	
Heavy duty air intake	x	
Heavy duty air intake (raised)		x
Low mount exhaust (below chassis)	x	
High mount exhaust - Tier 4		x
High mount exhaust - Tier 3	x	
ZF Transmission WG161 3-speeds fwd/3-speeds reverse auto-shifting	x	
Kessler D81 drive axle with wet disc brakes	x	
DRIVE	STD	OPT
Travel speed limiter - unconditional and customer adjustable		x
Travel speed limiter - loaded (adjustable)		x
12.00 - 20 20PR Trelleborg Pneumatic Bias Ply drive and steer tires	x	
12.00 - R20 Michelin XZM Radial drive and steer tires		x
12.00 - R20 Trelleborg Radial drive and steer tires		x
12.00 - 20 Pneumatic Shaped Solid drive and steer tires		x
LIFT	STD	OPT
On-Demand Load Sensing Hydraulic System	x	
Automatic throttle-up when lifting (in neutral or inching)	x	
Variable lap mast for low roller forces	x	
2-stage non free lift mast for 4-high stacking	x	
Mast tilt - 5° forward/6° back	x	
Pressure compensated lowering	x	
Hydraulic system temperature protection with performance de-rate		x
HANDLING	STD	OPT
Hyster 588TB single handling 20-40ft empty container spreader with vertical twistlocks	x	
CANBus spreader controls	x	
+/- 15/7" (400 mm) sideshift	x	
ERGONOMICS	STD	OPT
Enclosed operator cabin	x	
Manual tilt operator compartment for service	x	
Powered tilt operator compartment for service		x
Isolated cabin mounting for low noise and vibration	x	
Operator presence system	x	
Mechanical suspension seat	x	
Air suspension seat		x
Deluxe air suspension seat		x
Low backrest seat	x	

ERGONOMICS (continued)	STD	OPT
High backrest seat		x
Armrest on left side	x	
Cloth seat cover		x
Vinyl seat cover	x	
Seat heating		x
Seat ventilation		x
2-point high visibility seatbelt	x	
Lateral seat sliding mechanism		x
Floor mat	x	
Coat hook	x	
Interior dome light	x	
Front, top and rear wipers	x	
"H"-pattern front wiper (enclosed operator cabin)		x
"I"-pattern front wiper (enclosed operator cabin)	x	
Laminated glass operator compartment front window		x
Tinted operator compartment windows (doors, rear and top window)		x
Tinted operator compartment top window		x
Plexiglass shield in front of front window		x
Wire mesh installed on top of operator compartment		x
7" Integrated Performance Display	x	
Joystick hydraulic control integrated in control arm	x	
Steering wheel without spinner knob	x	
Steering wheel with spinner knob		x
Directional control lever on steering column	x	
Hyster MONOTROL® pedal directional control		x
Directional control on joystick		x
Park brake - push button applied	x	
Park brake - automatically applied		x
Heater with adjustable speed fan (enclosed operator cabin)	x	
Telescoping & tilting steering column	x	
USB outlet inside armrest	x	
24-12 volt DC converter with 1 socket and 2 USB outlets	x	
24-12 volt DC converter with 2 sockets and 2 USB outlets		x
Air conditioning		x
Automatic climate control		x
Reading light		x
Sun shades on top and rear		x
Sun visors front window		x
Trainer seat		x
Recirculation fan	x	
Additional recirculation fan		x
Accessory mounting bracket on cab front right pillar		x
Document holder on cab front right pillar		x
Heated top- and/or rear window		x
Radio preparation set-up (wiring, two speakers and antenna)		x

* Standard or optional in select markets or on select models.

FEATURES AND OPTIONS


VISIBILITY	STD	OPT
Top window with armored glass (enclosed operator cabin)	x	
Steel bars under armored glass top window (enclosed operator cabin)		x
Interior wide angle mirrors	x	
Exterior mirrors mounted to cab	x	
Rear view camera system		x
Radar object detection system		x
Halogen work lights		x
High performance LED work lights		x
Two head lights mounted on front fenders		x
Four cabin mounted work lights		x
Two rearward work lights mounted on the cabin		x
LED stop/tail/brake lights	x	
Turn signals, hazard & marker lights (LED)		x
OPERATION	STD	OPT
Air horn 112 dBA		x
Electric horn 105 dBA	x	
Visible alarm – Amber strobe light, ignition activated		x
Audible alarm – Reverse direction activated 82–102 dB(A), self-adjusting		x
Audible alarm – Reverse direction white noise		x
Forward/reverse motion alarm		x
Blue LED spotlight – rear/front and rear		x
Tire pressure monitoring system		x
Air conditioning shut-off with open door		x
Automatic engine shutdown with timer		x
Lockable battery disconnect switch		x
Battery jump start connector (NATO plug)		x
Truck start with key switch and start button	x	
Operator password (display) for truck start	x	
Seatbelt interlock for truck start		x
Power distribution group with fuses	x	

OPERATION (continued)	STD	OPT
Fuses below 30 amps replaced by electric circuit breakers		x
Non-lockable fuel cap	x	
Lockable fuel cap		x
Diesel fuel inlet strainer in filler neck		x
Hyster Tracker™ wireless asset management system	x	
Hyster Tracker™ wireless asset management - Access/Verification		x
Hyster Tracker™ wireless asset management - Monitoring		x
Auto greasing system for base truck		x
24-volt electrical system	x	
Engine block heater 110 or 240-volt		x
Steer wheel lug nut protection		x
Front mud flaps		x
Rear mud flaps		x
Wire mesh belly pan		x
Wire mesh and plates belly pan		x
APPEARANCE	STD	OPT
Second capacity plate		x
Hyster yellow paint base truck	x	
Special paint base truck		x
Operator compartment special paint (complete cabin)		x
Hazard warning striping on counterweight		x
SUPPLEMENTAL	STD	OPT
Literature package	x	
Operator's manual	x	
CE certification		x
U.L. Label - Standard Construction	x	
Warranty: 12 months/2,000 hours parts & labor manufacturer's warranty*	x	
Warranty: 12 months/2,000 hours parts manufacturer's warranty*	x	

* Standard or optional in select markets or on select models.



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