

CG-CUSHION

## Cushion Tire Lift Trucks LPG

CGC40  
CGC50  
CGC55

8,000 lbs 4000 kg  
10,000 lbs 5000 kg  
12,000 lbs 5500 kg

# CGC40/50/55

Genesis™ Series



**CLARK**<sup>®</sup>  
BUILT TO LAST.<sup>®</sup>

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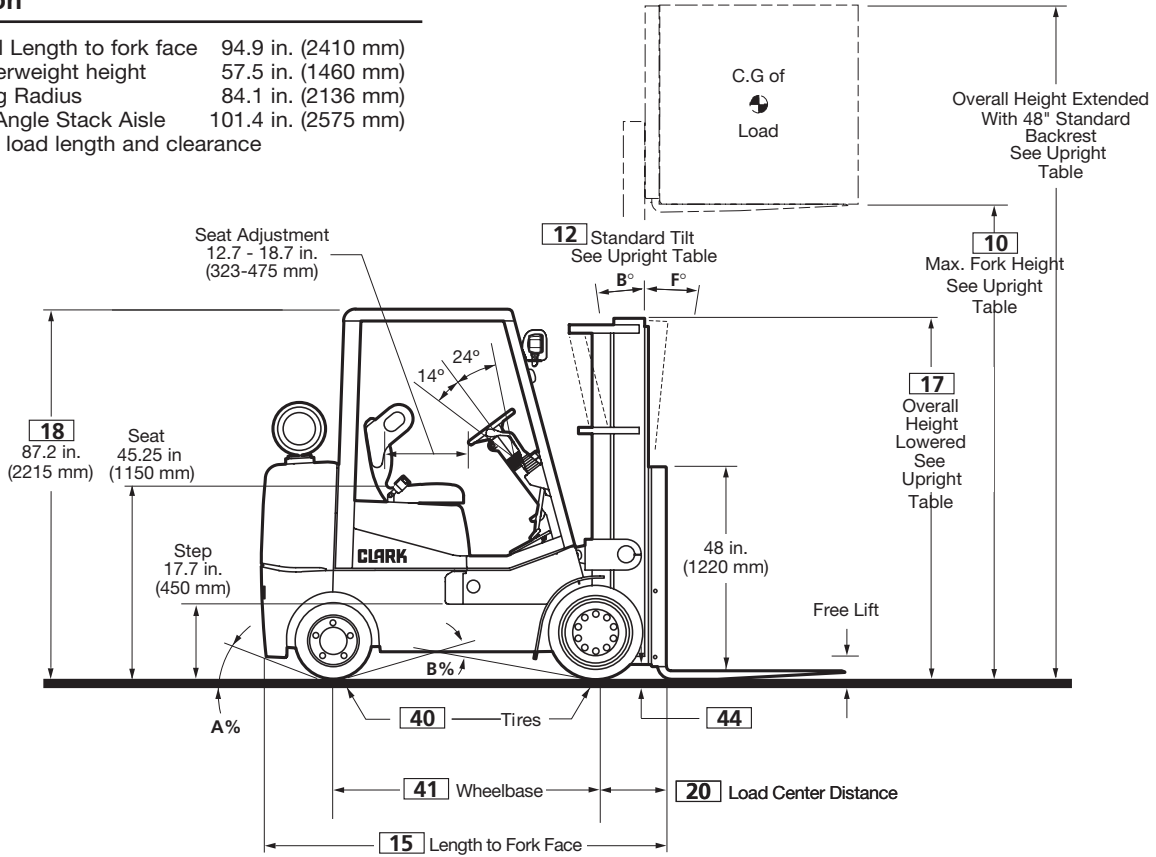
For corresponding data see Specification Chart.

