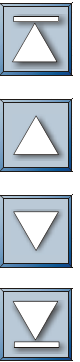




EJC 533

Technical Specification

Payload: 33 tons (30 tonnes)
Dump Box Volume: 24.0 yd³ (18.3 m³)



EJC Mining Equipment

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Tel.: (905) 632-4940



Revision Date: 9/3/05

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Standard Unit Specifications

General Information

Main Dimensions

Total length	9804 mm	386 in
Total width	3099 mm	122 in
Height with safety canopy	2743 mm	108 in
Height of dump box	2438 mm	96 in
Dump Height	5207 mm	205 in

Operating Weights

Total operating weight	26218 kg	57800 lb.
Front axle	17383 kg	38324 lb.
Rear axle	9243 kg	19476 lb.

Loaded Weights

Total loaded weight	56155 kg	123800 lb.
Front axle	25412 kg	56024 lb.
Rear axle	30743 kg	67776 lb.

Capacities

Payload	30 tonnes	33 tons
Dump Box Volume	18.3 m ³	24.0 yd ³

Dump Box Motion Times

Discharging time	17 sec.
Dumping angle	65 °

Driving Speeds Forward and Reverse (Loaded)

1st gear	7.0 km/h	4.3 m.p.h.
2nd gear	12.6 km/h	7.8 m.p.h.
3rd gear	22.2 km/h	13.8 m.p.h.
4th gear	40.0 km/h	24.9 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

Power Train

Engine

Diesel engine	Detroit Diesel Series 60	
Output	298 kW (400 HP) @2100 RPM	
Torque	1898 Nm (1400 ft.lb.) @1200 RPM	
Number of cylinders	In line 6	
Displacement	12.7 litres (778 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	
Fuel tank capacity	333 l	88 US gal.

Converter

Dana SOH CL8652	Single stage, 0.895:1 offset ratio
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Transmission

Dana SOH 6422 with electric shift	4-speed forward and reverse
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Axles

Front axle	Dana SOH 19D3847, standard differential, oscillating 10° total.
Rear axle	Dana SOH 21D3847, standard differential, fixed.

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)



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Systems

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

Inner	4293 mm (169 ")
Outer	8382 mm (330 ")
Turning angle	42.0 °

Main Components

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	2700 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)	2-stage telescopic, 184/152 mm bores (7.25/6.0")
Hydraulic pump	Gear pump
Control valve	Pilot operated

Pressure Settings

Main relief	17.2 MPa	172 bar	2500 psi
Port relief (dump)	17.9 MPa	179 bar	2600 psi
Hydraulic oil tank capacity	283 l	75 US 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 system is engaged.

Main Components

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

Other Standard Equipment

- Central hydraulic pressure test points
- Central manual lubrication system
- Back-up alarm, audible
- SAE type hose fittings

Manuals

All manuals are delivered on CD-ROM in Adobe Acrobat (PDF) format.

Distribution

Manual Type	Customer	Market Area
Spare parts manuals	3 Copies	1 Copy
Operator's manual	3 Copies	1 Copy
Service manual	3 Copies	1 Copy

Optional Equipment Specifications

Available Alternative Equipment

Automatic Lubrication	Lincoln modular
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Alternative Dump Box Options

SAE dump box	13.4 m ³	17.5 yd ³
SAE dump box	15.3 m ³	20.0 yd ³
Snub Nose box with tail gate - 4.5 m (15 ft.) dump height	17.6 m ³	23.0 yd ³

Available Add-On Options

Dump box	Split dump box rework	
	Abrasion resistant box liners	
Operator's compartment	SAE ROPS canopy	
	Enclosed operator's cab with A/C (solid mounts)	
Fire suppression systems	Manual - Ansul 8 nozzles, 2 tanks	
	Automatic (Checkfire II) - Ansul 8 nozzles, 2 tanks	
Hand held fire extinguishers	4.5 kg	10 lb.
	9.1 kg	20 lb.
Emergency steering system	SAE J-1511, electric	

