

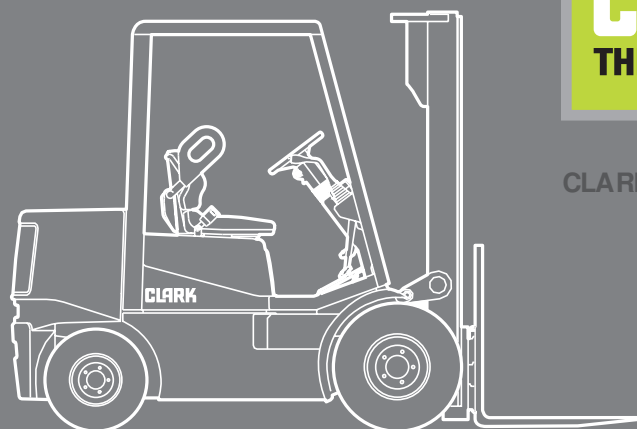
ISO-PNEUMATIC

## Pneumatic Tire Lift Trucks LPG/CNG/Gasoline/Diesel

CGP20	4,000 lbs 2000 kg
CGP25	5,000 lbs 2500 kg
CGP30	6,000 lbs 3000 kg
CGP32	6,500 lbs 3200 kg



# CGP20/25 30/32



**CLARK®**  
**THE FORKLIFT.**

CLARK THE FORKLIFT

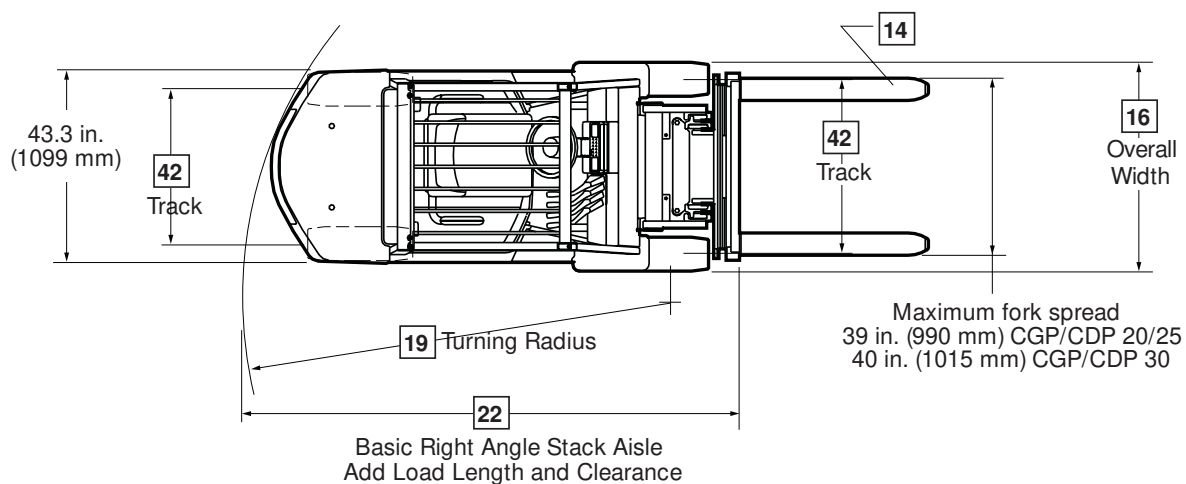
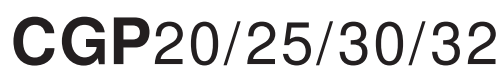
North America

Germany

Korea

w w w . c l a r k m h c . c o m

# DIMENSIONS



## Upright Table

	Maximum† Fork Height		Overall Height Lowered		Free Lift	
	in	mm	in	mm	in	mm
<b>CGP20/25/30 Standard</b>						
83	2110	62.0	1570	4.3	110	
105	2665	74.0	1880	4.3	110	
117	2970	79.5	2015	4.3	110	
• 130	3300	85.2	2165	4.3	110	
146	3705	97.5	2475	4.3	110	
152	3860	100.5	2555	4.3	110	
164	4165	111.0	2815	4.3	110	

### Hi-Lo\*

116	2945	79.5	2019	51.0	1295
• 128	3250	85.5	2172	57.0	1445
152	3860	97.5	2477	69.0	1750

### Triple Stage\*\*

152	3860	74.0	1880	46.5	1180
170	4315	79.5	2015	52.0	1320
• 189	4800	86.0	2180	58.5	1485
205	5205	91.5	2320	64.0	1625
217	5510	97.5	2475	70.0	1775
226	5740	100.5	2550	73.0	1850
240	6095	106.5	2705	79.0	2005
288	7315	128.0	3250	100.5	2550

### Quad§

216	5485	77.0	1956	52.0	1320
• 240	6096	83.0	2108	58.0	1473
258	6553	89.0	2260	64.0	1625

### CGP32

#### Standard

• 127	3225	85.5	2175	4.3	110
143	3630	97.0	2465	4.3	110
149	3780	99	2515	4.3	110
161	4085	111	2820	4.3	110

### Triple Stage\*\*

165	4190	79.5	2015	50.5	1280
• 185	4695	86.0	2180	56.5	1435
200	5080	91.5	2320	62.0	1575
212	5385	97.5	2475	69.0	1750

• Indicates preferred common specification.

