#### Yale® ESC-AC

The ESC-AC industrial fork lift truck combines leading technology and operator comfort for high performance and productivity in docking, drive-in/ drive-through rack applications within retail distribution, food manufacturing and processing, general warehousing and manufacturing, storage, plastic products, and freight transportation.

### **AC Technology**

AC technology provides the ability to control the traction motor fields and armature independently. This results in enhanced performance and battery efficiency. In combination with the Metal Oxide Semiconductor Field Effect Transistor (MOSFET) motor controller we have reduced wearable components and improved performance. The AC control system provides high travel speeds and improved acceleration. Variable regenerative braking occurs when the throttle handle is reversed. Regenerative braking improves efficiency and reduces wear on brake components. The controller parameters are fully programmable including settings for acceleration, top speed, and neutral braking.

#### **Operator's Compartment**

The Yale ESC-AC features a new movement forward in ergonomic design. Designed for side-stance operation, the truck allows the driver flexibility of an angled stance with expanded hip room. The fully padded operator's compartment provides back,



hip, arm and knee support and offers the operator a cooler workspace. The high backrest support provides the operator both comfort and protection. The noticeably large floor has room for movement. The shock dampened suspended operator's compartment floor with full 3/4" thick cushioned floor mat absorbs vibration and minimizes fatigue. The brake pedal design allows for an easy entrance and exit into the operator compartment.

#### **Drive Motors/Transaxles**

The dual horizontal AC drive motors are designed and built specifically for the Yale three wheel trucks and are individually mounted for easy servicing. The motors have a temperature sensor mounted internally to monitor and provide feedback to the CAN bus. The temperature sensor monitors the motor thermal state and can react to various situations to self protect the motor. The dual transaxles are independently controlled for optimization of power and maneuverability. Power transfer occurs via a quiet double reduction design using a combination of spiral bevel and helical gears. Dual front wheel, continuous differential drive enables both wheels to be under power at all times, but operating separately. This gives power to each drive motor as needed for greater efficiency. The motors are controlled by two controllers, one for each motor. Cornering Speed Control provides proportional reduction of speed in cornering and automatically slows the truck depending on the radius of the turn.

# The Yale Multi-Function Control Handle

Ergonomically designed with an integral palm rest, the Yale multi-function control handle is comfortably operated with a gloved or bare hand. The handle provides control for forward/reverse, lift/lower, tilt, horn, and up to two optional auxiliary functions for attachments. Hoist, travel and one additional hydraulic function can be activated simultaneously. Depressing the handle function pad activates tilt or optional sideshift. The 3rd optional auxiliary function

Truck shown with optional equipment

# 3,000 • 3,500 • 4,000 lbs

is activated by depressing buttons on the underside of the handle grip. Right–Left travel control is standard. The optional Gated Multi-Function Control Handle provides the productivity benefits of a Multi-Function handle and the feel of a single axis handle, allowing simultaneous lift and travel functions below 2 mph, while restricting lift above 2mph.Optional Push–Pull travel control is also available.

#### **Brake System**

The spring applied, electrically released brake assemblies provide emergency stopping and parking for the truck. The pre-adjusted brake assemblies require no maintenance and all truck models are equipped with brake over-ride connectors to move a disabled truck. During operation, as the operator releases the brake pedal, regenerative motor braking occurs to stop the truck. If the RPM of the AC traction motors reaches zero for at least 1 second, power is removed from the brakes engaging them. This feature eliminates unnecessary wear on the brake disc and provides positive engagement of the parking brake.

#### **Transistor Hydraulic Control System**

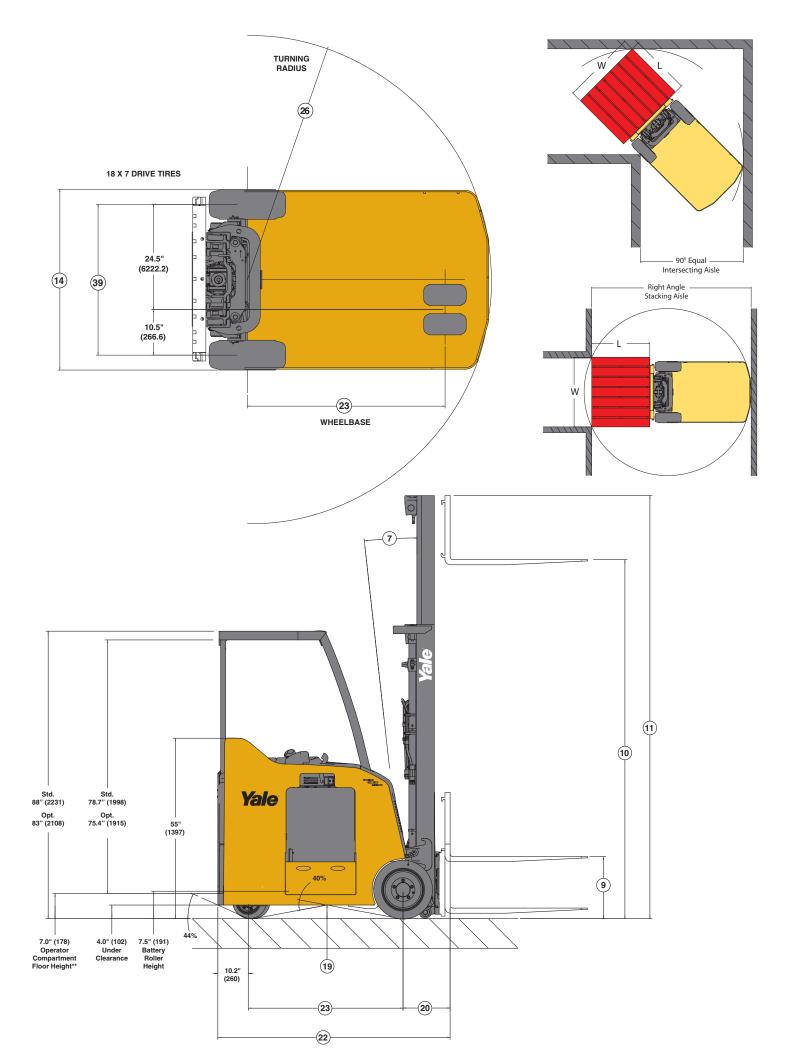
The AC Transistor Lift Pump Control matches pump speed with hydraulic flow requirements for increased efficiency, quieter operation and reduced maintenance. The transistor hydraulic control system controls the hydraulic motor with a Metal Oxide Semiconductor Field Effect Transistor (MOSFET) controller that provides smooth, quiet, energy-efficient operation. The controlled acceleration feature reduces pump and motor loadings on start-up for increased system life.

