



EJC 433

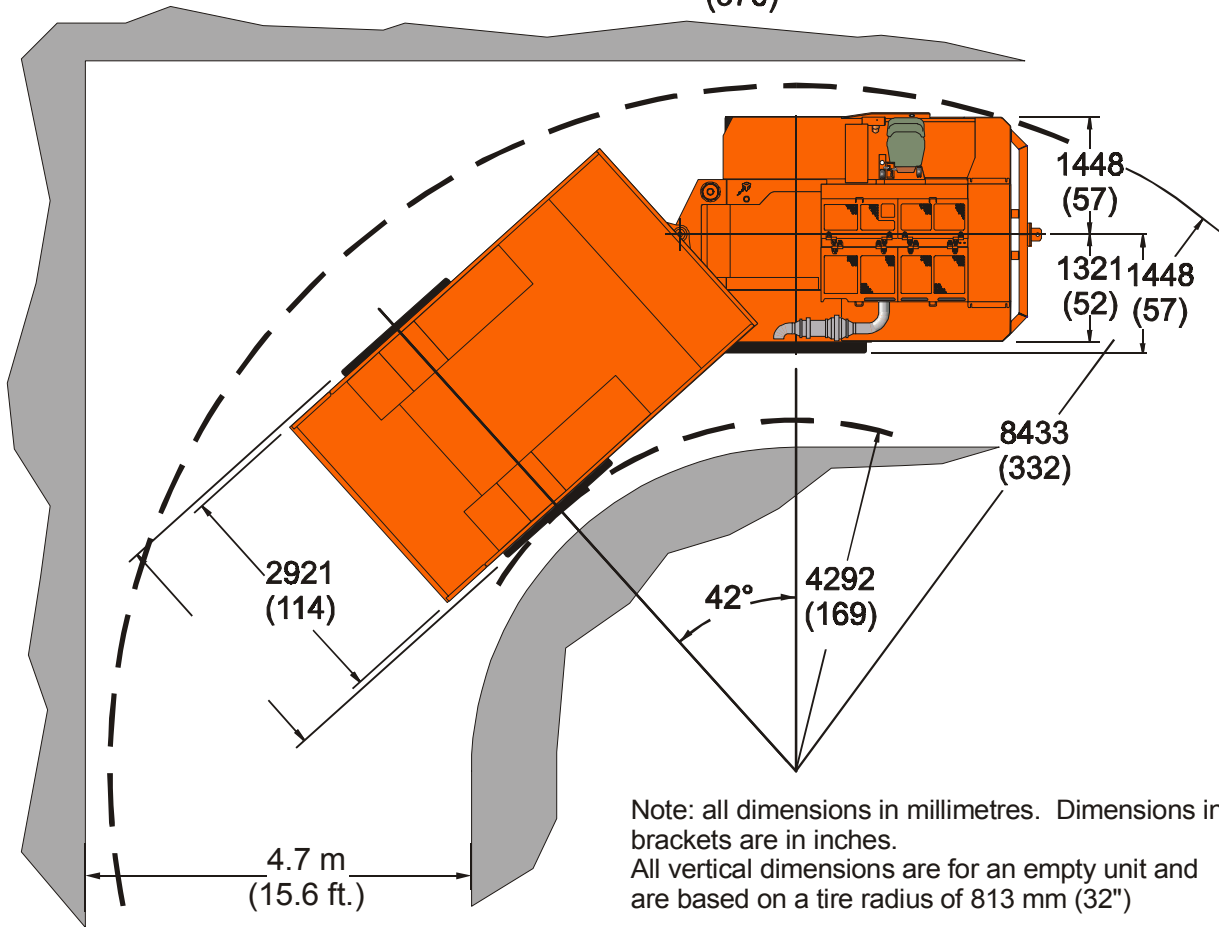
