



EJC 20

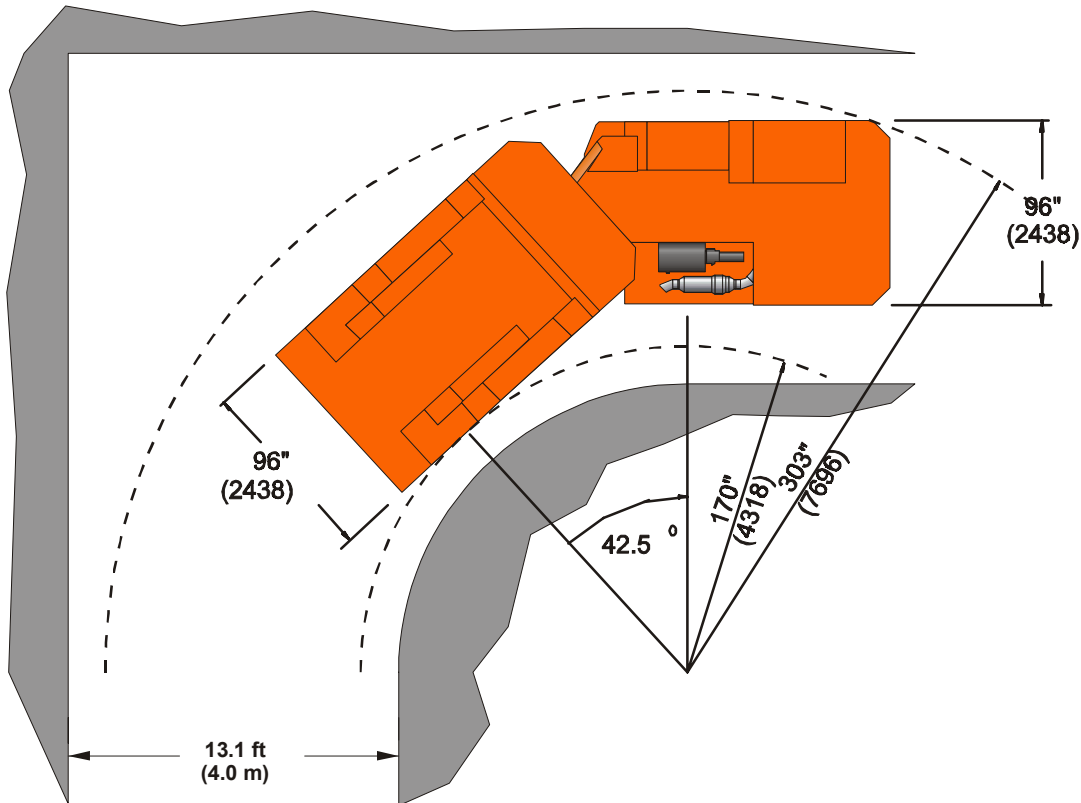
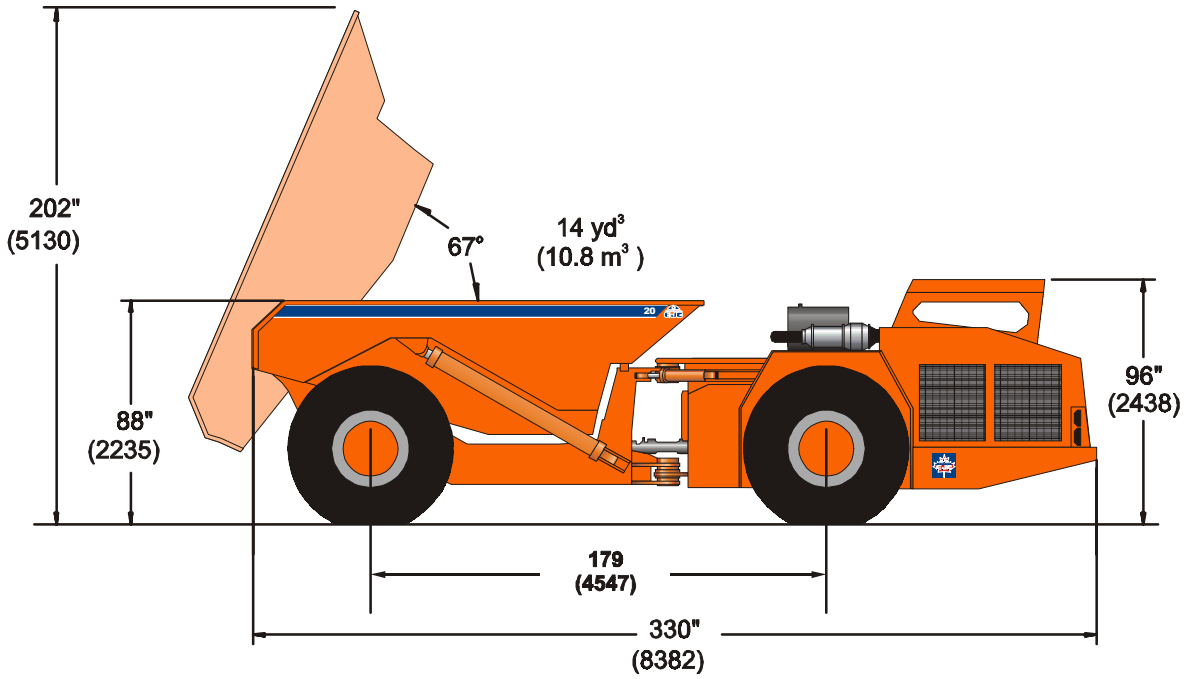
TECHNICAL SPECIFICATION

