



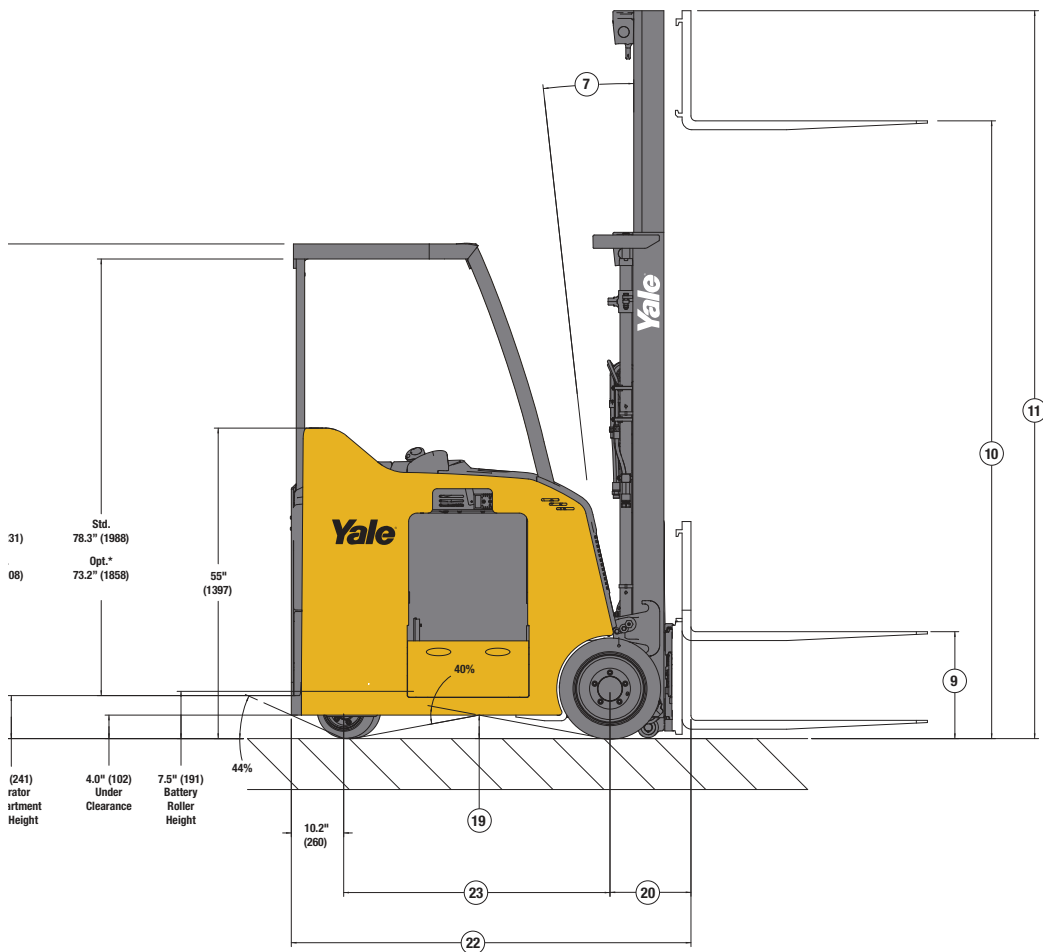
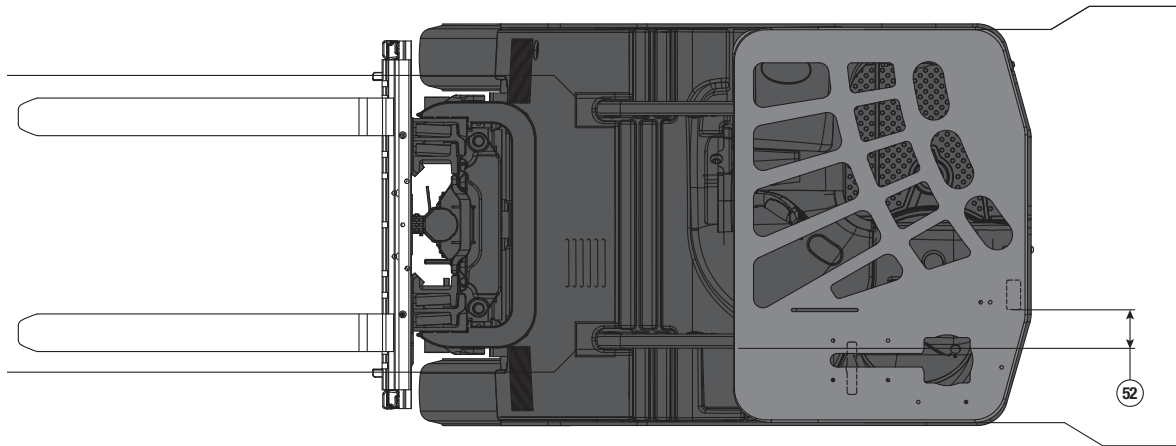
# ESC 030-040AD

