

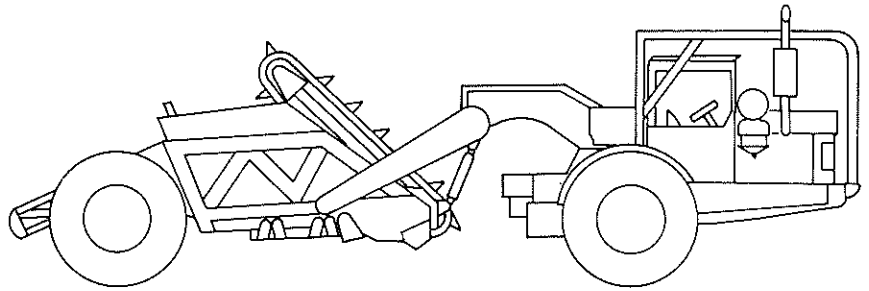
CLARK

210H

MICHIGAN

ELEVATING SCRAPER

- Complete powertrain designed and manufactured by Clark
- Cummins NT-855-C engine...300 flywheel horsepower
- Exclusive Clark Hydra-Ride suspension
- Hydrostatic steering with hydraulic follow-up
- Welded construction bowl with fixed moldboard
- Patented rolling floor with automatic strike-off...positive ejection
- Full air brakes on all wheels...manually or automatically applied emergency brake



ENGINE

Make	Cummins
Model	NT-855-C
*Maximum horsepower	335
*Flywheel horsepower	300
Governed RPM	2100
Maximum torque, ft. lbs.	930 @ 1600
(kg-m)	128,3 @ 1600
Bore and stroke, in.	5.50 x 6.00
(mm)	(139,7 x 152,4)
Number of cylinders	6
Displacement, cu. in. (litres)	855 (14)
Fuel tank capacity, gal. (litres)	180 (682)
Electrical system (alternator)	24 volt, 65 amp

*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 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 high efficiency single-stage with 1.78:1 torque multiplication ratio.

TRANSMISSION: Clark hydraulic powershift, nine speeds forward, two speeds reverse. Full power shifting with exclusive lo-lo loading speed. Travel speeds, MPH (km/hr):*

	Lo-Lo	1st	2nd	3rd	4th	5th	6th	7th	8th
Forward	1.8	3.3	4.4	6.5	8.6	12.8	16.8	25.0	33.0
	(2,9)	(5,3)	(7,1)	(10,5)	(13,8)	(20,6)	(27,0)	(40,2)	(53,1)
Reverse	—	4.4	8.6						
	—	(7,1)	(13,8)						

*Measured with 29.5-25, 28 PR (E-2) tires.

DIFFERENTIAL: Clark limited slip in front axle.

DRIVE AXLE: Heavy-duty Clark planetary design with cast steel housing.

PLANETARY DRIVES: Clark low-friction, roller bearing planetary in tractor wheels. Planetary units can be removed without removing wheels and brakes.

TIRES

Tubeless, nylon body 29.5-25, 28 PR (E-2)

Other tires available: 29.5-25, 28 PR (E-3)
29.5-25, T/34 (UE-7L) radial
29.5-25, XRB** radial

BRAKES (SAE 319b)

SERVICE: Four wheel air, shoe type.

Diameter and width (front)	20" x 7"	(508 x 178 mm)
Diameter and width (rear)	20" x 8"	(508 x 203 mm)
Total area	1237 sq. in.	(7981 cm ²)

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

PARKING: Mechanical on front axle input shaft.

