

IC-CUSHION

# Heavy Cushion Tire Lift Trucks L P G / G a s o l i n e

CGC60

13,500 lbs 6000 kg

CGC70

15,500 lbs 7000 kg

## CGC60/70

Genesis™ Series



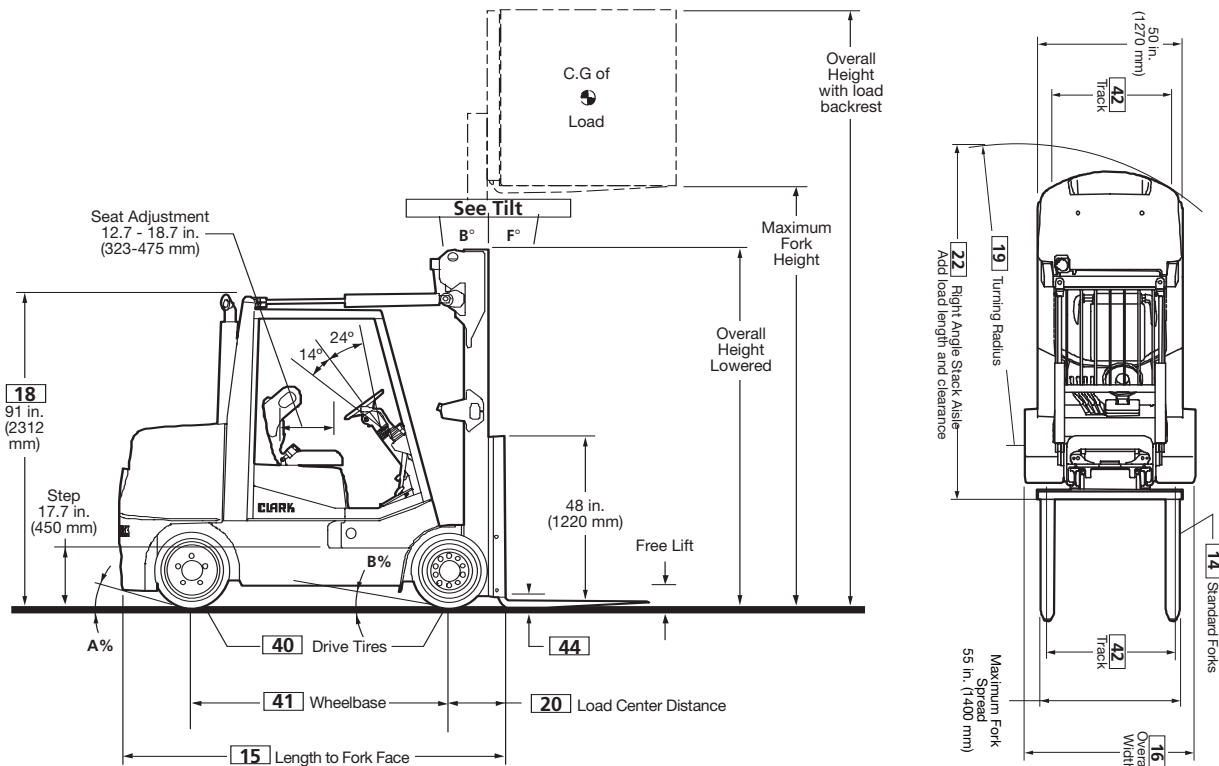
CLARK THE FORKLIFT

North America

Korea

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For corresponding data see Specification Chart.



### Upright Table

	Maximum Fork Height†		Overall Height Lowered		Free Lift	
	in	mm	in	mm	in	mm
<b>CGC60/70 Standard</b>						
• 103	2616	92	2337	8.5	216	
• 117	2972	99	2515	8.5	216	
• 135	3429	108	2743	8.5	216	
• 159	4039	120	3048	8.5	216	
<b>Triple Stage</b>						
• 135	3429	87	2210	40	1016	
• 150	3810	92	2337	55	1397	
• 174	4420	100	2540	63	1600	
• 189	4801	105	2667	68	1727	
• 198	5029	108	2743	72	1829	
• 222	5639	119	3023	83	2108	
• 275	6985	142	3607	103	2616	

- 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.

