



Cushion Tire Lift Trucks LPG/Dual Fuel

C20C

C**25**C

C30C

C**32**C

4,000 lbs 2000 kg

5,000 lbs 2500 kg

6,000 lbs 3000 kg

6,500 lbs 3200 kg

C20/25/30/32C





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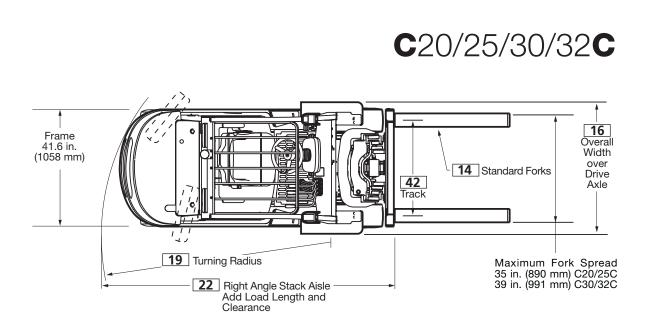


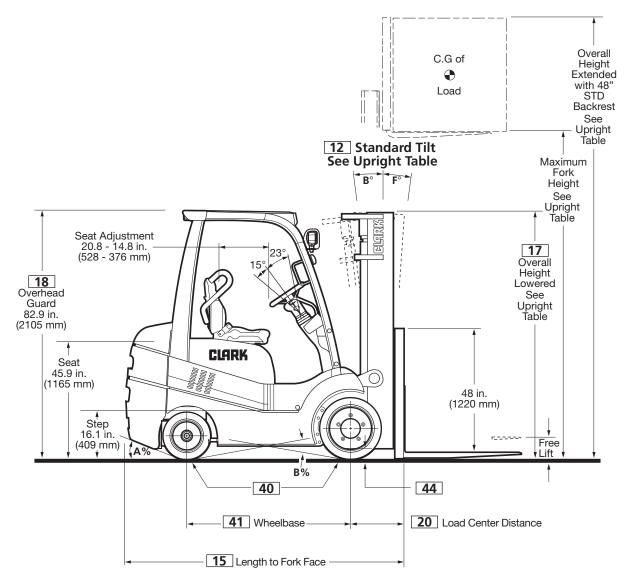












Upright Table

Maximum Fork Height in mm		Overall Height ¹ Lowered in mm		Free Lift⁴ in mm		Standard Tilt Spec ² B°/F°	
C20/2 Stand 83 105 117 •130 146 152 164 172 182		60.0 71.1 77.0 83.3 94.7 97.6 108.3 116.1 125.2	1525 1806 1955 2115 2405 2480 2750 2950 3180	4.3 4.3 4.3 4.3 4.3 4.3 4.3 4.3	110 110 110 110 110 110 110 110	6/10 8/10 8/10 10/8 10/8 10/8 5/6 5/6	
203	5170	135.6	3445	4.3	110	5/3	
C32C Stand • 127 144	ard 3225 3655	83.3 94.7	2120 2415	4.5 4.5	115 115	8/10 10/8	
C20/2 Triple 152	5C Stage ³ 3860	71.1	1820	49.2	1252	5/6	
• 189 205 217 226 240 251 269 288	4315 4800 5205 5510 5740 6095 6370 6830 7315	77.0 83.3 88.8 94.7 97.6 103.9 108.3 116.1 125.2	1955 2119 2256 2405 2479 2639 2750 2950 3180	55.2 61.5 67.0 72.9 75.9 82.2 86.5 94.4 103.4	1402 1562 1702 1852 1927 2087 2197 2397 2627	5/6 5/6 5/3 5/3 5/3 5/3 3/3 3/3 3/3	
C30C Triple	C30C Triple Stage ³						
152 170 •189 205 217 226 240 251 269 288	3860 4315 4800 5205 5510 5740 6095 6370 6830 7315	71.1 77.0 83.3 88.8 94.7 97.6 103.9 108.3 116.1 125.2	1820 1955 2119 2256 2405 2479 2639 2750 2950 3180	46.9 52.8 59.1 64.6 70.6 73.5 79.8 84.1 92.0 101.1	1192 1342 1502 1642 1792 1867 2027 2137 2337 2567	5/6 5/6 5/6 5/3 5/3 5/3 5/3 5/3 3/3 3/3 3/3	
	Stage ³					T (0	
164 • 189 199 211	4165 4800 5055 5355	77.0 85.4 89.0 95.0	1960 2170 2265 2415	51.0 59.5 62.8 68.7	1296 1511 1596 1746	5/6 5/6 5/3 5/3	
C20/2 Hi-Lo							
115 •128 139 148 154	2935 3250 3531 3760 3912	77 83.3 88.8 94.7 97.6	1956 2116 2256 2405 2479	55.2 61.5 67.0 73.0 75.9	1403 1563 1703 1853 1928	8/8 8/8 8/8 8/8 8/8	
C30C Hi-Lo							
115 •128 139 148 154	2935 3250 3531 3760 3912	77 83.3 88.8 94.7 97.6	1956 2116 2256 2405 2479	52.8 59.1 64.6 70.6 73.5	1342 1502 1642 1792 1867	8/8 8/8 8/8 8/8 8/8	
C20/2 Quad	3	77	1056	50.0	1000	0.40	
216 •240 258 276 294 312	5485 6096 6553 7010 7465 7925	77 83 89 95 101 107	1956 2108 2260 2413 2565 2718	52.0 58.0 64.0 70.0 76.0 82.0	1320 1473 1625 1778 1930 2082	3/0 3/0 3/0 3/0 3/0 3/0	

