

WWW.HYSTER.COM

CUSHION TIRE
4,000–7,000 LB

PRODUCT BROCHURE

S40-70A



DISTINCTLY HYSTER,[®] BUILT FOR YOU.

Built on a scalable platform, the Hyster A Series can be easily configured to match your unique operational requirements. With a 4,000–7,000 lb capacity range and a heavy-duty, EPA-certified Yanmar 2.2L LPG engine, the Hyster S40-70A will raise the bar for what you expect from a lift truck in a wide range of applications and environments.



DID YOU KNOW?

The scalable platform of the Hyster S40-70A allows each truck to be configured from the ground up to match a wide range of applications and environments.



CONVENIENT ENTRY AND EXIT

A large step and grab handle, contoured hood and flip up armrests help make it easy for the operator to get in and out of the truck.



SPACIOUS OPERATOR COMPARTMENT

Roomy operator compartment with ample floor space and a wide range of seat adjustment helps the operator to find a comfortable position, stretch their legs, and stay comfortable for long shifts.



EXCELLENT VISIBILITY

A low dash and wide mast window provide excellent visibility through the mast, enhanced visibility of fork tips and load when picking at height, and excellent visibility when traveling forward.



DYNAMIC STABILITY SYSTEM (DSS)

An innovative, maintenance-free system that promotes operating best practices by implementing truck performance limitations to help minimize forward and sideways tip-overs.¹



HEAVY-DUTY INDUSTRIAL YANMAR ENGINE

Utilizes a heavy-duty EPA-certified Yanmar 2.2L LPG engine designed with extended preventive maintenance service intervals for continuous, heavy use.

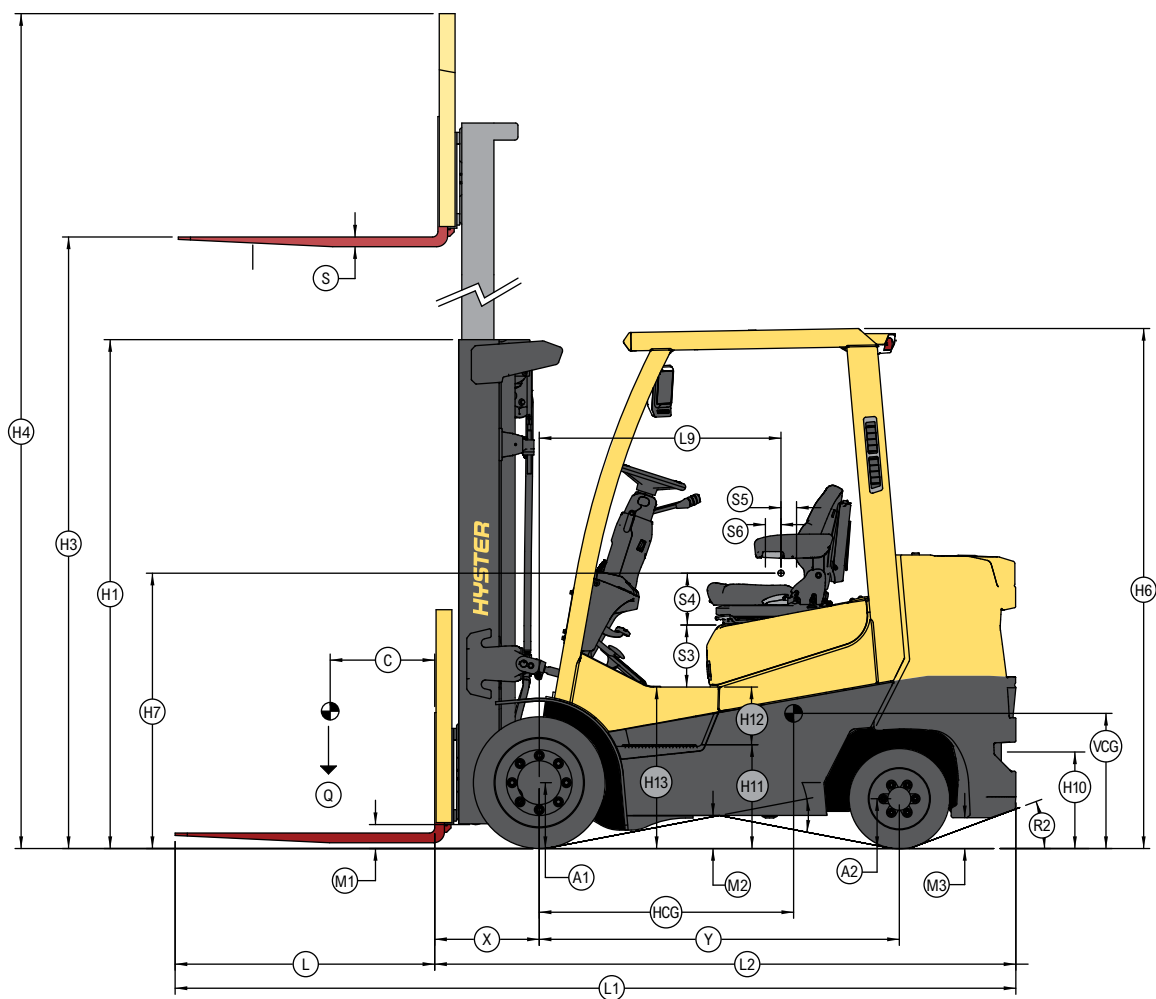
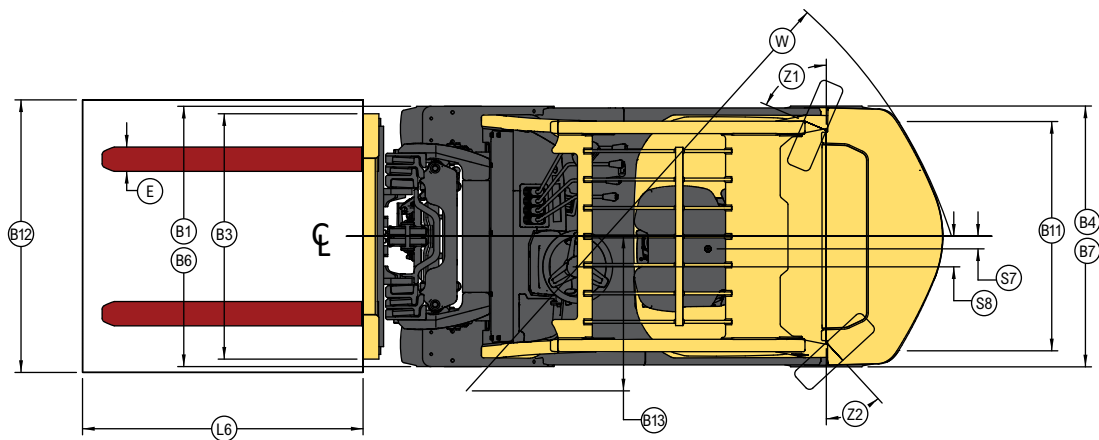