† For overall height raised with load backrest, add 48 in. (1220 mm) to maximum fork height.

\* CGP 30 - reduce MFH and free lift by 2 in. (51 mm).

\*\* Free lift is reduced by 3.3 in. (85 mm) with hose adaptation.

§ Dual drive or wide profile single drive tires are required with uprights above 247 in. (6270 mm) MFH. Dual drive is standard with Quad uprights, for single drive request special quote. Quads require Class II carriages, forks and load backrests.

Other uprights available, contact a Clark representative.

## Grade Clearance

Model	A%	B%
CGP20	71	22
CGP25	53	22
CGP30	50	22
CGP32	47	22

## Tilt Specifications\*

Upright MFH (in./mm)	Tilt-B°/F°
<b>Standard and Hi-Lo</b>	
thru 105 in. (2665 mm)	8°/8°
106 in. (2690 mm) - 151 in. (3835 mm)	10°/6°
152 in. (3860 mm) - 189 in. (4800 mm)	5°/6°
<b>Triple Stage Upright</b>	
thru 189 in. (4800 mm)	5°/6°
190 in. (4825 mm) - 240 in. (6096 mm)	5°/3°
241 in. (6120 mm) - 288 in. (7315 mm)	3°/0°

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

Back tilt with operator cab installation is reduced with some low MFH uprights

## Drive Wheel/Tire Options\*

Overall Truck Width	
in	mm
Dual drive tires 7.00 x 12.00 in., 12 ply rating for increased flotation and traction. Fenders included.	
64.0	1626

Wide profile single drive tires 28 x 12.5 x 15 in. for increased flotation and traction. Fenders included.

55.6	1410
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\* CGP 30 - reduce MFH and free lift by 2 in. (51 mm).

\*\* Standard tires are air filled; solid standard ride and soft ride tires are available in all configurations.

## Available Equipment

- **Unitrol™ foot directional control**
- **Seat deck-mounted hydraulic levers**
- **Stop lights, head lights and back-up lights**
- **Strobe light, audible back-up alarm**
- **Rear turn signals**
- **Mirrors**
- **U.L. Type GS, LPS and DS construction**
- **Convenience console**
- **Suspension seat**
- **Seats with cloth covering**
- **Reduced height overhead guard**
- **Fender splash guards**
- **Operator cabs**
- **Noise reduction package (diesel)**
- **Fuel / Exhaust Options:**
  - Dual fuel (gasoline/LPG)
  - Closed-loop electronic LPG fuel system
  - CNG fuel system
  - Catalytic exhaust purifier
  - Vertical exhaust stack (diesel)
  - OHG-mounted pre-cleaner
  - Air cleaner safety element

## 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 Part II-ANSI-B56.1 Safety Standard for Powered Industrial Trucks and Underwriters Laboratories requirements as to fire hazard only for G, GS, LP, LPS, D and DS 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 for trucks with 130 in. (3302 mm) MFH standard uprights.  
2 Optional reduced height overhead guard 81.5 in. (2070 mm) available from factory only.

