

## 20/25/30/32

ELECTRIC 36/48 VOLT 4000 / 5000 / 6000 / 6500 lbs. (2000 / 2500 / 3000 / 3000 kg)





 The low overhead guard height facilitates easier trailer access while providing the operator ample headroom.

 Rear posts add support to the overhead guard and help prevent objects from entering the operator compartment, keeping your employees as safe as possible.

 The low step height means frequent entry and exit is easy and less tiring for the operator.



ECX 30

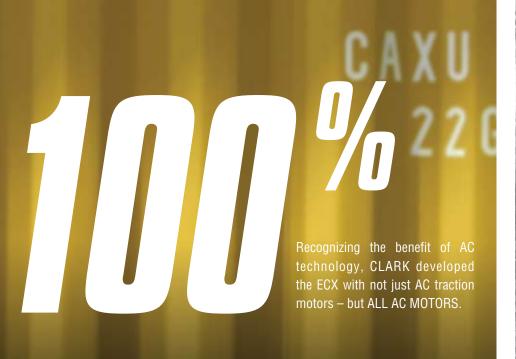
CLARK

ac

18.1" H

#### Highly Maneuverable, Easily Serviceable, Broadly Flexible, Extremely Dependable

The CLARK ECX series of electric lift trucks is the ideal choice for demanding manufacturing and distribution applications. Superior **ergonomic design**, **operator comfort** and **safety** and **outstanding truck performance** are backed by the oldest and most trusted name in lift trucks.



 Nested Upright Rails & Overhead Guard Safety Bars (running parallel to operator's line of sight) expand the vision window, reduce product damage and decrease pick times.

### Maximum Visibility + Minimum Fatigue = Ultimate Safety & Product Integrity





## ECX STANDARD FEATURES & BENEFITS



#### **PROVEN DRIVE AXLE**

- CLARK ED30
- One-piece housing reduces the possibility of leaks.
- Utilizes Durable Helical Gears
  - Provides smooth, quiet operation.



#### RUGGED CAST STEER AXLE Maximum Protection

• Offers maximum protection for the dual-action steer cylinder and fittings while still allowing easy access to the components.



#### **100% AC SYSTEM**

- Fewer Parts & Minimum Wear = Less Downtime and Cost = Higher ROI
- Enclosed Brushless Thermal protection
- Stall protection Smart lift lock out
- One motor for both steering & hydraulics.
- No Brushes To Change or Commutator to Turn...Ever
- Heavy-Duty, High Torque Drive Motor
- Produces twice the draw bar pull of some competitors.
- Climb grades previously limited to IC trucks.
- Stall Protection
- Circuitry helps protect the motors should the truck be stalled.

#### ■ Three Forms of Regenerative Braking

• Returns energy into the battery.

#### Available Equipment

- UL EE classification
- Cold storage specifications
- Unitrol foot operated direction control
- Various lights, audible alarms & mirrors
- Full feature cabs



#### FULLY ADJUSTABLE/PROGRAMMABLE

 A properly trained mechanic can completely customize parameters to operator's preference such as acceleration rate, deceleration rate, maximum speed (separate forward and reverse).



#### **RUGGED UPRIGHT AND CARRIAGE**

#### Hydraulic Cushioning Valves

- Silent staging reduces shock & vibration.
- Shimmable, Sealed & Canted Load Rollers
  - Maximize load distribution & reduce free play.



#### DASH DISPLAY

#### Parking Brake Reminder

- Sounds alarm if operator does not set parking brake.
- Back-Lit
  - Turns on with key switch.
  - Excellent visibility in direct sunlight.

#### Battery Discharge Indicator

• 10-segments used to display battery state of charge.



#### **TRACTION CONTROL**

#### Fully Programmable

• Up to 20 performance parameter settings such as acceleration, creep speed, and regen braking rate can be adjusted to meet your requirements.

#### Speed Limiting

• Maximum travel speed can be programmed to your requirements and if necessary, forward and reverse can be set independently.

#### Controlled Descent

 When the controller senses movement but no accelerator pedal input, it signals the drive motors to apply counter torque allowing the truck to slowly descend an incline in a controlled manner.

#### Ramp Start

• Added torque limits roll back when starting on an incline.



#### **OPERATOR COMPARTMENT**

#### Low Step Height

• Steel grab handle and a low step height allow for easy entry/exit from either side.

#### CLARK Safety Seat

- 6" fore / aft adjustment
- · Molded for support
- Non-cinching, retractable seat belt
- Side safety wings
- Visibility
  - A clear, unobstructed view protects your product and your employees.