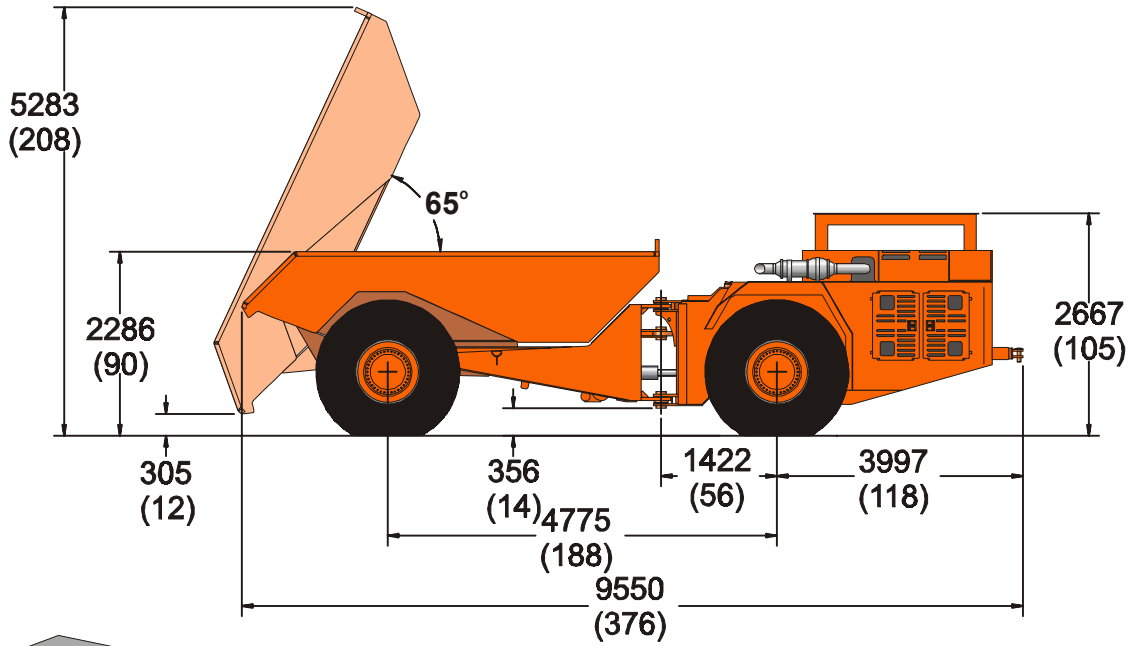
TECHNICAL SPECIFICATION