# SPECIFICATIONS

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

## 2.4 L Gasoline Engine

General Information	1	Manufacturer		Clark	Clark	Clark
	2	Model	Manufacturer's designation	CGP 20	CGP 25	CGP 30
	3	Load capacity	lbs(kg)	4,000 (2000)	5,000 (2500)	6,000 (3000)
	4	Load center	Fork face to load CG in(mm)	24 (500)	24 (500)	24 (500)
	5	Drive unit	Type	Gasoline/LPG/CNG	Gasoline/LPG/CNG	Gasoline/LPG/CNG
	6	Operator type		Rider counterbalanced	Rider counterbalanced	Rider counterbalanced
	7	Tire type		Pneumatic	Pneumatic	Pneumatic
	8	Wheels (x=driven)	Front/rear	2x / 2	2x / 2	2x / 2
Basic Dimensions	9	Upright <sup>1,2</sup>	Maximum fork height, full capacity in(mm)	170 (4315)	170 (4315)	170 (4315)
	10		Lift height (preferred upright) in(mm)	130 (3300)	130 (3300)	130 (3300)
	11		Free lift (standard upright) in(mm)	4.3 (110)	4.3 (110)	4.3 (110)
	12	Upright tilt	Back/forward (see tilt specifications) degrees	10 / 6	10 / 6	10 / 6
	14	Fork	Std. Fork size (TxWxL) in(mm)	1.75x4x42 (44x102x1067)	1.75x4x42 (44x102x1067)	1.75x5x42 (44x127x1067)
	15	Overall dimensions	Length to fork face in(mm)	96.9 (2461)	99.5 (2528)	102.3 (2598)
	16		Width over drive axle in(mm)	46.7 (1187)	46.7 (1187)	48.4 (1230)
	17		Height, upright lowered in(mm)	85.2 (2165)	85.2 (2165)	85.2 (2165)
			Height, upright extended w/ load backrest in(mm)	178.0 (4521)	178.0 (4521)	178.0 (4521)
	18		Height, overhead guard <sup>2</sup> in(mm)	86.3 (2191)	86.3 (2191)	86.3 (2191)
	19	Turning radius	Outside in(mm)	86.6 (2200)	89.2 (2266)	92.0 (2336)
	20	Load center distance	Center of drive axle to fork face in(mm)	17.9 (455)	17.9 (455)	17.9 (455)
Performance <sup>1,3</sup>	22	Right angle stack aisle	Add load length and clearance in(mm)	104.5 (2655)	107.1 (2721)	109.9 (2791)
	23	Stability	According to ANSI/DIN	Yes	Yes	Yes
	24	Speed	Travel speed, max w/load mph(kph)	12.3 (19.9)	12.2 (19.6)	12.1 (19.4)
	25		Travel speed, max w/o load mph(kph)	12.6 (20.2)	12.6 (20.2)	12.6 (20.2)
		Speed on grade	5%, loaded mph(kph)	7.3 (11.7)	7.1 (11.4)	6.4 (10.3)
			10%, loaded mph(kph)	5.9 (9.5)	5.0 (8.0)	4.3 (6.9)
			15%, loaded mph(kph)	4.0 (6.4)	3.1 (5.0)	2.6 (4.1)
	26	Lift speed, loaded/empty	Standard upright fpm(ms)	97/112 (.49/.57)	95/112 (.48/.57)	95/112 (.48/.57)
	28		Triple stage upright fpm(ms)	93/83 (.47/.44)	91/86 (.46/.44)	88/86 (.45/.44)
	29	Lower speed,loaded/empty	Standard upright fpm(ms)	100/100 (.51/.51)	100/100 (.51/.51)	100/100 (.51/.51)
			Triple stage upright fpm(ms)	88/86 (.45/.44)	85/86 (.43/.44)	86/86 (.44/.44)
	30	Drawbar pull, maximum	With load lbs/N	3,560 / 15835	3,515 / 15635	3,420 / 15210
Weights <sup>1</sup>			Without load lbs/N	2,970 / 13210	2,860 / 12720	2,815 / 12520
	32	Gradeability	At 1 mph (1.6 kph) with load %	27.0	23.9	20.9
			Maximum with/without load %	29.7 / 26.5	27.9 / 25.3	24.4 / 22.5
Chassis	34	Service weight	lbs(kg)	7,617 (3455)	8,466 (3840)	9,347 (4240)
	35	Axle loading	With load, front lbs(kg)	10,314 (4678)	11,810 (5357)	13,478 (6114)
	36		With load, rear lbs(kg)	1,303 (591)	1,656 (751)	1,869 (848)
	37		Without load, front lbs(kg)	3,687 (1672)	3,526 (1600)	3,481 (1579)
	38		Without load, rear lbs(kg)	3,930 (1783)	4,940 (2241)	5,866 (2661)
	39	Tires	Number, front/rear	2 / 2	2 / 2	2 / 2
	40		Size, front in	7.00 x 12 - 14 ply rating	7.00 x 12 - 14 ply rating	28 x 9 x 15 - 14 ply rating
			Size, rear in	6.00 x 9 - 10 ply rating	6.00 x 9 - 10 ply rating	6.50 x 10 - 10 ply rating
Drive Line	41	Wheelbase	in(mm)	63.8 (1620)	63.8 (1620)	63.8 (1620)
	42	Track	Front/rear in(mm)	39.2/34.9 (998/887)	39.3/34.9 (998/887)	40.5/34.9 (1030/887)
	44	Ground clearance	Minimum/at center of wheelbase in(mm)	4.3/7.5 (110/190)	4.3/7.5 (110/190)	4.3/7.5 (110/190)
	46	Service brake	Type	Drum and shoe	Drum and shoe	Drum and shoe
	47	Parking brake	Actuation	Foot pedal	Foot pedal	Foot pedal
		Steering	Type	Hydrostatic	Hydrostatic	Hydrostatic
	49	I.C. Engine <sup>3</sup>	Manufacturer/model	Mitsubishi / 4G64	Mitsubishi / 4G64	Mitsubishi / 4G64
	51		Rated output HP/kW @rpm	46 / 34 @ 2250	46 / 34 @ 2250	46 / 34 @ 2250
			Torque Lb-ft/Nm @rpm	120 / 162 @ 1600	120 / 162 @ 1600	120 / 162 @ 1600
	52		Speed, max governed rpm	2,600	2,600	2,600
	53		Cylinders/displacement cu. In.-liters	4 / 143 - 2.4	4 / 143 - 2.4	4 / 143 - 2.4
	54	Transmission	Manufacturer/type, speeds F/R	Clark Powershift 1/1	Clark Powershift 1/1	Clark Powershift 1/1
	57	Hydraulic pressure	For attachments PSI/Bar	Adjustable	Adjustable	Adjustable
	58	Sound level	Avg. at operator's ear per ANSI B56.11.5 dB(A)	73	73	73

