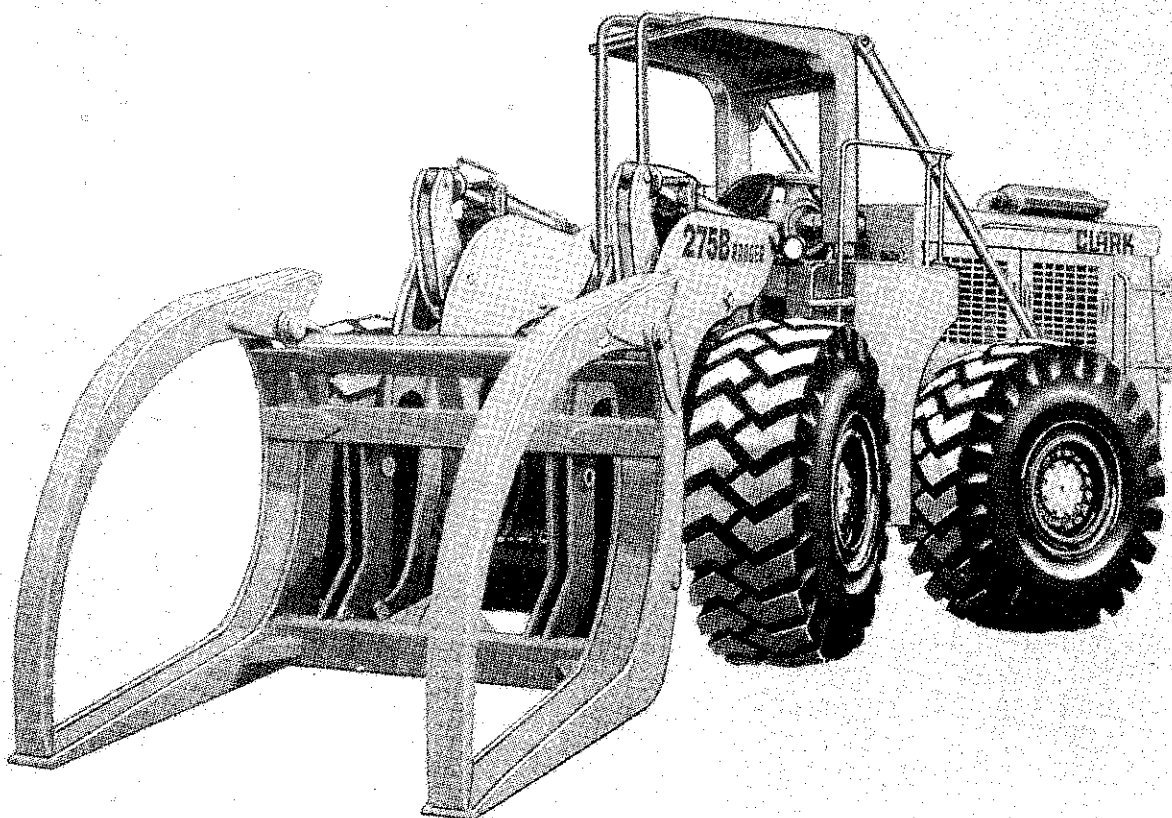
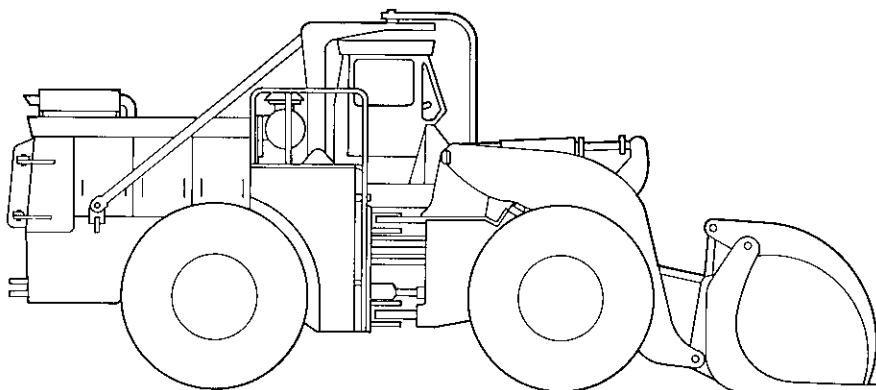


