



EJC 245

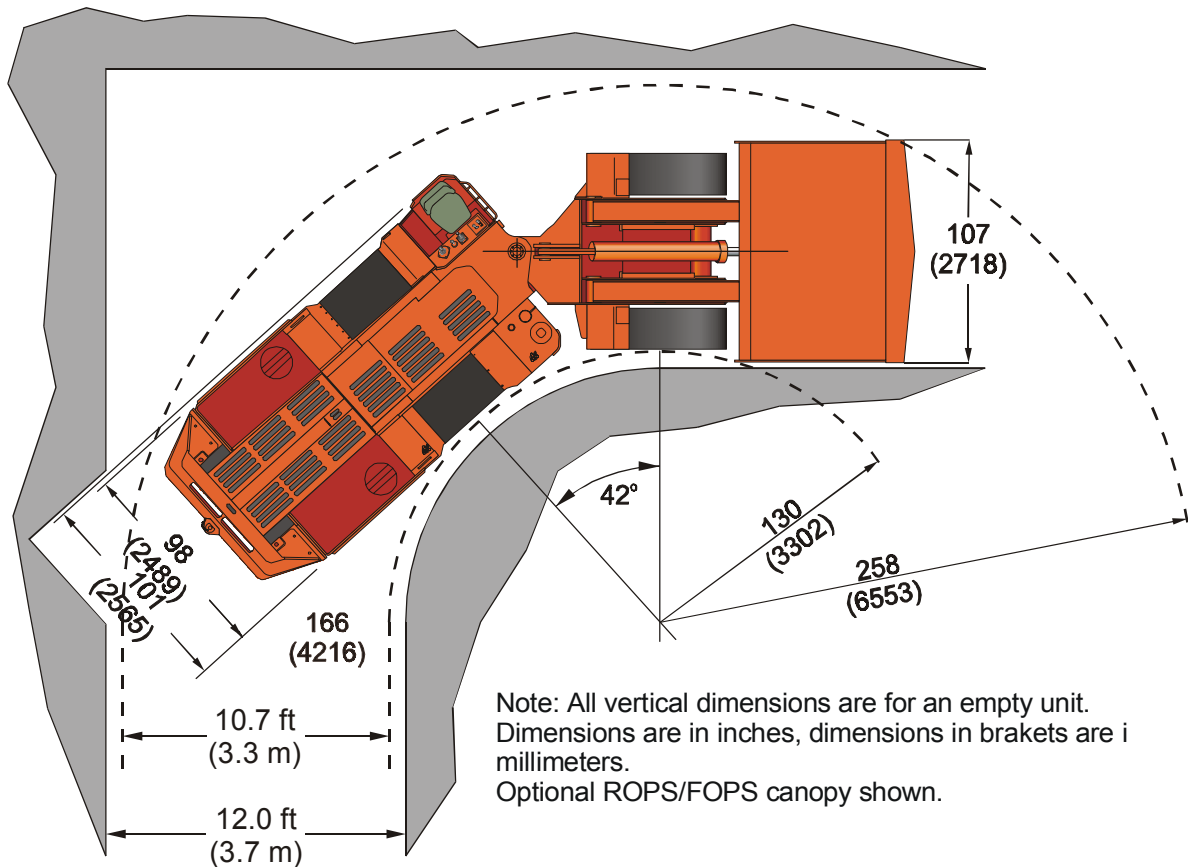
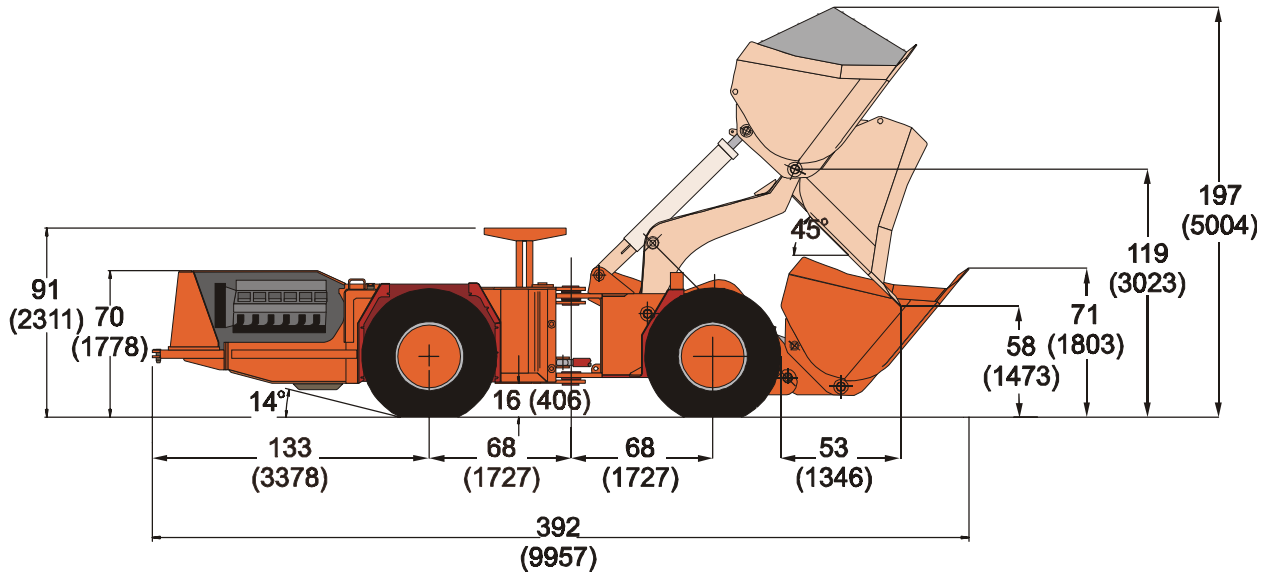
TECHNICAL SPECIFICATION