#### **Console Covers**

Console covers are UV resistant, thermally formed, high impact ABS plastic. The top and front covers provide access to main electrical components and are easy to remove without tools. The formed covers provide unobstructed use of the multifunction control handle. Storage areas in the operator's compartment supply a place to store pens, pencils, markers, etc.

(continued on back)





	1	Manufacturer				Yale®			
	2					ESC030AC			
AL		Model Designation							
GENERAI	3	Power / Voltage		-		Electric / 36 Volts			
GE	4	Operation Type				Stand			
-	5	Rated Capacity			lb. (kg)	3000 (1361)			
	6	Load Center			in. (mm)	24 (609)			
	7	Mast Tilt Std (Opt)			degrees	5F / 5B (10F / 5B)			
	8	Mast – Lowered Height (S			in. (mm)	84 (2130)			
	9		td 2 Stg Limited Free Lift Mast)		in. (mm)	5 (140)			
		Free Lift – Top of Fork (Opt 2 Stg Full Free Lift Mast w/wo LBR)			in. (mm)	33 / 61 (860 / 1555)			
	10	Lift Height – Top of Fork (Std 2 Stg Limited Free Lift 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 (NL)			% %	40			
	14	Overall Width			in. (mm)	42 (1067)			
S	15	Forks (Thickness x Width x Length)			in. (mm)	1.5 x 4 x 42 (38 x 102 x 1067)			
NO	16	Standard Carriage Width	(Class II)		in. (mm)	38.5 (978)			
DIMENSIONS	17	Floor to Top of Battery Rol	llers		in. (mm)	7.5 (190)			
M	19	Ground Clearance (Cente	er of Wheelbase) NL / RL		in. (mm)	4 (102)			
Δ	20	Load Distance (Center of	Wheel to Face of Forks)		in. (mm)	12.6 (321)			
	21	Battery Compartment	Height		in. (mm)	31.1 (790)			
			Width		in. (mm)	18.3 (465)			
Ì				Nominal	SIZE	38"			
			Length	Actual	in. (mm)	38.6 (980)			
Ī	22	Length to Face of Forks	I	1	in. (mm)	66.7 (1696)			
	23	Wheelbase			in. (mm)	43.9 (1115)			
	24	Aisle Width*			in. (mm)	112.8 (2865)			
	25				in. (mm)	69.2 (1757)			
İ	26	Turning Radius			in. (mm)	55.0 (1397)			
	27	Travel Speed (NL / RL)			mph (km/h)	7.2 / 7.2 (11.6 / 11.6)			
	28	Lift Speed	Std 2 Stg LFL Mast (NL / RL)		ft/min (m/sec)	89 / 69 (0.45 / 0.35)			
	20	Diff Speed Std 2 Stg LFL Mast (NL / RL) Opt 2 Stg FFL Mast (NL / RL)			ft/min (m/sec)	55 / 43 (0.28 / 0.22)			
		Opt 3 Stg FFL Mast (NL / RL)			ft/min (m/sec)	83 / 65 (0.42 / 0.33)			
	29	Lower Speed Std 2 Stg LFL Mast (NL / RL)			ft/min (m/sec)	55 / 102 (0.28 / 0.52)			
i	23	Opt 2 Stg EFL Mast (NL / RL)			ft/min (m/sec)	30 / 59 (0.15 / 0.30)			
İ			Opt 3 Stg FFL Mast (NL / RL)		ft/min (m/sec)	71 / 88 (0.36 / 0.45)			
	30	Gradability	5 Minute Rating (NL / RL)		%	15 / 15			
	30	Gradability	60 Minute Rating (NL / RL)		%	3.47 / 2.57			
	31	Drawbar Pull	5 Minute Rating (NL / RL)		/8 Ibf	2645 / 2412			
	32	Brake	Method of Control (Service / Par	king)		Spring Apply / Elec. Released			
	52	Diake							
	33	Method of Operation (Service / Parking)           Truck Weight         Without Battery (NL)			lb. (kg)	Foot / Foot 6355 (2882)			
WT.	34	-	Static with Max. Wt. Battery (NL / RL)			4058 (1841) / 9563 (4338)			
~	35				lb. (kg)				
s	35 36	5	rethane etc. (Drive / Steer)	/ n <b>L</b> )	lb. (kg)	4182 (1897) / 1677 (761) Rubber / Polyurethane			
EE	30 37	Tire Size (Drive / Steer)			in	18 x 7 - 12.1 / 10 x 5 - 6.5			
WH N					in.				
TIRES/WHEELS	38 39				in (mm)	2X/2			
-		Tread (Tires) Std Dr / Steer / Steer			in. (mm)	35 / 10.5 / 24.5 (889 / 267 / 622)			
BATT.	40	Type Volts				Lead Acid			
ΒA		Battery Volts			11 (1 )	36			
		Minimum Weight			lb. (kg)	1885 (855)			
	41	Traction Motors (Dual) 60			hp (kW)	6.4 (4.8)			
MOTORS	42	Pump Motor 15 Minute rating			hp (kW)	16.1 (12)			
Б	43	Traction Motors (Type / Co				AC / Transistor			
Σ	44	Pump Motor (Type / Contr				AC / Transistor			
	45	Number of Speeds (Traction & Pump)				Infinitely Variable			
EB	46	Step Height			in. (mm)	7 (179)			
OTHER	47	Attachment Relief Pressur			psi (bar)	2000 (13789)			
	49	Sound Level (Measured p	per ANSI B56.11.5)		dB (A)	69			

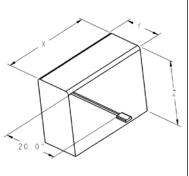
\* Right Angle Stack and Equal Intersecting Aisle dimensions provided with a 48" long and 40" wide pallet load, allowing zero clearance. Dimensions displayed in inches. Dimensions in parenthesis represent metric.

