





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

In the past, one truck would be used for outdoor applications and another truck would be used for indoor warehousing. Now one GEX can handle both environments, leaving you with the realization... two "hands" aren't always better than one.





# 80-Volt high performance drive lift systems allow the GEX to rival ernal combustion truck performance in speed, acceleration and gradeability.

Speed of the independent dual-drive motors is factored by steer angle; this reduces
tire wear and enables gentle start-up, even when steering is fully locked. Solidpneumatic tires, plus enclosed motors and sealed controls, allow the truck to operate
outdoors as well, making the GEX an excellent indoor/outdoor truck. Also ask your
local CLARK dealer about the optional armrest fingertip controls that are available.

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



# GEX STANDARD FEATURES & BENEFITS



# **HEAVY DUTY AC DRIVE MOTORS & AXLES**

- Fewer Parts & Minimum Wear = Less Downtime and Cost = Higher ROI
- Enclosed
   Brushless
   Thermal protection
- Stall protection Suitable for wet applications
- Dual-powered, independent control for tight turns
- Same motors for E & EE

# **REGEN & WET DISC BRAKES**

# **■** Three Forms of Regen Brake

- Accelerator release. (Proportional to accelerator position)
- Change of direction. (Proportional to accelerator position)
- Service brake. (Foot Brake)

#### ■ Wet Disc Brakes

- Enclosed and oil cooled for smooth, quiet operation.
- "Wet" brakes provide long life.
- · Less downtime.



# **80 VOLT 100% AC SYSTEM**

# **■** High Performance

 Rivals I.C. truck performance in speed, acceleration and gradeability.

# ■ More Efficient System

 Higher Voltage = Lower Line Loss & Heating = Greater Efficiency

# ■ Better Suited to Fast/Rapid Charge

 Only requires one receptacle via single battery connector.

# ■ More Battery Capacity

• GEX 40/45/50 can accommodate a 71.8 Kwh battery.

# **Standard Equipment**

- 80 Volt
- Wet Disc Brakes
- Single Aux Valve
- · Tilt Steer Column
- Regenerative Braking
- Solid Pneumatic Tires
- · Hood Mounted Levers
- · Vinyl Full Suspension Seat
- Hydrostatic Power Steering
- Independent Drive Motors
- OHG Mounted 12 Volt Headlights
- · Programmable, Color Dash Display
- 100% AC (drive and pump control)

# **Optional Equipment**

- · Sideshifters
- EE Construction
- Armrest Controls
- Double Aux Valves
- 2, 3, & 4-Stage Uprights
- Cold Storage with Heaters
- · Lights and Backup Alarms
- · Cloth Full Suspension Seat



# **EASILY SERVICED**

 The cover for the rear controls quickly unscrews allowing convenient service access from a standing position. Onboard diagnostics allow servicing mechanic to check fault codes without service tool.



# **RUGGED UPRIGHT AND CARRIAGE**

- **■** Hydraulic Cushioning Valves
  - Silent Staging Reduces Shock & Vibration.



# **STABLE PLATFORM**

# **■** Lower Center of Gravity

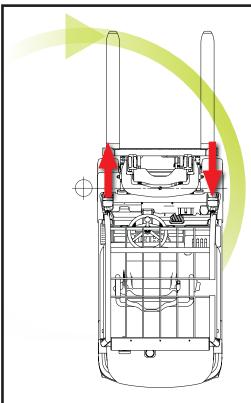
 Improved driveability by moving the steer axle back while lowering the battery compartment and all major components.

# **■** Wide Stance

• Increases lateral stability while lifting/lowering loads.

# **■** Curve Cutback

· Reduces truck travel speed in turns.



# **POWERED INDEPENDENT DRIVE MOTORS**

# ■ 2-Wheel Drive

 Provides added traction, especially on wet or uneven surfaces.

# ■ Will Not Scuff Tires

 Inside wheel power decreases in tight turns preventing scuffing of steer tires, unlike conventional four-wheel trucks.

# **■** Hall Effect Steer Sensor

• Relays steer tire position to controller.



