



# EJC 210

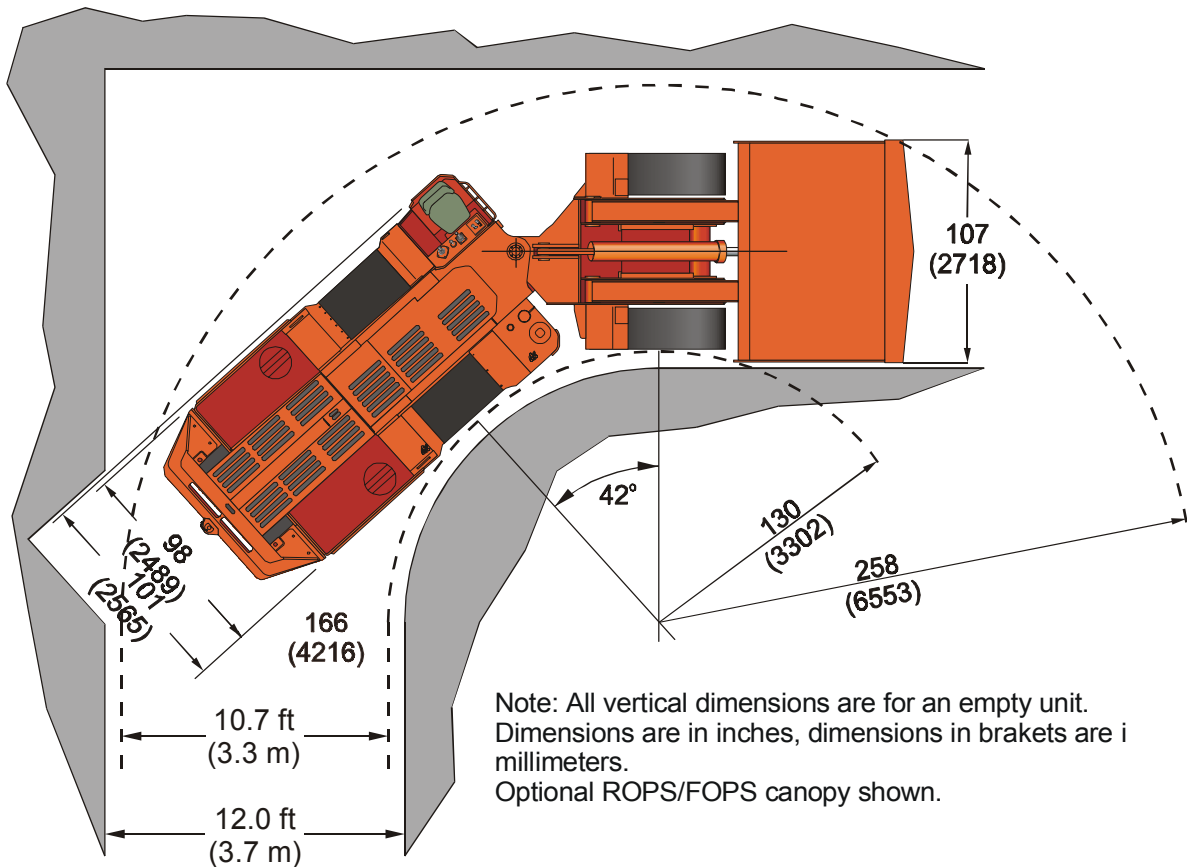
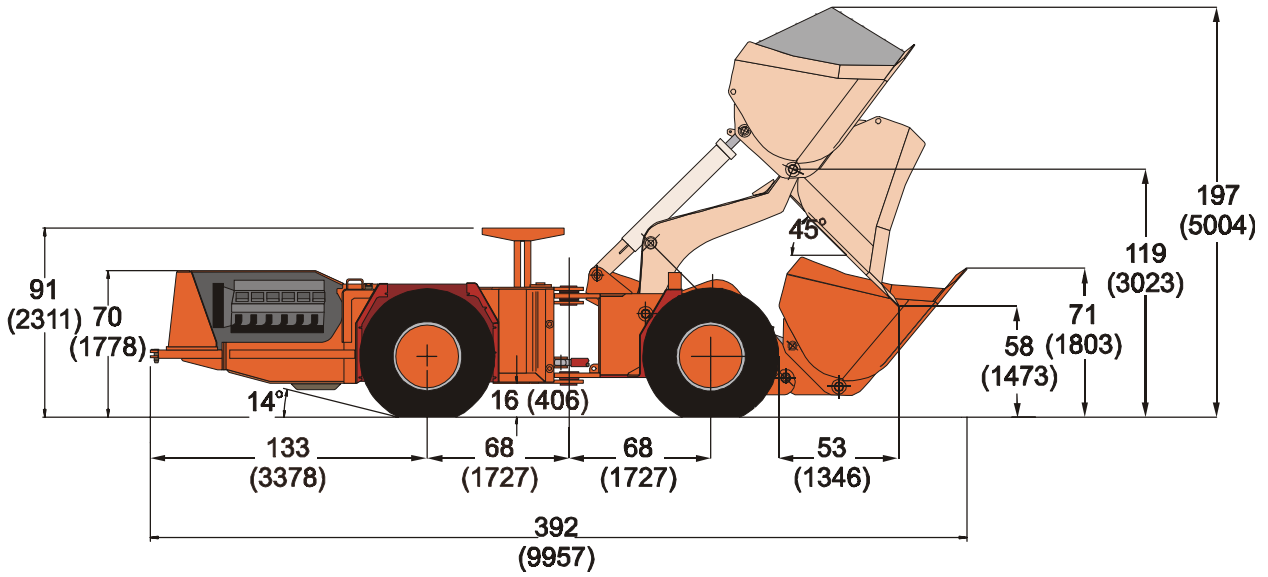
## TECHNICAL SPECIFICATION