***A HIGH CAPACITY OPTION FOR HEAVY DUTY APPLICATIONS
CAPACITY: 24500 LBS (11100 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 245

CUSTOMER: _____
 P.O. NBR. _____
 SHIP DATE _____

4/21/99

STANDARD UNIT

Detroit Diesel Series 50 DDEC engine rated at 275 hp (205 kW)
 Donaldson dry type air intake
 ECS catalytic exhaust purifier with silencers
 Clark modulated shift transmission
 Clark torque converter
 Rockwell 5225 axles with spring app. hyd. rel. brakes
 18:00X25 -32 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 * Caterpillar 3306 PCTA, 270 hp (201 kW)
- A3 * Caterpillar 3306 DITA, 270 hp (201 kW)
- A2 * Altitude BF12L-413FWC for _____ft/metres, _____Temperature
- A2 * Automatic lubrication system (Lincoln Modular)
- A2 * Ejector bucket 6.0 yd3(4.6 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	25 991 kg (57 300 lb.)
Total loaded weight	37 104 kg (81 800 lb.)

Axle weights without load

front axle	10 523 kg (23 200 lb.)
rear axle	15 498 kg (34 100 lb.)

Axle weights with load

front axle	25 859 kg (57 010 lb.)
rear axle	11 204 kg (24 790 lb.)

Capacities

Tramming capacity	11 110 kg (24 500 lb.)
Break out force, lift	97 kN (9 910 kg) (21 850 lbf)
Break out force, tilt	168 kN (17 123 kg) (37 750 lb.)
Tipping load	25 628 kg (56 500 lb.)
Buckets	3.8 - 5.3 m ³ (5.0 - 7.0 yd ³)

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	205 kW (275 Hp) @ 2 100 rpm
Torque	1186 Nm (875 lbf-ft) @ 1 350 rpm
Number of cylinders	In line, 4
Displacement	8.5 L (519 in ³)
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 5502, 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	Rockwell 5225, no-spin differential, fixed
Rear axle	Rockwell 5225 no-spin differential, oscillating ± 10°.