### Grade Clearance

Model	A%	B%
CCG/CDC60	36	18
CGC/CDC70	30	18

### Tilt Specifications\*

Upright MFH (in./mm)	Tilt-B°/F°
Standard Upright 103 in. (2615 mm) thru 159 in. (4039 mm)	8°/ 8°
Triple Stage Uprights 150 in. (3810 mm)	6°/ 10°
174 in. (4420 mm) thru 189 in. (4800)	5°/ 6°
198 in. (5030 mm) thru 222 in. (5639)	5°/ 3°
275 in. (6985 mm)	3°/ 0°

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

## CGC60/70

### Available Equipment

- High visibility standard and triple stage uprights of varied heights
- Side shifters, hydraulic control options and hoses adaptations
- Unitrol™ foot directional control
- Suspension seat
- Non-marking tires
- Engine air cleaner pre-cleaner
- Engine air cleaner safety element
- Lights, strobes/audible alarms and mirrors
- U.L. LPS classified construction

### Notes

Production engines and driveline components may vary in output and/or efficiency by ±5%. The performance shown represents nominal values which may be obtained under typical operating conditions of a machine.

Clark products and specifications are subject to change without notice.

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### ANSI/ASME and Insurance Classification

Standard truck meets all applicable mandatory requirements of ASME-B56.1 Safety Standard for Powered Industrial Trucks and Underwriters Laboratories requirements as to fire hazard only for G, LP, and LPS classifications. For further information contact a Clark representative.

### For Your Safety

Before operating a lift truck, an operator must:

- Be trained and authorized
- Read and understand the 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

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

To park a lift truck, an operator must:

- Completely lower forks or attachments
- Shift into neutral
- Turn key off
- Set parking brake

Contact your Clark dealer for operator training information.

**Notes:**  
**1** Weights and performance information are given on trucks with 117 in. (2972 mm) triple uprights.  
**2** For triple stage upright add 0.8 in. (20 mm).