***SUPERIOR POWER, PERFORMANCE AND PRODUCTIVITY  
CAPACITY: 21000 LBS (9500 KG)***





### Main Dimensions



Note: All vertical dimensions are for an empty unit. Dimensions are in inches, dimensions in brackets are in millimeters. Optional ROPS/FOPS canopy shown.





# Specification Sheet

**SANDVIK TAMROCK**  
**EJC Loaders Division**  
**EJC 210**

CUSTOMER: \_\_\_\_\_  
 P.O. NBR. \_\_\_\_\_  
 SHIP DATE \_\_\_\_\_

4/21/99

**STANDARD UNIT**

Detroit Diesel Series 50 DDEC engine rated at 250 hp (186kw)  
 Donaldson dry type air intake  
 ECS catalytic exhaust purifier with silencers  
 Clark modulated shift transmission  
 Clark torque converter  
 Clark axles with "Posi-Stop" brakes  
 18:00 x 25 - 28 PLY L5S tires  
 6.0 yd3 (4.6 m3) bucket with 500 BHN lip  
 Pilot operated, lever type steering control  
 Pilot operated, single lever joystick bucket control  
 Electric transmission controls  
 Electric gauges  
 24-volt DC electrical system  
 Central manual lube  
 SAE type hose fittings  
 Four (4) English parts manuals  
 4 operator and 4 service manuals

**BASE UNIT PRICE**

A1 = no impact on delivery time; A2 = delivery time on request

**OPTIONAL EQUIPMENT**

- A2 \* Deutz F10L-413FW diesel engine, 231 hp (172 kW)
- A2 \* Deutz F10L-413FW for \_\_\_\_\_ft/metres, \_\_\_\_\_Temperature
- A2 \* Deutz BF6M1013 ECP diesel engine, 250 hp (186 kW)
- A2 \* Caterpillar 3306 PCTA, 250 hp (186 kW)
- A2 \* Caterpillar 3306 DITA, 250 hp (186 kW)
- A2 \* Automatic lubrication system (Lincoln Modular)
- A2 \* Ejector bucket 5.5 yd3(4.2 m3), 107" (2718mm) wide
- A2 \* Fully enclosed operators compartment with air conditioning
  
- A1 SAE, ROPS/FOPS canopy
- A1 Fire suppression system, Ansul 8 nozzle
- A1 Auto. fire suppression system, Ansul 8 nozzle (Checkfire II)
- A1 Hand held fire extinguisher 20 lb.
- A1 Radio remote control (with receiver cover/cable and interface), Tamrock proportional
- A1 Radio remote control interface c/w electric shift
- A1 Radio remote control fire suppression (requires fire suppression system and RRC)
- A1 Back-up alarm, audible
- A1 Emergency steering system (SAE J-1511), accumulator
- A1 Hydraulic gauge panel option
- A1 Hydraulic tow hook/brake release
- A1 Spare rim & tire, standard
- A1 Spare rim
- A1 Additional spare parts manuals
- A1 Additional workshop manuals

(\*) Replaces the standard equipment





## Standard Unit

### Main dimensions

Total length	9 957 mm (392")
Width without bucket	2 565 mm (101")
Maximum width	2 718 mm (107")
Height with safety canopy	2 311 mm (91")

### Weights

Operating weight	25 084 kg (55 300 lb.)
Total loaded weight	34 609 kg (76 300 lb.)