# **INTERACTIVE LCD DASH DISPLAY**

# **■** Fully Adjustable/Programmable

- The operator can select from four pre-set performance modes.
- Additional adjustments can be made to maximize performance in certain operations.

#### Alarm codes

• Indicates the current alarm code and stores previous alarm codes for quick access.

#### Password Protected

 Certain adjustments are password protected to allow only authorized operators to make adjustments.

# GENERAL DATA & STANDARD DIMENSIONS

Unria	ht Table	j				
Maximum Fork Height in mm		Overal	Overall Height Lowered in mm		Free Lift w/LBR in mm	
98 106 118 130 138 146 157 177 197	d Two Stag 2500 2700 3000 3300 3500 3700 4000 4500 5000	e — GEX4 78 82 88 94 97 101 107 117 127	0/45/50 1975 2075 2225 2375 2475 2575 2725 2975 3225	5555555555	130 130 130 130 130 130 130 130 130	8/8 8/8 8/8 8/8 8/8 5/6 5/6
Triple \$ 146 157 169 177 189 197 216 236 255 275	3700 4000 4300 4300 4500 4800 5500 5500 6000 6500 7000	8 <b>X40/45/50</b> 79 83 87 89 93 96 102 109 116 122	2002 2102 2202 2202 2269 2369 2436 2603 2770 2937 3104	31 35 39 41 45 48 54 61 68 74	782 882 982 1049 1149 1216 1383 1550 1717	5/6 5/6 5/6 5/6 5/6 5/3 5/3 3/3 3/3 3/3
Hi-Lo — 106 118 130	- <b>GEX40/45/</b> 5 2700 3000 3300	83 89 94	2099 2249 2399	35 41 46	879 1029 1179	8/8 8/8 8/8

• For Triple stage and Hi-lo uprights, free lift increases by 610 mm (24") without LBR.

# **Battery Compartment Dimensions**

Width in	(W) mm	Lengtl in	n (L) mm	Height in	(H) mm	Weigh Ibs	nt kg
	<b>15/50 — Stan</b> (1029)		(998)	30.8	(782)	4562	(2069)
	<b>15/50 — Optic</b> (1029)		(853)	30.8	(782)	3903	(1770)

See Tilt

· Note: Optional battery will reduce truck capacity. Consult factory for details.

# **Grade Clearance\***

GEX 40	34%
GEX 45	31%
GEX 50	31%

\* The GEX is designed for operation on and over grades but must

# Tilt Specifications\*

Upright MFH in. (mm)	Tilt Angle B°/ F°
Standard uprights thru 146 in. (3780 mm) and Hi-Lo thru 130 in. (3300 mm)	8/8
TSU thru 189 in. (4800 mm), Standard 157 in. (4000 mm) thru 177 in. (4500 mm)	5/6
TSU 197 in. (5000 mm) thru 216 in. (5500 mm) and 197 in. (5000 mm) Standard	5/3
TSU 236 in. (6000 mm) thru 275 in. (7000 mm)	3/3
* Ctandard tilt with MELPa nated Contact Clark representative f	or information

Standard tilt with MFH's noted. Contact Clark representative for information on optional tilt.

#### **Notes**

Performance may vary +5% and -10% due to motor and systems 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.

# And Don't Forget... Safety Starts With You! Be trained and authorized

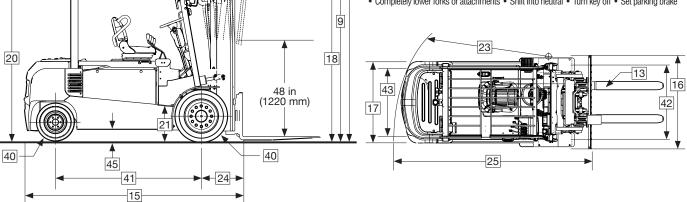
- Read and understand operator's manual
- Not operate a faulty lift truck Not repair a lift truck unless
- trained and authorized Have the overhead guard and load backrest extension in place
- Perform daily inspections

# During operation, a lift truck operator must: • Wear a seat belt

- Keep entire body inside truck cab
- Never carry passengers or lift people Keep truck away from 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 • Shift into neutral • Turn key off • Set parking brake



