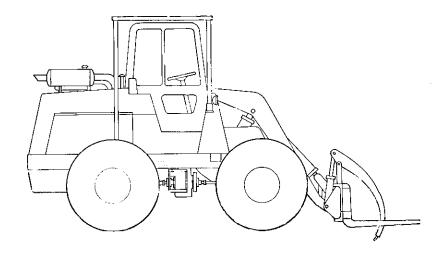
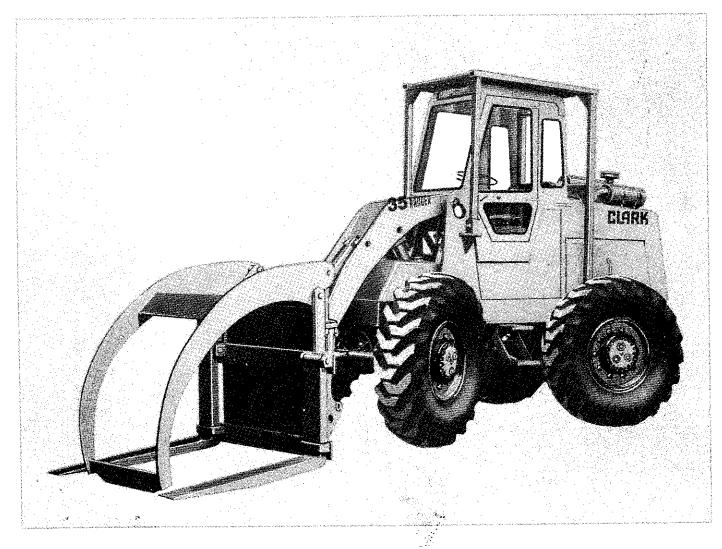
# CLARK

# 35AVS RANGER

# **LOG LOADER**

- Complete powertrain designed and manufactured by Clark
- All-wheel drive, all-wheel power steering
- Clark grapple 48 in. (1219 mm) fork length
  - Perkins 4.248 diesel with 74 flywheel horsepower
  - Brake system 4-wheel air-overhydraulic (SAE J237)
  - 4-leg ROPS safety canopy (SAE J394)





# MODEL 35AWS

<b>ENGINE</b> Diesel	
MakePerkins	
Model4.248	
*Max. horsepower78	
**Flywheel horsepower	
Governed RPM2300	
Maximum torque, ft. lbs. (kg-m)	00
Bore and stroke, in	
(mm)(100.5 x 127.0)	
No. of cylinders4	
Displacement, cu. inches (litres)	
Fuel tank capacity, U.S. gals. (litres)	
Electrical system (alternator)	

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.

# **POWERTRAIN**

TORQUE CONVERTER: Clark industrial type. 3.1 to 1 multiplication factor. TRANSMISSION: Clark countershaft type powershift, with four speeds forward, four speeds reverse. Travel speeds (measured with 14.00-24, 8 PR tires), MPH (km/hr.):

1st 4.0 (6.4) 7.2 (11,6) 13.6 (21,9) 23.2 (37.3)

AXLES: Clark all wheel drive, all wheel steer. Torque proportioning front and rear differentials with planetary reduction in each wheel. Total rear axle oscillation of 24° gives 7" (178 mm) vertical wheel travel.

#### HYDRAULIC SYSTEM

PUMPS: Gear type — three separate pumps driven at	t engine speed, each
with separate relief valve.	<b>G</b> 1,111,111
System Operating Pressure 1850 PSI	(129.5 kg/cm²)
System Capacity	(56,9 litres)
Reservoir Capacity	(41,7 litres)
CYLINDERS: Double-acting	
Boom (1)	" (152.4 x 619.0 mm)
Tilt (1)	" (127,0 x 533,4 mm)
Top Clamp (2)	" (88,9 x 330,2 mm)
Steering (4)	" ( 63,5 x 177,8 mm)
VALVE: Three spool type with built-in adjustable relief	valve.

### **HYDRAULIC SPEEDS**

Raise	• • • • • • • • • • • • • • • • • • •	5.0 sec.
Lower		i.5 sec.
Dump		5 sec
Clamn	onen	35 car
Clamp	close	3.5 sec.

# **TIPPING LOAD**

*Tipping load — straight	7500 lbs.	(3405 kg)
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<sup>\*</sup>Tipping load is based on: (1) Unit at standard operating weight, on firm level surface. (2) Fork at maximum reach in rollback position.