SUSPENSION SYSTEM

Pump capacity @ 2000 RPM	10 GPM	(38 litres/min.)
System relief pressure	1500 PSI	(105 kg/cm ²)
Cylinder diameter (2)	6.00"	(152,4 mm)

ELEVATOR

Width	6' 10"	(2082 mm)
Length	13'1"	(3990 mm)
Number of flights	18	
Speed, forward & reverse	263 FPM	(80,2 m/min)
Drive	Hydraulic driven, gear reduction	

HYDRAULIC SYSTEM

Fluid capacity	123 gals.	(466 litres)
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Closed and pressurized system; oil supplied from sturdy plate steel reservoir. Hand hole in reservoir for easy cleaning. Main and steering systems supplied by tandem pump; elevator has separate pump. All pumps are torque converter mounted and flywheel driven.

MAIN (BOWL & EJECTOR)

Vane-type tandem pump (rear section); two spool main valve.

Pump capacity @ 2100 RPM	37 GPM	(140,1 litres/min.)
Relief pressure	2000-2100 PSI	(140-147, 2 kg/cm ²)
Bowl cylinders (2, double-acting) ..	6.00" dia.	(152,4 mm)
	24.00" stroke	(610 mm)
Ejector cylinders (2, double-acting)	6.00" dia.	(152,4 mm)
	24.00" stroke	(610 mm)

STEERING

Full hydrostatic power steering with hydraulic follow-up; 90° angle of steer, left and right.

Vane-type tandem pump (front section).

Pump capacity @ 2100 RPM	53 GPM	(201,1 litres/min.)
Relief pressure	1750-1850 PSI	(123-130 kg/cm ²)
Steer cylinders (2, double-acting) ..	6.00" dia.	(152,4 mm)
	19.75" stroke	(502 mm)
Width required for 180° turn	36' 0"	(10,97 m)

ELEVATOR

Pump capacity @ 2100 RPM	143 GPM	(542,1 litres/min.)
Relief pressure	2000-2100 PSI	(140-147 kg/cm ²)

SERVICE CAPACITIES

	U.S. Gal.	(Litres)
Engine cooling system	21.0	(79,5)
Engine crankcase	13.0	(49,2)
Torque converter & transmission	16.5	(62,4)
Front axle differential	8.5	(32,1)
Front wheel hubs (each)	3.25	(12,3)
Fuel tank	180.0	(681,3)
Hydraulic reservoir	110.0	(416,3)

BOWL DIMENSIONS

Maximum depth of cut 14"	(360 mm)
Cutting edge length 10'0"	(3050 mm)
*Cutting edge, two sections . . 1" x 12" x 30"	(25,4 mm x 304,8 mm x 759,0 mm)
Cutting edge, one section . . 1" x 17" x 60"	(25,4 mm x 432 mm x 1524 mm)

*Like sections, interchangeable and reversible.

CAPACITY

Heaped capacity, cu. yds. (m³) 23	(17,6)
Rated load, lbs. (kg) 53,000	(24 041)

WEIGHT (Approx.)

Tractor, lbs. (kg) 28,400	(12 882)
Scraper, lbs. (kg) 37,500	(17 010)
Total Shipping, lbs. (kg) 65,900	(29 892)

Axle Weights

	Empty	Loaded
Front, lbs. (kg)	42,835 (19 430)	60,640 (27 506)
Rear, lbs. (kg)	23,065 (10 462)	58,260 (26 427)
Rated Load, lbs. (kg)	53,000 (24 041)	
Gross Weight, lbs. (kg)	118,900 (53 933)	

STANDARD EQUIPMENT

Reverse Warning Alarm* (SAE J994); ROPS Canopy* (SAE J320a); Seat Belt* (SAE J386); Air Suspension Seat, adjustable; Caps, lockable (fuel, hydraulic, radiator); Cutting Edge Teeth (6); Horn; Hydra-Ride Suspension; Lights, work (4 front); Panels, Engine Compartment; Pull Hooks; Transmission Guard; Windshield and Wiper.