### Axle weights without load

front axle	10 070 kg (22 200 lb.)
rear axle	15 014 kg (33 100 lb.)

### Axle weights with load

front axle	24 358 kg (53 700 lb.)
rear axle	10 251 kg (22 600 lb.)

### Capacities

Tramming capacity	9 525 kg (21 000 lb.)
Breakout force, lift	97 kN (9 910 kg) (21 850 lbf)
Break out force, tilt	143.5 kN (14 628 kg) (32 250 lb.)
Tipping load	25 174 kg (55 500 lb.)
Buckets	3.8 - 5.3 m <sup>3</sup> (5.0 - 7.0 yd <sup>3</sup> )

### Bucket motion times

Raising time	5.5 sec.
Lowering time	4.0 sec.
Tipping time	5.0 sec

### Driving speeds forward and reverse

1st gear	4.7 km/h (2.9 m.p.h.)
2nd gear	8.0 km/h (5.0 m.p.h.)
3rd gear	13.5 km/h (8.4 m.p.h.)
4th gear	23.3 km/h (14.5 m.p.h.)

### Frame

Rear and front frame	Welded steel box construction
Material	G40.21 - 50WT Cat. #3
Central hinge	Full plate, clevis type with spherical bearings
Material	G40.21 - 50WT Cat. #3
Tanks are welded to frame.	

### Standard engine

Diesel engine	Detroit Diesel Series 50 DDEC
Output	186 kW (250 Hp) @ 2 100 rpm
Torque	1058 Nm (780 lbf-ft) @ 1 350 rpm

Number of cylinders	In line, 4
Displacement	8.5 L (519 in <sup>3</sup> )
Cooling system	Liquid cooled
Combustion principle	Turbo charged, after cooled, direct injected, 4 cycle

Air filtration	Donaldson, dry type
Electric system	24 V
Exhaust system	ECS catalytic purifier with silencer

### Standard converter

Clark C 5402, single stage	Stall torque ratio: 3.14:1
	Offset Ratio: 1.0:1

### Transmission

Clark 4421	4-speed forward and reverse with modulation
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### Standard axles

Front axle	Clark 19D2748, posi-torq differential, fixed
Rear axle	Clark 19D2748 no-spin differential, oscillating $\pm 10^\circ$ .

### Standard tires

Tire size	18.00 x 25, 28 PLY L5S
Type	Bridgestone
Air pressure, front	552 kPa (5.52 bar) (80 psi)
Air pressure, rear	552 kPa (5.52 bar) (80 psi)

### Steering hydraulics

Full hydraulic power steering, centre articulated with a double acting steer cylinder, closed centre system with accumulator reserve and a pressure compensated piston pump. Equipped with pilot operated control lever.

### Turning radius (with std bucket):

Right	inner	3 302 mm (130")
	outer	6 553 mm (258")

Turning angle 42.0°

### Main components in steering system:

Hydraulic pump	Pressure compensated piston type
Control valve	Pilot operated
Steering cylinders	EJC 6.0" bore x 2.5" rod

### Pressure settings:

Main relief	13.8 MPa (138 bar) (2 000 psi)
Port relief valves	15.2 MPa (152 bar) (2 200 psi)

### Bucket hydraulics

Full hydraulic open-centre system with one gear pump. Equipped with pilot operated joystick control lever, two lift cylinders and one dump cylinder.

### Main components:

Lift cylinders	EJC 6.0" bore x 3.0" rod
Dump Cylinder	EJC 8.0" bore x 4.0" rod
Hydraulic pump	Gear pump
Control valve	Pilot operated

### Pressure Settings:

Main relief	13.8 MPa (138 bar) (2000 psi)
Bucket dump	5.5 MPa (55 bar) (800psi)
Bucket roll back	15.2 MPa (152 bar) (2200 psi)
Lift arms raise	18.6 MPa (186 bar) (2700 psi)
Lift arms lower	15.2 MPa (152 bar) (2200 psi)
Pilot control	2.1 MPa (21 bar) (300 psi)
Hydraulic oil tank capacity	Approx. 303 l (80 gal)

### Standard brakes

Service brakes are spring applied / hydraulically released, liquid cooled multi-disc brakes on all wheels, with two separate circuits for the front and rear axles. Service brakes also function as an emergency brake, when the emergency brake button is engaged.