Grade Clearance

Model	Α%	В%
C20/25/30/32C	39.4	16.3

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
- Reduced height overhead guard U.L. Type LPS construction
- Seat actuated engine shutdown
- Pre-cleaner overhead guard mounted
- Air cleaner safety element
- **Dual fuel**
- **CNG**
- Travel Speed Limit with Full Hydraulic Speed
- Belly pan
- Radiator screen
- Clean Air Cooling Package
- Bottler's tilt

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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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 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.

- Indicates preferred common specification.
 For overall height raised with load backrest, add 48 in.
 (1220 mm) to maximum fork height.
 Standard tilt shown. Contact Clark representative for information on optional tilt.
 Wide stance wheel (standard tire) is provided with all
- Quad uprights and all triple stage uprights over 240 in. (6095 mm) Maximum Fork Height overall truck width is 48.8 in. (1240 mm) on C20/25C and 50.8 in. (1290 mm) on the C30/32C.
- Freelift dimensions shown are without load backrest.

Other uprights available, contact a Clark representative.

M	Г <u>-</u>	1	Manufacturer			Clark	Clark
	ţi	2	Model	Manufacturer's designation		C20CL	C25CL
	General Information	3	Load capacity		lbs(kg)	4000 (2000)	5000 (2500)
	for	4	Load center	Fork face to load CG	in(mm)	24 (500)	24 (500)
	드	5	Drive unit	Туре		LPG	LPG
	era	6	Operator type			Rider counterbalanced	Rider counterbalanced
	ien	7	Tire type			Cushion	Cushion
	ا	8	Wheels (x=driven)	Front/rear		2 x / 2	2 x / 2
	Н	9	Upright ¹	Maximum fork height, full capacity	in(mm)	189 (4800)	189 (4800)
		10	Oprigit	Lift height (preferred triple upright)	in(mm)	189 (4800)	189 (4800)
		11		Free lift ¹	in(mm)	54.0 (1327)	54.0 (1372)
		12	Upright tilt	Back/forward (see tilt specifications	` '	5B / 6F	5B / 6F
	ns¹	14	Fork	Std. Fork size (TxWxL)	in(mm)	1.75x4x42 (45x100x1070)	1.75x4x42 (45x100x1070)
	siol	-		, ,	` ′		
	en	15	Overall dimensions ¹	Length to fork face ^{1,2}	in(mm)	88.5 (2248)	90.9 (2310)
	۲.	16		Width over drive axle	in(mm)	42.5 (1080)	42.5 (1080)
	Basic Dimensions	17		Height, upright lowered ¹	in(mm)	83.5 (2120)	83.5 (2120)
	Bas			Height, upright extended w/ load back		237 (6020)	237 (6020)
		18		Height, overhead guard	in(mm)	82.8 (2105)	82.8 (2105)
		19	Turning radius	Outside	in(mm)	77.8 (1975)	80.1 (2035)