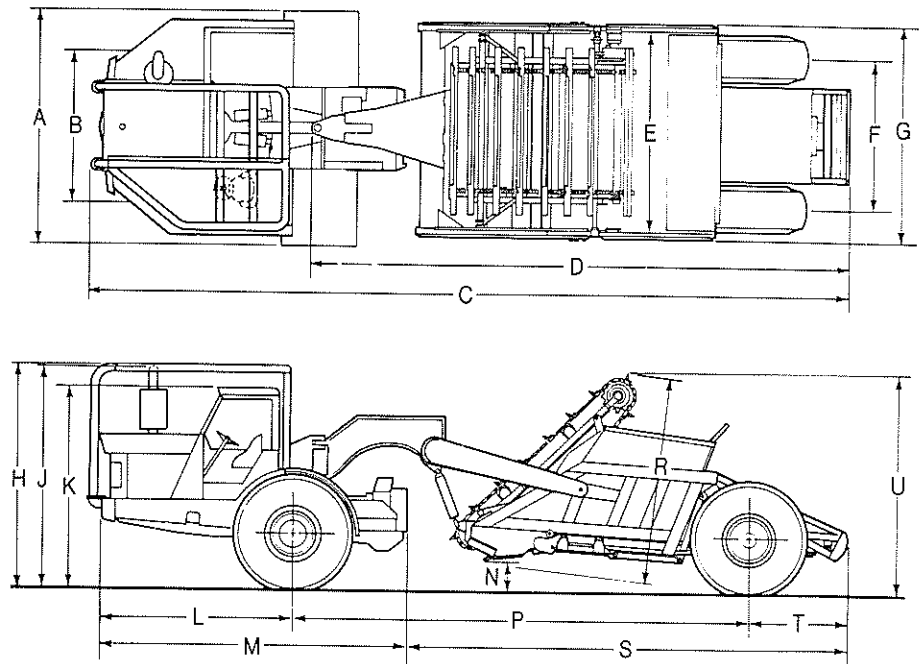
GAUGES: Engine temperature, oil pressure; voltmeter; hourmeter; air pressure; torque converter temperature.

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

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

MODEL 210H

SHOWN WITH ROPS
NOT STANDARD
OUTSIDE U.S.A. & CANADA



MACHINE DIMENSIONS (with 29.5-25 tires)