## **GENERAL DATA & STANDARD DIMENSIONS**

#### **Upright Table**

Maxin Fork H in		Overall I Lowered in		Free w/o L in		Std. Tilt B⁰/Fº
	d Two Stage					
ECX 20/8 83 106 117 • 130 146 152 164 172 182 203 ECX 32	23/30 2120 2680 2980 3300 3725 3860 4165 4380 4620 5170	60 71 77 83 95 98 108 116 125 136	1525 1805 1955 2115 2405 2480 2750 2950 3180 3445	4.3 4.3 4.3 4.3 4.3 4.3 4.3 4.3 4.3 4.3	110 110 110 110 110 110 110 110 110 110	6/10 8/8 8/8 8/8 8/8 5/6 5/6 5/6 5/6 5/6 5/3
• 128 144	3250 3650	83 95	2115 2405	4.5 4.5	115 115	8/8 8/8
ECX 20/2 115 • 128 139 148 154 ECX 30	2935 3255 3530 3760 3910	77 83 89 95 98	1955 2115 2255 2405 2480	55 61.5 67 73 76	1402 1562 1702 1852 1927	8/8 8/8 8/8 8/8 5/6
115 • 128 139 148 154	2935 3255 3530 3760 3910	77 83.3 88.8 94.7 97.6	1955 2115 2255 2405 2480	53 59 64.6 70.6 73.5	1342 1502 1642 1792 1867	8/8 8/8 8/8 8/8 5/6
Triple Si ECX 20/2						
152 170 • 189 205 217 226 240 251 269 288 <b>ECX 30</b>	3860 4320 4800 5210 5520 5740 6100 6370 6830 7315	71 77 83 95 97.6 104 108 116 125	1805 1955 2115 2255 2405 2480 2640 2750 2950 3180	49 55 61.5 67 73 76 82 86.5 94.4 103.4	1252 1402 1562 1702 1852 1927 2087 2197 2397 4 2627	5/6 5/6 5/3 5/3 5/3 5/3 5/3 3/0 3/0 3/0
152 170 • 189 205 217 226 240 251 269 288 ECX 32	3860 4320 4800 5210 5520 5740 6100 6370 6830 7315	71 77 83 95 97.6 104 108 116 125	1805 1955 2115 2255 2405 2480 2640 2750 2950 3180	47 53 59 64.6 70.6 73.5 80 84 92 101	1192 1342 1502 1642 1792 1867 2027 2137 2337 2567	5/6 5/6 5/3 5/3 5/3 5/3 5/3 3/0 3/0 3/0
146 164 189 199 211	3700 4160 4800 5050 5360	71 77 85 89 95	1805 1955 2170 2255 2405	45 51 59 63 69	1146 1296 1511 1596 1746	8/8 5/6 5/6 5/3 5/3
Quad Fo All Mod 216 • 240 258	ur Stage els 5486 6096 6553	77 83 89	1956 2108 2261	52 58 64	1321 1473 1626	5/3 5/3 5/0

 Indicates preferred standard sizes. For overall height raised with load backrest, add 48 in. (1220 mm) to maximum fork height. Other uprights available, contact a CLARK representative.

<sup>44</sup> All free lift dimensions shown without standard 48 in. (1220 mm) high load backrest.

#### **Battery Compartment Dimensions**

Width in	(W) mm	Length ( in	L) mm	Height in	(H) mm
<b>ECX 20/2</b> 39.25		30.5	775	23.5	597
<b>ECX 32</b> (39.25	available option on EC 997	X 20/25/3 34.5	80) 876	23.5	597

Battery without cover, termination: A-18", Connector: 6320 (SB 350 Gray)

#### **Dimensions with Optional Battery Compartment**

Compartment Size	39.25 in W x 34.5 in. L x 23.5 in H 997 mm W x 876 mm x 597 mm H					
	ECX	20	ECX	25	ECX	30
Length to fork face (in/mm) Turning radius (in/mm) Right angle stack (in/mm) Service wt., TSU (lb/kg) Axle loading w/load, front (lb/kg) Axle loading w/load, rear (lb/kg) Axle loading w/o load, rear (lb/kg) Axle loading w/o load, rear (lb/kg) Max. capacity (6 hr. rate) (kWh) Weight, minimum (lb/kg) Grade clearance (D%)	86.8 74.2 90.9 9811 11918 1892 4877 4934 48. 3000 45	858 2212 2238 6 1361	48.	758 2192 2483 6 1361	90.2 76.7 94.1 11122 15373 1748 4786 6336 48. 3000 369	6973 793 2171 2874 6 1361

#### Notes

Performance may vary +5% and -10% due to motor and system efficiency tolerance. The performance shown represents nominal values which may be obtained under typical operating conditions of a standard machine.