2.4 L Gasoline Engine 3.0 L Gasoline Engine

General Information	1	Manufacturer		Clark	Clark	Clark
	2	Model	Manufacturer's designation	CGP 32	CGP 20	CGP 25
	3	Load capacity	lbs(kg)	6,500 (3200)	4,000 (2000)	5,000 (2500)
	4	Load center	Fork face to load CG in(mm)	24 (500)	24 (500)	24 (500)
	5	Drive unit	Type	Gasoline/LPG/CNG	Gasoline/LPG/CNG	Gasoline/LPG/CNG
	6	Operator type		Rider counterbalanced	Rider counterbalanced	Rider counterbalanced
	7	Tire type		Pneumatic	Pneumatic	Pneumatic
	8	Wheels (x=driven)	Front/rear	2x / 2	2x / 2	2x / 2
Basic Dimensions	9	Upright <sup>1,2</sup>	Maximum fork height, full capacity in(mm)	170 (4315)	170 (4315)	170 (4315)
	10		Lift height (preferred upright) in(mm)	127 (3225)	130 (3300)	130 (3300)
	11		Free lift (standard upright) in(mm)	4.3 (110)	4.3 (110)	4.3 (110)
	12	Upright tilt	Back/forward (see tilt specifications) degrees	10 / 6	10 / 6	10 / 6
	14	Fork	Std. Fork size (TxWxL) in(mm)	2x5x42 (50x127x1067)	1.75x4x42 (44x102x1067)	1.75x4x42 (44x102x1067)
	15	Overall dimensions	Length to fork face in(mm)	103.7 (2634)	96.9 (2461)	99.5 (2528)
	16		Width over drive axle in(mm)	48.4 (1230)	46.7 (1187)	46.7 (1187)
	17		Height, upright lowered in(mm)	85.2 (2165)	85.2 (2165)	85.2 (2165)
			Height, upright extended w/ load backrest in(mm)	178.0 (4521)	178.0 (4521)	178.0 (4521)
	18		Height, overhead guard <sup>2</sup> in(mm)	86.3 (2191)	86.3 (2191)	86.3 (2191)
	19	Turning radius	Outside in(mm)	93.0 (2362)	86.6 (2200)	89.2 (2266)
	20	Load center distance	Center of drive axle to fork face in(mm)	18.2 (462)	17.9 (455)	17.9 (455)
Performance <sup>1,3</sup>	22	Right angle stack aisle	Add load length and clearance in(mm)	111.2 (2824)	104.5 (2655)	107.1 (2721)
	23	Stability	According to ANSI/DIN	Yes	Yes	Yes
	24	Speed	Travel speed, max w/load mph(kph)	12.0 (19.3)	12.7 (20.4)	12.6 (20.3)
	25		Travel speed, max w/o load mph(kph)	12.6 (20.2)	12.9 (20.8)	12.9 (20.8)
		Speed on grade	5%, loaded mph(kph)	6.3 (10.1)	11.5 (18.5)	11.4 (18.3)
			10%, loaded mph(kph)	3.6 (5.8)	9.3 (15.0)	7.9 (12.7)
			15%, loaded mph(kph)	2.0 (3.2)	6.5 (10.5)	5.4 (8.7)
	26	Lift speed, loaded/empty	Standard upright fpm(ms)	92/112 (.47/.57)	97/112 (.49/.57)	95/112 (.48/.57)
	28		Triple stage upright fpm(ms)	87/86 (.44/.44)	93/83 (.47/.44)	91/86 (.46/.44)
	29	Lower speed,loaded/empty	Standard upright fpm(ms)	100/100 (.51/.51)	100/100 (.51/.51)	100/100 (.51/.51)
			Triple stage upright fpm(ms)	86/86 (.44/.44)	88/86 (.45/.44)	85/86 (.43/.44)
	30	Drawbar pull, maximum	With load lbs/N	3,360 / 14945	4,345 / 19325	4,220 / 18770
Weights <sup>1</sup>			Without load lbs/N	2,775 / 12340	3,040 / 13520	2,930 / 13030
	32	Gradeability	At 1 mph (1.6 kph) with load %	19.3	33.6	29.1
			Maximum with/without load %	22.6 / 16.7	36.7 / 26.5	34.6 / 25.3
	34	Service weight	lbs(kg)	9,770 (4432)	7,724 (3504)	8,564 (3885)
	35	Axle loading	With load, front lbs(kg)	14,160 (6423)	10,353 (4696)	11,928 (5411)
	36		With load, rear lbs(kg)	2,110 (957)	1,371 (622)	1,636 (742)
	37		Without load, front lbs(kg)	3,480 (1579)	3,768 (1709)	3,473 (1575)
	38		Without load, rear lbs(kg)	6,290 (2853)	3,956 (1794)	5,091 (2309)
Chassis	39	Tires	Number, front/rear	2 / 2	2 / 2	2 / 2
	40		Size, front in	28 x 9 x 15 - 14 ply rating	7.00 x 12 - 14 ply rating	7.00 x 12 - 14 ply rating
			Size, rear in	6.50 x 10 - 10 ply rating	6.00 x 9 - 10 ply rating	6.00 x 9 - 10 ply rating
	41	Wheelbase	in(mm)	63.8 (1620)	63.8 (1620)	63.8 (1620)
	42	Track	Front/rear in(mm)	40.5/34.9 (1030/887)	39.2/34.9 (998/887)	39.3/34.9 (998/887)
	44	Ground clearance	Minimum/at center of wheelbase in(mm)	4.3/7.5 (110/190)	4.3/7.5 (110/190)	4.3/7.5 (110/190)
	46	Service brake	Type	Drum and shoe	Drum and shoe	Drum and shoe
	47	Parking brake	Actuation	Foot pedal	Foot pedal	Foot pedal
		Steering	Type	Hydrostatic	Hydrostatic	Hydrostatic
	49	I.C. Engine <sup>3</sup>	Manufacturer/model	Mitsubishi / 4G64	GM / 3.0	GM / 3.0
Drive Line	51		Rated output HP/kW @rpm	46 / 34 @ 2250	62 / 46 @ 2250	62 / 46 @ 2250
			Torque Lb-ft/Nm @rpm	120 / 162 @ 1600	163 / 221 @ 1600	163 / 221 @ 1600
	52		Speed, max governed rpm	2,600	2,600	2,600
	53		Cylinders/displacement cu. In.-liters	4 / 143 - 2.4	4 / 181 - 3.0	4 / 181 - 3.0
	54	Transmission	Manufacturer/type, speeds F/R	Clark Powershift 1/1	Clark Powershift 1/1	Clark Powershift 1/1
	57	Hydraulic pressure	For attachments PSI/Bar	Adjustable	Adjustable	Adjustable
	58	Sound level	Avg. at operator's ear per ANSI B56.11.5 dB(A)	73	77	77