F-000000         F-000000         F-000000         F-000000         F-000000         F-000000         F-000000         F-000000         F-0000000         F-0000000         F-0000000         F-00000000         F-000000000         F-000000000000000         F-000000000000000000000000000000000000	Yale®	Yale®	Yale®	1
Elserk / Moles         Elserk				2
Job (1980)         Job (1980)         Job (1980)         Job (1981)         Job (1981) <thjob (1981)<="" th="">         Job (1981)         Job (198</thjob>				GEN
Job (1980)         Job (1980)         Job (1980)         Job (1981)         Job (1981) <thjob (1981)<="" th="">         Job (1981)         Job (198</thjob>				4 5
34 (400)         36 (700)         35 (400)         36 (700)				5 2
9F / 481 (07-180)         9F / 481 (07-180)				
94 (230)         94 (230)         94 (230)         9 (210)         9           30 / 41 (990 / 1555)         30 / 41 (990 / 1555)         30 / 41 (990 / 1555)         30 / 41 (990 / 1555)         100 / 154 (555 / 3912)         100 / 154 (555 / 3912)         100 / 154 (555 / 3912)         100 / 154 (555 / 3912)         100 / 154 (555 / 3912)         100 / 154 (555 / 3912)         100 / 154 (555 / 3912)         100 / 154 (555 / 3912)         100 / 154 (555 / 3912)         100 / 154 (455 / 3912)         100 / 154 (455 / 3912)         100 / 154 (455 / 3912)         100 / 154 (455 / 3912)         100 / 154 (455 / 3912)         100 / 154 (455 / 3912)         100 / 154 (455 / 3912)         100 / 154 (455 / 3912)         100 / 154 (455 / 3912)         100 / 154 (455 / 3912)         100 / 154 (455 / 3912)         100 / 154 (455 / 3912)         100 / 154 (455 / 3912)         100 / 154 (455 / 3912)         100 / 154 (456 / 1			· · ·	
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88.93.2224/2109)         98.93.2224/2109)         98.93.2224/2109)         12           40         40         40         13           42.(1057)         42.(1057)         42.(1057)         15.44.42.08.4102.107)         15.44.42.08.4102.107)         15.44.42.08.4102.107)         15.44.42.08.4102.107)         15.44.42.08.4102.107)         15.44.42.08.4102.107)         15.44.42.08.4102.102.105)         100         100           38.5.0770         38.5.0770         38.5.0770         38.5.0770         38.5.0770         39.5.0770         30.5.0770				
40         40         13           42 (1967)         42 (1967)         40         13           1.5 x 4 x 42 (36 x 102 x 1067)         1.5 x 10 x 100				
42 (1007)         42 (1007)         42 (1007)         15 x 4 42 (28 tr (12 : 1007)         15 x 4 42 (28 tr (12 : 1007)         15 x 4 42 (28 tr (12 : 1007)         15 x 4 42 (28 tr (12 : 1007)         15 x 4 42 (28 tr (12 : 1007)         15 x 4 42 (28 tr (12 : 1007)         15 x 4 42 (28 tr (12 : 1007)         15 x 4 42 (28 tr (12 : 1007)         15 x 4 42 (28 tr (12 : 1007)         15 x 4 42 (28 tr (12 : 1007)         10 x 11 (20 (1007)         11 x 12 x (20 (1007)         10 x 11 (20 (1007)         10 x 11 (20 (1007)         11 x 12 x (20 (1007)         10 x 11 (20 (1007)         11 x 12 x (20 (1007)         10 x 11 (20 (1007)         11 x 12 x (20 (1007)         11 x 12 x (20 (1007)         11 x 12 x (20 (1007)         10 x 11 x (20 (1007)         11 x 12 x (20 (1007)         11 x 12 x (20 (1007)         11 x 12 x (20 (1007)         11 x 12 x (20 (1007)         11 x 12 x (20 (1007)         11 x 12 x (20 (1007)         11 x 12 x (20 (1007)         11 x 12 x (20 (1007)         11 x 12 x (20 (1007)         11 x 12 x (20 (1007)         11 x 12 x (20 (1007)         11 x 12 x (20 (1007)         11 x 1 x (20 (1007)         11 x 1 x (20 (1007)         11 x 1 x (20 (1007)         11 x 1 x (20 (1007)         11 x 1 x (20 (1007)         11 x 1 x (20 (1007)         11 x 1 x (20 (1007)         11 x 1 x (20 (1007)         11 x 1 x (20 (1007)         11 x 1 x (20 (1007)         11 x 1 x (20 (1007)         11 x 1 x (20 (1007)				
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38.5 (970)         38.5 (970)         38.3 (973)         10         10           7.5 (190)         7.5 (190)         7.5 (190)         7.5 (190)         17         100         100         100           4.102)         4.102)         4.102         4.100         10         12.6 (21)         12.6 (21)         12.6 (21)         12.6 (21)         12.6 (21)         12.6 (22)         20         12.0 (20)         20         12.0 (20)         20         12.0 (20)         20         12.0 (20)         20         12.0 (20)         20         12.0 (20)         20         12.0 (20)         20         12.0 (20)         20         12.0 (20)         20         12.0 (20)         20         21         21         21         21         21         21         21         21         21         21         21         21         21         21         21 </td <td></td> <td></td> <td></td> <td></td>				
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18.3 (+65)         20.8 (62)         20.8 (62)         20.8 (62)           38'         38'         38'         38'         38'           38 (600)         38 (500)         38 (500)         38 (500)         38 (500)         38 (500)         30 (51 (500)         30 (500)         30 (500)         30 (500				20
39'         39'         39'           38.6 (980)         38.6 (980)         38.6 (980)         38.6 (980)         28           38.6 (980)         38.6 (980)         38.6 (980)         38.6 (980)         28           43.9 (1115)         44.4 (1773)         48.4 (1173)         38.6 (980)         21           112.8 (2865)         115.1 (224)         115.1 (224)         21         23           6.0 (1757)         6.0 (1757)         6.0 (1757)         6.0 (1757)         25           5.6 (1387)         5.7 5 (1400)         5.7 5 (1400)         5.7 5 (1400)         26           72.7 (2 (15.4) (116)         7.2 7 (2 (15.4) (116)         7.2 7 (2 (15.4) (116)         7.2 (16.4) (116)           89 / 57 (0.45 / 0.34)         89 / 57 (0.45 / 0.34)         89 / 57 (0.45 / 0.32)         23           55 / 140 (0.28 / 0.24)         55 / 140 (0.28 / 0.24)         55 / 160 (0.28 / 0.34)         29           30 / 15 (0.15 / 0.31)         30 / 16 (0.15 / 0.31)         30 / 16 (0.15 / 0.31)         30 / 16 (0.15 / 0.31)         30 / 16 (0.15 / 0.31)           31 / 17 / 9 (0.36 / 0.45)         7.1 / 9 (0.36 / 0.45)         7.1 / 10 / 0.45 / 0.45)         31         31 / 17 / 10 / 0.45 / 0.45)           32 / 230         24 / 24 / 24 / 4.4 / 24 / 24 / 24 / 24 /	31.1 (790)	31.1 (790)	31.1 (790)	21
38.6 (980)         38.6 (980)         38.6 (980)         38.6 (980)         38.6 (980)         22           66.7 (666)         66.2 (1750)         66.2 (1757)         66.2 (1757)         64.2 (177)         23           112.8 (2865)         115.1 (2824)         115.1 (2824)         23         23           69.2 (1757)         68.2 (125)         65.1 (16.0 (28.0 (27))         21.2 (15.1 (	18.3 (465)	20.8 (528)	20.8 (528)	