**Optional "Q" Counterweight**

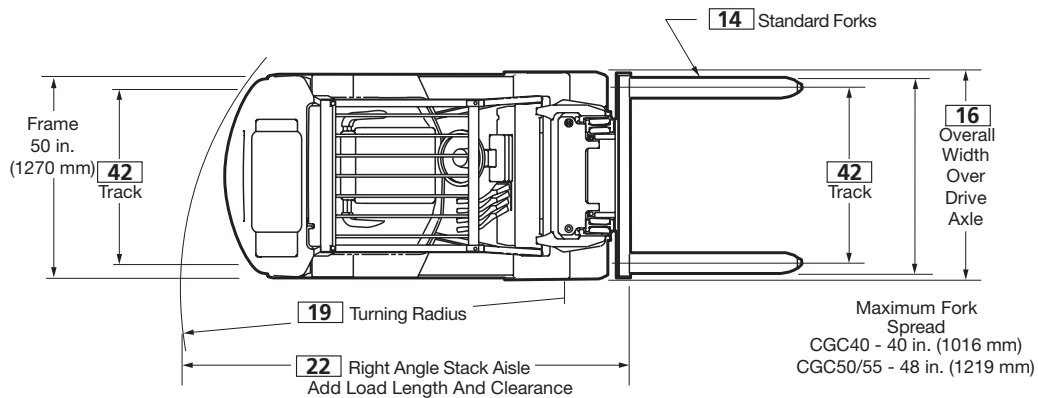
Stacked counterweight design shortens overall truck length for increased maneuverability in confined areas. "Q" Counterweight package does not include tow pin. Truck specifications change as noted below.

**CGC40 with "Q" Counterweight Option**

Overall Length to fork face	94.9 in. (2410 mm)
Counterweight height	57.5 in. (1460 mm)
Turning Radius	84.1 in. (2136 mm)
Right Angle Stack Aisle	101.4 in. (2575 mm)
Add load length and clearance	



**CGC40/50/55**



## Upright Table

Maximum Fork Height in mm	Overall Height <sup>1</sup> Lowered		Free Lift <sup>3</sup>		Standard <sup>2</sup> Tilt Spec B°/F°	
	in	mm	in	mm		
<b>CGC40</b>						
<b>Standard</b>						
110	2794	83.2	2114	6.5	165	8/9
• 122	3073	89.1	2264	6.5	165	8/9
145	3683	101	2565	6.5	165	5/6
169	4293	112.7	2864	6.5	165	5/6
<b>Triple Stage</b>						
170	4328	83	2106	57	1453	5/6
• 188	4778	89	2256	63	1603	5/6
198	5039	98	2481	72	1828	5/3
211	5378	101	2556	75	1903	5/3
229	5829	107	2706	80	2053	5/3
253	6428	118.5	3006	92	2353	3/0
<b>CGC50</b>						
<b>Standard</b>						
104	2645	84	2131	6.5	174	8/9
• 116	2945	90	2281	6.5	174	8/9
140	3530	102	2581	6.5	174	8/9
163	4140	113.4	2881	6.5	174	5/6
<b>Triple Stage</b>						
162	4115	83.5	2117	49	1258	5/6
• 178	4529	89.5	2667	55	1408	5/6
190	4825	95.5	2417	61	1558	5/3
198	5029	101	2567	67	1708	5/3
220	5578	107	2717	78	1858	5/3
243	6178	119	3017	85	2158	3/0
<b>CGC55</b>						
<b>Standard</b>						
100	2540	84	2132	6.9	175	8/9
• 112	2845	90	2281	6.9	175	8/9
135	3430	102	2582	6.9	175	8/9
159	4040	114	2882	6.9	175	5/6
<b>Triple Stage</b>						
152	3874	83.5	2117	51	1298	5/6
• 169	4288	89.5	2267	57	1448	5/6
180	4588	95.5	2417	63	1598	5/6
192	4876	99.0	2515	64	1625	5/3
210	5338	107	2717	74	1898	5/3
234	5938	119	3017	86	2198	3/0

## Grade Clearance

Model	A%	B%
CGG40	39	22
CGC50	40	19
CGC55	35	19

- Indicates preferred standard sizes.

<sup>1</sup> For overall height raised with load backrest, add 48 in. (1220 mm) to maximum fork height.

<sup>2</sup> Standard Tilt shown. Contact a Clark representative for information on optional tilt.

<sup>3</sup> Freelif dimensions shown are without load backrest.

Other uprights available, contact a Clark representative.

## Available Equipment

- Auxiliary valves
- Hose adaptations
- Sideshifters
- Hydraulic control options
- Unitrol foot directional control
- Combination stop/tail/backup lights
- Rear work light
- Turn signal lights
- Strobe lights
- Backup alarm
- Mirrors
- Convenience console
- Suspension seat, vinyl and cloth
- Operator cab with heater
- Reduced height overhead guard
- U.L. Type LPS construction
- Seat actuated engine shutdown
- Pre-cleaner - overhead guard mounted
- Air cleaner safety element
- Two-speed Transmission
- Travel Speed Limit
- Short turning radius counterweight
- Bottler's tilt
- Louvered Hood
- Lift Eyes
- Tire Options

## 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 and Insurance Classification

Standard truck meets all applicable mandatory requirements of ANSI-B56.1 Safety Standard for Powered Industrial Trucks and Underwriters Laboratories requirements as to fire hazard only for 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.