Standard tires

Tire size	18.00 x 25, 32 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 comp. piston pump
Control valve	Pilot operated
Steering cylinders	EJC 6.0" bore x 2.5" rod (152 mm x 64 mm)

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 (152 mm x 76 mm)
Dump Cylinder	EJC 9.0" bore x 5.0" rod (229 mm x 127 mm)
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, 950 CCA
Starter	24 V, Heavy Duty
Driving and working lights	4pcs front, 4pcs rear

Standard manuals (customer)

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

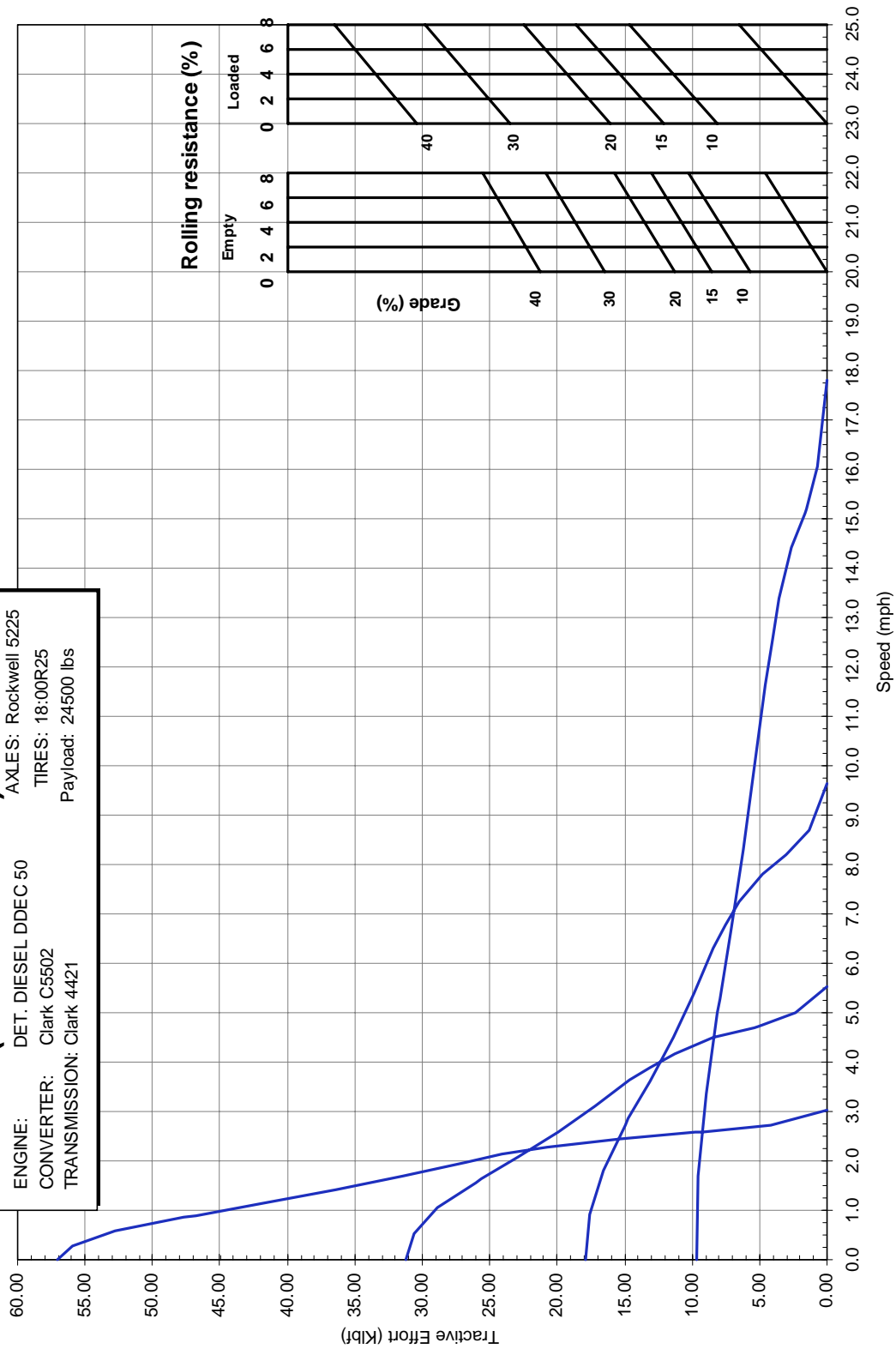
Standard manuals (market area)

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





Speeds on Grade



EJC 245 (IMPERIAL UNITS)
 ENGINE: DET. DIESEL DDEC 50
 CONVERTER: Clark C5502
 TRANSMISSION: Clark 4421
 AXLES: Rockwell 5225
 TIRES: 18:00R25
 Payload: 24500 lbs