66.7 (1696)         69.2 (1759)         69.2 (1759)         69.2 (1759)         22           4.3.9 (1115)         4.6.4 (1178)         4.6.4 (1178)         23           112.8 (2865)         115.1 (2824)         115.1 (2824)         24           9.9.2 (1757)         9.9.2 (1757)         9.8.2 (1017)         9.8.2 (1017)	38"	38"	38"	
43.9 (1115)         46.4 (1178)         46.4 (1178)         23           112.8 (2865)         115.1 (2824)         115.1 (2824)         24           062.2 (1757)         069.2 (1757)         069.2 (1757)         069.2 (1757)         069.2 (1757)           155.0 (1397)         7.7.7 (14.6)         7.2.7.2 (11.6) (11.6) (11	38.6 (980)	38.6 (980)	38.6 (980)	
112.8 (2865)         115.1 (2824)         115.1 (2824)         21           66.2 (1757)         69.2 (1757)         69.2 (1757)         25           75.50 (1397)         7.7 (140)         67.5 (1400)         67.5 (1400)         26           72.7 / 2 (11.6 / 11.6)         7.2 / 7.2 (11.6 / 11.6)         7.2 / 7.2 (11.6 / 11.6)         7.2 / 7.2 (11.6 / 11.6)         27           89.67 (0.45 / 0.34)         89.67 (0.45 / 0.34)         86 / 63 (0.45 / 0.32)         28         28           55.1 (10.6 (0.28 / 0.21)         55.4 / (0.28 / 0.21)         55.6 / 10.0 (0.28 / 0.21)         25.6 / 10.0 (0.28 / 0.21)         26           55.1 (10.6 (0.28 / 0.54)         55.7 / 10.0 (0.28 / 0.54)         55.7 / 10.0 (0.28 / 0.54)         29         20           55.1 (10.6 (0.28 / 0.54)         30.6 / 1.6 / 0.31)         30.0 / 61.0 / 15.7 / 0.31)         30.0 / 61.0 / 15.7 / 0.31)         30.0 / 61.0 / 15.7 / 0.31)         30.0 / 2.8 / 0.42 / 0.32)         33.3 / 2.3 / 3.3 / 2.3 / 3.4 / 2.4 / 4.3 / 3.0 / 2.2 /	66.7 (1696)	69.2 (1759)	69.2 (1759)	22
692 (1757)         692 (1757)         692 (1757)         23           S5.0 (1397)         57.5 (1460)         57.5 (1460)         26           72.17.2 (11.6 (11.6)         72.7/2 (11.6 / 11.6)         73.9/2.30         73.9/2.30         73.9/2.30         73.9/2.30         73.9/2.33         73.9/2.33         74.7/2 (11.6 / 11.6)         77.7/10 (10.36 / 0.46)         77.7/10 (10.36 / 0.46)         77.7/10 (10.36 / 0.46)         77.7/10 (10.36 / 0.46)         77.7/10 (10.36 / 0.46)         77.7/10 (10.36 / 0.46)         77.7/10 (10.36 / 0.46)         77.7/10 (10.36 / 0.46)         77.7/10 (10.36 / 0.46)         77.6/20         77.6/20 <td>43.9 (1115)</td> <td>46.4 (1178)</td> <td>46.4 (1178)</td> <td></td>	43.9 (1115)	46.4 (1178)	46.4 (1178)	
56.0 (1397)         57.5 (1460)         57.5 (1460)         72.7 / 2 (11.6 / 11.6 )         72.7 / 2 (11.6 / 11.6 )         72.7 / 2 (11.6 / 11.6 )         72.7 / 2 (11.6 / 11.6 )         72.7 / 2 (11.6 / 11.6 )         72.7 / 2 (11.6 / 11.6 )         72.7 / 2 (11.6 / 11.6 )         72.7 / 2 (11.6 / 11.6 )         72.7 / 2 (11.6 / 11.6 )         72.7 / 2 (11.6 / 11.6 )         72.7 / 2 (11.6 / 11.6 )         72.7 / 2 (11.6 / 11.6 )         72.7 / 2 (11.6 / 11.6 )         72.7 / 2 (11.6 / 11.6 )         72.7 / 2 (11.6 / 11.6 /	112.8 (2865)	115.1 (2924)	115.1 (2924)	24
72/72 (11.6/11.6)         72/72 (11.6/11.6)         72/72 (11.6/11.6)         72/72 (11.6/11.6)         72           88/67 (0.45/0.34)         88/67 (0.45/0.34)         88/68 (0.45/0.32)         28           55/10 (0.28/0.21)         55/14 (0.28/0.21)         55/14 (0.28/0.21)         55/106 (0.28/0.54)         29           88/62 (0.42/0.32)         83/62 (0.42/0.32)         83/59 (0.42/0.30)         29         30/61 (0.15/0.31)         30/61 (0.15/0.31)         30/61 (0.15/0.31)         30/61 (0.15/0.46)         71/191 (0.38/0.46)	69.2 (1757)	69.2 (1757)	69.2 (1757)	25
89 / 67 (0.45 / 0.34)         89 / 67 (0.45 / 0.34)         86 / 63 (0.45 / 0.32)         23           55 / 14 (0.28 / 0.21)         55 / 14 (0.28 / 0.21)         55 / 14 (0.28 / 0.21)         55 / 106 (0.28 / 0.34)         83 / 50 (0.42 / 0.30)         29           30 / 61 (0.15 / 0.31)	55.0 (1397)	57.5 (1460)	57.5 (1460)	26
55 / 41 (0.28 / 0.21)         55 / 41 (0.28 / 0.21)         55 / 106 (0.28 / 0.21)         55 / 106 (0.28 / 0.54)         55 / 106 (0.28 / 0.54)         55 / 106 (0.28 / 0.54)         55 / 106 (0.28 / 0.54)         29           55 / 106 (0.28 / 0.54)         55 / 106 (0.28 / 0.54)         55 / 106 (0.28 / 0.54)         55 / 106 (0.28 / 0.54)         29         30 / 61 (0.15 / 0.31)         30 /	7.2 / 7.2 (11.6 / 11.6)	7.2 / 7.2 (11.6 / 11.6)	7.2 / 7.2 (11.6 / 11.6)	27
83 / 62 (0.42 / 0.32)         83 / 62 (0.42 / 0.32)         83 / 59 (0.42 / 0.30)         PERCENT           55 / 106 (0.28 / 0.54)         55 / 106 (0.28 / 0.54)         55 / 106 (0.28 / 0.54)         29           30 / 61 (0.15 / 0.31)         31 / 0.32 / 61 / 61 / 61 / 61 / 61 / 61 / 61 / 6	89 / 67 (0.45 / 0.34)	89 / 67 (0.45 / 0.34)	88 / 63 (0.45 / 0.32)	28
55 / 106 (0.28 / 0.54)         56 / 106 (0.28 / 0.54)         55 / 106 (0.28 / 0.54)         29           30 / 61 (0.15 / 0.31)         30 / 61 (0.15 / 0.46)         30 / 61 / 61 / 61 / 61 / 61 / 61 / 61 / 6	55 / 41 (0.28 / 0.21)	55 / 41 (0.28 / 0.21)	55 / 41 (0.28 / 0.21)	
3.30/2.38         3.41/2.44         4.30/2.26           2582/2335         2602/2356         2562/2280         31           Spring Apply/Elec. Released         Spring Apply/Elec. Released         32         32           Foot/Foot         Foot/Foot         Foot/Foot         6838 (3102)         6410 (2908)         6893 (3127)         33           4285 (1944) / 10707 (4857)         4347 (1972) / 10612 (4814)         4454 (2011) / 11594 (5259)         34         34           4853 (2201) / 1931 (876)         43563 (2070) / 1798 (816)         5154 (2338) / 1994 (904)         35         35           Rubber / Polyurethane         Rubber / Polyurethane         Polyurethane         Polyurethane         36         37           2X / 2         2X / 2         2X / 2         2X / 2         38         36         36           36         36         36         36         36         36         36         36           36         36         36         36         36         36         36         36           37         2300 (1043)         2600 (1134)         2605 (122)         37         36         36         36         36         36         36         36         36         36         36         36	83 / 62 (0.42 / 0.32)	83 / 62 (0.42 / 0.32)	83 / 59 (0.42 / 0.30)	