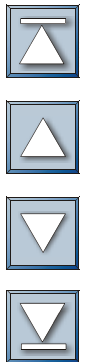
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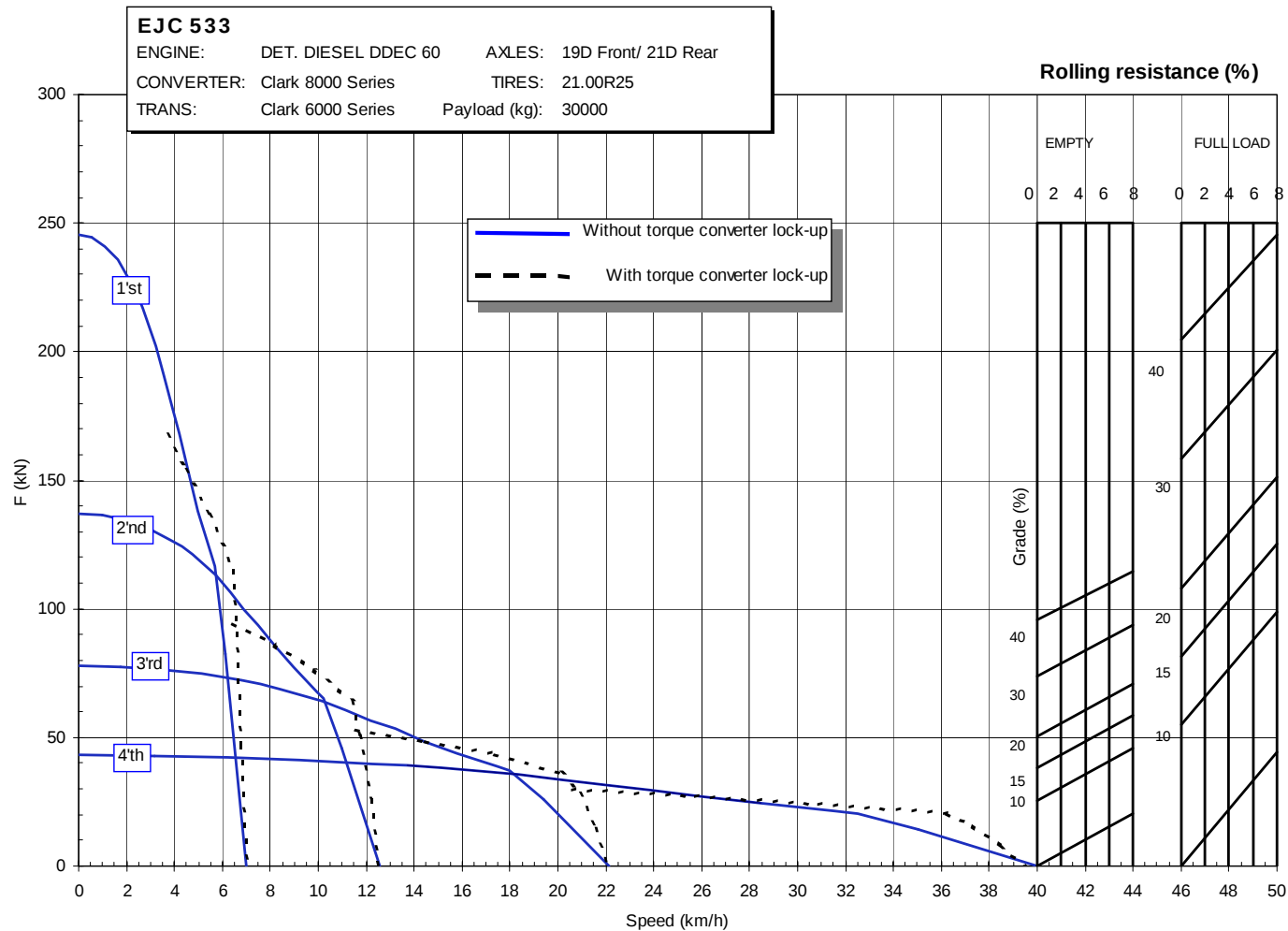
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Tractive Effort Curve (Metric Units)