***A MID-SIZE TRUCK OFFERING NEW PRODUCTION
POSSIBILITIES
CAPACITY: 22 SHORT TONS (20 TONNES)***





Main Dimensions



Vertical dimensions are based on a non-loaded condition. Subtract 1.5" (38 mm) for loaded.
 Optional enclosed operators cabin shown.





Specification Sheet

SANDVIK TAMROCK
EJC Loaders Division
EJC 20

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

4/21/99

STANDARD UNIT

Detroit Diesel Series 50 diesel engine, 275 HP (205 kW)
 Donaldson dry type air cleaner
 ECS catalytic exhaust purifier with silencer
 Clark transmission
 Clark torque converter with manual lock-up
 Clark axles with "Posi-stop" liquid cooled brakes
 18.00R25 Bridgestone tires
 14.0 yd3 (10.8 m3) SAE rated dump box
 Forward facing open operator's compartment
 Wheel type steering control
 Pilot operated lever type dump box control
 Electric transmission controls
 Central hydraulic pressure test points
 Electric gauges
 Back-up alarm, audible
 24-volt DC electrical system
 Central manual lube
 SAE type hose fittings (JIC)
 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 *Side seated operator with stick steering
- A2 * Enclosed forward facing operator's cab with A/C
- A2 * Ejector box with hydraulic tailgate
- A1 * Automatic lubrication system

- A1 Operator's safety canopy
- A2 Fire suppression system, Ansul 6 nozzle
- A2 Automatic fire suppression system, Ansul 6 nozzle (Checkfire II)
- A1 Electronic Display Module (Detroit Series 50)
- A1 HTI Insulation on turbo/manifold (Detroit Series 50)
- A2 Emergency steering system (EC regulations)
- A1 Jacobsen exhaust brake (Detroit Series 50)
- A2 Hydraulically operated tailgate
- A1 Spare rim & tire, standard (18.00R25)
- A1 Spare rim
- A1 Additional parts manuals
- A1 Additional service manuals

(*) Replaces the standard equipment





Standard Unit

Main dimensions

Total length	8 382 mm (330")
Total width	2 438 mm (96")
Height with safety canopy	2 438 mm (96")
Height of dump box	2 235 mm (88")
Dump Height	5 130 mm (202")

Weights

Operating weight	19 051 kg (42 000 lb.)
Total loaded weight	39 010 kg (86 000 lb.)
Shipping weight	18 824 kg (41 500 lb.)