3.30/2.38         3.41/2.44         4.30/2.26           2582/2335         2602/2356         2562/2280         31           Spring Apply/Elec. Released         Spring Apply/Elec. Released         32         32           Foot/Foot         Foot/Foot         Foot/Foot         6838 (3102)         6410 (2908)         6893 (3127)         33           4285 (1944) / 10707 (4857)         4347 (1972) / 10612 (4814)         4454 (2011) / 11594 (5259)         34         34           4853 (2201) / 1931 (876)         43563 (2070) / 1798 (816)         5154 (2338) / 1994 (904)         35         35           Rubber / Polyurethane         Rubber / Polyurethane         Polyurethane         Polyurethane         36         37           2X / 2         2X / 2         2X / 2         2X / 2         38         36         36           36         36         36         36         36         36         36         36           36         36         36         36         36         36         36         36           37         2300 (1043)         2600 (1134)         2605 (122)         37         36         36         36         36         36         36         36         36         36         36         36	55 / 106 (0.28 / 0.54)	55 / 106 (0.28 / 0.54)	55 / 106 (0.28 / 0.54)	29 🛱
3.30/2.38         3.41/2.44         4.30/2.26           2582/2335         2602/2356         2562/2280         31           Spring Apply/Elec. Released         Spring Apply/Elec. Released         32         32           Foot/Foot         Foot/Foot         Foot/Foot         6838 (3102)         6410 (2908)         6893 (3127)         33           4285 (1944) / 10707 (4857)         4347 (1972) / 10612 (4814)         4454 (2011) / 11594 (5259)         34         34           4853 (2201) / 1931 (876)         43563 (2070) / 1798 (816)         5154 (2338) / 1994 (904)         35         35           Rubber / Polyurethane         Rubber / Polyurethane         Polyurethane         Polyurethane         36         37           2X / 2         2X / 2         2X / 2         2X / 2         38         36         36           36         36         36         36         36         36         36         36           36         36         36         36         36         36         36         36           37         2300 (1043)         2600 (1134)         2605 (122)         37         36         36         36         36         36         36         36         36         36         36         36			30 / 61 (0.15 / 0.31)	FO
3.30/2.38         3.41/2.44         4.30/2.26           2582/2335         2602/2356         2562/2280         31           Spring Apply/Elec. Released         Spring Apply/Elec. Released         32         32           Foot/Foot         Foot/Foot         Foot/Foot         6838 (3102)         6410 (2908)         6893 (3127)         33           4285 (1944) / 10707 (4857)         4347 (1972) / 10612 (4814)         4454 (2011) / 11594 (5259)         34         34           4853 (2201) / 1931 (876)         43563 (2070) / 1798 (816)         5154 (2338) / 1994 (904)         35         35           Rubber / Polyurethane         Rubber / Polyurethane         Polyurethane         Polyurethane         36         37           2X / 2         2X / 2         2X / 2         2X / 2         38         36         36           36         36         36         36         36         36         36         36           36         36         36         36         36         36         36         36           37         2300 (1043)         2600 (1134)         2605 (122)         37         36         36         36         36         36         36         36         36         36         36         36				
3.30/2.38         3.41/2.44         4.30/2.26           2582/2335         2602/2356         2562/2280         31           Spring Apply/Elec. Released         Spring Apply/Elec. Released         32         32           Foot/Foot         Foot/Foot         Foot/Foot         6838 (3102)         6410 (2908)         6893 (3127)         33           4285 (1944) / 10707 (4857)         4347 (1972) / 10612 (4814)         4454 (2011) / 11594 (5259)         34         34           4853 (2201) / 1931 (876)         43563 (2070) / 1798 (816)         5154 (2338) / 1994 (904)         35         35           Rubber / Polyurethane         Rubber / Polyurethane         Polyurethane         Polyurethane         36         37           2X / 2         2X / 2         2X / 2         2X / 2         38         36         36           36         36         36         36         36         36         36         36           36         36         36         36         36         36         36         36           37         2300 (1043)         2600 (1134)         2605 (122)         37         36         36         36         36         36         36         36         36         36         36         36				30
2582 / 2335         2602 / 2356         2562 / 2280         31           Spring Apply / Elec. Released         Spring Apply / Elec. Released         Spring Apply / Elec. Released         32           Foot / Foot         Foot / Foot         Foot / Foot         Foot / Foot         6838 (3102)         6410 (2906)         6893 (3127)         33         4285 (1944) / 10707 (4857)         4347 (1972) / 10612 (4814)         4434 (2011) / 11594 (5259)         34         4453 (2201) / 11594 (5259)         34         4453 (2201) / 11594 (5259)         34         453 (2201) / 11931 (876)         4365 (2201) / 1798 (816)         5154 (2238) / 1994 (904)         35           Rubber / Polyurethane         Rubber / Polyurethane         Polyurethane / Polyurethane         96         37         37         37         37         33         35 / 10.5 / 24.5 (889 / 267 / 622)         35 / 10.5 / 24.5 (889 / 267 / 622)         35 / 10.5 / 24.5 (889 / 267 / 622)         39         6         36				H H
Spring Apply / Elec. Released         Spring Apply / Elec. Released         Spring Apply / Elec. Released         32           Foot / Foot         Foot / Foot         Foot / Foot         Foot / Foot         6893 (3127)         33         34           4285 (1944) / 10707 (4857)         4347 (1972) / 10612 (4814)         4434 (2011) / 11594 (5259)         34         35           4853 (2020) / 1931 (876)         4563 (2070) / 1998 (816)         5154 (2338) / 1994 (904)         35         36				31
Foot / Foot         Foot / Foot         Foot / Foot         Foot / Foot           6838 (3102)         6410 (2908)         6893 (3127)         33           4285 (1944) / 10707 (4857)         4347 (1972) / 10612 (4814)         4434 (2011) / 11594 (5259)         34           1         4353 (2201) / 1931 (876)         4563 (2070) / 1798 (816)         5154 (2339) / 1994 (904)         35           Rubber / Polyurethane         Rubber / Polyurethane         Polyurethane         Polyurethane         37           2 X / 2         2 X / 2         2 X / 2         37         35 / 10.5 / 24.5 (889 / 267 / 622)         35 / 10.5 / 24.5 (889 / 267 / 622)         35 / 10.5 / 24.5 (889 / 267 / 622)         35 / 10.5 / 24.5 (889 / 267 / 622)         35 / 10.5 / 24.5 (889 / 267 / 622)         38           2 X / 2         36         36         36         36         36           3 S / 10.5 / 24.5 (889 / 267 / 622)         35 / 10.5 / 24.5 (889 / 267 / 622)         35 / 10.5 / 24.5 (889 / 267 / 622)         39         16           3 6         36         36         36         36         36         36           2 300 (1043)         2 500 (1134)         2 685 (1222)         16         16         12         42           4 A C / Transistor         A C / Transistor         A C / Transistor         43         30<		4		