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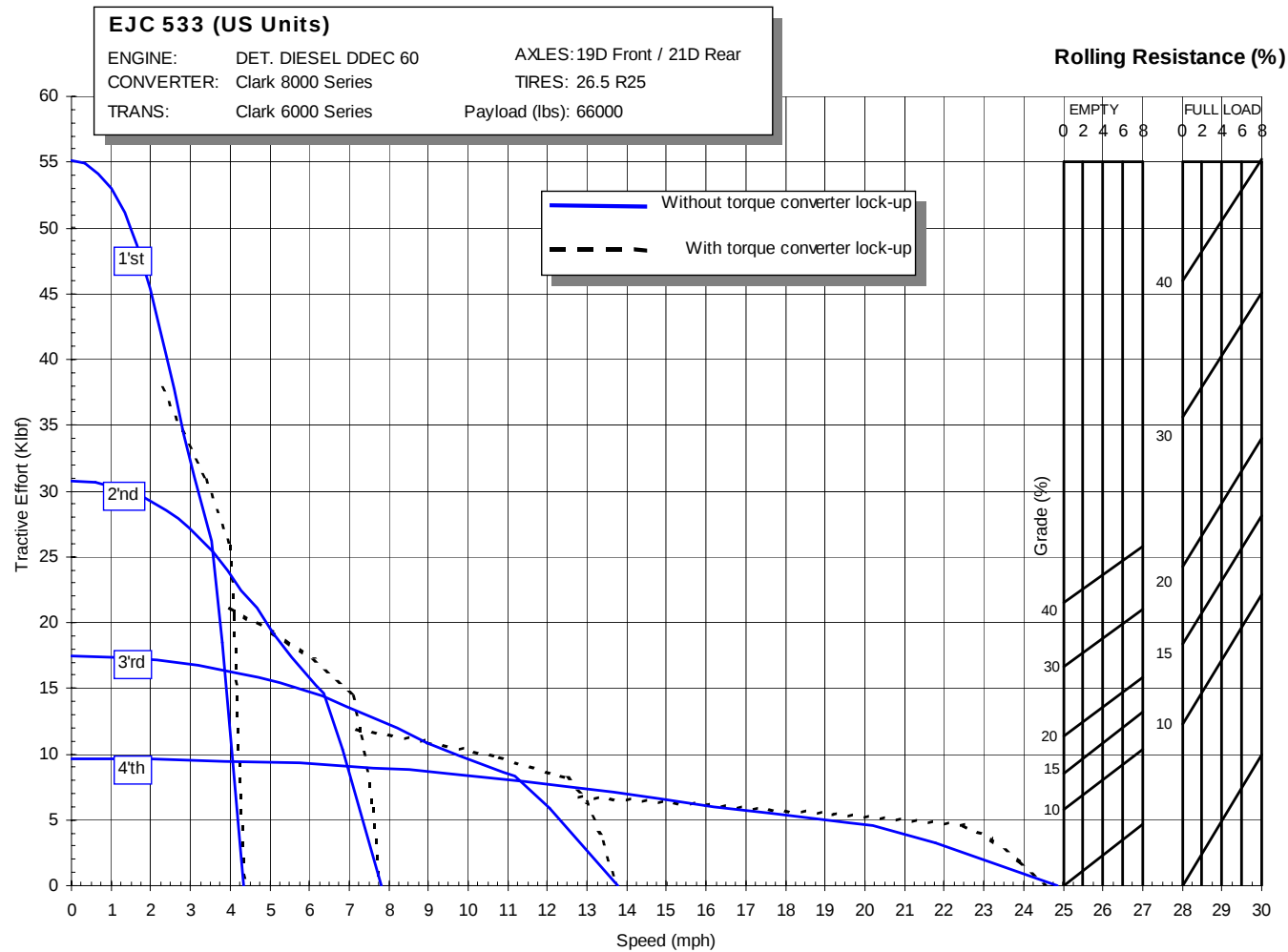
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Traction Effort Curve (US Units)