DEPENDABLE HIGH PERFORMANCE TECHNOLOGY

Engineered with a reliable, aluminum transmission and robust steer axle with tapered roller bearings to help minimize downtime and simplify service.

¹ While lift truck systems support safe operation and help minimize the potential for tip overs, proper operation of the lift truck and 100% full-time utilization of the truck's seat belt are the primary and best means of keeping the truck and operator upright and safe. Refer to the operator and service manuals for proper operation and maintenance.

S40-70A



S40-70A

S40-50A, S55AS MAST DIMENSIONS

Maximum Lift Height (Top of Fork)	Overall Lowered Height	Overall Extended Height		Free Lift Height (Top of Fork)	
		without LBR	with 48-inch (1220mm) LBR	without LBR	with 48-inch (1220mm) LBR
in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)
2-STAGE LIMITED FREE LIFT (LFL) MAST					
79.8 (2030)	60.2 (1530)	102 (2590)	128 (3250)	3.5 (90)	
128 (3260)	84 (2130)	151 (3830)	164.5 (4180)		
2-STAGE FULL FREE LIFT (FFL) MAST					
127.5 (3240)	82 (2080)	150.5 (3820)	176 (4460)	59 (1500)	33.5 (860)
131.5 (3340)	84 (2130)	155.5 (3920)	179.5 (4560)	61 (1550)	35.5 (910)
3-STAGE FULL FREE LIFT (FFL) MAST					
173 (4400)	78 (1980)	195.5 (4970)	221.5 (5620)	55.5 (1410)	29.5 (760)
189 (4800)	82 (2080)	211.5 (5370)	237 (6020)	59.5 (1510)	33.5 (860)
194.5 (4950)	84 (2130)	217.5 (5520)	243 (6170)	61.5 (1560)	35.5 (910)
200.5 (5100)	88 (2230)	223 (5670)	249 (6320)	65.5 (1660)	39.5 (1010)
206.5 (5250)	90 (2280)	229 (5820)	255 (6470)	67.5 (1710)	41.5 (1060)
218.5 (5550)	94 (2380)	241 (6120)	266.5 (6770)	71.5 (1810)	45.5 (1160)
4-STAGE FULL FREE LIFT (FFL) MAST					
228 (5790)	80 (2030)	254 (6440)	158.5 (4020)	54 (1380)	31.5 (810)
240 (6100)	84 (2130)	266 (6750)	170.5 (4330)	58 (1480)	35.5 (910)
252 (6400)	88 (2230)	278 (7050)	182.5 (4630)	62 (1580)	39.5 (1010)
264 (6710)	92 (2330)	290 (7360)	194.5 (4940)	66 (1680)	43.5 (1110)
276 (7010)	96 (2430)	302 (7660)	206.5 (5240)	70 (1780)	47.5 (1210)