***A HIGH CAPACITY OPTION FOR HEAVY MATERIAL HAULAGE
CAPACITY: 33 SHORT TONS (30 TONNES)***





Main Dimensions



Note: all dimensions in millimetres. Dimensions in brackets are in inches.
 All vertical dimensions are for an empty unit and are based on a tire radius of 813 mm (32")





Specification Sheet

SANDVIK TAMROCK
EJC Loaders Division
EJC 433

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

STANDARD UNIT

Detroit Diesel Series 60, 325 hp (242 kw)
 Donaldson dry type air cleaner
 ECS catalytic exhaust purifier with silencer
 Clark transmission
 Clark torque converter
 Clark axles with "Posi-Stop" brakes
 26.5R 25 Michelin XKA** tires
 20.0 yd³ (15.3 m³) SAE rated dump box
 Pilot operated stick steering control
 Pilot operated dump box control
 Electric transmission controls
 Central hydraulic pressure test points
 Electric gauges
 24-volt DC electrical system
 Central manual lube
 Back-up alarm, audible
 SAE (JIC 37° flare) 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

- | | |
|--------------------------|---|
| <input type="checkbox"/> | A2 * Caterpillar 3406 PCTA, 325 hp (242 kw) |
| <input type="checkbox"/> | A2 * Deutz BF12L-413FWC, 325 hp (242 kw) |
| <input type="checkbox"/> | A2 * Deutz BF6M-1015ECP, 325 hp (242 kw) |
| <input type="checkbox"/> | A1 * Automatic lubrication system (Lincoln Modular) |
| <input type="checkbox"/> | A1 * Torque converter lockup with tach. |
| <input type="checkbox"/> | A1 * 17.5 yd ³ (13.4m ³) SAE box |
| <input type="checkbox"/> | A1 * 24.0 yd ³ (18.3m ³) SAE box |
| <input type="checkbox"/> | A1 Split dump box rework |
| <input type="checkbox"/> | A1 SAE ROPS canopy |
| <input type="checkbox"/> | A1 Fire suppression system, Ansul 8 nozzle |
| <input type="checkbox"/> | A1 Ansul fire suppression system, Ansul 8 nozzle (Checkfire II) |
| <input type="checkbox"/> | A1 Hand held fire extinguisher 20 lb |
| <input type="checkbox"/> | A1 Hand held fire extinguisher 10 lb |
| <input type="checkbox"/> | A2 Enclosed operator's cab with A/C (solid mounts) |
| <input type="checkbox"/> | A1 Abrasion resistant box liners (1/2"- BHN 400 plate) |
| <input type="checkbox"/> | A1 Emergency steering system (SAE J-1511), electric |
| <input type="checkbox"/> | A1 Spare rim & tire, standard (26.5R 25) |
| <input type="checkbox"/> | A1 Spare rim |
| <input type="checkbox"/> | A1 Additional spare parts manuals |
| <input type="checkbox"/> | A1 Additional workshop manuals |

(*) Replaces the standard equipment





Standard Unit

Main dimensions

Total length	9 550 mm (376")
Total width	3073 mm (121")
Height with safety canopy	2 667 mm (105")
Height of dump box	2 286 mm (90")
Dump Height	5 283 mm (208")

Weights

Operating weight	25 265kg (55 700 lb.)
Total loaded weight	55 202 kg (121 700 lb.)
Shipping weight	24 857 kg (54 800 lb.)

Axle weights without load

front axle	16 397 kg (36 150 lb.)
rear axle	8 868 kg (19 550 lb.)

Axle weights with load

front axle	24 426 kg (53 850 lb.)
rear axle	30 776 kg (67 850 lb.)

Capacities

Payload	29 937 kg (66 000 lb.)
Dump box volume (SAE)	13.4 - 18.3 m ³ (17.5 - 24.0 yd ³)

Dump box motion times

Discharging time	17 sec.
Dumping angle	65 °

Driving speeds forward and reverse (Loaded)

1st gear	5.3 km/h (3.3 m.p.h.)
2nd gear	9.7 km/h (6.0 m.p.h.)
3rd gear	16.9 km/h (10.5 m.p.h.)
4th gear	29.3 km/h (18.2 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

Standard Engine

Diesel engine	Detroit Diesel Series 60
Output	242 kW (325 HP) @2100 RPM
Torque	1424 Nm (1050 ft.lb.) @1350 RPM

Number of cylinders	In line 6
Displacement	11.1 litres (667 in ³)
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 C8612	Single stage,
3.05 torque multiplication ratio,	
0.895:1 offset ratio	

Transmission

Clark 5421	4-speed forward and reverse
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Standard axles

Front axle	Clark 19D4354, standard differential, oscillating 16° total.
Rear axle	Clark 21D4354, standard differential, fixed.

Standard tires

Tire size	26.5 R25
Type	Michelin XKA**
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 cylinder. Open centre system with a gear pump and pilot operated stick steer.

Turning radius:

Right	inner	4292 mm (169 ")
	outer	8433 mm (332 ")
Turning angle		42.0 °

Main components in steering system:

Hydraulic pump	Gear pump
Control valve	Pilot operated
Steering cylinder	127 mm bore X 64 mm rod (5.0" X 2.5")

Pressure settings:

Main relief	17.2 MPa (172 bar) (2500 psi)
Port relief valves	18.6 MPa (186 bar) (2200 psi)

Dump box hydraulics

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

Main components:

Dump cylinders (2)	Commercial 2-stage telescopic 184/152 mm bores (7.25/6.0")
Hydraulic pump	Gear pump
Control valve	Pilot operated

Pressure Settings:

Main relief up	17.2 MPa (172 bar) (2500 psi)
Main relief down	5.5 Mpa (55 bar) (800 psi)
Port relief (dump)	17.9 MPa (179 bar) (2600 psi)
Hydraulic oil tank capacity	Appro. 283 litre (75 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 (region)

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





Speeds on Grade