SPEC SHEET

3-wheel stand-up  
electric counterbalanced  
forklift

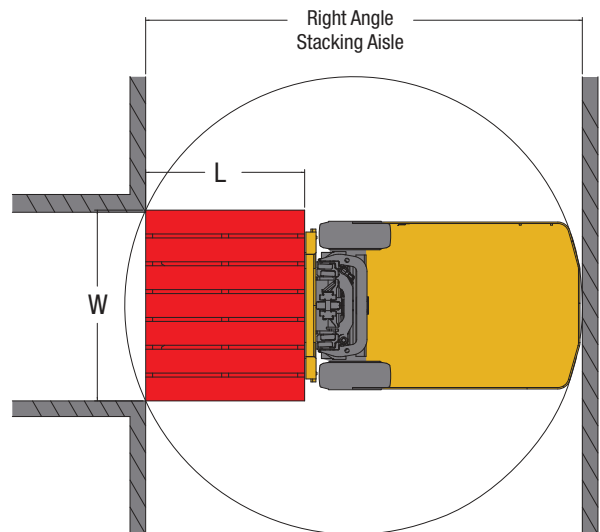
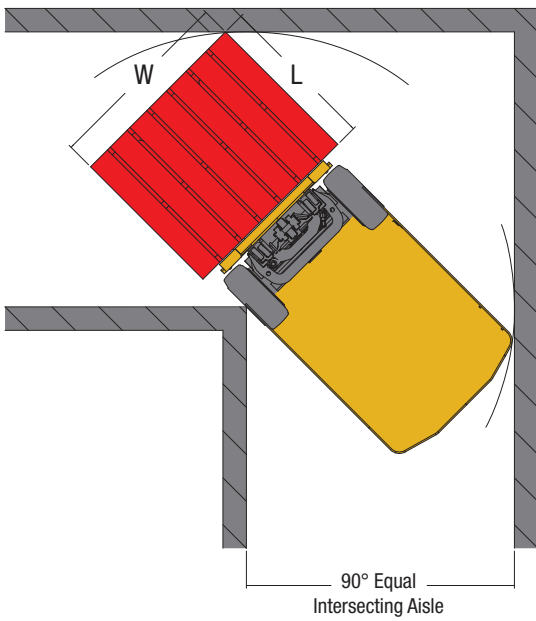
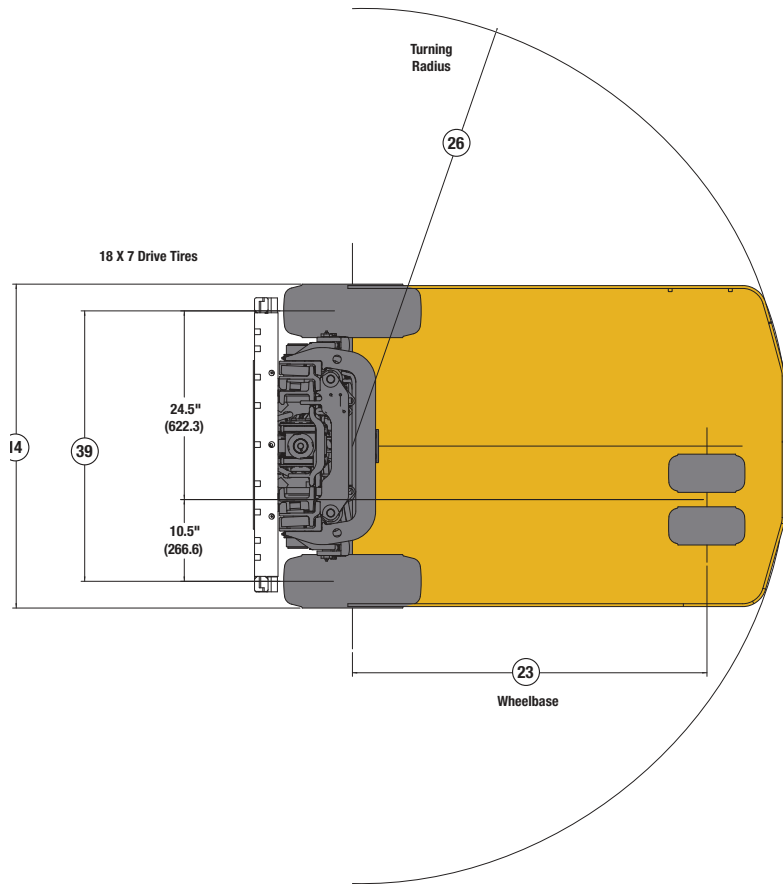
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3,000-4,000 lbs.