S60-70A MAST DIMENSIONS

Maximum Lift Height (Top of Fork)	Overall Lowered Height	Overall Extended Height		Free Lift Height (Top of Fork)	
		without LBR	with 48-inch (1220mm) LBR	without LBR	with 48-inch (1220mm) LBR
in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)
2-STAGE LIMITED FREE LIFT (LFL) MAST					
125 (3180)	86 (2180)	151 (3830)	173.5 (4400)	3.9 (100)	
2-STAGE FULL FREE LIFT (FFL) MAST					
122 (3100)	82 (2080)	147.5 (3750)	170.5 (4330)	56.5 (1440)	33.5 (860)
130 (3300)	86 (2180)	155.5 (3950)	178.5 (4530)	60.5 (1540)	37.5 (960)
3-STAGE FULL FREE LIFT (FFL) MAST					
181.5 (4620)	84 (2130)	206.5 (5250)	230 (5840)	62 (1570)	36 (920)
187.5 (4770)	88 (2230)	212.5 (5400)	236 (5990)	66 (1670)	40 (1020)
199.5 (5070)	92 (2330)	224.5 (5700)	248 (6290)	69.5 (1770)	44 (1120)
205 (5220)	94 (2380)	230.5 (5850)	253.5 (6440)	71.5 (1820)	46 (1170)
211 (5370)	98 (2480)	236.5 (6000)	259.5 (6590)	75.5 (1920)	50 (1270)
229 (5820)	103.5 (2630)	254 (6450)	277.5 (7040)	81.5 (2070)	55.5 (1420)
4-STAGE FULL FREE LIFT (FFL) MAST					
228 (5790)	80 (2030)	254 (6440)	158.5 (4020)	54 (1380)	31.5 (810)
240 (6100)	84 (2130)	266 (6750)	170.5 (4330)	58 (1480)	35.5 (910)
252 (6400)	88 (2230)	278 (7050)	182.5 (4630)	62 (1580)	39.5 (1010)
264 (6710)	92 (2330)	290 (7360)	194.5 (4940)	66 (1680)	43.5 (1110)
276 (7010)	96 (2430)	302 (7660)	206.5 (5240)	70 (1780)	47.5 (1210)

NOTE: [1] 4-Stage Full Free Lift (FFL) Mast not available on S70A.