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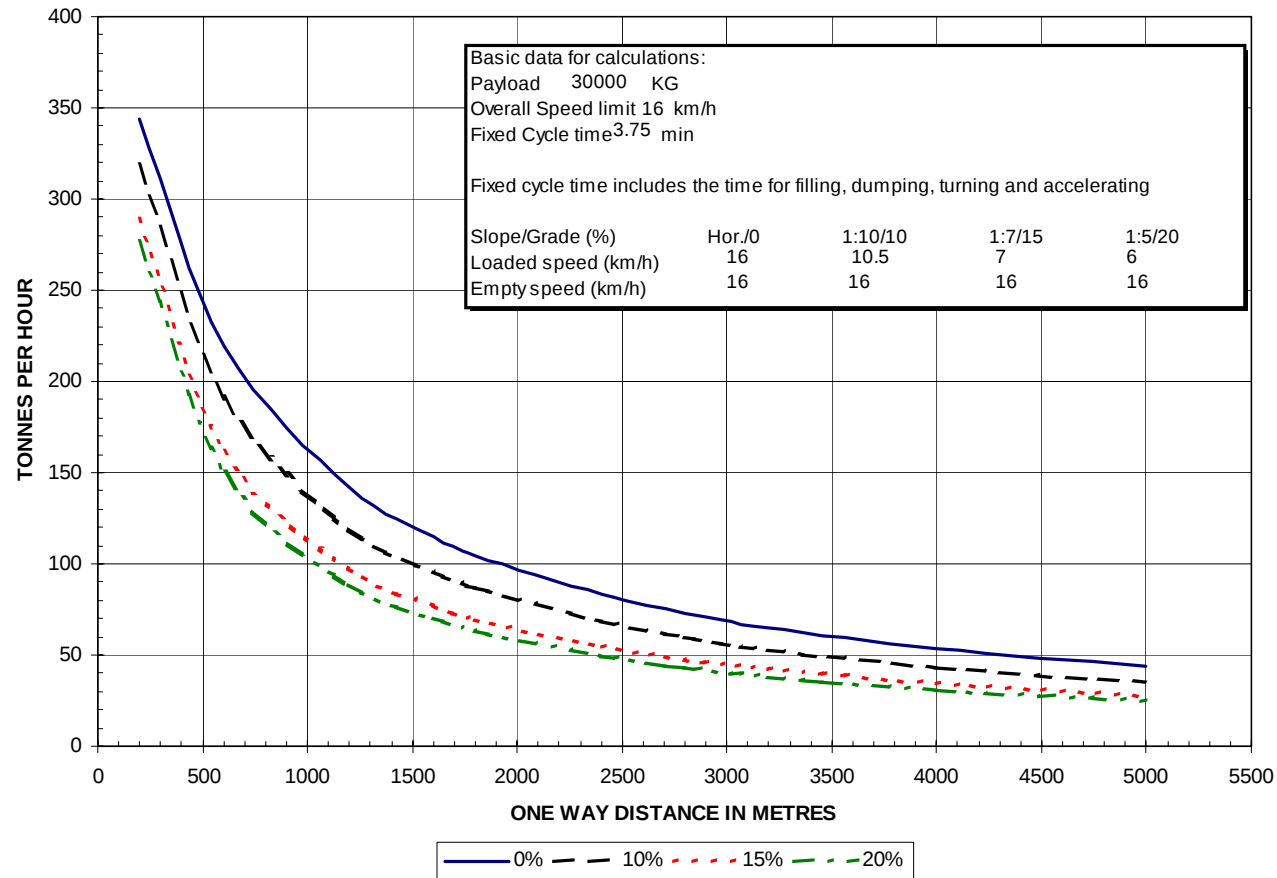
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Productivity Curve (Metric Units)