\* Measurement assumes zero compression of floor plate suspension spring, which varies depending on operator weight (typical 1/2" deflection could be assumed for increased operator height clearance).

Circled dimensions correspond to the line numbers in the General Specifications chart. Dimensions are listed in inches (millimeters).



Circled dimensions correspond to the line numbers in the General Specifications chart. Dimensions are listed in inches (millimeters).

**GENERAL SPECIFICATIONS - ESC030AD**

GENERAL	1	Manufacturer			Yale			
	2	Model designation			ESC030AD			
	3	Power/voltage			Electric/36 volts			
	4	Operation type			Stand			
	5	Rated capacity		lb. (kg)	3000 (1361)			
	6	Load center		in. (mm)	24 (609)			
DIMENSIONS	7	Mast tilt std	Opt	degrees	5F/5B (10F/5B)			
	8	Mast	Lowered height (std mast)		in. (mm)	84 (2130)		
	9	Free lift – top of fork (std 2-stage limited free lift (LFF) mast)			in. (mm)	5 (140)		
	9a	Free lift – top of fork (opt 2-stage full free lift (FFL) mast w/wo LBR)			in. (mm)	33/61 (860/1555)		
	10	Lift height	Top of fork (std 2-stage LFL mast)		in. (mm)	131 (3332)		
	11	Mast	Extended height (std mast with/without LBR)		in. (mm)	180/154 (4555/3912)		
	12	Overhead guard height	Std/opt		in. (mm)	88/83 (2234/2108)		
	13	Grade clearance			%	40		
	14	Overall width			in. (mm)	42 (1067)		
	15	Forks	Thickness x width x length		in. (mm)	1.5 x 4 x 42 (38 x 102 x 1067)		
	16	Standard carriage width	Class II		in. (mm)	38.5 (978)		
	17	Floor to top of battery rollers			in. (mm)	7.5 (190)		
	19	Ground clearance	Center of wheelbase) NL		in. (mm)	4 (102)		
	20	Load distance (ctr of wheel to face of forks)	3-Stage FFL Clear View™ mast †		in. (mm)	12.8 (327)		
	20a		2-Stage LFL/FFL, 3-stage FFL Hi-Vis™ mast ††		in. (mm)	12.6 (321)		
	20b		4-Stage mast †††		in. (mm)	N/A	N/A	18.3 (464)
	21	Battery compartment	Height		in. (mm)	31.1 (790)		
	21a		Length		in. (mm)	13.8 (352)	16.0 (408)	18.3 (464)
	21b		Width	Nominal	size	38"		
	21c		Width	Actual	in. (mm)	38.6 (980)		
	22	Length to face of forks <sup>Δ</sup>			in. (mm)	62.3 (1583)	64.5 (1639)	66.7 (1695)
	23	Wheelbase			in. (mm)	39.4 (1001)	41.6 (1057)	43.8 (1113)
	24	Aisle width <sup>ΔA</sup>			in. (mm)	111.3 (2827)	113.4 (2880)	115.5 (2934)
	25	Equal aisle, 90° intersecting aisle <sup>ΔA</sup>			in. (mm)	68.0 (1728)	68.5 (1740)	69.0 (1752)
	26	Turning radius <sup>Δ</sup>			in. (mm)	50.7 (1289)	52.8 (1341)	54.9 (1395)
	PERFORMANCE	27	Travel speed		NL/RL	mph (km/h)	7.2/7.2 (11.6/11.6)	