Notes: 1 Weights and performance information are given for trucks with 130 in. (3302 mm) MHH standard uprights.  
2 Optional reduced height overhead guard 81.5 in. (2070 mm) available from factory only.

# SPECIFICATIONS

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

**Notes:** 1 Weights and performance information are given for trucks with 130 in. (3302 mm) MFH standard uprights.  
2 Optional reduced height overhead guard 81.5 in. (2070 mm) available from factory only.

# SPECIFICATIONS

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

3.0 L Gasoline Engine				Diesel Engine		
General Information	1	Manufacturer		Clark	Clark	Clark
	2	Model	Manufacturer's designation	CGP 30	CGP 32	CDP 20
	3	Load capacity	lbs(kg)	6,000 (3000)	6,500 (3200)	4,000 (2000)
	4	Load center	Fork face to load CG in(mm)	24 (500)	24 (500)	24 (500)
	5	Drive unit	Type	Gasoline/LPG/CNG	Gasoline/LPG/CNG	Diesel
	6	Operator type		Rider counterbalanced	Rider counterbalanced	Rider counterbalanced
	7	Tire type		Pneumatic	Pneumatic	Pneumatic
	8	Wheels (x=driven)	Front/rear	2x / 2	2x / 2	2x / 2
Basic Dimensions	9	Upright <sup>1,2</sup>	Maximum fork height, full capacity in(mm)	170 (4315)	170 (4315)	170 (4315)
	10		Lift height (preferred upright) in(mm)	130 (3300)	127 (3225)	130 (3300)
	11		Free lift (standard upright) in(mm)	4.3 (110)	4.3 (110)	4.3 (110)
	12	Upright tilt	Back/forward (see tilt specifications) degrees	10 / 6	10 / 6	10 / 6
	14	Fork	Std. Fork size (TxWxL) in(mm)	1.75x5x42 (44x127x1067)	2x5x42 (50x127x1067)	1.75x4x42 (44x102x1067)
	15	Overall dimensions	Length to fork face in(mm)	102.3 (2598)	103.7 (2634)	96.9 (2461)
	16		Width over drive axle in(mm)	48.4 (1230)	48.4 (1230)	46.7 (1187)
	17		Height, upright lowered in(mm)	85.2 (2165)	85.2 (2165)	85.2 (2165)
			Height, upright extended w/ load backrest in(mm)	178.0 (4521)	178.0 (4521)	178.0 (4521)
	18		Height, overhead guard <sup>2</sup> in(mm)	86.3 (2191)	86.3 (2191)	86.3 (2191)
	19	Turning radius	Outside in(mm)	92.0 (2336)	93.0 (2362)	86.6 (2200)
	20	Load center distance	Center of drive axle to fork face in(mm)	17.9 (455)	18.2 (462)	17.9 (455)
Performance <sup>1,3</sup>	22	Right angle stack aisle	Add load length and clearance in(mm)	109.9 (2791)	111.2 (2824)	104.5 (2655)
	23	Stability	According to ANSI/DIN	Yes	Yes	Yes
	24	Speed	Travel speed, max w/load mph(kph)	12.4 (19.4)	12.2 (19.6)	12.6 (20.2)
	25		Travel speed, max w/o load mph(kph)	12.8 (20.6)	12.6 (20.2)	12.8 (20.5)
		Speed on grade	5%, loaded mph(kph)	11.5 (18.5)	11.3 (18.2)	10.9 (17.5)
			10%, loaded mph(kph)	7.0 (11.2)	6.4 (10.3)	8.3 (13.3)
			15%, loaded mph(kph)	4.3 (6.9)	4.0 (6.4)	5.3 (8.5)
	26	Lift speed, loaded/empty	Standard upright fpm(ms)	95/112 (.48/.57)	92/112 (.47/.57)	97/112 (.49/.57)
	28		Triple stage upright fpm(ms)	88/86 (.45/.44)	87/86 (.44/.44)	93/83 (.47/.44)
	29	Lower speed,loaded/empty	Standard upright fpm(ms)	100/100 (.51/.51)	100/100 (.51/.51)	100/100 (.51/.51)
			Triple stage upright fpm(ms)	86/86 (.44/.44)	86/86 (.44/.44)	88/86 (.45/.44)
	30	Drawbar pull, maximum	With load lbs/N	4,175 / 18570	4,085 / 18170	4,580 / 20370
Weights <sup>1</sup>			Without load lbs/N	2,890 / 12855	2,720 / 12095	3,040 / 13520
	32	Gradeability	At 1 mph (1.6 kph) with load %	24.9	22.7	32.3
			Maximum with/without load %	27.4 / 22.5	26.2 / 16.7	37.1 / 26.5
Chassis	34	Service weight	lbs(kg)	9,444 (4284)	9,855 (4470)	7,837 (3555)
	35	Axle loading	With load, front lbs(kg)	13,483 (6116)	14,225 (6452)	10,399 (4717)
	36		With load, rear lbs(kg)	1,961 (890)	2,130 (966)	1,438 (652)
	37		Without load, front lbs(kg)	3,523 (2661)	3,545 (1608)	3,771 (1711)
	38		Without load, rear lbs(kg)	5,921 (2686)	6,310 (2862)	4,066 (1844)
	39	Tires	Number, front/rear	2 / 2	2 / 2	2 / 2
	40		Size, front in	28 x 9 x 15 - 14 ply rating	28 x 9 x 15 - 14 ply rating	7.00 x 12 - 14 ply rating
			Size, rear in	6.50 x 10 - 10 ply rating	6.50 x 10 - 10 ply rating	6.00 x 9 - 10 ply rating
Drive Line	41	Wheelbase	in(mm)	63.8 (1620)	63.8 (1620)	63.8 (1620)
	42	Track	Front/rear in(mm)	40.5/34.9 (1030/887)	40.5/34.9 (1030/887)	39.3/34.9 (998/887)
	44	Ground clearance	Minimum/at center of wheelbase in(mm)	4.3/7.5 (110/190)	4.3/7.5 (110/190)	4.3/7.5 (110/190)
	46	Service brake	Type	Drum and shoe	Drum and shoe	Drum and shoe
	47	Parking brake	Actuation	Foot pedal	Foot pedal	Foot pedal
		Steering	Type	Hydrostatic	Hydrostatic	Hydrostatic
	49	I.C. Engine <sup>3</sup>	Manufacturer/model	GM / 3.0	GM / 3.0	Mitsubishi / S4S
	51		Rated output HP/kW @rpm	62 / 46 @ 2250	62 / 46 @ 2250	54 / 40 @ 2400
			Torque Lb-ft/Nm @rpm	163 / 221 @ 1600	163 / 221 @ 1600	138 / 187 @ 1400
	52		Speed, max governed rpm	2,600	2,600	2,600
	53		Cylinders/displacement cu. In.-liters	4 / 181 - 3.0	4 / 181 - 3.0	4 / 203 - 3.3
	54	Transmission	Manufacturer/type, speeds F/R	Clark Powershift 1/1	Clark Powershift 1/1	Clark Powershift 1/1
	57	Hydraulic pressure	For attachments PSI/Bar	Adjustable	Adjustable	Adjustable
	58	Sound level	Avg. at operator's ear per ANSI B56.11.5 dB(A)	77	77	81