		20	Load center distance ^{1, 2}	Center of drive axle to fork face ^{1,2}	in(mm)	16.7 (424)	16.7 (424)
	$ldsymbol{ldsymbol{ldsymbol{eta}}}$	22	Right angle stack aisle ^{1, 2}	Add load length and clearance ^{1,2}	in(mm)	94.5 (2399)	96.8 (2459)
		23	Stability	According to ASME B56.1		Yes	Yes
		24	Speed ³	Travel speed, max w/load	mph(kph)	10.4 (16.8)	10.4 (16.8)
4		25		Travel speed, max w/o load	mph(kph)	10.4 (16.8)	10.4 (16.8)
			Speed on grade, loaded ³	5%, loaded ³	mph(kph)	9.9 (16.0)	9.7 (15.7)
	2,3			10%, loaded ³	mph(kph)	5.8 (9.4)	5.5 (8.9)
	Ge 1			15%, loaded ³	mph(kph)	4.5 (7.3)	3.9 (6.3)
	Jan	26	Lift speed, loaded/empty ³	Standard upright ³	fpm(ms)	106/124 (.54/.63)	104/124 (.53/.63)
	Performance ^{1,2,3}	28		Triple stage upright ³	fpm(ms)	102/126 (.52/.61)	100/120 (.51/.61)
	erf	29	Lower speed,loaded/empty	Standard upright	fpm(ms)	89/89 (.45/.45)	89/89 (.45/.45)
				Triple stage upright	fpm(ms)	85/85 (.43/.43)	85/85 (.43/.43)
		30	Drawbar pull, maximum ^{1,3}	With load ³	lbs/N	4850 / 21570	4850 / 21570
		32	Gradeability ^{1,3}	At 1 mph (1.6 kph) with load ³	%	34.2	29.1
				Maximum with/without load ^{1,3}	%	39.5 / 26.2	33.2 / 21.7
		34	Service weight ¹		lbs(kg)	8,137 (3691)	8955 (4062)
11	ıtsı	35	Axle loading ¹	With load, front ¹	lbs(kg)	11,122 (5045)	12,712 (5766)
	Weights ¹	36		With load, rear ¹	lbs(kg)	1424 (646)	1755 (796)
	×	37		Without load, front1	lbs(kg)	3796 (1722)	3554 (1612)
		38		Without load, rear ¹	lbs(kg)	4341 (1969)	5401 (2450)
		39	Tires	Number, front/rear		2/2	2 / 2
		40		Size, front	in	21x7x15	21x7x15
				Size, rear	in	16x5x10.5	16x5x10.5
	į	41	Wheelbase		in(mm)	55.1 / 1400)	55.1 / 1400)
	Chassis	42	Track	Front/rear	in(mm)	34.7 /35.2 (882/895)	34.7/35.2 (882/895)
	ប	44	Ground clearance	Minimum/at center of wheelbase	in(mm)	3.35/4.3 (85/110)	3.35/4.3 (85/110)
		46	Service brake	Type		Drum	Drum
		47	Parking brake	Actuation		Foot	Foot
			Steering	Туре		Hydrostatic	Hydrostatic
		49	Engine ^{3,4}	Manufacturer/model		Mitsubishi / 4G64	Mitsubishi / 4G64
11	ا ه	51	-		HP/kW@rpm	47.5 / 35.4 @ 2250	47.5 / 35.4 @ 2250
	Line			·	-ft/Nm@rpm	120 / 163 @ 1400	120 / 163 @ 1400
	Drive	52		Speed, max governed	rpm	2650	2650
	P.	53		Cylinders/displacement	cu. Inliters	4 / 143 - 2.4	4 / 143 - 2.4
		54	Transmission	Manufacturer/type, speeds F/R		Clark/Powershift, 1/1	Clark/Powershift, 1/1
	Н	57	Hydraulic pressure	For attachments	PSI/Bar	Adjustable	Adjustable
		58	Sound level	Avg. at operator's ear per ISO	dB(A)	78	78
	_		Country to		αD(/1)		

