

# MTI / JCI 250M LHD

## Performance Specifications

Rated load capacity	7,500 LBS. (3,409 KG)
Standard Bucket Capacity	2.5 Yd <sup>3</sup> (1.91m <sup>3</sup> )
Semi nominal heaped	2.1 Yd <sup>3</sup> (1.60m <sup>3</sup> )
Struck	
Static tipping load, 0° articulation	21,210 LBS. (9,641 KG)
Maximum breakout force (bucket rollback)	16,870 LBS. (7,668 KG)
Speeds	See Performance Curve
Boom raise time	4.1 seconds
Boom lower time	2.6 seconds
Bucket rollback time	4.3 seconds
Bucket dump time	5.7 seconds
Operating weight empty	26,000 LBS. (11,818 KG)

**This unit is presently equipped with the Deutz engine listed below:**

**Engine**

Make/Model  
Configuration/Cooling  
HP-Mine service rating  
MSHA ventilation requirements  
MSHA Certification

Deutz D914L06  
Inline 5-cylinder/air cooled  
116 HP @ 2300 RPM  
10,000 CFM  
24D 116-0

Make/ Model  
Configuration/Cooling  
HP-Mine service rating  
MSHA Ventilation requirements  
MSHA Certification

Caterpillar/3304 PCT  
Inline 4-cylinder/Water cooled  
115 HP @ 2200 RPM  
23,000 CFM  
24/D54-7

**Torque Converter**

Clark C-273 series single stage, heavy duty industrial type.

**Transmission**

Clark 32,000 series full power shift with 4 speeds forward and reverse, and forward-reverse clutch modulation.

**Axles**

Front and rear - Clark 14 D1550 series, with spiral bevel differential, full floating axles, wheel end planetary reduction units, no-spin differential and integral oscillation trunnion.

Overall reduction ratio      25.715

**Wheels and Tires**

Demountable earthmover design rims, tube or tubeless as specified. Tires are 12.00 X 24, 16-Ply; L-5 specification, with underground mine service compound.

## Brakes

Service -- Outboard mounted and fully enclosed multiple disc type on all 4 wheels. Brakes are actuated by the hydraulic system and are cooled by axle lubricant. Front and rear systems are independent circuits and operate simultaneously.

Parking -- Single, spring applied, hydraulically released dry disc brake caliper, operating on front axle input shaft.

## Steering

Hydraulic power stick steering for bi-directional operation. Machine is center articulated, with 2 hardened steel center pins and self aligning ball bushings.

Turning angle -- 38° each direction; total of 76°

## Oscillation

Rear axle oscillation +/- 3.5° (total 7°). Axle housing pivots in 8.14" diameter aluminum - bronze bushings and thrust washers.

## Hydraulic System

Cylinders,	double acting with chrome plated piston rods, base and rod diameter.
(1) Steering cylinder,	5"/2.5" (127mm/63.5mm)
(2) Hoist cylinders,	5"/2.5" (127mm/63.5mm)
(1) Dump cylinder,	6"/2.5" (152,4mm/63.5mm)
Pump rated @ 2300 RPM	Variable displacement axial piston type with load sensing.
Main pump	39 GPM (147 LPM)
Main valve	Sectional closed center type with load sensing capabilities.
Pressure & Return filters	Full flow with 10 micron absolute and electric clog indicator.

Reservoir capacity 35 Gal. U.S. (133 L)

### Fluid Capacities

Fuel tank	35 Gal. U.S. (133 L)
Engine crankcase, less filter (Deutz)	5 Gal. U.S. (19 L)
Engine crankcase, less filter (CAT)	5 Gal. U.S. (19 L)
Transmission and torque convertor	3.5 Gal. U.S. (13.2 L)
Front & rear axles - center section	2.6 Gal. U.S. (9.9 L)
Front & rear axles - Planetaries, ea.	1.0 Gal. U.S. (3.8 L)
Engine cooling system (Caterpillar)	12.0 Gal. U.S. (45.5 L)

### Electrical System

24 VDC starting, 24 VDC instrumentation and lighting, Dual 30H size batteries.

### Operator Arrangement

Side seating for maximum visibility and bi-directional operation.

### Component Breakdown

Bucket	51" x 68" (1295mm x 1727mm)
Boom	23" x 28" ( 584mm x 711mm)
Front frame, w/fenders	55" x 60" (1397mm x 1524mm)
Rear frame, w/fenders	55" x 60" (1397mm x 1524mm)
Axles	22" x 25" ( 559mm x 635mm)
Wheels, and tires	15" x 52" ( 381mm x 1321mm)

The above dimensions are based on disassembly of the machine into the listed components, with no cutting required.