# Diesel Engine

General Information	1	Manufacturer		Clark	Clark	Clark
	2	Model	Manufacturer's designation	CDP 25	CDP 30	CDP 32
	3	Load capacity	lbs(kg)	5,000 (2500)	6,000 (3000)	6,500 (3200)
	4	Load center	Fork face to load CG in(mm)	24 (500)	24 (500)	24 (500)
	5	Drive unit	Type	Diesel	Diesel	Diesel
	6	Operator type		Rider counterbalanced	Rider counterbalanced	Rider counterbalanced
	7	Tire type		Pneumatic	Pneumatic	Pneumatic
	8	Wheels (x=driven)	Front/rear	2x / 2	2x / 2	2x / 2
Basic Dimensions	9	Upright <sup>1,2</sup>	Maximum fork height, full capacity in(mm)	170 (4315)	170 (4315)	170 (4315)
	10		Lift height (preferred upright) in(mm)	130 (3300)	130 (3300)	127 (3225)
	11		Free lift (standard upright) in(mm)	4.3 (110)	4.3 (110)	4.3 (110)
	12	Upright tilt	Back/forward (see tilt specifications) degrees	10 / 6	10 / 6	10 / 6
	14	Fork	Std. Fork size (TxWxL) in(mm)	1.75x4x42 (44x102x1067)	1.75x5x42 (44x127x1067)	2x5x42 (50x127x1067)
	15	Overall dimensions	Length to fork face in(mm)	99.5 (2528)	102.3 (2598)	103.7 (2634)
	16		Width over drive axle in(mm)	46.7 (1187)	48.4 (1230)	48.4 (1230)
	17		Height, upright lowered in(mm)	85.2 (2165)	85.2 (2165)	85.2 (2165)
			Height, upright extended w/ load backrest in(mm)	178.0 (4521)	178.0 (4521)	178.0 (4521)
	18		Height, overhead guard <sup>2</sup> in(mm)	86.3 (2191)	86.3 (2191)	86.3 (2191)
	19	Turning radius	Outside in(mm)	89.2 (2266)	92.0 (2336)	93.0 (2362)
	20	Load center distance	Center of drive axle to fork face in(mm)	17.9 (455)	17.9 (455)	18.2 (462)
Performance <sup>1,3</sup>	22	Right angle stack aisle	Add load length and clearance in(mm)	107.1 (2721)	109.9 (2791)	111.2 (2824)
	23	Stability	According to ANSI/DIN	Yes	Yes	Yes
	24	Speed	Travel speed, max w/load mph(kph)	12.5 (20.1)	12.4 (19.9)	12.4 (19.9)
	25		Travel speed, max w/o load mph(kph)	12.8 (20.5)	12.8 (20.5)	12.8 (20.5)
		Speed on grade	5%, loaded mph(kph)	10.8 (17.3)	9.7 (15.6)	9.7 (15.6)
			10%, loaded mph(kph)	6.3 (10.1)	5.8 (9.3)	5.8 (9.3)
			15%, loaded mph(kph)	4.5 (7.2)	3.8 (6.1)	3.8 (6.1)
	26	Lift speed, loaded/empty	Standard upright fpm(ms)	95/112 (.48/.57)	95/112 (.48/.57)	92/112 (.47/.57)
	28		Triple stage upright fpm(ms)	91/86 (.46/.44)	88/86 (.45/.44)	87/86 (.44/.44)
	29	Lower speed,loaded/empty	Standard upright fpm(ms)	100/100 (.51/.51)	100/100 (.51/.51)	100/100 (.51/.51)
			Triple stage upright fpm(ms)	85/86 (.43/.44)	86/86 (.44/.44)	86/86 (.44/.44)
	30	Drawbar pull, maximum	With load lbs/N	4,510 / 20060	4,420 / 19660	4,390 / 19525
Weights <sup>1</sup>			Without load lbs/N	2,930 / 13030	2,890 / 12850	2,805 / 12477
	32	Gradeability	At 1 mph (1.6 kph) with load %	28.0	24.6	22.1
			Maximum with/without load %	31.5 / 25.3	28.1 / 21.6	25.9 / 16.7
	34	Service weight	lbs(kg)	8,686 (3940)	9,482 (4301)	9,855 (4470)
	35	Axle loading	With load, front lbs(kg)	11,895 (5396)	13,478 (6114)	14,225 (6452)
Chassis	36		With load, rear lbs(kg)	1,791 (812)	2,004 (909)	2,130 (966)