S40-70A SPECIFICATIONS

GENERAL	1	Manufacturer name			Hyster Company				
	2	Model			S40A	S50A	S55AS	S60A	S70A
	3	Engine			Yanmar 2.2L				
	4	Power type - LPG, diesel, dual fuel			LPG				
	5	Operator type			Seated				
	6	Rated capacity	Q	lbs. (kg)	4000 (1814)	5000 (2268)	5500 (2495)	6000 (2722)	7000 (3175)
	7	Load center distance	C	in. (mm)	24.0 (610)				
	8	Length, center of drive wheel to face of forks	X	in. (mm)	16.6 (420)			17.4 (442)	
	9	Wheelbase	Y	in. (mm)	58.3 (1480)				
WEIGHT	10	Weight, Standard Truck NL		lbs. (kg)	7850 (3560)	8620 (3910)	9300 (4220)	9770 (4430)	10620 (4820)
	11	Weight, Standard Truck RL		lbs. (kg)	11850 (5380)	13620 (6180)	14800 (6710)	15770 (7160)	17620 (7990)
	12	Axle Loading Front/Rear NL		lbs. (kg)	3450/4400 (1560/2000)	3220/5400 (1460/2450)	3330/5970 (1510/2710)	3230/6540 (1470/2970)	3020/7610 (1370/3450)
	13	Axle Loading Front/Rear RL		lbs. (kg)	10270/1580 (4660/720)	11730/1880 (5320/850)	12700/2100 (5760/950)	13490/2280 (6120/1030)	14990/2640 (6800/1200)
TIRES	14	Tire type - cushion, solid, pneumatic			Cushion				
	15	Tire size, front			21 x 7 x 15		21 x 8 x 15		21 x 9 x 15
	16	Tire size, rear			16 x 5 x 10.5		16 x 6 x 10.5		16 x 7 x 10.5
	17	Wheels, number front/rear (x = driven wheels)			2x/2				
DIMENSIONS	18	Mast tilt angles, forward/backward	α / β	degrees	6/5				
	19	Height, Mast Lowered	H1	in. (mm)	83.9 (2130)			86 (2180)	
	20	Lift Height, Top of Fork (TOF)	H3	in. (mm)	128.3 (3260)			125 (3180)	
	21	Free Lift Height, Limited Free Lift Mast (TOF)	21	in. (mm)	3.5 (90)			3.9 (100)	
	22	Height of standard overhead guard	H6	in. (mm)	83.7 (2127)				
	23	Height of lowered overhead guard	H6	in. (mm)	81.0 (2058)				
	24	Step height	H11	in. (mm)	16.3 (415)				
	25	Tow pin height	H10	in. (mm)	14.4 (365)				
	26	Height of Counterweight	26	in. (mm)	47.0 (1200)		47.5 (1210)	47.0 (1200)	
	27	Length to face of forks	L2	in. (mm)	91.2 (2317)	93.7 (2381)	90.7 (2304)	97.3 (2471)	99.1 (2517)
	28	Rear Overhang (Steer Axle Center to Counterweight)	Z	in. (mm)	16.3 (415)	18.9 (479)	15.8 (402)	21.6 (549)	23.4 (595)
	29	Departure angle	R2	degrees (%)	21 (39)	20 (37)	22 (40)	18 (32)	13 (24)
	30	Overall width, standard tread	B1	in. (mm)	42.2 (1072)		44.2 (1122)		46.2 (1174)
	31	Overall width, wide treadw	B6	in. (mm)	49.8 (1264)				
	32	Forks, thickness x width x length	SxExL	in. (mm)	1.6 x 3.9 x 42 (40 x 100 x 1067)			2.0 X 4.9 X 42 (50 X 125 X 1067)	
	33	Standard Carriage Width	B3	in. (mm)	38.5 (977)				
	34	Maximum Fork Spread, Outside Dimensions	34	in. (mm)	33.5 (850)			34.4 (875)	
	35	Ground clearance below mast RL	M1	in. (mm)	3.2 (81)				
	36	Ground clearance, center of wheelbase NL	M2	in. (mm)	4.5 (115)				