## Standard Equipment

Independent front axle/rear axle service brakes system

Spring applied, hydraulically released park brake

Tapered and sealed pivot pins and self aligning bushings on boom and bucket

Joystick control for boom & bucket functions

Joystick steering control

Spring suspension operators seat

Heavy duty seat belt

24 VDC work lights - 2 front, 2 rear

24 VDC electric starter

60 amp heavy duty, 24VDC marine type alternator

30H size, dual 12 VDC batteries

Mesabi heavy duty, double pass radiator (CAT engine only)

Dual element, dry type air cleaner

2 stage fuel filtration system (Cat engine only)

Audio-visual alarm system for engine protection

Centralized lubrication manifolds

Catalytic exhaust scrubber

Hydraulic fill filter

Transmission/Torque convertor oil cooler

Transmission/Torque convertor oil filter

Transmission pressure safety switch

125 DBA horn

Center articulation lock bar

Standard 2.5 cubic yard (1.92m<sup>3</sup>) Bucket

Instrumentation, gauges as follows:

Engine oil pressure gauge

Engine temperature gauge

Transmission clutch fluid pressure gauge

Transmission Torque converter fluid temperature gauge

Engine hourmeter

Voltmeter

Engine oil pressure/temperature warning light

Engine alarm system override button

Master battery disconnect switch

Power on switch

Starter push button

Glow plug push button

Glow plug indicator element

Brake system accumulator pressure gauges

Main pump pressure gauge

Emergency/park brake operation switch

Emergency/park brake reset button

Emergency/park brake indicator light

Horn button

Front work lights switch

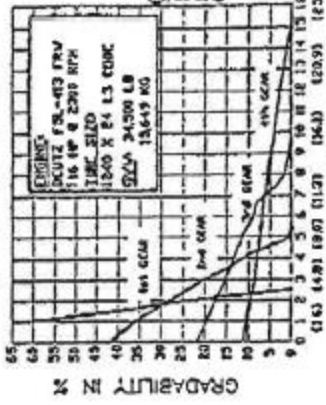
Rear work lights switch

Optional Equipment

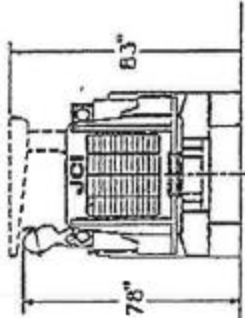
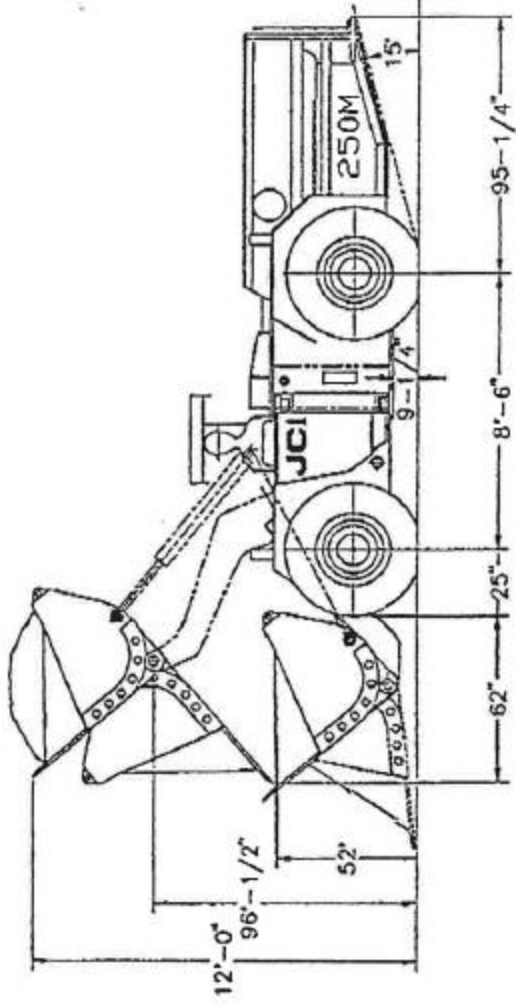
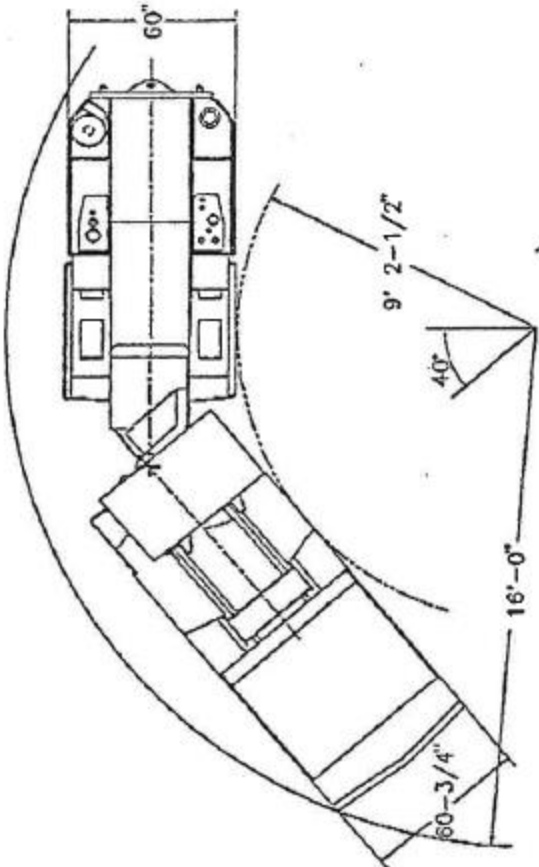
Optional engines (see engine section)  
Ejector type bucket, complete with valving  
Operator compartment protection (recommended safety option)  
Spare tire and wheel assembly  
Optional tire sizes, types (see tire section)  
Automatic lubrication system for pins and bushings  
20 lb. fire extinguisher, mounted  
Emergency steering system  
Audio-visual backup alarms  
Exhaust silencers  
Ansul fire suppression system  
Fire retardant fluid compatible hydraulic system  
Bumper and rub rails  
Radio remote control operation, with interface only or complete system  
Hydraulically adjustable canopy  
Breakdown construction as required  
Bucket teeth or alloy cutting edge