# LOG GRAPPLE (Clark grapple)

Length of fork	48" (1219 mm) 45" (1143 mm) 2.50" x 6.00" (63,5 mm x 152,4 mm) 5' 7" (1702 mm) 20.5" (521 mm) 12°
Maximum dump angle	20°

### OPERATING DIMENSIONS

TURNING RADIUS:	
Tip of fork at ground15' 7"	(4750 mm)
Tip of fork at maximum reach 17'2"	(5232 🎤
Outside rear tire	(3901 (
Tread, front	(1702 ከ
Tread, rear5′ 7″	(1702 mm)
Width, over tires7' 2"	(2182 mm)
Length, tractor less grapple 14' 1"	(4293 mm)

# **BRAKES (SAE J237)**

SERVICE: Four wheel air-over-hydraulic shoe type. EMERGENCY: Axle-by-axle system. Automatically actuated by low air pressure or manually through dash-mounted valve; audible and visual alarm. PARKING: Mechanical on transmission output shaft.

#### TIRES

Tubeless nylon	 14 00-24 R PR (G.2)
1 0001033, 1131011	 . 14.00-24, O I N (U-Z)

# WEIGHT (Approx.)

*Operating, Ibs. (kg)	14,240 (6459)
**Operating, lbs. (kg)	
***Shipping, lbs. (kg)	
****Shipping, lbs. (kg)	12,390 (5/
	hydroinflation and 2000 lbs. (907 kg) coul
project ari acc bally greater BODS	2 coatholt XXXI acc log grouping XXXII and by

'Less log grappie. guards, ROPS & seatbelt, with log grapple.

# STANDARD EQUIPMENT

Reverse Warning Alarm\* (SAE 1994); ROPS, open\* (SAE 1394); Seat Belt\* (SAE 1386); Cap, lockable (radiator): Drawbar; Horn; Lights, work (2 front); Lights, Tail/Stop: Seat; Steps, left and right. GAUGES: Air pressure, torque converter temperature, water temperature. WARNING LIGHTS: Alternator, engine oil pressure, parking brake.

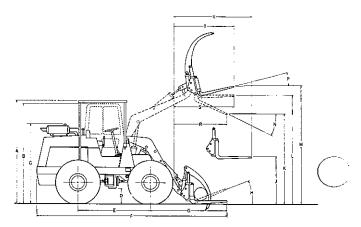
BUZZER: Brake system air pressure.

FILTERS: Air (dry-type); engine oil, fuel, hydraulic oil (return); torque converter/transmission.

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

# **OPTIONAL EQUIPMENT**

Acoustical Kit, Cockpit (with floormat); Axle Disconnect, Rear; Bucket Seat; Cab (non-ROPS with safety glass, acoustical lining): Fork Leveler Kit; Gauge Kit (ammeter, oil pressure); Hood Side Panels (2): Hydraulic Adaptor Kit (3-spool valve, piping & controls): Log Grapple: Lumber Fork, 38" (965 preserview Mirror; Spark Arrestor Muffler; Windshield Wiper, front; Winds zation Group (heater, defroster); Work Light, Rear.



DIMENSIONS AND SPECIFICATIONS ARE WITH CLARK GRAPPLE AND 14.00-24, 8 PR (G-2) TIRES.

	A	В	C	D	E	F	G	H	j	K	L	M	N	P	R	S	T	IJ
(mm)	9′ 11″ (3024)	9′ 6″ (2896)	7′ 5.5″ (2274)	1′ 4″ (406)	6' 11.5" (2121)	19' 2" (5843)	8′ 1″ (2464)	12°	5′ 6″ (1676)	8′ 8″ (2643)	10′ 4″ (3150)	11′ 5″ (3480)	20°	12°	5′ 6″ (1676)	6′ 1″ (1853)	6' 1" (1853)	7′ 11″ (2414)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE OR OBLIGATION

ASK YOUR DISTRIBUTOR ABOUT CLARK FINANCING PROG



Net usable horsepower at engine flywheel under S.A.E. standard J816 — barometric pressure of 29.38 in, hg. (74,62 cm hg),  $85^{\circ}F$  (29,4·C) and governed engine speed with fan, alternator, air cleaner and air compressor.