GLARK 175C MICHIG CLARK CLARK Courtesy of Machine. Market



ENGINE

Make: Cummins Model: NT-855C	
Max. Horsepower hp (W)**	310(231) at 2100 rpm
Flywheel Horsepower hp (kW)**	279 (208) at 2100 rpm
Net Horsepower kW (PS)*	
Max. Torque Nm (lbft)**	1364(1006) at 1500 rpm
Max. Torque Nm (lbft)*	1323 (976) at 1500 rpm
Bore & Stroke m/m(in)	139.7 x 152.4 (5.50 x 6.00)
Number of cylinders	6
Displacement L (in3)	14,0(855)
Electrical system (alternator)	

*Din 70020 **SAE 816b



DRIVETRAIN

Torque converter: Clark high-efficiency industrial type; single-stage with 3.09:1 torque multiplication ratio.

Transmission: Clark countershaft type powershift, with directional clutch modulation; four speeds forward, four speeds reverse.

Travel speeds*

1st	2nd	3rd	4th
6.3	11.1	18.5	32.8 km/h
3.9	6.9	11.5	20.4 mph

^{*}Measured with 26.5 - 25 20PR (L-3) tires.

Differentials: Clark limited slip, front and rear.

Axles: Heavy-duty Clark planetary design with single-piece cast steel housing. Front axle fixed, roar axle oscillates a total of 23°. Vertical wheel travel of 427 mm (16.8 in) with all wheels remaining on ground. Planetary drives: Clark low-friction, roller bearing planetary in each wheel



TIRES

Tubeless, nylon body, loader/dozer type: 26.5 - 25, 20PR (L-3)

Other dies dvallable.	
26.5 - 25, 20PR (L-2, L-4, L-5)	26.5 - 25, XRDNA * Radial
26.5 - 25, 26PR (L-3, L-4, L-5)	26.5 - 25, XRA * Radial
29.5 - 25, 16PR (L-3)	29.5 - 25, XRA * Radial
29.5 - 25, 22PR (L-2, L-3, L-4)*	30/65R29, XRDA1 Radial
20 E 25 2000 // A)	SECTION DESCRIPTION OF A SECTION OF SECTION

*Rear axle oscillation limited to 16; vertical wheel travel of 315 mm (12.4 in).



BRAKES (SAE J1152) (ISO 3450)

Service: Four wheel air-over-hydraulic, self-adjusting caliper discs. Application of left pedal also neutralizes transmission in forward only. Secondary: Axle-by-axle system. Automatically actuated by low air pressure or manually applied through dash-mounted control; audible and visual alarm.

Parking: Mechanical on front axle input shaft.

Filtration: In-line air filter and dryer removes oil and moisture from brake

*STANDARD EQUIPMENT

INSTRUMENTS/GAUGES: Air Cleaner Restriction Indicator. Air Pressure. Engine Coolant Temperature. Engine Oil Pressure. Hourmeter. Hydraulic Fluid Level Sight-Gauge. Torque Converter Oil Temperature. Transmission Fluid Level Sight-Gauge. Voltmeter. WARNING LIGHTS/AUDIBLE ALARMS: Air Pressure. Horn. Parking

CAB, ROPS (SAE J1040) (ISO 3471): Acoustical Lining. Air Ducting, built-in. Doors, lockable with self-locking sliding glass windows. Electrical System (24V), circuit-breaker protected, prewired for optional accessories. Environmental Control; heater/defroster and pressurizer with three-speed blower fan. Floor Mats. Hand and Grab Safety Rails. Lights, interior, red and white. Safety Glass, tinted. Suspension seat, with seat belt (SAE J386). Walk-in, Walk-out feature. Windshield Washer,

front. Wipers, front and rear.

OPTIONAL EQUIPMENT

Air conditioner. Belly Guard, front frame. Belly Guard, rear frame. Bucket Teeth (8). Counterweight. Emergency Steering Kit, electric.