28		Lift speed	Std 2-stage LFL mast	NL/RL	ft/min (m/sec)	87/59 (0.44/0.30)		
28a			Opt 2-stage FFL mast	NL/RL	ft/min (m/sec)	87/59 (0.44/0.30)		
28b			Opt 3-stage FFL Clear View™ mast	NL/RL	ft/min (m/sec)	99/69 (0.50/0.35)		
28c			Opt 3-stage FFL mast	NL/RL	ft/min (m/sec)	83/65 (0.42/0.33)		
28d			Opt 4-stage FFL mast	NL/RL	ft/min (m/sec)	N/A	N/A	113/79 (0.57/0.40)
29		Lower speed	Std 2-stage LFL mast	NL/RL	ft/min (m/sec)	63/100 (0.32/0.51)		
29a			Opt 2-stage FFL mast	NL/RL	ft/min (m/sec)	61/98 (0.31/0.50)		
29b			Opt 3-stage FFL Clear View™ mast	NL/RL	ft/min (m/sec)	71/102 (0.36/0.52)		
29c			Opt 3-stage FFL mast	NL/RL	ft/min (m/sec)	71/88 (0.36/0.45)		
29d			Opt 4-stage FFL mast	NL/RL	ft/min (m/sec)	N/A	N/A	86/100 (0.44/0.51)
30		Gradeability	5 minute rating	NL/RL	%	15.0/15.0		
31		Drawbar pull	5 minute rating	NL/RL	lbf	2602/2356		
32		Brake	Method of control			Spring apply/elec. released		
32a	Method of operation			Foot				
WT.	33	Truck weight	Without battery	NL	lb. (kg)	6353 (2882)	6373 (2891)	6263 (2841)
	34	Axle loading – drive	Static with max. wt. battery	NL/RL	lb. (kg)	3991/9149 (1810/4150)	4080/9107 (1851/4131)	4260/9765 (1932/4429)
	35	Axle loading – steer	Static with max. wt. battery	NL/RL	lb. (kg)	4462/2304 (2024/1045)	4572/2545 (2074/1154)	4702/2198 (2133/997)
TIRE/ WHEELS	36	Tire type	Rubber, polyurethane etc. (drive/steer)			Rubber/polyurethane		
	37	Tire size	Drive/steer		in	18 x 7 - 12.1/10 x 5 - 6.5		
	38	Wheels – number (X=driven) drive/steer				2X/2		
39	Tread (tires) std dr/steer/steer			in. (mm)	35/10.5/24.5 (889/267/622)			
BATTERY	40	Battery	Type		Lead acid			
	40a		Volts		36			
	40b		Minimum weight		lb. (kg)	1700 (771)	1980 (898)	2300 (1043)
MOTORS	41	Traction motors (dual) 60 minute rating each			hp (kW)	6.4 (4.8)		
	42	Pump motor 15 minute rating			hp (kW)	16.1 (12)		
	43	Traction motors	Type/control method		AC/Transistor			
	44	Pump motor	Type/control method		AC/Transistor			
	45	Number of speeds			Traction & pump			
OTHER	46	Step height			in. (mm)	9.5 (241)		
	47	Attachment relief pressure			psi (bar)	2000 (138)		
	49	Sound level	measured per ANSI B56.11.5		dB (A)	69		
	50	Front leg width			in. (mm)	25.8 (656)		
	51	Canopy width			in. (mm)	41.3 (10500)		
52	Rear leg offset**			in. (mm)	3.4 (85.8)			

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

RL = rated load, NL = no load

\*Right angle stack and equal intersecting aisle dimensions provided with a 48" long and 40" wide pallet load, 2-stage LFL mast with standard carriage, allowing zero clearance.