	37		Without load, front lbs(kg)	3,611 (1638)	3,537 (1604)	3,545 (1608)
	38		Without load, rear lbs(kg)	5,075 (2302)	5,945 (2697)	6,310 (2862)
	39	Tires	Number, front/rear	2 / 2	2 / 2	2 / 2
	40		Size, front in	7.00 x 12 - 14 ply rating	28 x 9 x 15 - 14 ply rating	28 x 9 x 15 - 14 ply rating
			Size, rear in	6.00 x 9 - 10 ply rating	6.50 x 10 - 10 ply rating	6.50 x 10 - 10 ply rating
	41	Wheelbase	in(mm)	63.8 (1620)	63.8 (1620)	63.8 (1620)
	42	Track	Front/rear in(mm)	39.3/34.9 (998/887)	40.5/34.9 (1030/887)	40.5/34.9 (1030/887)
	44	Ground clearance	Minimum/at center of wheelbase in(mm)	4.3/7.5 (110/190)	4.3/7.5 (110/190)	4.3/7.5 (110/190)
	46	Service brake	Type	Drum and shoe	Drum and shoe	Drum and shoe
Drive Line	47	Parking brake	Actuation	Foot pedal	Foot pedal	Foot pedal
		Steering	Type	Hydrostatic	Hydrostatic	Hydrostatic
	49	I.C. Engine <sup>3</sup>	Manufacturer/model	Mitsubishi / S4S	Mitsubishi / S4S	Mitsubishi / S4S
	51		Rated output HP/kW@rpm	54 / 40 @ 2400	54 / 40 @ 2400	54 / 40 @ 2400
			Torque Lb-ft/Nm@rpm	138 / 187 @ 1400	138 / 187 @ 1400	138 / 187 @ 1400
	52		Speed, max governed rpm	2,600	2,600	2,600
	53		Cylinders/displacement cu. In.-liters	4 / 203 - 3.3	4 / 203 - 3.3	4 / 203 - 3.3
	54	Transmission	Manufacturer/type, speeds F/R	Clark Powershift 1/1	Clark Powershift 1/1	Clark Powershift 1/1
	57	Hydraulic pressure	For attachments PSI/Bar	Adjustable	Adjustable	Adjustable
	58	Sound level	Avg. at operator's ear per ANSI B56.11.5 dB(A)	81	81	81

**Notes:**

- Weights and performance information are given for trucks with 130 in. (3302 mm) MHH standard uprights.
- Optional reduced height overhead guard 81.5 in. (2070 mm) available from factory only.

# SPECIFICATIONS

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

Clark Genesis™ Series pneumatic tire trucks are suited to diverse applications in manufacturing, warehousing and distribution. Offered with LPG, CNG and gasoline and diesel fuel systems, these trucks provide very high levels of operator comfort, reliability, ease of service and low noise.

## 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 long-wearing 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 brake only. Left foot-actuated parking brake.

Cowl-mounted hydraulic control levers with soft touch knobs. Left hand fingertip operated directional control is electric actuated; direction reversals are hydraulically cushioned. Safety seat with retractable seat belt and lateral restraints are proven effective. Six inches (150 mm) of front to back seat adjustment and separate seat and back cushions have molded bolsters that add comfort. Visual and audio seat belt prompt on start-up. Tilt steering column locks in one of six positions; 38° total travel. Small, thick-section wheel is easily operated with one hand. Clamshell hood gives easy access for daily inspections. Single piece floor panel is removable without tools.