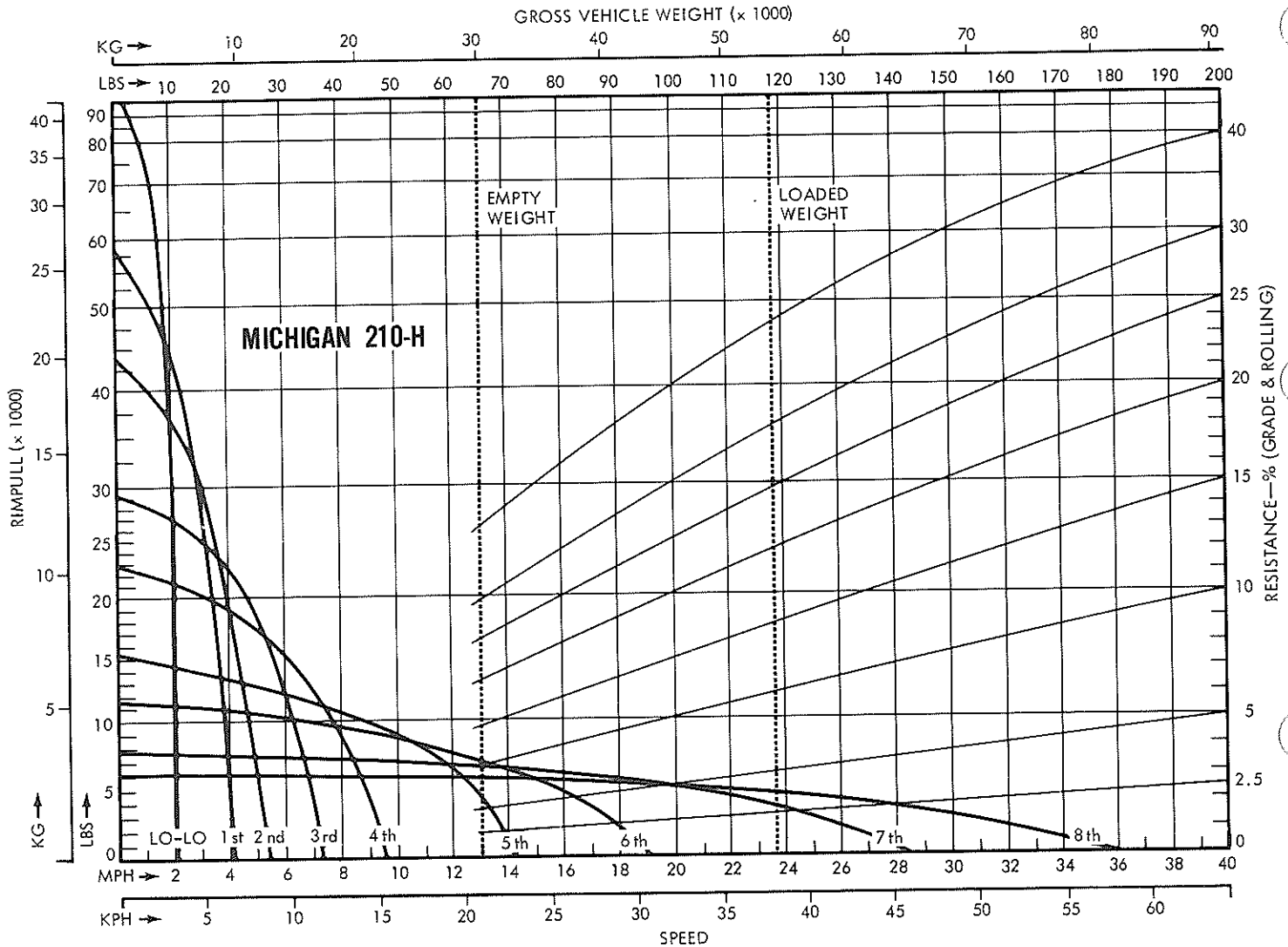
A	B	C	D	E	F	G	H	J
9' 9"	7' 7"	40' 11.5"	29' 0"	9' 10"	8' 0"	11' 6"	11' 5"	11' 4"
(2972 mm)	(2311 mm)	(12484 mm)	(8839 mm)	(2997 mm)	(2438 mm)	(3505 mm)	(3480 mm)	(3454 mm)

K	L	M	N	P	R	S	T	U
10' 10"	10' 2.5"	16' 6.5"	1' 8"	25' 3"	10' 6"	24' 5"	5' 6"	12' 4"
(3302 mm)	(3112 mm)	(5042 mm)	(508 mm)	(7696 mm)	(3200 mm)	(7442 mm)	(1076 mm)	(3759 mm)

OPTIONAL EQUIPMENT

	Lbs.	(Kg.)		Lbs.	(Kg.)
Acoustical Kit	50	(22,7)	Fenders, Rear (SAE J321a)	300	(136,1)
Air Conditioner	150	(68,0)	Heater, Defroster, Pressurizer Combination	75	(34,0)
Cab (non-ROPS with safety glass, acoustical lining)	450	(204,1)	Mirrors, Rearview	10	(4,5)
			Retarder	85	(38,6)

210-H PERFORMANCE DATA



1. Determine gross scraper weight; locate on top scale.
2. Read down to % total resistance – grade plus rolling resistance.
3. From total resistance/weight intersection point, read horizontally to highest gear curve.
4. From point on gear curve, read vertically to determine maximum speed in that gear.

NOTE: Actual performance depends on traction available and weight on drive wheels.

MATERIALS AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE OR OBLIGATION

ASK YOUR DISTRIBUTOR ABOUT CLARK FINANCING PROGRAMS

CLARK Construction Machinery Division

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(8M-BP) 1/76
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