6838 (3102)         6410 (2908)         6693 (3127)         33         VI           4285 (1944) / 10707 (4857)         4347 (1972) / 10612 (4814)         4434 (2011) / 11594 (5259)         34         34           4853 (2201) / 1931 (876)         4563 (2070) / 1798 (816)         5154 (2338) / 1994 (904)         35           Rubber / Polyurethane         Rubber / Polyurethane         Polyurethane         96         37           2X / 2         2X / 2         2X / 2         38         37         33           35 / 10.5 / 24.5 (889 / 267 / 622)         35 / 10.5 / 24.5 (889 / 267 / 622)         35 / 10.5 / 24.5 (889 / 267 / 622)         36				
4285 (1944) / 10707 (4857)       4347 (1972) / 10612 (4814)       4434 (2011) / 11594 (5259)       34       YI         4853 (2201) / 1931 (876)       4563 (2070) / 1798 (816)       5154 (2338) / 1994 (904)       35         Rubber / Polyurethane       Rubber / Polyurethane       Polyurethane       Polyurethane       86         18 x 7 - 12.1 / 10 x 5 - 6.5       18 x 7 - 12.1 / 10 x 5 - 6.5       18 x 7 - 12.1 / 10 x 5 - 6.5       37       37         2X / 2       2X / 2       2X / 2       38       37       38       38       38       38       39       5       5       37 <td< td=""><td></td><td></td><td></td><td>33</td></td<>				33
4853 (2201) / 1931 (876)       4563 (2070) / 1798 (816)       5154 (2338) / 1994 (904)       35         Rubber / Polyurethane       Rubber / Polyurethane       Polyurethane / Polyurethane       66         18 x 7 - 12.1 / 10 x 5 - 6.5       18 x 7 - 12.1 / 10 x 5 - 6.5       18 x 7 - 12.1 / 10 x 5 - 6.5       37         2X / 2       2X / 2       2X / 2       2X / 2       35       38       55         35 / 10.5 / 24.5 (889 / 267 / 622)       35 / 10.5 / 24.5 (889 / 267 / 622)       35 / 10.5 / 24.5 (889 / 267 / 622)       39       55         16 Lead Acid       Lead Acid       Lead Acid       46       48       46       44.8)       44.8)       44.8)       44.4.8       44.4.8)       44.4.8       44.4.8)       44.4.8       44.4.8       44.4.8       44.4.8       44.4.8       44.4.8       44.4.8       44.4.8       44.4.8       44.4.8       44.4.8       44.4.8       44.4.8       44.4.8       44.4.8       44.4.8       44.4.8       44.4				
Rubber / Polyurethane         Rubber / Polyurethane         Polyurethane / Polyurethane         36         TRSWITT           18 x 7 - 12.1 / 10 x 5 - 6.5         18 x 7 - 12.1 / 10 x 5 - 6.5         18 x 7 - 12.1 / 10 x 5 - 6.5         37         37           2X/2         2X/2         2X/2         2X/2         38         37         37         38         37         38         37         38         37         35         35				25
18 x 7 - 12.1 / 10 x 5 - 6.5         18 x 7 - 12.1 / 10 x 5 - 6.5         18 x 7 - 12.1 / 10 x 5 - 6.5         7         WTFF           2X / 2         2X / 2         2X / 2         2X / 2         38         37         36         36         36				
Lead Acid         Lead Acid         Lead Acid         40         PATT           36         3	· · · · · · · · · · · · · · · · · · ·			30 
Lead Acid         Lead Acid         Lead Acid         40         PATT           36         3				20 ¥
Lead Acid         Lead Acid         Lead Acid         40         PATT           36         3				
36         36         36         36         87.           2300 (1043)         2500 (1134)         2695 (1222)         1           6.4 (4.8)         6.4 (4.8)         6.4 (4.8)         41           16.1 (12)         16.1 (12)         16.1 (12)         42           AC / Transistor         AC / Transistor         AC / Transistor         43           AC / Transistor         AC / Transistor         AC / Transistor         44           Infinitely Variable         Infinitely Variable         1         45           7 (179)         7 (179)         7 (179)         46           2000 (13789)         2000 (13789)         2000 (13789)         2000 (13789)				
2300 (1043)         2500 (1134)         2695 (1222)           6.4 (4.8)         6.4 (4.8)         6.4 (4.8)         41           16.1 (12)         16.1 (12)         16.1 (12)         42           AC / Transistor         AC / Transistor         AC / Transistor         44           Infinitely Variable         Infinitely Variable         44         45           7 (179)         7 (179)         7 (179)         47         16           2000 (13789)         2000 (13789)         2000 (13789)         47         16				40 B
2300 (1043)         2500 (1134)         2695 (1222)           6.4 (4.8)         6.4 (4.8)         6.4 (4.8)         41           16.1 (12)         16.1 (12)         16.1 (12)         42           AC / Transistor         AC / Transistor         AC / Transistor         44           Infinitely Variable         Infinitely Variable         44         45           7 (179)         7 (179)         7 (179)         47         16           2000 (13789)         2000 (13789)         2000 (13789)         47         16				
16.1 (12)         16.1 (12)         16.1 (12)         42           AC / Transistor         AC / Transistor         AC / Transistor         43           AC / Transistor         AC / Transistor         AC / Transistor         44           Infinitely Variable         Infinitely Variable         Infinitely Variable         44           7 (179)         7 (179)         7 (179)         46           2000 (13789)         2000 (13789)         2000 (13789)         47				
Infinitely Variable         Infinitely Variable         45           7 (179)         7 (179)         7 (179)         46           2000 (13789)         2000 (13789)         2000 (13789)         47				
Infinitely Variable         Infinitely Variable         45           7 (179)         7 (179)         7 (179)         46           2000 (13789)         2000 (13789)         2000 (13789)         47				42 8
Infinitely Variable         Infinitely Variable         45           7 (179)         7 (179)         7 (179)         46           2000 (13789)         2000 (13789)         2000 (13789)         47				43 0
7 (179)         7 (179)         7 (179)         46           2000 (13789)         2000 (13789)         2000 (13789)         47				
2000 (13789) 2000 (13789) 2000 (13789) <b>47</b>	Infinitely Variable	Infinitely Variable	Infinitely Variable	
2000 (13789)         2000 (13789)         47           69         69         69         49	7 (179)	7 (179)		46 <u>o</u>
69 69 69 49 <b>7</b>	2000 (13789)	2000 (13789)	2000 (13789)	<u>47</u> 품
	69	69	69	49 7