EJC 533 PRODUCTIVITY CURVE



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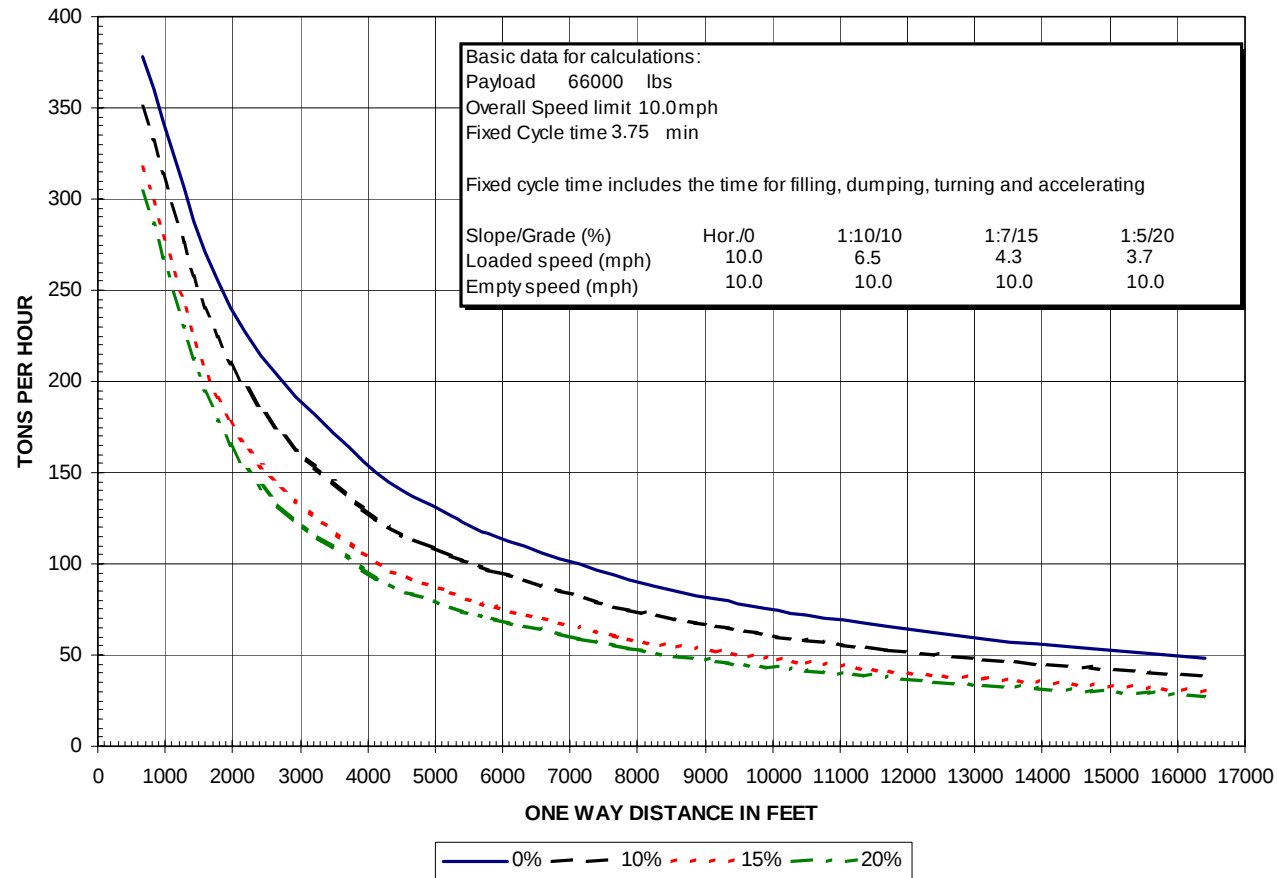
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Productivity Curve (US Units)