#### **ANSI/ITSDF and Insurance Classification**

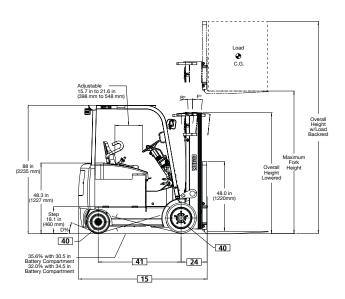
Standard truck meets all applicable mandatory requirements of Part III-ANSI/ITSDF B56.1 Safety Standard for Powered Industrial Trucks (latest edition at time of manufacture) and Underwriters Laboratories requirements as to fire and electrical shock hazard only for "E" classification. For further information contact a Clark representative.

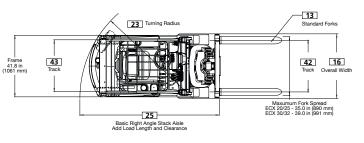
Users should be aware of, and adhere to, applicable codes and regulations regarding operator training, use, operation and maintenance of powered industrial trucks, including:

- ANSI/ITSDF B56.1
- NFPA 505, fire safety standard for powered industrial trucks type designations, areas of use, maintenance and operation.
- Occupational Safety and Health Administration (OSHA) regulations that may apply.

Contact your authorized CLARK forklift truck dealer for further information including operator training programs and auxiliary visual and audible warning systems, fire extinguishers, etc., as available for specific user applications and requirements.

Specifications, equipment, technical data, photos and illustrations are based on information at time of printing and are subject to change without notice. Some products may be shown with optional equipment.





For corresponding data see Specification Chart

## **STANDARD SPECIFICATIONS**

_	_				
	1	Manufacturer			Clark
ion	2	Model	Manufacturer's Designation		ECX 20
General Information	3	Load Capacity		lbs(kg)	4000 (2000)
Ifor	4	Load Center	Fork Face to Load CG	in(mm)	24 (500)
al Ir	5	Power Unit	Electric		36 volt / 48 volt
ner	6	Operator Type			Rider Counterbalanced
Ge	7	Tire Type			Cushion Electric Compound
	8	Wheels (x=driven)	Front/Rear		2X / 2
	9	Upright <sup>1</sup>	Maximum Lift Height, Full Capacity	in(mm)	189 (4800)
	10		Lift Height (Preferred Upright)	in(mm)	189 (4800)
	11		Freelift	in(mm)	59.1 (1562)
	12	Upright Tilt	Back/Forward (Triple Stage Upright)	degrees	5 / 6
	13	Fork	Std. Fork Size (T x W x L)	in(mm)	1.5 x 4 x 42 (40 x 100 x 1067)
	14	Carriage	Width of Carriage <sup>5</sup>	in(mm)	37 (940)
S	15	Overall Dimensions	Length to Fork Face (TSU) <sup>2</sup>	in(mm)	82.8 (2104)
Isio	16		Width Over Tires <sup>4</sup>	in(mm)	41.9 (1063)
mer	17		Width Over Frame	in(mm)	41.8 (1061)
Di	18		Height, Upright Lowered	in(mm)	83.5 (2121)
<b>Basic Dimensions</b>	19		Height, Upright Extended	in(mm)	237 (6020)
-	20		Height, Overhead Guard	in(mm)	88 (2235)
	21	Step Height	Ground to Top of Step Plate	in(mm)	18.1 (460)
	22				
	23	Turning Radius		in(mm)	70.2 (1783)
	24	Load Center Distance	Center of Drive Axle to Fork Face <sup>2</sup>	in(mm)	16.7 (424)
	25	Right Angle Stack Aisle	Add Load Length and Clearance <sup>2</sup>	in(mm)	86.8 (2204)
	26	Obstatility.			)/
	27	Stability	According to ANSI	mah(kah)	Yes
Ge	28 29	Speeds	Travel Speed, Max, With Load	mph(kph)	8.8 (14.2) / 10.8 (17.4)
nan	29 30	Lift Speeds, Loaded	Travel Speed, Max, Without Load	mph(kph)	9.2 (14.8) / 11.3 (18.2) 59 (0.30) / 96 (0.49)
Performance	31	Lift Speeds, Unloaded	Triple Stage Upright Triple Stage Upright	fpm(mps) fpm(mps)	100 (0.51) / 114 (0.58)
Pe	32	Lower Speeds, Loaded	Triple Stage Upright	fpm(mps)	88 (0.45)
	33	Lower Speeds, Unloaded	Triple Stage Upright	fpm(mps)	80 (0.41)
	34	Service Weight, TSU	W/Min Battery Weight	lbs(kg)	9348 (4240)
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	35	Axle loading	With Load, Front	lbs(kg)	11810 (5357)
Weights <sup>3</sup>	36		With Load, Rear	lbs(kg)	1537 (697)
Wei	37		W/O Load, Front	lbs(kg)	4766 (2162)
	38		W/O Load, Rear	lbs(kg)	4581 (2078)
	39	Tires	Number, Front/Rear		2/2
	40		Size, Front	in(mm)	21x7x15 (533x178x381)
			Size, Rear	in(mm)	16x6x10.5 (406x152x267)
	41	Wheelbase		in(mm)	53 (1346)
is	42	Track	Front, Cushion	in(mm)	34.8 (884)
Chassis	43		Rear Cushion	in(mm)	34.2 (869)
G	44	Ground Clearance	Min w/o Load	in(mm)	2.8 (71)
	45		At Center of Wheelbase	in(mm)	4.5 (114)
	46	Service Brake	Туре		Drum and Shoe
	47	Parking Brake	Туре		Pedal Actuated
	40	Steering	Туре		Hydrostatic
	48	Battery	Type		Lead-Acid
			Max Capacity (6 hr. Rate) 30.5 in com		41.8
ine	40	Mators Controls	Weight, Min	lbs(kg)	2600 (1180)
Drive Line	49	Motors, Controls	Drive Motor, Diameter	in(mm)	10.6 (270) 7.9 (200)
Driv			Hydraulic Motor, Diameter Drive Motor Control	in(mm)	Inverter
			Speed Control		Solid State
			Hydraulic Motor Control		Inverter
_	57	Hydraulic Pressure			Adjustable
	58	Sound Level	Avg. at Operator's Ear Per ANSI B56.1	1.5 dB(A)	64
		County Lovon	ring. at opprator 3 Lar 1 of Anior Dou. I	1.0 00(1)	01