\* Right Angle Stack and Equal Intersecting Aisle dimensions provided with a 48" long and 40" wide pallet load, allowing zero clearance. Dimensions displayed in inches. Dimensions in parenthesis represent metric.

	MAST DIMENSIONS									
Maximum Fork Height (TOF) +	Overall Lowered Ht.	Overall Extended Height w/Load Backrest	Overall Extended Height w/o Load Backrest	Free-Lift (TOF) w/ Load Backrest	Free-Lift (TOF) w/o Load Backrest					
in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)					
2-STAGE LIMITED FREE-LIFT (LFL) MAST										
131 (3332)	84 (2130)	180 (4562)	154 (3906)	5 (140)	5 (140)					
139 (3532)	88 (2230)	188 (4762)	162 (4106)	5 (140)	5 (140)					
2-STAGE FULL FREE	2-STAGE FULL FREE-LIFT (FFL) MAST									
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)					
3-STAGE FULL FREE	-LIFT (FFL) MAST									
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)					
4-STAGE FULL FREE-LIFT (FFL) MAST										
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)					

BATTERY AND COMPARTMENT SPECIFICATIONS												
	Compartment Dim.			Battery Dim - Max				s	Cell	Max Capacity	y Weight	
Truck Model	Width (X)	Length (Y)	Height (Z)	"X"	"Y"	"Z"	0	. of Cells	per	6 Hr Rate	Min	Max
		in (mm) in (mm)				No.	Plates	amp hr (kwh)	lb (kg)			
ESC030AC Standard 18.3" Compartment	38.6 (980)	18.3 (465)	31.1 (790)	38.6 (980)	17.9 (455)	31 (787)	36	18	15	1085 (37.9)	2300 (1043)	2700 (1225)
ESC030AC *Optional 16.3" Compartment	38.6 (980)	16.3 (414)	31.1 (790)	38.6 (980)	15.8 (401)	31 (787)	36	18	13	930 (32.5)	1885 (855)	2300 (1050)
ESC035AC Standard 18.3" Compartment	38.6 (980)	18.3 (465)	31.1 (790)	38.6 (980)	17.9 (455)	31 (787)	36	18	15	1085 (37.9)	2300 (1043)	2700 (1225)
ESC035AC *Optional 20.8" Compartment	38.6 (980)	20.8 (528)	31.1 (790)	38.6 (980)	20.4 (518)	31 (787)	36	18	17	1240 (43.3)	2500 (1152)	3050 (1383)
ESC040AC Standard 20.8" Compartment	38.6 (980)	20.8 (528)	31.1 (790)	38.6 (980)	20.4 (518)	31 (787)	36	18	17	1240 (43.3)	2695 (1222)	3050 (1383)
ESC040AC *0ptional 18.3" Compartment	38.6 (980)	18.3 (465)	31.1 (790)	38.6 (980)	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 connector: 350 Amp / 36 Volt. Battery Lead: Length 20" (508 mm) 2/0 guage leads, "B" Position. \* 18.3" battery compartment with a 2.5" spacer to accommodate a 16" Battery. \* 20.8" battery compartment with a 3.0" spacer to accommodate a 18" Battery.