The manufacturer reserves the right to change specifications and/or design of this machine at any time without notice.

# JCI 250M LHD



SPEED IN MPH (KPH)  
 ADDITIONAL PERFORMANCE INFORMATION IS  
 CONTAINED IN SPECIFICATIONS BULLETIN

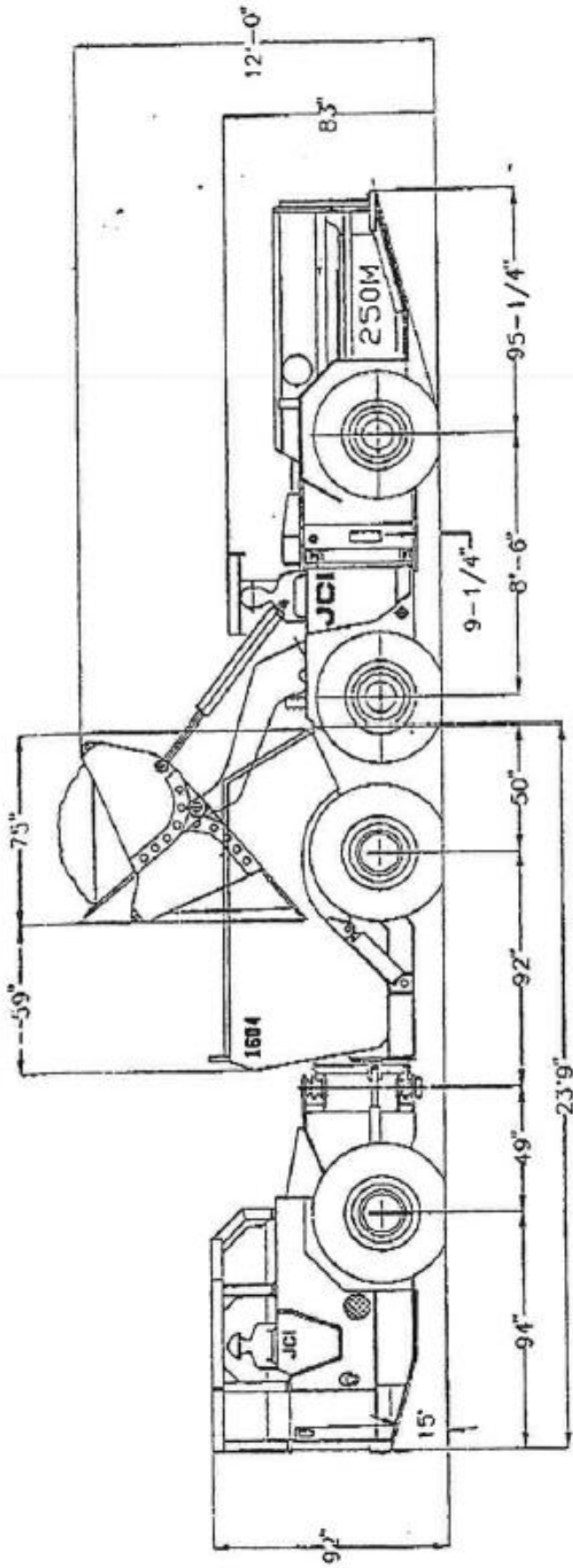


JCI 250M SQUARE BACK  
 LOAD HAUL DUMP MACHINE

JCI John Deere Inc. JOHN DEERE  
 10000 N. RICHMOND AVE. Moline, IL 61701-0001

359014-A





END LOADING  
 JCI 1604 END DUMP TRUCK  
 JCI 250M LHD

JCI		Make (USA) No.	389021
JCI		Serial Number	389021
JCI		Model	389021
JCI		Part No.	389021