Notes: 1 Weights and performance information are given on trucks with 189 in. (4800 mm) triple uprights.

² For standard upright, deduct 1.3 in. (33 mm).

³ Performance information shown for LPG.

⁴ Engines rated per SAE J1349.

П	1	Manufacturer			Clark	Clark
General Information	2	Model	Manufacturer's designation		C30CL	C32CL
	3	Load capacity		lbs(kg)	6000 (3000)	6500 (3200)
or	4	Load center	Fork face to load CG	in(mm)	24 (500)	24 (500)
핕	5	Drive unit	Type	()	LPG	LPG
ral	6	Operator type	1,750		Rider counterbalanced	Rider counterbalanced
ene	7	Tire type			Cushion	Cushion
٥	8	Wheels (x=driven)	Front/rear		2 x / 2	2 x / 2
Н	9	Upright ¹	Maximum fork height, full capacity	in(mm)	189 (4800)	164 (4165)
ns¹	10	Oprigit	Lift height (preferred triple upright)	in(mm)	189 (4800)	189 (4800)
	11		Free lift ¹	in(mm)	54.0 (1372)	53.4 (1356)
	12	Upright tilt	Back/forward (see tilt specifications)		5B / 6F	5B / 6F
	14	Fork	Std. Fork size (TxWxL)	in(mm)	1.75x4.8x42 (45x122x1070)	2x4.8x42 (50x122x1070)
Basic Dimensions	15	Overall dimensions ¹	Length to fork face ^{1,2}	in(mm)	92.9 (2359)	95.2 (2417)
Jen	16	Overall ullilelisions	Width over drive axle	in(mm)		
۱	17			` '	43.7 (1110)	45.4 (1154)
Sic	17		Height, upright lowered	in(mm)	83.5 (2120)	85.4 (2170)
Ba	40		Height, upright extended w/ load backr	` '	237 (6020)	237 (6020)
	18	Tomain a madion	Height, overhead guard	in(mm)	82.8 (2105)	82.8 (2105)
	19	Turning radius	Outside	in(mm)	82.3 (2090)	83.9 (2130)
	20	Load center distance ^{1, 2}	Center of drive axle to fork face ^{1,2}	in(mm)	16.9 (429)	17.5 (445)
Н	22	Right angle stack aisle ^{1, 2}	Add load length and clearance ^{1,2}	in(mm)	99.2 (2519)	101.4 (2575)
	23	Stability	According to ASME B56.1		Yes	Yes
	24	Speed ³	Travel speed, max w/load	mph(kph)	10.3 (16.7)	10.2 (16.5)
	25	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Travel speed, max w/o load	mph(kph)	10.3 (16.7)	10.2 (16.5)
		Speed on grade, loaded ³	5%, loaded ³	mph(kph)	9.4 (15.2)	9.2 (15.2)