EJC 533 PRODUCTIVITY CURVE



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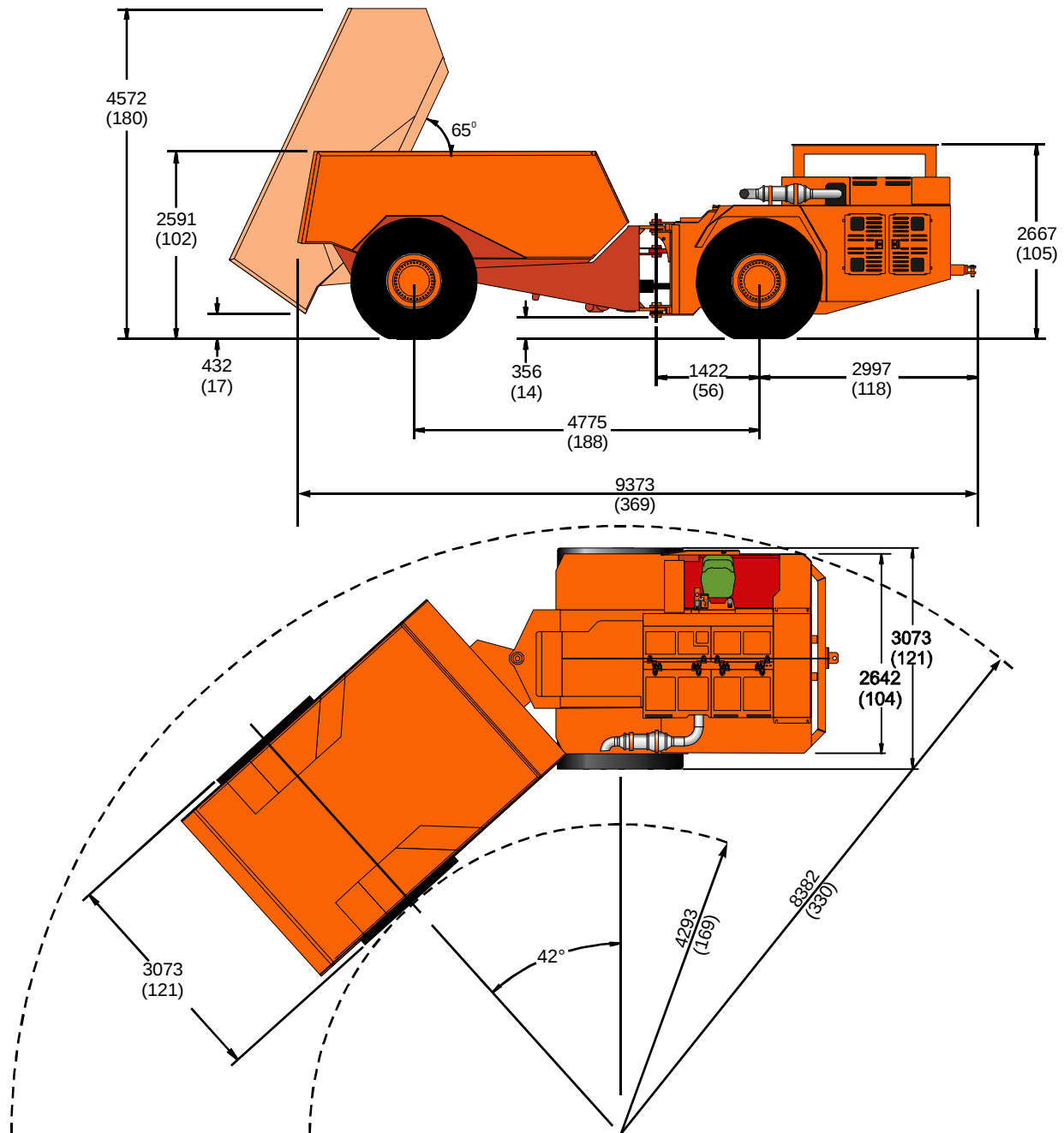


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17.6 m³ (23 yd³) Optional Snub Nose Box



Note: all dimensions in millimetres, dimensions in brackets are in inches.
All vertical dimensions are for an empty unit.
Optional "Snub Nose" box shown.