Axle weights without load

front axle	13 381 kg (29 500 lb.)
rear axle	5 670 kg (12 500 lb.)

Axle weights with load

front axle	18 779 kg (41 400 lb.)
rear axle	20 231 kg (44 600 lb.)

Capacities

Payload	20 000 kg (44 000 lb.)
Dump box volume (SAE)	10.0 - 11.5 m ³ (13 - 15 yd ³)

Dump box motion times

Discharging time	14 sec.
Dumping angle	67 °

Driving speeds forward and reverse (Loaded)

1st gear	4.8 km/h (3.0 m.p.h.)
2nd gear	8.8 km/h (5.5 m.p.h.)
3rd gear	15.4 km/h (9.6 m.p.h.)
4th gear	28.0 km/h (17.5 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

Dump box construction

Construction	Welded steel box construction
Material	Hardox 400 BHN

Standard Engine

Diesel engine	Detroit Diesel Series 50
Output	207 kW (275 HP) @ 2100 RPM
Torque	1186Nm (875 lb.ft.) @ 1350 RPM

Number of cylinders	In line 4
Displacement	8.5 litres (519 in3)
Cooling system	Liquid Cooled
Combustion principle	Direct injected, turbo charged, after cooled
Air filtration	Donaldson, dry type
Electric system	24 V
Exhaust system	Catalytic purifier with silencer

Torque Converter

Clark CL5502	Single stage,
3.09 torque multiplication ratio,	
0.895:1 offset ratio	

Transmission

Clark 4422	4-speed forward and reverse
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Standard axles

Front axle	Clark 19D2748, standard differential, oscillating $\pm 7^\circ$.
Rear axle	Clark 19D2748, standard differential, fixed.

Standard tires

Tire size	18:00 R25
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Type	Bridgestone VEL E3**
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 double acting steering cylinders. Open centre system with a gear pump and orbitrol steering wheel control

Turning radius:

Right	inner	4 318 mm (170 ")
	outer	7 696 mm (303 ")
Turning angle		42 °

Main components in steering system:

Hydraulic pump	Gear pump
Control valve	Pilot operated
Steering cylinders	100 mm bore X 51 mm rod (3.94" X 2.01")

Pressure settings:

Main relief	15.8 MPa (158 bar) (2 300 psi)
Port relief valves	17.9 MPa (179 bar) (2 600 psi)

Dump box hydraulics

Full hydraulic open-centre system with one gear pump. Oil flows to the dump box hydraulic system from the pump when the steering system is not in use. Pilot operated lever dump box control.

Main components:

Dump cylinders (2)	Double acting 125 mm bore X 90 mm rod (4.92" X 3.54")
Hydraulic pump	Gear pump
Control valve	Pilot operated

Pressure Settings:

Main relief	17.2 MPa (172 bar) (2 500 psi)
Port reliefs	18.6 MPa (186 bar) (2 700psi)
Hydraulic oil tank capacity	Approx. 212 l (56 gal)

Standard brakes

Service brakes are spring applied/hydraulically released, liquid cooled (LCB) multi-disc brakes on all wheels. Service brakes also function as an emergency brake, when the emergency brake hand valve is on.

Main components in the brake system:

Pressure accumulators	Piston type with charging valve
Brake pedal valve	Modulated

Electrical equipment

Alternator	24V 70A, min
Batteries	2 x 12 V, 950 CCA
Starter	24 V, Heavy Duty
Driving and working lights	4pcs front, 2pcs rear

Standard manuals (customer)