STEERING SYSTEM

Articulated frame; full hydraulic power steering with speed sensor. Angle of Steer: Each direction 35°; total 70°.

Pump: Tandem gear-type design, torque converter mounted; high volume at low engine rpm assures safe, responsive, steering. Rated output is 371 l/min (98 U.S. gpm) at 2100 engine rpm and 138 bar (2000 psi).

Relief Pressure: 165 bar (2400 psi).

Cylinders: Two double-acting with chrome-plated piston rods. Bore and stroke: 114.3 x 462.3 mm (4.5 x 18.2 in).



HYDRAULIC SYSTEM

Closed and pressurized power-sensing, demand-type system with a capacity of 465.6 I (123 U.S. gal.); oil supplied from sturdy plate-steel reservoir. Access hole in tank for easy cleaning; in-tank magnet provides extra protection

Boom controls: Valve has four positions: raise, hold, lower, float. Automatic kickout adjustable for any position between maximum boom

reach and full lift height.

Bucket controls: Valve has three positions: rollback, hold, dump.
Automatic bucket positioner adjustable to any desired loading angle.
Pump: Tandem gear-type design, torque converter mounted. Total pump output is 446.7 l/min (118 U.S. gpm) at 2100 engine rpm and 69 bar (1000 psi). Front and rear sections each rated at 223.3 l/min (59 U.S. gpm) at these conditions. Rear section contributes only up to approximately 124 bar (1800 psi).

Valve: Split spool with built-in pressure relief valve; actuated by remote mounted pilot valve. Mounted on front frame for easy access.

Relief Pressure: 180 bar (2600 psi)

Cylinders: Two boom and two bucket, all double-acting Boom, bore and stroke: 177.8 x 1092.2 mm (7.0 x 43.0 in) Bucket, bore and stroke: 152.4 x 599.9 mm (6.0 x 23.6 in) Filters: Full-flow 10 micron return filter (with 2 elements), located in hydraulic reservoir.



HYDRAULIC SPEEDS

	Sec.
Raising time (with load)	6.7
Dumping time (with load)	2.0
Lowering time (empty)	4.2
Total cycle	12.9



SERVICE CAPACITIES

	Litres	U.S. gal.
Cooling system	75.7	20.0
Midmount bearing	1.9	0.5
Crankcase	34.1	9.0
Torque converter & transmission	47.3	12.5
Front & rear axle differentials (each)	34.1	9.0
Front & rear wheel hubs (each)	12.3	3.25
Fuel tank	469.4	124.0
Hydraulic reservoir	389.9	103.0

ADDITIONAL STANDARD EQUIPMENT: Alternator (75A), Automatic Boom Kickout. Automatic Bucket Positioner. Brake System Air Dryer, maintenance free. Cab Access Steps and Handrails, left and right sides (SAE J185). Cast Aluminium Boom and Bucket Control Levers, console mounted. Drawbar, with pin. Hood Side Panels. Lifting Lugs. Lights, work (150 W), 4 front, 2 rear. Limited Slip Differentials, front and rear. Neutral Start Feature. Quick Connect Hydraulic Pressure Test Ports. Quick Start, engine. Rearview Mirrors, exterior. Secondary Brake System, low air pressure actuated. Service Platforms. Transmission Declutch. Transmission Modulation. Vandalism Lock, provision for Batteries, Engine Coolant, Engine Oil, Fuel, Hydraulic Oil, Torque Converter/ Transmission Oil

*Standard equipment will vary depending upon regulations and requirements for country of

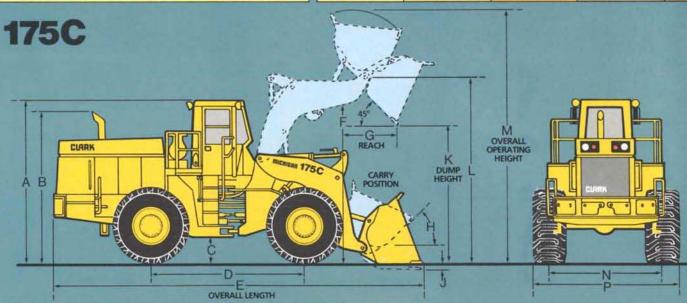
Fenders, front. Reverse Alarm (SAE J994). ROPS Canopy (SAE J1040) (ISO 3471). Three-Spool Valve, Piping and Controls.