### Main components in the brake system:

Pressure accumulator	Piston type with charging valve
Brake pedal valve	Modulated

### Electrical equipment

Alternator	24 V 70 A, min.
Batteries	2 x 12 V, 750 CCA
Starter	24 V, Heavy Duty
Driving and working lights	4 front, 4 rear

### Standard manuals (customer)

3 Spare parts manuals	English
3 Operators manual	English
3 Service manual	English

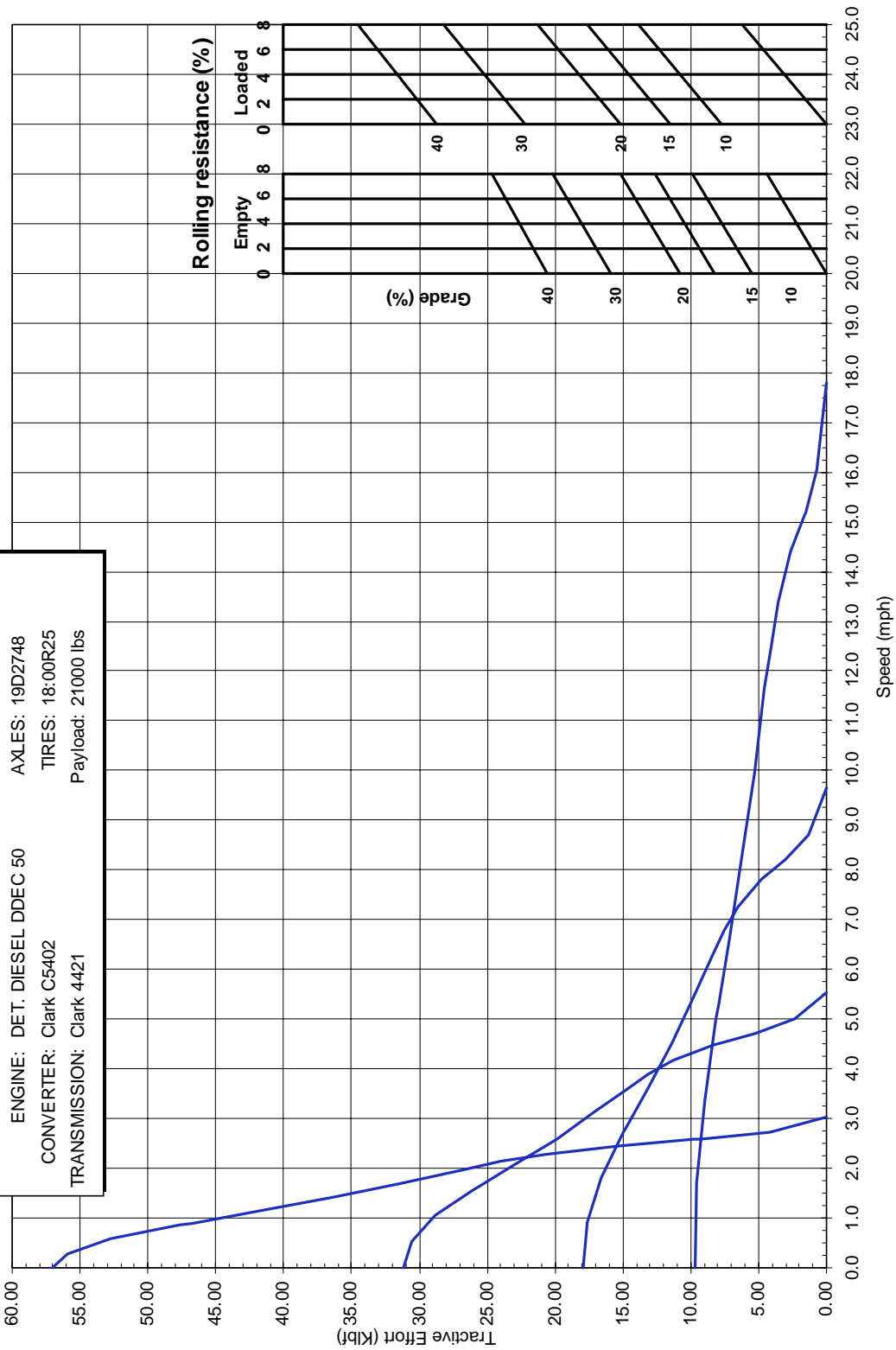
### Standard manuals (market area)

1 Spare parts manual	English
1 Operators manual	English
1 Service manual	English





### Speeds on Grade



**EJC 210 (IMPERIAL UNITS)**  
 ENGINE: DET. DIESEL DDEC 50  
 TRANSMISSION: Clark 4421  
 AXLES: 19D2748  
 TIRES: 18:00R25  
 Converter: Clark C5402  
 Payload: 21000 lbs