Notes:

See upright table for other available uprights. Dimensions are for TSU and standard forks – make the following adjustments for other uprights: +2.74" for Quad, -1.2" for STD, +0.9 for HiLo. Add 2.3" for SS. Specifications are given with preferred triple stage upright on line 10 and minimum battery weight. 1 2 3

## ECX 20/25/30/32

Clark	Clark	Clark
ECX 25	ECX 30	ECX 32
5000 (2500)	6,000 (3000)	6,500 (3000)
24 (500)	24 (500)	24 (500)
36 volt / 48 volt	36 volt / 48 volt	36 volt / 48 volt
Rider Counterbalanced	Rider Counterbalanced	Rider Counterbalanced
Cushion Electric Compound	Cushion Electric Compound	Cushion Electric Compound
2X / 2	2X / 2	2X / 2
189 (4800)	170 (4318)	164 (4166)
189 (4800)	189 (4800)	189 (4800)
59.1 (1562)	59.1 (1562)	59.5 (1511)
5/6	5/6	5/6
1.5 x 4 x 42 (40 x 100 x 1067)	1.75 x 5 x 42 (45 x 125 x 1067)	2 x 5 x 42 (50 x 125 x 1067)
37 (940)	41 (1041)	41 (1041)
86.2 (2190)	87.7 (2228)	92.2 (2342)
43.9 (1114)	43.9 (1114)	45.4 (1154)
41.8 (1061)	41.8 (1061)	41.8 (1061)
83.5 (2121)	83.5 (2121)	83.5 (2121)
237 (6020)	237 (6020)	237 (6020)
88 (2235)	88 (2235)	88 (2235)
18.1 (460)	18.1 (460)	18.1 (460)
18.1 (400)	10.1 (400)	10.1 (400)
70.0 (4045)	70.0 (1077)	70.0 (1000)
72.6 (1845)	73.9 (1877)	78.3 (1989)
16.7 (424)	16.9 (429)	17.5 (445)
89.7 (2279)	91.3 (2319)	96.2 (2444)
Yes	Yes	Yes
8.5 (13.7) / 10.6 (17.1)	8.2 (13.2) / 9.8 (15.8)	7.5 (12.1) / 9.4 (15.1)
9.1 (14.6) / 11.0 (17.7)	8.7 (14.0) / 10.8 (17.4)	8.0 (12.9) / 10.4 (16.7)
55 (0.28) / 90 (0.46)	49 (0.25) / 82 (0.42)	45 (0.23) / 80 (0.41)
100 (0.51) / 114 (0.58)	84 (0.43) / 104 (0.53)	84 (0.43) / 104 (0.53)
90 (0.46)		
	92 (0.47)	92 (0.47)
80 (0.41)	80 (0.41)	80 (0.41)
10582 (4800)	11155 (5060)	11828 (5365)
13422 (6088)	15181 (6886)	16219 (7357)
2161 (980)	1975 (896)	2108 (956)
4621 (2096)	4594 (2084)	5027 (2280)
5961 (2704)	6561 (2976)	6801 (3085)
2/2	2/2	2/2
21x8x15 (533x203x381)	21x8x15 (533x203x381)	21x9x15 (533x229x381)
16x6x10.5 (406x152x267)	16x6x10.5 (406x152x267)	16x6x10.5 (406x152x267)
53 (1346)	53 (1346)	57 (1448)
35.8 (909)	35.8 (909)	36.5 (927)
34.2 (869)	34.2 (869)	34.2 (869)
2.8 (71)	2.8 (71)	2.8 (71)
4.5 (114)	4.5 (114)	4.5 (114)
Drum and Shoe	Drum and Shoe	Drum and Shoe
Pedal Actuated	Pedal Actuated	Pedal Actuated
Hydrostatic	Hydrostatic	Hydrostatic
Lead-Acid	Lead-Acid	Lead-Acid
41.8	41.8	48.66
2600 (1180)	2600 (1180)	3100 (1407)
10.6 (270)	10.6 (270)	10.6 (270)
7.9 (200)	7.9 (200)	7.9 (200)
Inverter	Inverter	Inverter
Solid State	Solid State	Solid State
Inverter	Inverter	Inverter
Adjustable	Adjustable	Adjustable
64	64	64
т	τυ	τυ