Operating Data (with 26.5-25, 20PR (L-3) tires)

Data given below which conform to applicable standards recommended by the Society of Automotive Engineers, SAE loader ratings J732 and J742, are denoted in the text by .

Changes in standard configuration may change machine dimensions or operating data. Refer to Supplemental Operating Data.

Bucket Type	Straight Edge Rock	Spade Nose Rock	General Purpose	Material Handling	Lig
▲ Capacity, Rated (heaped)	3.8	3.8	4.2	4.6	5.0
	5.0	5.0	5.5	6.0	6.5
▲ Rated (struck)	3.2	3.1	3.6	3.9	4.2
	4.25	4.10	4.70	5.09	5.5
▲ Cutting Edge Width	3150	3150	3150	3150	31
	124.0"	124.0"	124.0"	124.0"	12
▲ Dump Height at Full Lift and 45° Discharge Angle*	3150	3010	3089	2997	29
	10′ 4.0″	9' 10.5"	10′ 1.6″	9' 10"	9'
▲ Reach at Full Lift and 45° Discharge Angle*	1232 4' 0.5"	1405 4' 7.3"	1306 4' 3.4"	1399 4' 7.1"	14
▲ Reach at 2134 mm (7') Height and 45° Discharge Angle*	1770	1867	1824	1880	19
	5' 9.7"	6' 1.5"	5' 11.8"	6' 2"	6'
▲ Overall Length	8608	8811	8710	8842	89
	28' 3"	28' 11"	28' 7"	29' 0"	29
▲ Overall Operating Height*	5856	5801	5669	5705	57
	19' 2.6"	19' 0.6"	18' 7.2"	18' 8.6"	18
▲ Clearance Circle (bucket in carry position)	14.99	14.97	15.05	15.11	15
	49' 2.5"	49' 1.5"	49' 4.5"	49' 7"	49
▲ Breakout Force	185.9 41,500	157.8 35,210	170.1 37,970	152.7 34,105	32
Effective Digging Force	290.0 65,195	288.1 64,763	289.0 64,966	286.2 64,330	63
▲ Static Tipping Load**, Straight	22,145	21,943	22,030	21,730	21
	48,821	48,376	48,567	47,906	47
▲ Full (35°) Turn	19,868 43,801	19,672 43,369	19,784 43,616	19,483 42,952	19
▲ Operating Weight**, Total	26,231 57,829	26,339 58,067	26,209 57,780	26,303 57,988	26