1,2,3			10%, loaded ³	mph(kph)	5.2 (8.4)	5.0 (8.1)
)ce			15%, loaded ³	mph(kph)	3.7 (6.0)	3.5 (5.7)
naı	26	Lift speed, loaded/empty ³	Standard upright ³	fpm(ms)	102/124 (.52/.63)	102/124 (.52/.63)
Į.	28		Triple stage upright ³	fpm(ms)	98/120 (.50/.61)	96/120 (.49/.61)
Performance ^{1,2,3}	29	Lower speed,loaded/empty	, -	fpm(ms)	89/89 (.45/.45)	89/89 (.45/.45)
-			Triple stage upright	fpm(ms)	85/85 (.43/.43)	85/85 (.43/.43)
	30	Drawbar pull, maximum ^{1,3}	With load ³	lbs/N	4850 / 21570	4850 / 21570
	32	Gradeability ^{1,3}	At 1 mph (1.6 kph) with load ³	%	25.3	22.0
Ш			Maximum with/without load ^{1,3}	%	28.3 / 18.4	26.8 / 17.4
_	34	Service weight ¹		lbs(kg)	9899 (4490)	10,254 (4651)
hts¹	35	Axle loading ¹	With load, front ¹	lbs(kg)	14,358 (6513)	15,064 (6833)
ושו	36		With load, rear ¹	lbs(kg)	2154 (977)	2244 (1018)
>	37		Without load, front ¹	lbs(kg)	3369 (1528)	3318 (1505)
${oxdot}$	38	_	Without load, rear ¹	lbs(kg)	6530 (2962)	6936 (3146)
	39	Tires	Number, front/rear		2/2	2 / 2
	40		Size, front	in	21x8x15	21x9x15
			Size, rear	in	16x6x10.5	16x6x10.5
Chassis	41	Wheelbase		in(mm)	55.1 (1400)	55.1 (1400)
has	42	Track	Front/rear	in(mm)	35.7/36.2 (908/920)	36.7/36.2 (932/920)
	44	Ground clearance	Minimum/at center of wheelbase	in(mm)	3.35/4.3 (85/110)	3.35/4.3 (85/110)
	46	Service brake	Туре		Drum	Drum
	47	Parking brake	Actuation		Foot	Foot
Ш		Steering	Туре		Hydrostatic	Hydrostatic
	49	Engine ^{3,4}	Manufacturer/model		Mitsubishi / 4G64	Mitsubishi / 4G64
ne	51		·	HP/kW@rpm	47.5 / 35.4 @ 2250	47.5 / 35.4 @ 2250
Drive Line			· ·	-ft/Nm@rpm	120 / 163 @ 1400	120 / 163 @ 1400
ĬŠ	52		Speed, max governed	rpm	2650	2650
^	53			cu. Inliters	4 / 143 - 2.4	4 / 143 - 2.4
Щ	54	Transmission	Manufacturer/type, speeds F/R		Clark/Powershift, 1/1	Clark/Powershift, 1/1
	57	Hydraulic pressure	For attachments	PSI/Bar	Adjustable	Adjustable
Ιl	58	Sound level	Avg. at operator's ear per ISO	dB(A)	78	78