	PERFORMANCE	37	Breakover angle	R1	degrees (%)	18 (32)			
38		Aisle width, right angle stack (add length of load and clearance)	AST	in. (mm)	95.9 (2436)	98.2 (2494)	95.6 (2427)	101.4 (2575)	103.6 (2631)
39		Equal Aisle, 90-Degree Intersecting Aisle	AW	in. (mm)	73.8 (1875)	75.0 (1904)	73.7 (1872)	77.1 (1957)	78.1 (1983)
40		Outside turning radius (OTR)	W	in. (mm)	79.4 (2016)	81.7 (2074)	79.0 (2007)	84.0 (2133)	86.2 (2189)
41		Travel Speed RL/NL		mph (km/h)	11.1/11.0 (17.9/17.6)	11.1/10.9 (17.8/17.6)	11.1/10.9 (17.8/17.6)	11.1/10.9 (17.8/17.6)	11.0/10.9 (17.8/17.6)
42		Lift Speed, Standard 2-Stage LFL RL/NL		ft/min (m/s)	121.8/128.9 (0.62/0.65)	120.1/128.9 (0.61/0.65)	119.2/128.9 (0.61/0.65)	105.1/113.3 (0.53/0.58)	103.7/113.3 (0.53/0.58)
43		Lift Speed, Optional 2-Stage FFL RL/NL		ft/min (m/s)	109.1/114.7 (0.55/0.58)	107.7/114.7 (0.55/0.58)	106.9/114.7 (0.54/0.58)	101.7/109.2 (0.52/0.55)	94.2/109.2 (0.48/0.55)
44		Lift Speed, Optional 3-Stage FFL RL/NL		ft/min (m/s)	115.5/121.8 (0.59/0.62)	113.9/121.8 (0.58/0.62)	113.1/121.8 (0.57/0.62)	101.2/108.8 (0.51/0.55)	99.9/108.8 (0.51/0.55)
45		Lowering Speed, Standard 2-Stage LFL RL/NL		ft/min (m/s)	114.2/96.5 (0.58/0.49)	114.2/96.5 (0.58/0.49)	114.2/96.5 (0.58/0.49)	114.2/104.3 (0.58/0.53)	114.2/104.3 (0.58/0.53)
46		Lowering Speed, Optional 2-Stage FFL RL/NL		ft/min (m/s)	106.3/78.7 (0.54/0.40)	106.3/78.7 (0.54/0.40)	106.3/78.7 (0.54/0.40)	112.2/84.6 (0.57/0.43)	112.2/84.6 (0.57/0.43)
47		Lowering Speed, Optional 3-Stage FFL RL/NL		ft/min (m/s)	112.2/88.6 (0.57/0.45)	112.2/88.6 (0.57/0.45)	112.2/88.6 (0.57/0.45)	108.3/92.5 (0.55/0.47)	108.3/92.5 (0.55/0.47)
48		Drawbar Pull @ 1mph (1.6kph) RL/NL		lbs. (kg)	4064/2117 (1843/960)	4032/1975 (1829/896)	3985/2042 (1808/926)	3959/1987 (1796/901)	3924/1859 (1780/843)
49		Maximum Drawbar Pull RL/NL		lbs. (kg)	4879/2117 (2213/960)	4847/1975 (2199/896)	4788/2042 (2172/926)	4762/1987 (2160/901)	4727/1859 (2144/843)
POWERTRAIN	50	Gradeability @ 1mph (1.6kph) RL/NL		%	36/27	31/23	28/22	26/20	23/17
	51	Engine manufacturer and model			Yanmar				
	52	Power output @ RPM		hp (kW)	56 (42) @ 2530				
	53	Torque @ RPM		ft-lbs. (N-m)	128 (174) @ 1690				
	54	Number of cylinders/displacement		cc (ci)	2530				
	55	Battery type			4/2189 (134)				
	56	Volts/cold cranking amps		V/A	12/530				
	57	Transmission type, standard			Electronic powershift				
	58	Standard speeds, forward - reverse			1 - 1				
	59	Auxiliary hydraulic pressure relief for attachments		psi (MPa)	1740 (12)				
	60	Oil flow for attachments		gal/min (L/min)	16 (60)				
	61	Hydraulic Tank Capacity (Drain and Refill)		gal (L)	8.3 (31.6)				
	62	Fuel Tank Capacity (Gas Powered Units Only)		gal (L)	9.4 (35.6)				