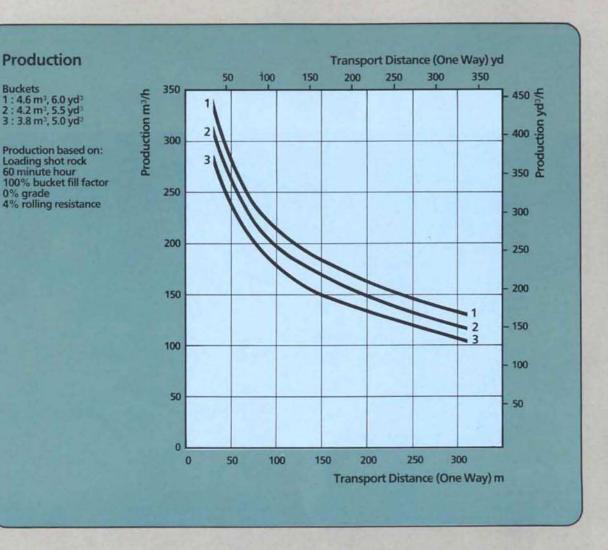


Machine Dimensions

Tire Size	Α	В	C	D	E	F	G	Н	J	K	L	M	N	P
26.5-25 (L-2, L-3)	3706 12'1.9"	3457 11'4.1"	536 1'9.1"	3429 11'3"	+	3564 11'8.3"	t	44°	97 3.8"	†	4277 14'0.4"	t	2268 7'5.3"	30 10
26.5-25 (L-4)	3741 12'3.3"	3493 11'5.5"	572 1'10.5"	3429 11'3"	†	3599 11'9.7"	†	44°	51 2.0"	†	4313 14'1.8"	t	2268 7'5.3"	30
26.5-25 (L-5)	3752 12'3.7"	3503 11'5.9"	582 1'10.9"	3429 11'3"	†	3609 11'10.1"	Ť	44°	30 1.2"	†	4323 14'2.2"	†	2268 7'5.3"	30 9'
29.5-25 (L-3)	3767 12'4.3"	3518 11'6.5"	597 1'11.5"	3429 11'3"	t	3625 11'10.7"	†	44°	36 1.4"	†	4338 14'2.8"	†	2337 7'8"	31 10
29.5-25 (L-4)	3802 12'5.7"	3553 11'7.9"	632 2'0.9"	3429 11'3"	†	3660 12'0.1"	t	44°	0	†	4374 14'4.2"	†	2337 7'8"	32 10

†See Operating Data.

terial yd3 m³ yda mm 4.0" 7.5" mm ft.in. 55).3' mm ft.in. 07 mm ft.in. 18 mm ft.in. 58 mm 10.7" ft.in. 15 8.5 ft.in. 3.8 kN 080 lbf 3,8 kN 797 lbf kg 485 366 ,239 ,414 kg lb 447 kg 305



Supplemental Operating Data

*Dimensions: change with tires other than 26.5-25 (L-3); add or subtract as applicable:

	26.5-25(L-4, L-5)	26.5-25, XRDNA* Radial	26.5-25, XRA* Radial	29.5-25(L-2, L-3)	29.5-25(L-4)
Vertical, mm (in)	+ 45.7 (1.8)	+ 35.6 (1.4)	0 (0)	+ 66.0 (2.6)	+ 96.5 (3.8)
Horizontal, mm (in)	- 38.1 (1.5)	- 27.9 (1.1)	0 (0)	- 57.1 (2.25)	- 71.1 (2.8)

**Operating Weight: is approximate and includes bucket shown plus 1315 kg (2900 lb) rear tire hydroinflation and ROPS cab. A change in tire size or the addition of either optional equipment or attachments will affect both operating weight and tipping loads. These changes are shown below for certain selected items.

Tires	With Hyd	Without Hydroinflation						
	Operating Weight Change		Full Turn Tipping Load Change		Operating Weight Change		Full Turn Tipping Load Change	
	kg	lb	kg	lb	kg	lb	kg	lb
26.5-25, 20PR(L-2)	- 262	- '589	- 240	- 534	- 2139	- 4754	- 1941	- 4314
26.5-25, 20PR(L-3) STD	0	0	0	0	- 1874	-4165	- 1701	- 3780
26.5-25, 20PR(L-4)	318	707	289	641	- 1556	- 3458	- 1413	- 3139
26.5-25, 20PR(L-5)	516	1146	468	1040	- 1359	- 3019	- 1233	- 2740
26.5-25, XRDNA* Radial	- 82	- 181	- 74	- 164	- 1956	- 4346	- 1775	- 3944
26.5-25, XRA* Radial	- 213	- 474	- 194	- 430	- 2088	- 4639	- 1896	- 4210
29.5-25, 22PR(L-2)	1390	3088	1261	2802	- 1325	- 2944	- 1202	- 2672
29.5-25, 22PR(L-3)	1636	3636	1485	3300	- 1078	- 2396	- 978	- 2174
29.5-25, 22PR(L-4)	2101	4668	1906	4236	- 614	- 1364	- 557	- 1238

††75% rear tire hydroinflation by volume

mm ft.in.