19

# STANDARD SPECIFICATIONS

# GEX40/45/50

	1	Manufacturer			Clark	Clark	Clark
5	2	Model	Manufacturer's Designation		GEX40	GEX45	GEX50
nati	2 3 4 5 6 7	Load Capacity		lbs(kg)	8000/4000	9000/4500	10000/4990
į	4	Load Center	Fork Face to Load CG	in(mm)	24 (500)	24 (500)	24 (500)
-	5	Power Unit	Electric		80 volt	80 volt	80 volt
a	6	Operator Type			Rider Counterbalanced	Rider Counterbalanced	Rider Counterbalanced
٩	7	Tire Type			Solid Pneumatic	Solid Pneumatic	Solid Pneumatic
	8	Wheels (x=driven)	Front/Rear		2X / 2	2X / 2	2X / 2
	9	Upright <sup>1,2</sup>	Maximum Lift Height, Full Capacity	in(mm)	177 (4500)	177 (4500)	177 (4500)
	10		Lift Height (Preferred Upright)	in(mm)	177 (4500)	177 (4500)	177 (4500)
	11		Freelift w LBR	in(mm)	41 (1049)	41 (1049)	41 (1049)
			Back/Forward (Triple Stage Upright)	degrees	5/6	5/6	5/6
		Fork	Std. Fork Size (T x W x L)	in(mm)	42X5X2 (1067X122X50)	42X6X2 (1067X150X50)	42X6X2 (1067X150X50)
		Carriage	Width of Carriage	in(mm)	52 (1324)	57 (1438)	57 (1438)
Sul Sul	15	Overall Dimensions	Length to Fork Face (TSU) <sup>2</sup>	in(mm)	116.7 (2965)	116.7 (2965)	118.1 (3000)
neio	16		Width Over Tires	in(mm)	55 (1396)	58.7 (1490)	58.7 (1490)
E E	17		Width Over Frame	in(mm)	54 (1372)	58 (1473)	58 (1473)
	18		Height, Upright Lowered	in(mm)	89.3 (2269)	89.3 (2269)	89.3 (2269)
Basic Dimensions	19		Height, Upright Extended w/wo LBR	in(mm)	225/207.4 (5715/5269)	225/207.4 (5715/5269)	225/207.4 (5715/5269)
	20	0	Height, Overhead Guard	in(mm)	90.9 (2310)	90.9 (2310)	90.9 (2310)
	21	Step Height	Ground to Top of Step	in(mm)	19.9 (506)	19.9 (506)	19.9 (506)
	22	T Dadi		in/mm)	105.0 (0075)	105.0 (0075)	100.0 (0700)
		Turning Radius	Outer of Div Ade to Fort Food	in(mm)	105.3 (2675)	105.3 (2675)	106.3 (2700)
	24	Load Center Distance	Center of Drive Axle to Fork Face <sup>2</sup>	in(mm) in(mm)	22.4 (569)	22.4 (569)	22.4 (569)
	25 26	Right Angle Stack Aisle	Add Load Length and Clearance <sup>2</sup>	111(111111)	127.7 (3244)	127.7 (3244)	128.7 (3269)
		Stability	According to ANSI B56.1		Yes	Yes	Yes
	28	Speeds	Travel Speed, Max, With Load	mph(kph)	12.4 (20.0)	11.8 (19.0)	11.8 (19.0)
9	29	Opcous	Travel Speed, Max, Without Load	mph(kph)	13.0 (21.0)	12.4 (20.0)	12.4 (20.0)
Performance	30	Lift Speeds, Loaded	Triple Stage Upright	fpm(mps)	69 (0.35)	65 (0.33)	61 (0.31)
f	31	Lift Speeds, Unloaded	Triple Stage Upright	fpm(mps)	93 (0.47)	93 (0.47)	93 (0.47)
ď	32	Lower Speeds, Loaded	Triple Stage Upright	fpm(mps)	104 (0.53)	104 (0.53)	104 (0.53)
	33			fpm(mps)	98 (0.50)	98 (0.50)	98 (0.50)
	34	-	w/ Min Battery Weight	lbs(kg)	15477 (7019)	16535. (7499)	17439 (7909)
52	35	Axle loading	w/ Load, Front	lbs(kg)	21598 (9795)	23692 (10745)	25247 (11450)
dei	35 36 37		w/ Load, Rear	lbs(kg)	2701 (1225)	2767 (1255)	3195 (1449)