# SPECIFICATIONS

**3** Engines rated per SAE J1349. Performance with LPG may be expected to be less than values shown.

General Information	1	Manufacturer		Clark	Clark	
	2	Model	Manufacturer's designation	CGC 60	CGC 70	
	3	Load capacity		lbs(kg)	13,500 (6000)	15,500 (7000)
	4	Load center	Fork face to load CG	in(mm)	24 (600)	24 (600)
	5	Drive unit	Type		Gasoline / LPG	Gasoline / LPG
	6	Operator type			Rider counterbalanced	Rider counterbalanced
	7	Tire type			Cushion	Cushion
	8	Wheels (x=driven)	Front/rear		2 x / 2	2 x / 2
Basic Dimensions <sup>1</sup>	9	Upright <sup>1,2</sup>	Maximum fork height, full capacity	in(mm)	159 (4039)	159 (4039)
	10		Lift height (preferred triple upright)	in(mm)	117 (2972)	117 (2972)
	11		Free lift <sup>1</sup>	in(mm)	8.5 (216)	8.5 (216)
	12	Upright tilt	Back/forward (see tilt specifications)	degrees	8 / 8	8 / 8
	14	Fork	Std. Fork size (TxWxL)	in(mm)	2.5 x 6 x 48 (65 x 150 x 1220)	2.5 x 6 x 48 (65 x 150 x 1220)
	15	Overall dimensions	Length to fork face <sup>2</sup>	in(mm)	112.3 (2802)	115.1 (2878)
	16		Width over drive axle	in(mm)	58.8 (1494)	58.8 (494)
	17		Height, upright lowered <sup>1</sup>	in(mm)	108 (2743)	108 (2743)
	18		Height, upright extended w/ load backrest <sup>1</sup>	in(mm)	165 (4191)	165 (4191)
	18		Height, overhead guard	in(mm)	91.0 (2306)	91.0 (2306)
	19	Turning radius	Outside	in(mm)	105.1 (2743)	107.4 (2743)
	20	Load center distance	Center of drive axle to fork face <sup>2</sup>	in(mm)	18.9 (480)	18.9 (480)
	22	Right angle stack aisle	Add load length and clearance <sup>2</sup>	in(mm)	123.9 (3226)	126.2 (3277)
	Performance <sup>1</sup>	23	Stability	According to ASME B56.1		Yes
24		Speed	Travel speed, max w/load	mph(kph)	10.3 (16.5)	10.2 (16.3)
25			Travel speed, max w/o load	mph(kph)	10.4 (16.5)	10.4 (16.6)
			Speed on grade, loaded			
			5%, loaded	mph(kph)	7.6 (12.2)	7.5 (12.0)
			10%, loaded	mph(kph)	5.6 (9.0)	5.5 (8.8)
			15%, loaded	mph(kph)	4.5 (7.2)	4.5 (7.2)
26		Lift speed, loaded/empty	Standard upright	fpm(ms)	61/83 (.31/.42)	60/83 (.30/.42)
28			Triple stage upright	fpm(ms)	62/81 (.31/.41)	60/81 (.30/.41)
29		Lower speed,loaded/empty	Standard upright	fpm(ms)	80/69 (.40/.35)	80/69 (.40/.35)
			Triple stage upright	fpm(ms)	75/58 (.38/.30)	75/58 (.38/.30)
30		Drawbar pull, maximum	With load	lbs/N	9,470 / 42120	9,420 / 41900
		Without load	lbs/N	4,470 / 19885	4,450 / 19795	
32	Gradeability	At 1 mph (1.6 kph) with load	%	26.4	25.2	
		Maximum with/without load <sup>1</sup>	%	32.3 / 19.9	29.9 / 17.7	
Weights <sup>1</sup>	34	Service weight		lbs(kg)	18,809 (8532)	20,859 (9462)
	35	Axle loading	With load, front	lbs(kg)	28,922 (13119)	32,415 (14703)
	36		With load, rear	lbs(kg)	3,387 (1536)	3,944 (1789)
	37		Without load, front	lbs(kg)	7,804 (3540)	8,173 (3707)
	38		Without load, rear	lbs(kg)	11,005 (4992)	12,686 (5754)
Chassis	39	Tires	Number, front/rear		2 / 2	2 / 2
	40		Size, front	in	22 x 14 x 16	22 x 14 x 16
			Size, rear	in	22 x 8 x 16	22 x 8 x 16
	41	Wheelbase		in(mm)	75.0 (1905)	75.0 (1905)
	42	Track	Front/rear	in(mm)	44.8/42.0 (1138/1067)	44.8/42.0 (1138/1067)
	44	Ground clearance	Minimum/at center of wheelbase	in(mm)	3.8/6.1 (96/155)	3.8/6.1 (96/155)
	46	Service brake	Type		Power assist disc	Power assist disc
	47	Parking brake	Actuation		Foot applied	Foot applied
	Steering	Type		Hydrostatic	Hydrostatic	
Drive Line	49	Engine	Manufacturer/model		GM / 4.3 V6	GM / 4.3 V6
	51		Rated output <sup>3</sup>	HP/kW@rpm	93 / 69 @ 2400	93 / 69 @ 2400
			Torque	Lb-ft/Nm@rpm	235 / 318 @ 2000	235 / 318 @ 2000
	52		Speed, max governed	rpm	2,650	2,650
	53		Cylinders/displacement	cu. In.-liters	6 / 262 - 4.3	6 / 262 - 4.3
54	Transmission	Manufacturer/type, speeds F/R		Clark Powershift 2/2	Clark Powershift 2/2	
	57	Hydraulic pressure	For attachments	PSI/Bar	Adjustable	Adjustable
	58	Sound level	Avg. at operator's ear per ISO	dB(A)	81	81

Clark CGC 60/70 cushion tire trucks are suited for use in manufacturing, building materials and paper handling, cargo and distribution where durability and responsiveness are required. Available with gasoline or LPG engines, these trucks provide high levels of operator comfort, low noise, reliability, and ease of service. Clark electric shift transmissions are standard.

### Operator Control & Comfort

Genesis™ Series trucks feature a rubber isolated operator cell that provides a quiet, comfortable and spacious environment for operators of all sizes. The large floor area is free of obstructions and is covered with a permanent rubber mat. Large open steps and grab handles assist entry and exit from both sides. Two-pedal inch-brake system has low-height short travel pedals. Left pedal is for inching and brake operation; right pedal is for brake only. Left foot actuated parking brake.

Cowl mounted hydraulic control levers with soft touch knobs. Left hand finger-tip operated directional control is electrically actuated; direction reversals are hydraulically cushioned. Safety seat with retractable seat belt and lateral restraints are proven effective; thick seat and back cushions with molded bolsters, and 6 in. (150 mm) of front-back adjustment provide excellent comfort for a wide range of operators. Tilt steering column provides 38° of adjustment; thick-section wheel is easily operated with one hand.

Illuminated instrument pod with highly visible display. Integral Monitor system with automatic engine shutdown feature provides continuous monitoring of engine oil pressure, transmission and coolant temperature. The instrument pod also incorporates low LPG and parking brake 'set' warning lights, air cleaner service light and analog temperature and fuel gauge (gasoline models), 5-digit hour meter and audible alarm.