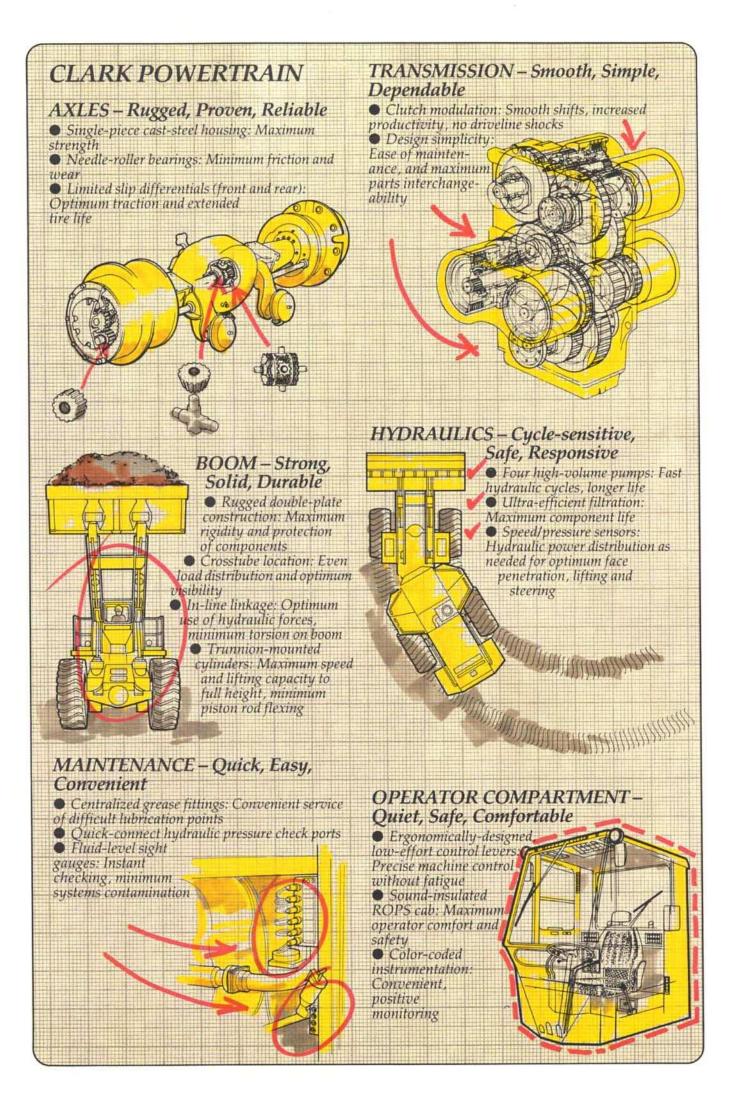
mm ft.in.

mm

53 0.2"

)51)′0.1″

28



CLARK Clark Michigan Company Quality Assurance Policy

The policy of the Clark Michigan Company is to achieve and maintain a reputation for leadership in the quality of its products and product services.

The objective of Clark Michigan Company is to produce and market construction machinery equipment and supporting services that equal or exceed its competitors' quality, and satisfy customer needs and expectations. Clark Michigan Company will also assure that all materials, parts, assemblies or sub-assemblies supplied by other Clark divisions or by outside vendors meet the set forth quality requirements.

The Clark Michigan Company is structured to develop, implement and monitor a quality assurance system covering engineering, testing, manufacturing and services to assure a quality product, supported by skilled trained personnel and high parts availability.

The quality assurance system is constantly reviewed, revised and reissued to assure that Clark Michigan Company and its dealer network continue to provide the highest standards of quality.



Illustrations of machines used in this publication may include optional equipment.

Specifications subject to change without notice or obligation



Construction Machinery Group

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