General Information				Clark	Clark
1	Manufacturer			Clark	Clark
2	Model	Manufacturer's designation		CGC 40	CGC 50
3	Load capacity		lbs(kg)	8,000 (4000)	10,000 (5000)
4	Load center	Fork face to load CG	in(mm)	24 (500)	24 (500)
5	Drive unit	Type		LPG	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>1,2,3</sup>					
9	Upright <sup>1,2</sup>	Maximum fork height, full capacity	in(mm)	198 (5030)	198 (5030)
10		Lift height (preferred triple upright)	in(mm)	188 (4778)	178 (4529)
11		Free lift <sup>1</sup>	in(mm)	6.5 (165)	6.5 (165)
12	Upright tilt	Back/forward (see tilt specifications)	degrees	8 / 9	8 / 9
14	Fork	Std. Fork size (TxWxL)/Class	in(mm)	2 x 5 x 42 (50 x 127 x 1067)/III	2 x 6 x 48 (50 x 152 x 1220)/III
15	Overall dimensions	Length to fork face <sup>2</sup>	in(mm)	96.0 (2438)	105.2 (2672)
16		Width over drive axle	in(mm)	50.8 (1290)	54.8 (1392)
17		Height, upright lowered <sup>1</sup>	in(mm)	89.1 (2264)	90.0 (2281)
		Height, upright extended w/ load backrest <sup>1</sup>	in(mm)	170 (4320)	164 (4165)
18		Height, overhead guard <sup>3</sup>	in(mm)	87.2 (2215)	87.2 (2215)
19	Turning radius	Outside	in(mm)	89.4 (2270)	98.2 (2494)
20	Load center distance	Center of drive axle to fork face <sup>2</sup>	in(mm)	17.3 (439)	17.8 (452)
22	Right angle stack aisle	Add load length and clearance <sup>2</sup>	in(mm)	106.7 (2710)	116.0 (2946)
Performance <sup>1,3</sup>					
23	Stability	According to ANSI/B56.1		Yes	Yes
24	Speed	Travel speed, max w/load	mph(kph)	12.2 (19.6)	12.1 (19.5)
25		Travel speed, max w/o load	mph(kph)	12.5 (20.1)	12.4 (20.0)
		Speed on grade, loaded	mph(kph)	9.5 (15.3)	9.0 (14.4)
			mph(kph)	6.0 (9.6)	5.6 (9.0)
			mph(kph)	4.2 (6.7)	2.8 (4.5)
26	Lift speed, loaded/empty	Standard upright	fpm(ms)	101/112 (.51/.57)	89/111 (.45/.56)
28		Triple stage upright	fpm(ms)	97/108 (.49/.55)	90/105 (.45/.53)
29	Lower speed,loaded/empty	Standard upright	fpm(ms)	78.1/72.8 (.40/.37)	78/92 (.39/.47)
		Triple stage upright	fpm(ms)	83/80 (.42/.41)	80/80 (.41/.41)
30	Drawbar pull, maximum	With load	lbs(N)	5,250 (23350)	5,000 (22240)
		Without load	lbs(N)	2,380 (10580)	3,125 (13900)
32	Gradeability	At 1 mph (1.6 kph) with load	%	24.2	16.5
		Maximum with/without load	%	27.1 (15.4)	20.1 (18.0)
Weights <sup>1</sup>					
34	Service weight		lbs(kg)	12,921 (5861)	14,852 (6737)
35	Axle loading	With load, front	lbs(kg)	18,429 (8359)	22,431 (10175)
36		With load, rear	lbs(kg)	2,492 (1130)	2,421 (1098)
37		Without load, front	lbs(kg)	5,084 (2306)	6,504 (2950)
38		Without load, rear	lbs(kg)	7,837 (3555)	8,348 (3787)
Chassis					
39	Tires	Number, front/rear		2 / 2	2 / 2
40		Size, front	in	22 x 9 x 16	22 x 12 x 16
		Size, rear	in	18 x 6 x 12.12	22 x 7 x 16
41	Wheelbase		in(mm)	61.8 (1570)	70.5 (1790)
42	Track	Front/rear	in(mm)	41.8/44.0 (1062/1118)	43.8/43.0 (1113/1093)
44	Ground clearance	Minimum/at center of wheelbase	in(mm)	3.8/6.1 (97/155)	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 / Vortec 4300LT	GM / Vortec 4300LT
51		Rated output <sup>4</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 1/1	Clark Powershift 1/1
57	Hydraulic pressure	For attachments	PSI/Bar	Adjustable	Adjustable
58	Sound level	Avg. at operator's ear per ISO	dB(A)	81	81

<sup>3</sup> Optional reduced height overhead guard 83.1 in. (2110 mm) is available from factory only.  
<sup>4</sup> Engines rated per SAE J1349.