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

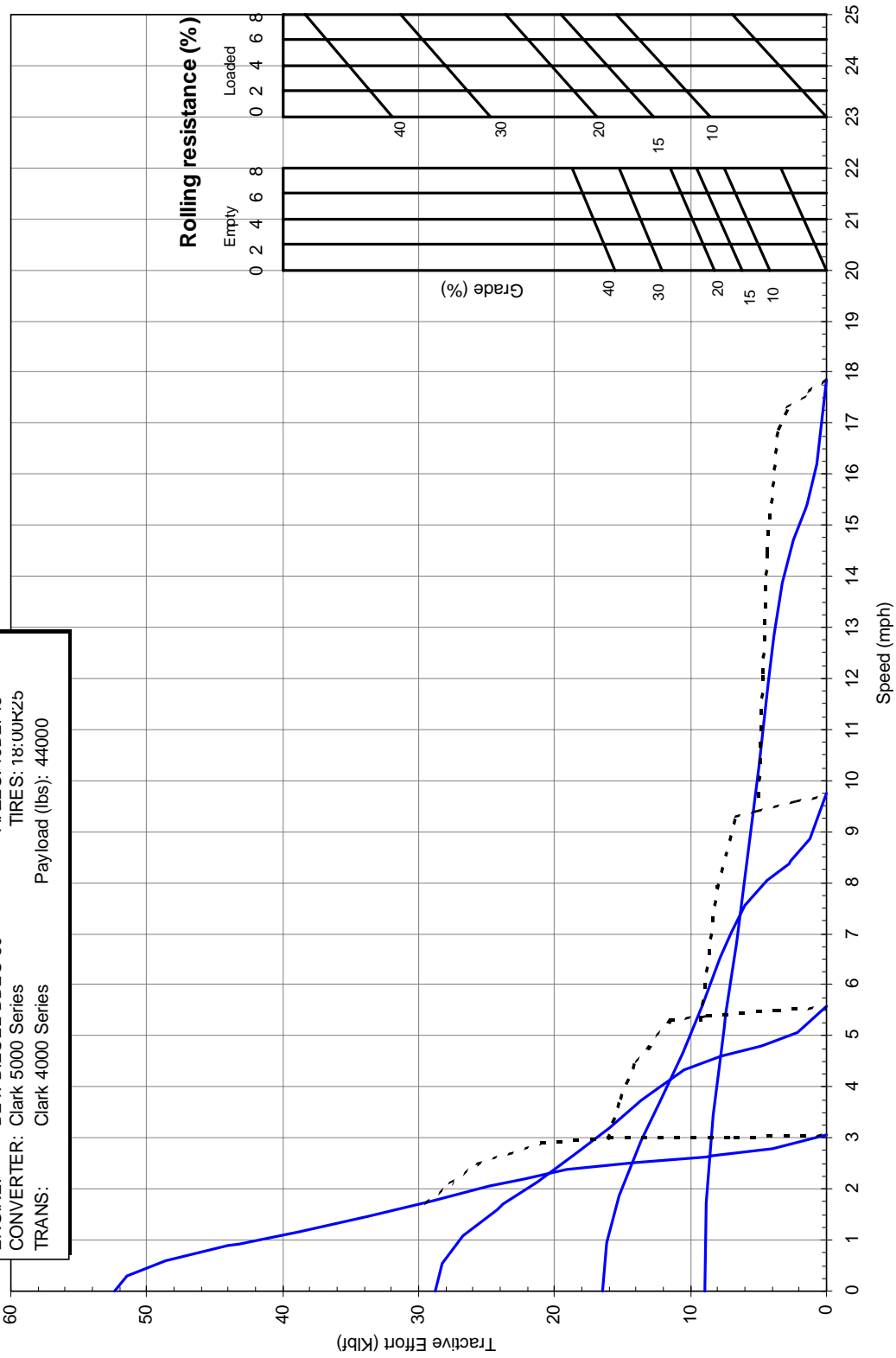
Standard manuals (market area)

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





Speeds on Grade



EJC 20 (Imperial units)
 ENGINE: DET. DIESEL DDEC 50
 CONVERTER: Clark 5000 Series
 TRANS: Clark 4000 Series
 AXLES: 19D2748
 TIRES: 18:UUR2b
 Payload (lbs): 44000