## Monitor System/Display

Illuminated instrument pod has high intensity LED display with self testing feature. Integral Monitor system provides continuous monitoring of engine oil pressure, transmission and coolant temperature as well as status of air cleaner and diesel fuel filter. Also, LED displays for low LPG, battery discharge, parking brake 'on' and glow plug timer (diesel); analog temperature gauge and 5-digit hour meter with engine 'on' indicator. Gasoline and diesel models have analog fuel gauges. Monitor sounds warning and shuts down engine in event of high engine or transmission temperature or low engine oil pressure.

## Engines Gasoline/LPG/CNG

Standard: Mitsubishi model 4G64, 2.4 liter (143 CI) 4-cylinder overhead cam engine with internal dynamic balancers. Camshaft and balancers are cog belt driven. Cast iron deep skirt block with aluminum cylinder head, 5-main bearing crankshaft. Gasoline models are carbureted with velocity-type governors.

Optional: GM 3.0 liter (181 CI) 4-cylinder L-head engine. Cast iron block and cylinder head with hardened valve seat inserts and advanced engine sealing add durability. Gasoline models have throttle body fuel injection and electronic governor control.

Both engines incorporate hydraulic valve lifters and electronic ignition for reduced maintenance requirements. All LPG models are supplied with IMPCO fuel systems with brackets for 33.5 lb. (15.2 kg) or 43.5 lb (19.7 kg) tanks.

## Diesel

Mitsubishi model S4S, 3.3 liter (203 CI) 4-cylinder industrial diesel engine. All cast iron construction with 5-main bearings, internal balancers and centrifugal governor. New generation design incorporates low smoke, fuel efficient direct fuel injection. Equipped with timed pre-heat starting aid system and key switch shut-off.

## Engine Accessories/Capacities

Trucks are 12-volt negative ground and incorporate heavy-duty starters with anti-restart system. Batteries are rated at 420 CCA and 625 CCA at 0°F (-18°C) for gasoline/LPG and diesel trucks, respectively. All utilize Cyclopac air cleaners with high air intake, automatic dirt ejectors and monitor indication for service. Supplemental safety element and pre-cleaners (optional) can be added without other changes. Central electric panel with blade fuse and relay access. Environmentally sealed connectors; fusible links located outside of harness for ease of access. Filters are easily serviced and located to prevent spillage.

Crankcase capacity: 2.4L engine: 4.0 qts. (3.8L); 3.0L liter engine: 5 qts. (4.7 L) and diesel models: 11 qts. (10L). Fuel tank capacity (gasoline and diesel) is 15 gal. (57 L).

## Transaxle

Model TA 30 single speed, full reversing, powershift transaxle with high stall ratio industrial torque converter, full-floating drive axles, and drum/shoe brake assemblies. Solenoid-actuated, hydraulic-modulated directional control and mechanically actuated, hydraulic inching. Helical drive gears operate smoothly and reduce noise. Auxiliary gear drive for efficient, bolt-on hydraulic pump operation. Control elements and test ports readily accessible for service. Heavy-duty oil-to-air transmission cooler provides independent transmission cooling. Full-flow transmission spin-on oil filter and sump screen are easily serviced.

## Brakes

Self energizing, hydraulic-actuated drum and shoe type service brakes. Inching and brake operation with left pedal, braking only with right pedal. Heavy cast iron brake shoes, backing plates and drums with openings for inspection and adjustment; all components asbestos-free. Brakes are quickly accessed by removing wheel and brake drum; no axle removal is required. Left foot parking brake pedal actuates service brakes at both drive wheels.

## Hydraulics

Single gear driven pump provides fluid for hydraulic functions and steering. 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 8.0 gal. (30.2 L).

## Steering

Full hydrostatic steering. 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. Metal shields protect bearing seals from wire or in-plant debris. Grease fittings extend linkage and king pin/bearing service life.

## Upright

High visibility standard, Hi-Lo, triple stage and Quad uprights of heavy C-channel outer rails and full I-section inner and intermediate rails. All-roller operation of upright rails; upright rail and carriage 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 II and III specifications with tapered fork bars for improved visibility. Load backrest is designed for optimum visibility and mounting bolts are offset to prevent load and rack damage. Hydraulic cushioning between stages aids in quiet operation. Self-lubricating trunion bushings and simplified roller access improve serviceability. Hydraulic tilt lock valve prevents improper tilt cylinder operation; integral flow limiting valves prevent rapid carriage descent in the event of a line failure; and lowering control allows faster lowering speeds when empty or with light loads.

## Additional Features/Available Equipment

Color is high-visibility Clark Green with non-glare black trim. Wheels are bright white. Electronic horn and tow pin are standard. Operator Manual and Service Information Card are permanently attached to truck. Clark's *Employer's Guide to Material Handling Safety* is also provided with the truck. Options included auxiliary hydraulic functions and attachments, dual fuel, non-marking tires, Unicontrol™ foot directional control, and convenience console. Available equipment includes front and back work lights, back-up and stop lights, strobe, turn signals, audible alarm and mirrors. Contact a Clark representative for additional information.

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