**Notes:**  
<sup>1</sup> Weights and performance information are given on trucks with 122 (3073 mm), 116 (2945 mm) or 112 (2845) Standard uprights.  
<sup>2</sup> For triple stage upright add 0.8 in. (20 mm).

<b>General Information</b>	1	Manufacturer		Clark		
	2	Model	Manufacturer's designation	CGC 55		
	3	Load capacity		lbs(kg)	12,000 (5500)	
	4	Load center	Fork face to load CG	in(mm)	24 (600)	
	5	Drive unit	Type		LPG	
	6	Operator type			Rider counterbalanced	
	7	Tire type			Cushion	
	8	Wheels (x=driven)	Front/rear		2 x / 2	
<b>Basic Dimensions<sup>1,2</sup></b>	9	Upright <sup>1,2</sup>	Maximum fork height, full capacity	in(mm)	180 (4570)	
	10		Lift height (preferred triple upright)	in(mm)	169 (4288)	
	11		Free lift <sup>1</sup>	in(mm)	6.9 (175)	
	12	Upright tilt	Back/forward (see tilt specifications)	degrees	8 / 9	
	14	Fork	Std. Fork size (TxWxL)/Class	in(mm)	2.25 x 6 x 48 (57 x 152 x 1220)/IV	
	15	Overall dimensions	Length to fork face <sup>2</sup>	in(mm)	107.9 (2741)	
	16		Width over drive axle	in(mm)	54.8 (1392)	
	17		Height, upright lowered <sup>1</sup>	in(mm)	90.0 (2281)	
	18		Height, upright extended w/ load backrest <sup>1</sup>	in(mm)	160 (4065)	
	18		Height, overhead guard <sup>3</sup>	in(mm)	87.2 (2215)	
	19	Turning radius	Outside	in(mm)	99.9 (2537)	
	20	Load center distance	Center of drive axle to fork face <sup>2</sup>	in(mm)	18.4 (467)	
22	Right angle stack aisle	Add load length and clearance <sup>2</sup>	in(mm)	118.3 (3005)		
<b>Performance<sup>1,3</sup></b>	23	Stability	According to ANSI/B56.1		Yes	
	24	Speed	Travel speed, max w/load	mph(kph)	11.7 (18.8)	
	25		Travel speed, max w/o load	mph(kph)	12.2 (19.6)	
		Speed on grade, loaded	5%, loaded	mph(kph)	6.5 (10.4)	
			10%, loaded	mph(kph)	4.8 (7.7)	
			15%, loaded	mph(kph)	1.8 (2.9)	
	26	Lift speed, loaded/empty	Standard upright	fpm(ms)	76.1/111 (.39/.56)	
	28		Triple stage upright	fpm(ms)	82/103 (.42/.52)	
	29	Lower speed,loaded/empty	Standard upright	fpm(ms)	77/89 (.39/.45)	
			Triple stage upright	fpm(ms)	75/78 (.38/.40)	
	30	Drawbar pull, maximum	With load	lbs(N)	4,750 (21130)	
			Without load	lbs(N)	3,205 (14255)	
32	Gradeability	At 1 mph (1.6 kph) with load	%	15.4		
		Maximum with/without load	%	18.2 / 16.1		
<b>Weights<sup>1</sup></b>	34	Service weight		lbs(kg)	16,881 (7657)	
	35	Axle loading	With load, front	lbs(kg)	25,942 (11767)	
	36		With load, rear	lbs(kg)	2,939 (1333)	
	37		Without load, front	lbs(kg)	6,720 (3048)	
	38		Without load, rear	lbs(kg)	10,161 (4609)	
<b>Chassis</b>	39	Tires	Number, front/rear		2 / 2	
	40		Size, front	in	22 x 12 x 16	
			Size, rear	in	22 x 7 x 16	
	41	Wheelbase		in(mm)	70.5 (1790)	
	42	Track	Front/rear	in(mm)	43.8/43.0 (1113/1093)	
	44	Ground clearance	Minimum/at center of wheelbase	in(mm)	3.8/6.1 (96/155)	
	46	Service brake	Type		Power assist disc	
	47	Parking brake	Actuation		Foot applied	
	Steering	Type		Hydrostatic		
<b>Drive Line</b>	49	Engine	Manufacturer/model		GM / Vortec 4300LT	
	51		Rated output <sup>4</sup>	HP/kW@rpm	93 / 69 @ 2400	
			Torque	Lb-ft/Nm@rpm	235 / 318 @ 2000	
	52		Speed, max governed	rpm	2,650	
	53		Cylinders/displacement	cu. In.-liters	6 / 262 - 4.3	
54	Transmission	Manufacturer/type, speeds F/R			Clark Powershift 1/1	
	57	Hydraulic pressure	For attachments	PSI/Bar	Adjustable	
	58	Sound level	Avg. at operator's ear per ISO	dB(A)	81	