Δ External mounted operator sensing system egress option will increase length of truck by 1.9" (48mm)

RAS = Turn radius + load distance + load length + clearance

† 3-stage FFL Clear View™ mast add 1.8" for S/S

†† 2-stage LFL/2 stage-FFL/3-stage FFL Hi-Vis™ mast add 1.7" for S/S

††† 4-stage FFL mast add 1.4" for S/S

\*\* Rear leg dimension does not include optional equipment such as work lights, visible alarms or Telemetry, which may reduce clearance.

**GENERAL SPECIFICATIONS - ESC035-040AD**

		GENERAL		Yale		
				ESC035AD	ESC035AD	ESC040AD
1		Manufacturer		Yale		
2		Model designation		ESC035AD	ESC035AD	ESC040AD
3		Power/voltage		Electric/36 volts		
4		Operation type		Stand		
5		Rated capacity		3500 (1588)	3500 (1588)	4000 (1814)
6		Load center		24 (609)		
7		Mast tilt std	Opt	degrees		
8		Mast	Lowered height (std mast)	in. (mm)		
9		Free lift – top of fork (std 2-stage limited free lift (LFF) mast)		5 (140)		
9a		Free lift – top of fork (opt 2-stage full free lift (FFL) mast w/wo LBR)		33/61 (860/1555)		
10		Lift height	Top of fork (std 2-stage LFL mast)	in. (mm)		
11		Mast	Extended height (std mast with/without LBR)	180/154 (4555/3912)		
12		Overhead guard height	Std/opt	in. (mm)		
13		Grade clearance		%		
14		Overall width		in. (mm)		
15		Forks	Thickness x width x length	in. (mm)		
16		Standard carriage width	Class II	in. (mm)		
17		Floor to top of battery rollers		in. (mm)		
19		Ground clearance (center of wheelbase) NL		in. (mm)		
20		Load distance	3-stage FFL Clear View™ mast †	in. (mm)		
20a		ctr of wheel to face of forks)	2-stage LFL/FFL, 3-stage FFL Hi-Vis™ mast ††	in. (mm)		
20b			4-stage mast †††	in. (mm)		
21			Height	in. (mm)		
21a		Battery compartment	Length	18.3 (464)	20.8 (528)	20.8 (528)
21b			Width	Nominal	size	
21c			Width	Actual	in. (mm)	
22		Length to face of forks <sup>Δ</sup>		66.7 (1695)	69.3 (1759)	69.3 (1759)
23		Wheelbase		43.8 (1113)	46.3 (1177)	46.3 (1177)
24		Aisle width <sup>Δ</sup>		115.5 (2934)	118 (2997)	118 (2997)
25		Equal aisle, 90° intersecting aisle <sup>Δ</sup>		69.0 (1752)	69.6 (1768)	69.6 (1768)
26		Turning radius <sup>Δ</sup>		54.9 (1395)	57.4 (1458)	57.4 (1458)
27		Travel speed		NL/RL	mph (km/h)	
28		Lift speed	Std 2-stage LFL mast	NL/RL	ft/min (m/sec)	
28a			Opt 2-stage FFL mast	NL/RL	ft/min (m/sec)	
28b			Opt 3-stage FFL Clear View™ mast	NL/RL	ft/min (m/sec)	
28c			Opt 3-stage FFL mast	NL/RL	ft/min (m/sec)	
28d		Opt 4-stage FFL mast	NL/RL	113/76 (0.57/0.38)	113/76 (0.57/0.38)	113/68 (0.57/0.35)
29		Lower speed	Std 2-stage LFL mast	NL/RL	ft/min (m/sec)	
29a			Opt 2-stage FFL mast	NL/RL	ft/min (m/sec)	
29b			Opt 3-stage FFL Clear View™ mast	NL/RL	ft/min (m/sec)	
29c			Opt 3-stage FFL mast	NL/RL	ft/min (m/sec)	
29d		Opt 4-stage FFL mast	NL/RL	ft/min (m/sec)		
30		Gradeability		5 minute rating	NL/RL	
31		Drawbar pull		5 minute rating	NL/RL	lbf
32		Brake		Method of control		
32a				Method of operation		
33		Truck weight		Without battery	NL	lb. (kg)
34		Axle loading – drive		Static with max. wt. battery	NL/RL	lb. (kg)
35		Axle loading – steer		Static with max. wt. battery	NL/RL	lb. (kg)
36		Tire type		Rubber, polyurethane etc. (drive/steer)		
37		Tire size		Drive/steer		
38		Wheels – number (X=driven) drive/steer		in.		
39		Tread (tires) std dr/steer/steer		in. (mm)		
40		Battery		Type		
40a				Volts		
40b				Minimum weight		
41		Traction motors (dual) 60 minute rating each		hp (kW)		
42		Pump motor 15 minute rating		hp (kW)		
43		Traction motors		Type/control method		
44		Pump motor		Type/control method		
45		Number of speeds		Traction & pump		
46		Step height		in. (mm)		
47		Attachment relief pressure		psi (bar)		
49		Sound level		measured per ANSI B56.11.5		
50		Front leg width		in. (mm)		
51		Canopy width		in. (mm)		
52		Rear leg offset**		in. (mm)		