#### (continued from page 1)

#### **Standard Premium Dash Display**

The LCD displays vehicle status, warning, and fault messages. The primary screen presents battery level, throttle command, vehicle speed, vehicle direction, steer angle, performance mode, and hours. In the service menus, the three line LCD is used for information display depending on submenu. The display contains vehicle diagnostics with fault history and can store 30 operator specific passwords. The display is also a control system input from operator or technician. The operator can select travel mode, enter passwords, or verify truck inspection when that option is installed. A service technician can input truck set-up values via dash to the control system.

#### Hydraulic Control System

The hydraulic functions of the truck are managed by the AC hoist controller. This system in conjunction with the electrohydraulic valve provides low noise and low heat. Efficient design has allowed us significant reduction of hydraulic fittings reducing potential leak points. A replaceable cartridge full flow hydraulic filter is located at the top of the hydraulic tank. It has a bypass relief valve to ensure oil flow in the event of filter clogging. The filter contains a 10 micron element that protects the hydraulic system from contaminants, promotes reliable performance, and helps to provide long life for all the system components.

#### **Power Steering**

The on-demand power steering system is timed-off when not used, reducing noise and conserving energy. This system is powered by a brushless motor virtually eliminating maintenance.

# Masts/Carriage/Forks/Load Backrest Extension

Yale simplex, duplex, triplex and quad masts provide excellent visibility. The mast features flush face design with geometrically matched, load rollers, which are canted, yet provide full-face roller contact. The mast front rail flange angle coupled with the inverted "J" inner channel and 3-degree mast rollers significantly reduces channel web milling and roller wear. Trunnion mounts have replaceable bushings for longer life. The standard Class II carriage features pre-lubed and sealed full radius, angled load rollers that resist forward, backward and lateral forces. Forks are "upset forged" from a single piece of high strength steel to give strength and added thickness for wear. A 48" load backrest extension is standard. The optional Trucker's Style Mast is a new 2 stage FFL mast providing 40" of lift with a 48" collapsed height and 12"

### Frame/Overhead Guard

The frame is a unitized stress-tested welded steel construction. Battery compartment has standard corrosion resistant ball bearing rollers. The frame is designed to distribute loads and stress uniformly throughout the structure. The application of this design concept through the finite element modeling and extensive stress testing produces a balanced design with long-term durability. There are two wheelbase lengths, one for 18" nominal battery, and one for the 21" nominal battery. The shorter truck offers 3,000 and 3,500 lb. capacities. The longer truck will offer 3,500 and 4,000 lb. capacities. Overhead Guard offers excellent visibility and strength. A single rear overhead guard leg provides additional operator protection. When fitted with the Trucker's Style Mast a truck can be ordered with the Overhead Guard Delete Option which may improve driver visibility and awareness in some applications.

## **All Wiring**

Wiring is color coded for easy troubleshooting. Sealed electrical connectors are used throughout the truck. Electrical connections are provided for convenient field installation of electric options.

#### **Key Switch**

The key switch is located to the left of the multifunction control handle. The power disconnect handle disrupts all power circuits when depressed. Power is reinstated when battery is reconnected by returning the disconnect handle back to the on position.

Truck performance may be affected by the condition of the vehicle, how it is equipped and the application. Consult your Yale® Industrial Truck Dealer if any of the information shown is critical to your application. Specifications are subject to change without notice.

This truck meets all design specifications of ANSI B56.1 Safety Standard for Powered Industrial Trucks at the time of manufacture. Classified by Underwriters' Laboratories, Inc. as to fire hazard only for type "E" industrial trucks.

The Yale products included in this document may be covered by US patent 6,684,148 and other patents pending.

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Yale Materials Handling Corporation P.O. Box 7367, Greenville, North Carolina 27835-7367

#### Additional Features

A bolt-on 48 inch (1220 mm) load backrest extension and 42 inch (1067 mm) hook type forks are standard. All non-sealed friction points are equipped with high pressure grease fittings. The truck is painted gold, parchment, and black.

#### Options

- Regulated Auxiliary Power Supply (suitable for electronic equipment)
- 25 amps / 300 watts @ 12 volts • Headlights
  - Mast Mounted
  - Overhead Guard Mounted
  - LED or Halogen
- Rear Worklight (LED or Halogen)
- Drive-in Rack Overhead Guard
- 10 Degree Forward Tilt
- Integral Sideshifter
- Cooler/Freezer Package (Operating Temperatures: 0° to + 120°F)
- SubZero Freezer Package (Operating Temperatures: -40° to + 120°F)
- Various Drive & Steer Tire Types
- Dome Light and Two Speed Fan
- Backup Alarms
- Data Terminal Mounting Bracket
- Strobe Lights
- Push Pull Travel Control
- Reduced Speed Tilt
- Hydraulic Attachment Extension Tubes
   with and without Quick Disconnect Fittings
- Keyless Start
- AC hoist controller
- Gated Multi-Function Control Handle
- Battery Gate Interlock Options
- Fire Extinguisher
- Trucker's Style Mast Option (2 stage FFL)
- Quad Masts
  - Overhead Guard Delete Option <sup>1</sup>
  - Rear Operator Compartment Door <sup>2</sup>

<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.

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