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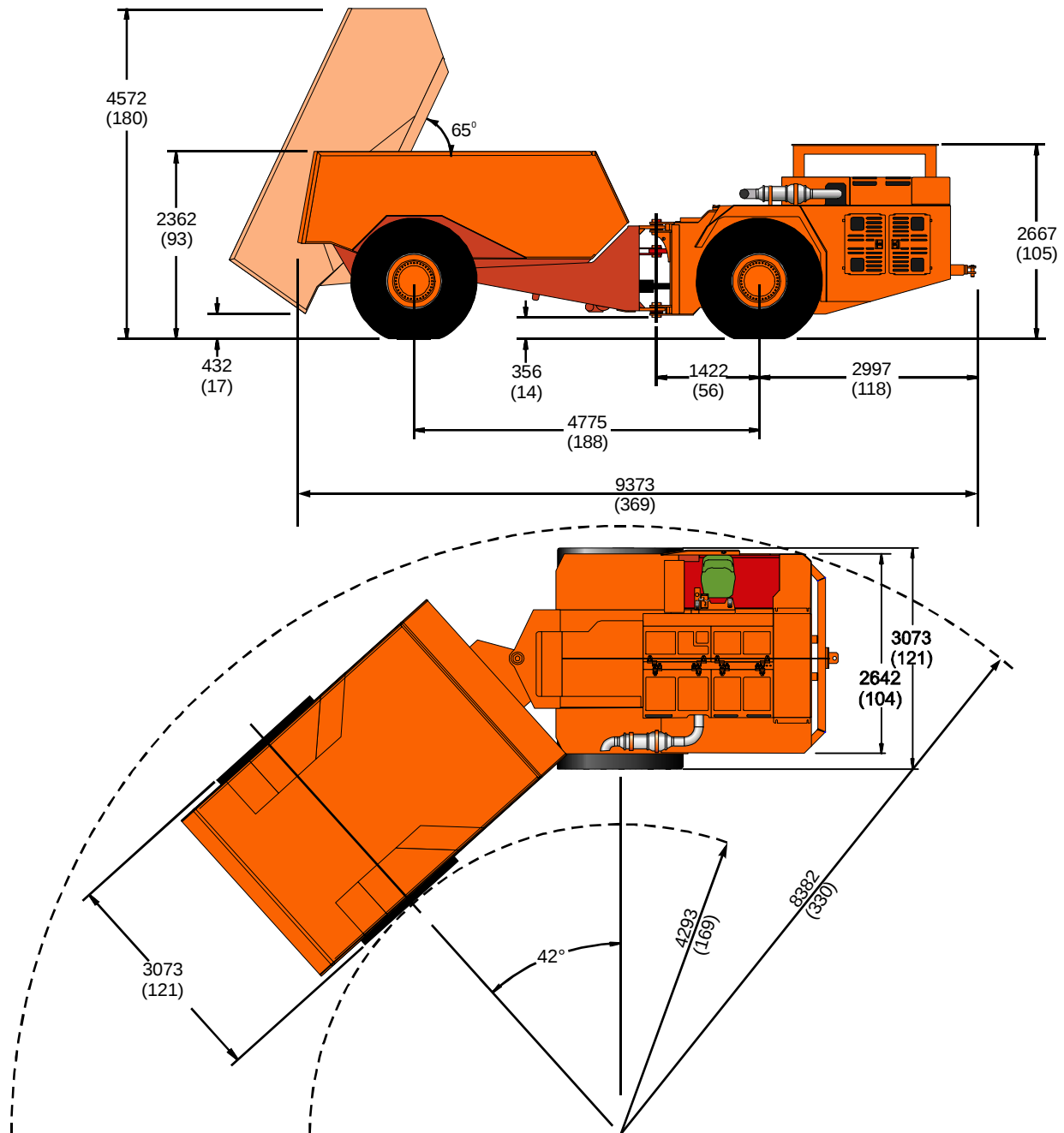


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15.3 m³ (20 yd³) Optional Snub Nose Box



Note: all dimensions in millimetres, dimensions in brackets are in inches.
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