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

RL = rated load, NL = no load

\*Right angle stack and equal intersecting aisle dimensions provided with a 48" long and 40" wide pallet load, 2-stage LFL mast with standard carriage, allowing zero clearance.  
 Δ External mounted operator sensing system egress option will increase length of truck by 1.9" (48mm)  
 RAS = Turn radius + load distance + load length + clearance  
 † 3-stage FFL Clear View™ mast add 1.8" for S/S  
 †† 2-stage LFL/2 stage-FFL/3-stage FFL Hi-Vis™ mast add 1.7" for S/S  
 ††† 4-stage FFL mast add 1.4" for S/S  
 \*\* Rear leg dimension does not include optional equipment such as work lights, visible alarms or Telemetry, which may reduce clearance.

## MAST DIMENSIONS - ESC030-040AD

Maximum fork height	Overall lowered height	Overall extended height		Free lift (TOF)	
		w/Load backrest	w/o Load backrest	w/Load backrest	w/o Load backrest
in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)
<b>2-STAGE LIMITED FREE LIFT (LFL) HI-VIS™ MAST (3000-4000 LB)</b>					
131 (3332)	84 (2130)	180 (4562)	154 (3906)	5 (140)	5 (140)
139 (3532)	88 (2230)	188 (4762)	162 (4106)	5 (140)	5 (140)
<b>2-STAGE FULL FREE LIFT (FFL) HI-VIS™ MAST (3000-4000 LB)</b>					
40 (1018)	48 (1220)	90 (2286)	75 (1905)	0 (0)	12 (305)
130 (3318)	84 (2130)	180 (4568)	154 (3913)	35 (900)	61 (1555)
138 (3518)	88 (2230)	188 (4768)	162 (4113)	39 (1000)	65 (1655)
<b>3-STAGE (FFL) (CLEAR VIEW™) MAST (3000 LB ONLY)</b>					
157 (4000)	74 (1880)	206 (5229)	178 (4521)	25 (635)	53 (1346)
192 (4900)	86 (2180)	242 (6129)	213 (5410)	37 (940)	65 (1651)
198 (5050)	90 (2280)	248 (6279)	219 (5563)	41 (1041)	69 (1753)
210 (5350)	94 (2380)	259 (6579)	231 (5867)	45 (1143)	73 (1854)
216 (5500)	96 (2430)	265 (6726)	237 (6020)	47 (1194)	75 (1905)
<b>3-STAGE (FFL) HI-VIS™ MAST (3000-4000 LB)</b>					
187 (4750)	82 (2080)	236 (5980)	210 (5325)	33 (850)	59 (1505)
192 (4900)	84 (2230)	238 (6030)	212 (5375)	35 (900)	61 (1555)
198 (5050)	88 (2230)	248 (6280)	221 (5625)	39 (1000)	65 (1655)
222 (5650)	98 (2480)	271 (6880)	245 (6225)	49 (1250)	75 (1905)
228 (5800)	100 (2530)	277 (7030)	251 (6375)	51 (1300)	77 (1955)
<b>4-STAGE (FFL) MAST</b>					
241 (6121)*	84 (2121)	289 (7340)	264 (6708)	37 (935)	60 (1524)
259 (6578)*	90 (2273)	306 (7772)	282 (7165)	43 (1087)	65 (1651)
283 (7188)†	99 (2502)	331 (8407)	306 (7775)	52 (1316)	74 (1880)