W	37		w/o Load, Front	lbs(kg)	8214 (3725)	8635 (3916)	8551 (3878)
	38		w/o Load, Rear	lbs(kg)	7265 (3295)	7901 (3583)	8888 (4031)
	39	Tires	Number, Front/Rear		2/2	2/2	2/2
	40		Size, Front	in	250-15	28x12.5-15	28x12.5-15
			Size, Rear	in(mm)	21x8-9	21x8-9	21x8-9
		Wheelbase		in(mm)	78.7 (2000)	78.7 (2000)	78.7 (2000)
.0	42	Track	Front	in(mm)	45.3 (1150)	46.5 (1180)	46.5 (1180)
Chaceie	43		Rear	in(mm)	39.4 (1000)	39.4 (1000)	39.4 (1000)
ے		Ground Clearance <sup>4</sup>	Min w/Load	in(mm)	5.3 (135)	5.3 (135)	5.3 (135)
	45		At Center of Wheelbase, Loaded	in(mm)	6.0 (152)	6.0 (152)	6.0 (152)
Drive Line		Service Brake	Type		Wet Disk	Wet Disk	Wet Disk
	4/	Parking Brake	Туре		Pedal Actuated	Pedal Actuated	Pedal Actuated
	40	Steering	Type		Hydrostatic	Hydrostatic	Hydrostatic
	48	Battery	Type	LAA/lo	Lead-Acid	Lead-Acid	Lead-Acid
			Max Capacity (6 hr. Rate)	kWh	71.8	71.8	71.8
	40	Motore Controls	Weight, Min	lbs(kg) in(mm)	4562 (2069)	4562 (2069)	4562 (2069)
	49	Motors, Controls	Drive Motor, Diameter (Dual)	in(mm)	9.4 X 6.3 (240 x 160)	9.4 X 6.3 (240 x 160)	9.4 X 6.3 (240 x 160)
	5		Hydraulic Motor, Diameter  Drive Motor Control	111(111111)	9.4 x 9.4 (240 x 240) Mosfet	9.4 x 9.4 (240 x 240) Mosfet	9.4 x 9.4 (240 x 240) Mosfet
			Speed Control		Solid State	Solid State	Solid State
			Hydraulic Motor Control		Mosfet Inverter	Mosfet Inverter	Mosfet Inverter
	57	Hydraulic Pressure	Tryaradiio Wolor Odrilloi		Adjustable	Adjustable	Adjustable
	_	Sound Level	Avg. at Operator's Ear Per DIN 12053	dB(A)	Aujustable 74	Aujustable 74	Aujusidole 74
	JO	Journa Level	Avg. at Operators Ear Per DIN 12053	UD(A)	14	14	14

Notes: 1 2

See upright table for other available uprights. Lost load dimension is for standard or Hi-Lo uprights and standard forks. Add 34 mm for triple stage uprights. Add 74 mm for Clark integral side-shifter. Add 78 mm for Clark hang-on side-shifter.

 <sup>3</sup> Specifications are given with preferred triple stage upright and minimum battery weight.
 4 Ground clearance at center of wheelbase is 6.0" and 5.3" at drive tires.
 5 All service weights are for units equipped with 130" STD upright.

- We don't just build material handling equipment. 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, cost-effective 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®Plus 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 lift truck 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 parts 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 off-the-shelf availability, quality parts, quick response time and competitive pricing.

DEPENDABLE PARTS = DEPENDABLE

To Find Your Nearest Authorized CLARK Dealer, Visit Our Website www.clarkmhc.com

# BUILT TO LAST.







North American Headquarters
700 Enterprise Drive • Lexington, KY 40510
866-252-5275 • www.clarkmhc.com