CLARK

275B RANGER

LOG LOADER

- Complete powertrain designed and manufactured by Clark
- Large capacity, power-sensing hydraulic system... dual filtration
- Rugged, double-plate boom design with trunnion mounted cylinders
- Cantilever ROPS (SAE J394) with front operator guard
- Cummins NTA-855-C engine... 342 flywheel horsepower
- Air brakes on all wheels... automatically or manually applied emergency brake



MODEL 275B

ENGINE

Make	Cummins
Model	NTA-855-C
*Maximum h.p.	380
**Flywheel h.p.	342
Governed RPM	2300
Maximum torque, ft. lbs. (kg-m)	960 (131,7)
Bore and stroke, in.	5.5 x 6.0
(mm)	(139,7 x 152,4)
Number of cylinders	6
Displacement, cubic in. (litres)	855 (14,0)
Fuel capacity, U.S. gals. (litres)	165 (624)
Electrical system (alternator)	24 volts, 75 amps
*Maximum horsepower of basic engine under S.A.E. standard J816 — barometric pressure of 29.38 in. hg. (74,62 cm hg), 85°F (29,4°C) and maximum engine speed with fuel pump, water pump, and lubricating oil pump.	
**Net usable horsepower at engine flywheel under S.A.E. standard J816 — barometric metric pressure of 29.38 in. hg. (74,62 cm hg), 85°F (29,4°C) and governed engine speed with fan, alternator, air cleaner and air compressor.	

POWERTRAIN

TORQUE CONVERTER: Clark industrial type, 3.09 to 1 multiplication factor.
TRANSMISSION: Clark powershift, countershaft type 4-speed, full reversing.

Travel speeds (measured with 29.5-29, 28 PR tires), MPH (km/hr):

1st	2nd	3rd	4th
3.6 (5,8)	6.6 (10,6)	11.2 (18,0)	19.3 (31,0)

AXLES: Clark all wheel drive, with planetary reduction in each wheel. Front and rear limited slip differentials. Total rear axle oscillation 24°

HYDRAULIC SYSTEM

PUMPS: Gear type — three separate pumps, two tandem with power sensing valve, driven at engine speed, each with separate relief valve.

System operating pressure 2200 PSI (154,7 kg/cm²)

System capacity 192 U.S. gal. (728 litres)

Reservoir capacity 165 U.S. gal. (624,5 litres)

CYLINDERS: Double-acting

Boom (2) 9.00" dia. x 44.80" (228,6 x 1139,8 mm)

Tilt (2) 7.00" dia. x 25.50" (178,0 x 647,7 mm)

Top clamp (2) 6.00" dia. x 24.00" (152,4 x 609,6 mm)

Steering (2) 5.25" dia. x 16.50" (133,4 x 419,1 mm)

VALVE: Three spool main valve, operated by pilot valve with built-in relief valves.

HYDRAULIC SPEEDS

Raising time	8.0 sec.
Lowering time	6.0 sec.
Dump time	3.0 sec.
Clamp open time	1.8 sec.
Clamp close time	1.3 sec.

TIPPING LOAD

*Tipping load — straight, lbs. (kg) 58,500 (26 536)

*Tipping load — full turn, lbs. (kg) 51,000 (23 134)

*Tipping loads based on: (1) Unit at standard operating weight on firm, level surface. (2) Fork at maximum reach in rollback position.

LOG GRAPPLE (Young/Gabco HC84-96)

Length of forks	7' 0"	(2134 mm)
Overall width of forks	8' 0"	(2438 mm)
Maximum fork cross section	8" x 10.5"	(203 x 267 mm)
Maximum opening of clamp	11' 8"	(3556 mm)
Minimum closure of clamp	6' 6"	(1961 mm)
Rollback at ground	6°	
Rollback at carry	10°	
Maximum dump angle	35°	

OPERATING DIMENSIONS

TURNING RADIUS

Tip of fork at ground	26' 6"	(8077 mm)
Tip of fork at maximum reach	27' 9"	(8458 mm)
Outside rear tire	25' 2"	(7671 mm)
Tread, front and rear	8' 9"	(2667 mm)
Width over tires	11' 3"	(3429 mm)
Length, tractor less grapple	24' 6"	(7366 mm)
Height over steering wheel	9' 11"	(3023 mm)

BRAKES (SAE J237)

SERVICE: Four wheel straight air, shoe type. Application of left pedal also neutralizes transmission.