### Gasoline/LPG Engine

This widely accepted, GM 4.3 L V-6 fuel efficient industrial engine incorporates cast iron block and cylinder head, roller camshaft, exhaust valve rotators, and advanced engine sealing for leak protection. "Vortec" induction system, camshaft, and lubrication systems are specifically designed for lower RPM, high torque industrial applications; the engine incorporates an internal dynamic balancer to reduce vibration. Gasoline models are equipped with throttle body fuel injection. LPG models are supplied with IMPCO fuel systems with brackets for 43.5 lb. (19.7 kg) tanks.

### Engine Accessories/Capacities

Trucks are 12-volt negative ground. Starters are equipped with heavy-duty clutch. Alternators have 65 amp output and incorporate internal regulation. Maintenance free batteries are rated at 420 CCA at 0°F (-18°C). All models utilize Cyclopac air cleaners with high air intake, automatic dirt ejectors, and electric indicator for service. Supplemental safety element (optional) can be added without other changes. Engine oil is cooled by a heat exchanger located in the truck radiator.

Cooling system capacity: 15 qts. (15.8 L). Crankcase capacity: 5.5 qts. (5.2 L). Fuel tank capacity: 20.5 gal. (77 L) on gasoline and diesel models.

### Service Access

Clamshell hood gives full access for inspections and service. Single piece floor panel is removable without tools. Filters are easily serviced and located to prevent spillage. An electronic panel on the front cowl provides easy access to relays and automotive blade-type fuses.

### Transaxle

Clark H200ES two-speed, full reversing, powershift transaxle is an integral assembly of transmission, differential, and drive axles providing long life and high durability. Solenoid actuated, hydraulic dampened shift control and mechanical inching provide excellent modulation for precise control. Axle assemblies are enclosed with final reduction at the wheel hub. Inboard brakes benefit by torque multiplication which increases responsiveness. They are also protected from contamination for added life. Externally mounted charging pump and parking brake assemblies are proven reliable and are easily accessed. Heavy-duty cooling system incorporates an independent oil-to-air transaxle oil cooler. Transmission test ports, neutral start switch and shift controls are located on the transmission control cover for simplified access and servicing. Full-flow transmission spin-on oil filter and sump screen are easily serviced.

### Brakes

Hydraulically actuated disc-type brakes are power assisted. The disc brakes operate on the axle pinion shaft where brake torque is multiplied for responsive operation. Their enclosed location protects against contamination. Brake and inching operation with left pedal, braking only with right pedal. A left parking brake pedal actuates the transmission mounted service brake. The cable is easily adjusted from within the operator compartment.

### Hydraulics

Gear type, direct drive pump provides fluid for hydraulic functions, steering, and brake power assist. Priority-demand steering system conserves energy by supplying hydraulic fluid on demand-only basis. Hydraulic tank is integral with truck frame, in-tank return line filter is quickly changed without spill. A quick-connect pressure port on the pump enables convenient pressure checks. All pressure fittings utilize O-ring type face seals. Sump tank capacity is 19.4 gal. (73 L).

### Steering

Fully hydrostatic power steering with variable ratio control; steer response varies with rate of hand wheel movement for improved control. A compact axle beam with an integral double acting steer cylinder. Spindle assemblies incorporate king pins and tapered roller bearings to provide a rugged, easily serviced assembly. Rubber isolation mounts that support the axle absorb shock and reduce noise. Grease fittings extend linkage and bearing life.

### Upright

High visibility standard and triple stage uprights of heavy C-channel outer rails and full I-section inner and intermediate rails. All-roller operation of upright rails; rollers are canted to accept both normal and side thrust loads. The fork carriage employs six main rollers and additional side thrust rollers. Carriages are ITA Class IV specifications. Load backrests are designed for optimal visibility. Heavy pin-type mounts support the upright on the drive axle assembly. Simplified roller access improves serviceability. Hydraulic counterbalance valve prevents improper tilt cylinder operation, integral flow limiting valves prevent rapid carriage descent in the event of a line failure, and a lowering control valve regulates lowering speeds.

### Additional Features

Color is high-visibility Clark Green with non-glare black trim. Wheels are bright white. Operator Manual and Service Information Card are permanently attached to truck. Clark's Employer's Guide to Material Handling Safety and operator safety video are also provided with the truck. Available Equipment: Auxiliary hydraulic functions and attachments, dual fuel, non-marking tires, Unitrol™ foot directional control, convenience console, rear work light, back-up and stop lights, strobes, turn signals, audible alarm and mirrors. Contact your Clark representative for additional information.

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