OAW with wide drive tires is 48.7in for all models with quad uprights above 222.5in. and with triple stage uprigths above 240in. 36in. max fork spread w/37in. carriage. 40in. fork spread w/41in. carriage. Standard compartment size on ECX32 is 34.5" (876mm). 4 5 6



CLARK

ac.

ac

## **& Don't Forget...** Safety Starts With You!

# Before operating a lift truck, an operator must: • Be trained and authorized • Read and understand operator's manual • Not operate a faulty lift truck • Not repair a lift truck unless trained and authorized • Have the overhead quard and le

- Have the overhead guard and load backrest extension in place Perform daily inspections •

- During operation, a lift truck operator must:
  Keep feet, legs and all parts of body inside operator compartment
  Never carry passengers or lift people and obstructions
  Travel with lift mechanism as low as possible and tilted back
  Allow safe stopping distance and come to a complete stop before leaving operator compartment

#### To park a lift truck, an operator must:

- Completely lower forks or attachments Move directional lever to neutral Apply parking brake Turn key off

面包

- We don't just build forklifts. As a company, we are also focused on providing our customers with the best possible technical service support and aftermarket parts available.
- Even though our business starts with a quality, costeffective product, our organization understands that it is the support and services we provide after the sale that help keep your business running at peak efficiency.
- THE CLARK PartsPRO® SYSTEM is our industry-leading electronic parts and service documentation tool that provides dealers with a quick and accurate method of identifying parts for every CLARK forklift built since 1961. PartsPRO® ensures the availability of the most current technical information and has the unique capability to create parts manuals specific to your mixed CLARK fleet, making it simple to positively identify and order the correct part(s) from your local CLARK dealer. The right CLARK part — The First Time Every Time

• UNRIVALED PARTS SUPPORT Our Aftermarket Distribution Center provides parts to over 250 North American CLARK dealers and many international dealers. This CLARK operated 184,000 square foot facility is dedicated to supporting the CLARK models built over the last 90 years. This facility is focused on providing excellent offthe-shelf availability, quality parts, quick response time and competitive pricing.

## DEPENDABLE PARTS = DEPENDABLE TRUCKS



# **BUILT TO LAST**.



CLARK MATERIAL HANDLING COMPANY North American Headquarters 700 Enterprise Drive • Lexington, KY 40510 866-252-5275 • www.clarkmhc.com ECX 20/25/30/32 59-894-0988 Printed in USA CR04095M

© 2009 CLARK Material Handling Company