EMERGENCY: Axle-by-axle system. Automatically actuated by low air pressure or manually applied through dash-mounted control valve; audible and visual alarm.

PARKING: Mechanical on front axle input shaft.

TIRES

Tubeless, nylon, rock tread 29.5-29, 28 PR (L-3)
(Optional tires available)

WEIGHT (Approx.)

*Operating, lbs. (kg)	83,500	(37 876)
**Operating lbs. (kg)	80,000	(36 288)
***Shipping, lbs. (kg)	71,500	(32 432)
****Shipping, lbs. (kg)	75,000	(34 020)

*With 4600 lbs. (2087 kg) rear tire hydroinflation and 6550 lbs. (2971 kg) counterweight. **Less belly guards, ROPS & seatbelt. ***Less log grapple. ****Less belly guards, ROPS & seatbelt, with log grapple.

STANDARD EQUIPMENT

Reverse Warning Alarm* (SAE J994); ROPS Canopy* (SAE J394) and Seat Belt* (SAE J386); Safety Brakes (SAE J237); Caps, lockable (fuel, hydraulic radiator); Boom Kickout; Drawbar; Horn; Instrument Panel, lockable; Lights, Work (2 front, 2 rear); Lights, Tail/Stop.

*Optional outside U.S.A. and Canada.

GAUGES: Air pressure; engine temperature, oil pressure; hourmeter; v. ter; torque converter temperature.

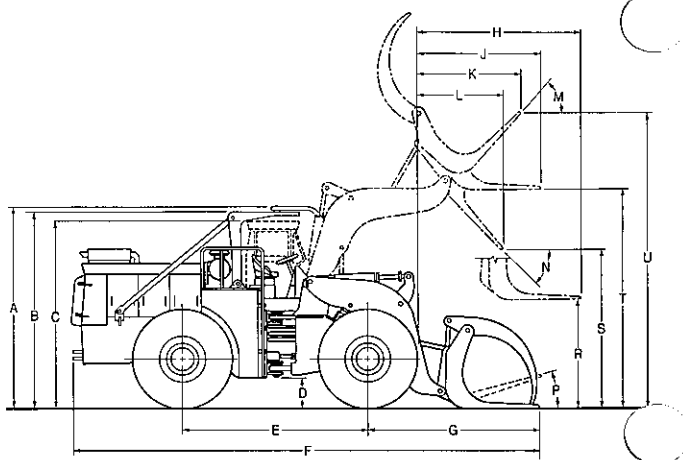
FILTERS: Engine oil, fuel, air (dual-element, dry-type); hydraulic oil (suction and return); torque converter/transmission.

MANDATORY LOGGER KIT

Includes: 3-Spool Valve and Piping; Front and Rear Belly Guards; Fork Lev-eler; Counterweight (6550 lbs.) (2971 kg); Wire Mesh Side Panels; Front Operator's Guard; Grille Guard.

OPTIONAL EQUIPMENT

Acoustical Kit, Cockpit; Air Conditioner; Auxiliary Steering (electric); Battery Disconnect; Cab (non-ROPS with safety glass, acoustical lining); Cab Head-lights (2); Counterweight (in lieu of hydroinflation); Fast Fuel Coupling; Solid Hood Side Panels; Rearview Mirrors (2); Reversible Fan; ROPS Cab (with acoustical lining, tinted glass, front wiper, headlights (SAE J394); Spark Arrestor Muffler; Suspension Seat; Windshield Wiper, Front; Windshield Wiper, Rear; Winterization Group (heater, defroster and evaporator).



DIMENSIONS AND SPECIFICATIONS BASED ON YOUNG/GABCO HC84-96 LOG FORK AND 29.5-29, 28PR (L-3) TIRES.

	A	B	C*	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U
(mm)	13' 11"	13' 4"	12' 8"	1' 7"	12' 2"	31' 10"	12' 7"	11' 10"	9' 6"	7' 3"	8' 1"	47°	35°	6°	8' 2"	10' 5"	15' 0"	20' 8"
	(4242)	(4062)	(3861)	(482)	(3708)	(9703)	(3834)	(3607)	(2896)	(2210)	(2463)				(2490)	(3176)	(4572)	(6300)

*For non-ROPS cab, deduct 4" (101,6 mm)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE OR OBLIGATION

ASK YOUR DISTRIBUTOR ABOUT CLARK FINANCING PROGRAMS

CLARK Construction Machinery Division

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