Notes: 1 Weights and performance information are given on trucks with 122 in. (3073 mm), 116 in. (2945 mm) or 112 in. (2845 mm) Standard uprights. 2 For triple stage upright add 0.8 in. (20 mm). 3 Optional reduced height overhead guard 83.1 in. (2110 mm) is available from factory only. 4 Engines rated per SAE J1349.

**CLARK CGC40 SERIES** cushion tire trucks are designed for use in manufacturing, building materials and paper handling, cargo and distribution where durability and responsiveness are required. Available with LPG fueled 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 inch and brake operation; right pedal is for brakes 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. Equipped with a legendary Clark safety seat with shoulder restraints, adjustable and fold-down back rest, molded bolsters for comfort and support, six inches (150 mm) fore/aft adjustment, a retractable seat belt and an operator manual in the seat pocket. Tilt steering column provides 38° of adjustment; thick-section wheel is easily operated with one hand.

The instrument panel includes indicator lights for alternator charge, engine oil pressure, low LPG fuel, check engine light, transmission oil temperature, seat belt warning and park brake reminder. A five-digit hour meter and analog engine coolant temperature gauge are also provided.

### LPG Engine

Equipped with an improved GM Vortec model 4300LT, 4.3L, V6 engine with hardened intake and exhaust valves and seats, a dynamic balancer system for reduced vibration, serpentine accessory belt drive and an EPA compliant LPG fuel system with diagnostics. An automatic engine shutdown system continuously monitors engine oil pressure, engine coolant temperature and transmission oil temperature. The tank mounting bracket accommodates 43.5 lb (19.7 kg) LPG tanks.

### Engine Accessories/Capacities

Trucks are 12-volt negative ground. Starters are equipped with heavy-duty clutch and anti-restart system. Alternators have 65 amp output and incorporate internal regulation. Maintenance free batteries are rated at 420 CCA at 0°F (-18°C). Cyclopac air cleaners are used with high air intake, automatic dirt ejectors, and air restriction indicators. 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 is 15 qts. (15.8 L) and crankcase capacity is 5.5 qts. (5.2 L).

### Service Access

Clamshell hood gives full access for inspection 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 single-speed, full reversing, powershift transaxle is an integral assembly of transmission, differential, and drive axles providing long life and high durability. A two-speed transaxle is optional. 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 extended life. Externally mounted charge 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 service. 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 with tapered roller bearings to provide a rugged, yet easily serviced assembly. Rubber isolation mounts supporting 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. A wide range of lift heights is available. All-roller operation of upright rails and carriage rollers are canted to accept both normal and side thrust loads. The ITA Class III and IV carriages employ six main rollers with two inner and two outer thrust rollers to absorb off-center loading. 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

A single auxiliary valve and two headlights mounted on the overhead guard are standard equipment. The auxiliary hydraulic flow can be easily adjusted at the main valve to match the flow requirements of different attachments. With a one-piece hood and quickly removable floorplate, all routine maintenance checkpoints are readily accessible. The operator cell is designed for operator comfort and productivity. The Operator Manual is permanently attached inside the rear pocket of the comfortable safety seat. Color is high visibility Clark Green with non-glare matte black trim and white wheels. Tow pin in the counterweight is standard.



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CGC40/50/55 Specification Sheet  
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your authorized CLARK dealer is:

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