Notes: 1 Weights and performance information are given on trucks with 189 in. (4800 mm) triple uprights.

² For standard upright, deduct 1.3 in. (33 mm).

³ Performance information shown for LPG.

⁴ Engines rated per SAE J1349.

CLARK Gen2 Series cushion tire trucks are designed for applications in manufacturing, warehousing and distribution. The standard design features provide high levels of operator comfort, reliability, ease of service and low noise to meet the most demanding operations.

Operator Comfort / Convenience

Gen2 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, easily removable without tools and covered with a thick, molded floormat. 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.

Hydraulic control levers are cowl-mounted. Left hand fingertip operated directional control is electrically actuated. Equipped with a legendary CLARK safety seat with shoulder restraints, adjustable and fold-down back rest, molded bolsters for comfort and support, six inches (150mm) fore/aft adjustment, a retractable seat belt and an operator manual in the seat pocket. 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, with four turns lock-to-lock, is easily operated with one hand. Clamshell hood with gas struts gives easy access for daily inspections.

Instrument Panel

The instrument panel features a full LED/digital display with visual and audible engine monitoring warnings. Functions being monitored include water temperature, engine oil pressure, transmission oil temperature, ammeter, and low fuel. It also features fuel system diagnostics with indicator, programmable maintenance timer and touch pad light switches, hour meter, neutral start system and anti-restart. An automatic engine shutdown system continuously monitors engine oil pressure, engine coolant temperature and transmission oil temperature. The instrument panel includes prompts for the seat belt, parking brake, ignition key, headlights, service engine light and is warranted for 2 years or 4000 hours.

Engine

Mitsubishi model 4G64, 2.4-liter (143 Cl) 4-cylinder overhead cam engine with internal dynamic balancers and an EPA certified, low-emission LPG or dual fuel system with diagnostics. Camshaft and balancers are cog belt driven. Cast iron deep skirt block with aluminum cylinder head and 5-main bearing crankshaft.

Hydraulic valve lifters and electronic ignition reduce maintenance requirements. Either 33.5 lb. (15.2 kg) or 43.5 lb. (19.7 kg) tanks can be used.

Engine Accessories/Capacities

Trucks are 12-volt negative ground and incorporate a heavy-duty starter. Batteries are rated at 550 CCA at 0° F (-18° C). High capacity air cleaners with raised air intake, automatic dirt ejectors and an air restriction indicator for service. An optional air cleaner safety element and pre-cleaner can be added without other changes. A fuse panel with blade type fuses and relays is conveniently located. Moisture resistant electrical connectors and fusible links are located outside of harness for ease of access. Filters are easily serviced and located to prevent spillage. Crankcase capacity is 4.0 qts. (3.8 L).

Transaxle

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Clark model TA 30 full reversing, single speed, powershift transaxle with high stall ratio industrial torque converter, full-floating drive axles, and drum/shoe brake assemblies. Solenoid actuated, hydraulically modulated directional control and mechanically actuated, hydraulic inching. Helical drive gears operate smoothly and reduce noise. The gear-driven hydraulic pump is transmission mounted. Control elements and test ports readily accessible for service. Heavy-duty transmission cooler, mounted integral in a high efficiency, open

core radiator, provides independent transmission cooling. The full-flow transmission spin-on oil filter and sump screen are easily serviced.

Brakes

Self-energizing, hydraulically-actuated drum and shoe type service brakes. Shrouds prevent dirt entry into the brake area. Inching and brake operation with left pedal, braking only with right pedal. Heavy backing plates, brake shoes and drums with openings for inspection and adjustment; all components asbestos-free. Brakes are self adjusting and quickly accessed by removing wheel and brake drum; no axle removal is required. Use of the parking brake, with electric transmission interrupt, prevents driving against the brakes. Left foot parking brake pedal actuates service brakes at both drive wheels. A dual stage master cylinder assures smooth braking and reduced pedal effort with short pedal stroke.

Hydraulics

Single gear 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. An 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 face seals for leak-free operation. 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 with tapered roller bearings to provide a rugged yet easily serviced assembly. Rubber isolation mounts supporting the axle absorb shock and reduce noise. Metal shields protect spindle bearing seals from wire or in-plant debris. Grease fittings extend linkage and 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. A wide range of lift heights are available. All-roller operation of upright rails and carriage. Rollers are canted to accept both normal and side thrust loads. The ITA Class II and III carriages employ six main rollers with two inner and two outer thrust rollers to absorb off-center loading. The load backrest is designed for optimum visibility. Hydraulic cushioning between stages aids in smooth and 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 a lowering control valve allows faster lowering speeds when empty or with light loads.

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. An 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.

Available Equipment

Auxiliary valves, hose adaptations, sideshifters, hydraulic control options, Unitrol foot directional control, combination stop/tail/backup lights, rear work light, turn signals, strobe lights, backup alarm, mirrors, convenience console, various seat options, reduced height overhead guard, U.L. Type LPS construction, seat actuated engine shutdown, high mounted pre-cleaner, air cleaner safety element, dual fuel, CNG, belly pan and radiator screen options to prevent radiator plugging, Paper Recycling Package, Bottler's tilt.

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