\* Available on 3000 / 3500 / 4000 lb trucks with 18.3" or 20.8" battery compartment only

† Available on 3500 / 4000 lb trucks with 20.8" battery compartment only

## BATTERY & COMPARTMENT SPECIFICATIONS - ESC030-040AD

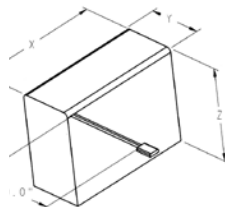
Truck Model	Compartment dim.			Battery dim - max			Volts	No. of cells	Plates per cell	Max capacity	Weight	
	Width	Length	Height	"X"	"Y"	"Z"					6 Hr rate	Min
	in. (mm)			in. (mm)						amp hr (kwh)	lb. (kg)	
ESC030AD standard 13.8" compartment	38.6 (980)	13.8 (351)	31.1 (790)	38.5 (978)	13.4 (340)	31 (787)	36	18	11	775 (27.1)	1700 (771)	2000 (907)
ESC030AD standard 16.0" compartment	38.6 (980)	16.0 (407)	31.1 (790)	38.5 (978)	15.6 (397)	31 (787)	36	18	13	930 (32.5)	1980 (898)	2300 (1043)
ESC030AD standard 18.3" compartment	38.6 (980)	18.3 (465)	31.1 (790)	38.5 (978)	17.9 (455)	31 (787)	36	18	15	1085 (37.9)	2300 (1043)	2700 (1225)
ESC035AD standard 18.3" compartment	38.6 (980)	18.3 (465)	31.1 (790)	38.5 (978)	17.9 (455)	31 (787)	36	18	15	1085 (37.9)	2300 (1043)	2700 (1225)
ESC035AD optional 20.8" compartment	38.6 (980)	20.8 (528)	31.1 (790)	38.5 (978)	20.4 (518)	31 (787)	36	18	17	1240 (43.3)	2500 (1152)	3050 (1383)
ESC040AD standard 20.8" compartment	38.6 (980)	20.8 (528)	31.1 (790)	38.5 (978)	20.4 (518)	31 (787)	36	18	17	1240 (43.3)	2695 (1222)	3050 (1383)
ESC040AD optional 18.3" compartment*	38.6 (980)	18.3 (465)	31.1 (790)	38.5 (978)	17.9 (455)	31 (787)	36	18	15	1085 (37.9)	2300 (1043)	2700 (1225)

Battery compartment length is measured from front to rear.  
Battery compartment width is measured across the truck.

Battery connector: 350 Amp / 36 Volt.

Battery lead: Length 20" (508 mm) "B" position.

\* 20.8" battery compartment with a 3.0" spacer to accommodate an 18" battery.