NOTE: Above specifications, unless otherwise listed, are for a standard truck without optional equipment. RL = Rated Load NL = No Load [1] Add 1.4 in. (35mm) to S40-55A or 1.1in. (28mm) to S60-70A when equipped with Integral Sideshifting Carriage.

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 affected by the condition of the vehicle and how it is equipped, as well as by the nature and condition of the operating area. Specifications are subject to change and the proposed application should be discussed with your authorized Hyster Company Dealer.


S40-70A FEATURES AND OPTIONS

POWERTRAIN	STD	OPT
Engine - Yanmar 2.2L EPA-certified LPG	x	
Engine - Yanmar 2.2L EPA-Certified Dual Fuel LPG/Gasoline		x
Powershift transmission	x	
Duramatch™ transmission		x
Brakes - self energizing drum	x	
Key switch start	x	
Keyless start with operator password		x
High air intake	x	
High air intake with pre-cleaner		x
Heavy-duty high air intake with or without pre-cleaner		x
Swing-out LPG tank bracket	x	
Swing-out and drop down LPG tank bracket		x
LPG tank bracket interlock		x
Exhaust wraps		x
Single pedal inch brake	x	
Dual pedal inch brake		x
Diamond plate brake pedal pad		x
U.L. label - standard construction (type LP)	x	
U.L. label - safety construction (type LPS)		x
System monitoring	x	
Premium monitoring		x
On-demand cooling system		x
High capacity starter battery		x
Engine block heater		x
Radiator lint screen		x
Powertrain protection system with engine shutdown		x
Empty seat engine shutdown		x
Traction speed limiter pre-set to 8mph		x
Travel speed indicator		x
LIFT OPTIONS - FRONT END EQUIPMENT	STD	OPT
2-stage limited free lift mast	x	
2-stage full free lift mast		x
3-stage full free lift mast		x
4-stage full free lift mast		x
38.5" wide hook type carriage	x	
38.5" wide hook type integral sideshift carriage		x
38.5" wide hook type integral sideshifting fork positioner carriage		x
38.5" attachment carriage		x
Hook type standard taper forks	x	
Hook type polished & full bottom taper forks		x
48" high load backrest extension	x	
36" high load backrest extension		x
60" high load backrest extension		x
Mast tilt - 6° forward/6° back	x	
Mast tilt - 10° forward/6° back		x
Tilt cylinder boots		x
Hydraulic accumulator		x
Laser level line		x
LIFT OPTIONS - HYDRAULICS	STD	OPT
Standard displacement hydraulic pump	x	
On-demand hydraulic system		x
Mechanical lever hydraulic controls	x	
Mini-lever hydraulic controls		x
Hydraulic controls for use with clamping attachments		x
Hydraulic controls with return to set tilt		x
3 function (1 auxiliary) hydraulic control valve	x	
4 function (2 auxiliary) hydraulic control valve		x
Auxiliary function hose groups		x
Attachment extension tubes, with or without quick disconnects		x
High temperature hydraulic fluid		x

CHASSIS - WHEELS & TIRES	STD	OPT
Standard tread width	x	
Wide tread width		x
Smooth cushion tires	x	
Non-marking smooth cushion tires		x
Lugged cushion tires		x
CHASSIS	STD	OPT
Dynamic stability system (DSS)	x	
Belly screen		x
Drive axle string cutters		x
Frame rub rails and fender hooks		x
Hyster Tracker™ wireless monitoring		x
Hyster Tracker™ wireless access		x
Hyster Tracker™ wireless verification		x
CHASSIS - OPERATOR COMPARTMENT	STD	OPT
84" rectangular tube operator compartment	x	
82" rectangular tube operator compartment		x
84" figure 8 tube operator compartment		x
Grid style overhead guard	x	
Clear view overhead guard		x
Polycarbonate rain top		x
Directional lever direction control	x	
Monotrol® directional control pedal		x
Seat side directional control		x
Steering wheel with spinner knob	x	
Steering wheel without spinner knob		x
Tilt steering column - infinitely adjustable with 26 degree range	x	
Telescopic steering column		x
2.8" color touchscreen operator display	x	
5" color touchscreen operator display		x
Non-suspension vinyl seat	x	
Non-suspension cloth seat		x
Full suspension seat, vinyl or cloth		x
Air ride full suspension seat, vinyl or cloth		x
Low-profile full suspension vinyl seat		x
Seat belt - black - no-cinch with ELR (emergency locking retractor)	x	
Seat belt - high-visibility red - no-cinch with ELR		x
Seat belt - high-visibility red - no-cinch with ELR + start interlock		x
CHASSIS - OPERATOR COMPARTMENT ACCESSORIES	STD	OPT
Accessory mounting post		x
Swing-out accessory arm		x
Dual side view mirrors		x
Single panoramic mirror		x
Rear drive handle with horn button		x
12 volt auxiliary supply		x
12 volt power supply with 2 USB charging ports		x
Operator fan		x
Fire extinguisher		x
LIGHTS & ALARMS	STD	OPT
Halogen work lights		x
LED work lights		x
Reverse-activated rear work light		x
Key activated work light control		x
Automatic (ambient) work light control		x
Led brake/tail/backup tail light package, with or without turn signals		x
Visible alarm amber strobe - keyswitch activated		x
Blue LED pedestrian awareness spot light - front, rear or both		x
Red LED pedestrian awareness spot light - front, rear or both		x
Red pedestrian awareness perimeter lights - left and right		x
Red pedestrian awareness perimeter lights - left, right and rear		x
LED mast lights - 2 up, 2 down or 2 up and 2 down		x
Audible alarm - reverse direction activated - self-adjusting		x



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