## FEATURES LIST

PERFORMANCE	STD	OPT	OPERATION	STD	OPT
36-Volt battery (includes 350 amp gray battery connector)	●		Standard construction	●	
Yale® iSi Technology™ control system	●		UL Classification E	●	
AC transistor controlled hydraulics	●		Sidestance operator controls	●	
Return to set tilt	●		Key switch start	●	
<b>DRIVE</b>	<b>STD</b>	<b>OPT</b>	Automotive steering	●	
Drive tires - 18" x 7" x 12.1" - smooth rubber black (67 durometer) (ESC030-035AD)	●		Static strap	●	
Drive tires - 18" x 7" x 12.1" - polyurethane (92 durometer)	●		Electronic horn	●	
Steer tires - 10" x 5" x 6.5" - polyurethane - smooth (92 durometer)	●		Sealed battery rollers	●	
Various drive & steer tire types		●	88" Drive in rack overhead guard (flat plate)	●	
<b>LIFT</b>	<b>STD</b>	<b>OPT</b>	Power disconnect button	●	
Rugged Hi-Vis™ mast design	●		Multifunction display	●	
38.5" (977mm) Wide - class II - hook type carriage	●		Keyless start		●
Tilt (5° fwd, 5° back)	●		Battery gate interlock		●
48" High load backrest extension	●		Cooler/freezer construction (0°F to 120°F) with rubber floormat		●
3 Function (1 auxiliary) hydraulic control valve	●		SubZero freezer construction (operating temperatures -40°F to 120°F) with rubber floormat		●
Tilt (10° fwd, 5° back)		●	Audible back-up and motion alarms		●
Integral sideshift		●	Visible amber strobe light - continuous activated		●
Integral sideshifting fork positioner		●	Fire extinguisher		●
Reduced speed tilt		●	RF terminal bracket		●
Tilt interlock		●	RF handheld scanner holder		●
Hydraulic attachment extension tubes with and without quick disconnect fittings		●	12 Volt DC/DC converter - 25 amps / 300 watts		●
Various 4-stage mast heights (quad mast)		●	Less OHG <sup>1</sup>		●
Truckers style mast (2-stage FFL)		●	Rear operator compartment door (SPED) <sup>2</sup>		●
Various load backrest heights (SPED)		●	OSS externally-mounted egress sensor (SPED)		●
<b>HANDLING</b>	<b>STD</b>	<b>OPT</b>	Storage utility tray (SPED)		●
Forks: 1.5" x 4.0" (38 mm x 102 mm) 42"(1067 mm) class II, hook type - standard taper	●		Red line zone lights – left/right side - continuous operation (SPED)		●
Fully proportional lift/lower control	●		Blue LED spotlight, rear mounted and reverse activated (SPED)		●
Multifunction control handle with simultaneous hydraulic functions	●		Yale Vision		●
Various fork lengths		●	<b>ENERGY SYSTEM</b>	<b>STD</b>	<b>OPT</b>
<b>ERGONOMICS</b>	<b>STD</b>	<b>OPT</b>	Lead acid	●	
Yale Smart Operator sensing system	●		<b>SUPPLEMENTAL</b>	<b>STD</b>	<b>OPT</b>
Yale Smart Ride® floor (full suspension floor)	●		Operating manual	●	
Low profile anti-fatigue floormat	●		Parts manuals		●
Low step height	●				
Fully padded operator compartment	●				
Operator overhead fan		●			
Dual headlights (LED or halogen / mast mounted or overhead guard mounted)		●			
Rear LED worklight (LED or halogen)		●			
Operator LED desktop light		●			
Adjustable armrest (SPED)		●			

<sup>1</sup> Requires dealer/customer verification confirming that the application meets ANSI/ITSDF B56.1 Section 4.5.1.4. A truck without an overhead guard cannot be used where there is risk of stacked loads falling on the driver. Contact Applications Engineering for additional details.  
NOTE: Special Chassis mounted headlights, work light and strobe light options are available for trucks that are not fitted with an overhead guard.

<sup>2</sup> Doors are intended to protect the operator from objects that may enter the operator's compartment but they may also slow the operator's egress in emergency situations. A review of the forklift's intended environment should be conducted before selecting a door as optional equipment.

# About Yale



Yale Lift Truck Technologies leverages over a century of material handling experience and substantial investment in innovation to bring the most advanced technology-driven lift truck solutions to market. The company offers a full line of award-winning lift trucks, including reach trucks, order pickers, turret trucks, pallet jacks and trucks, pallet stackers, tow tractors and counterbalanced forklifts, as well as powerful operator assist solutions, proven robotics and a wide range of power sources to help customers adapt to today's demanding supply chain. Yale and its independent dealer network support these solutions with comprehensive after-sales service, parts, financing and training.

Yale Lift Truck Technologies is a trading name of Hyster-Yale Asia-Pacific Pty Ltd., a wholly owned subsidiary of Hyster-Yale Materials Handling, Inc. (NYSE:HY) which is headquartered in Cleveland, Ohio and operates globally.

## MATERIALS HANDLING FOR:

Third-party logistics (3PL)

Auto parts distribution

Beverage

Cold & frozen foods

Food distribution

Food processing

Furniture & furnishings

Government

Health & pharma


Home centers & durables

Retail & e-commerce

Yale Lift Truck Technologies | Pacific  
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