

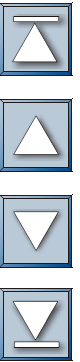


EJC 30SX

Technical Specification

Payload: 33 tons (30 tonnes)

Dump box volume (SAE): 14.0 m³ (18.3 yd³)



EJC Mining Equipment

Division of Sandvik Mining and Construction Canada Inc.
4445 Fairview Street, Burlington Ontario, Canada L7L 2A4
Tel.: (905) 632-4940

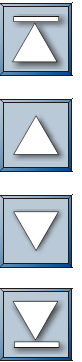
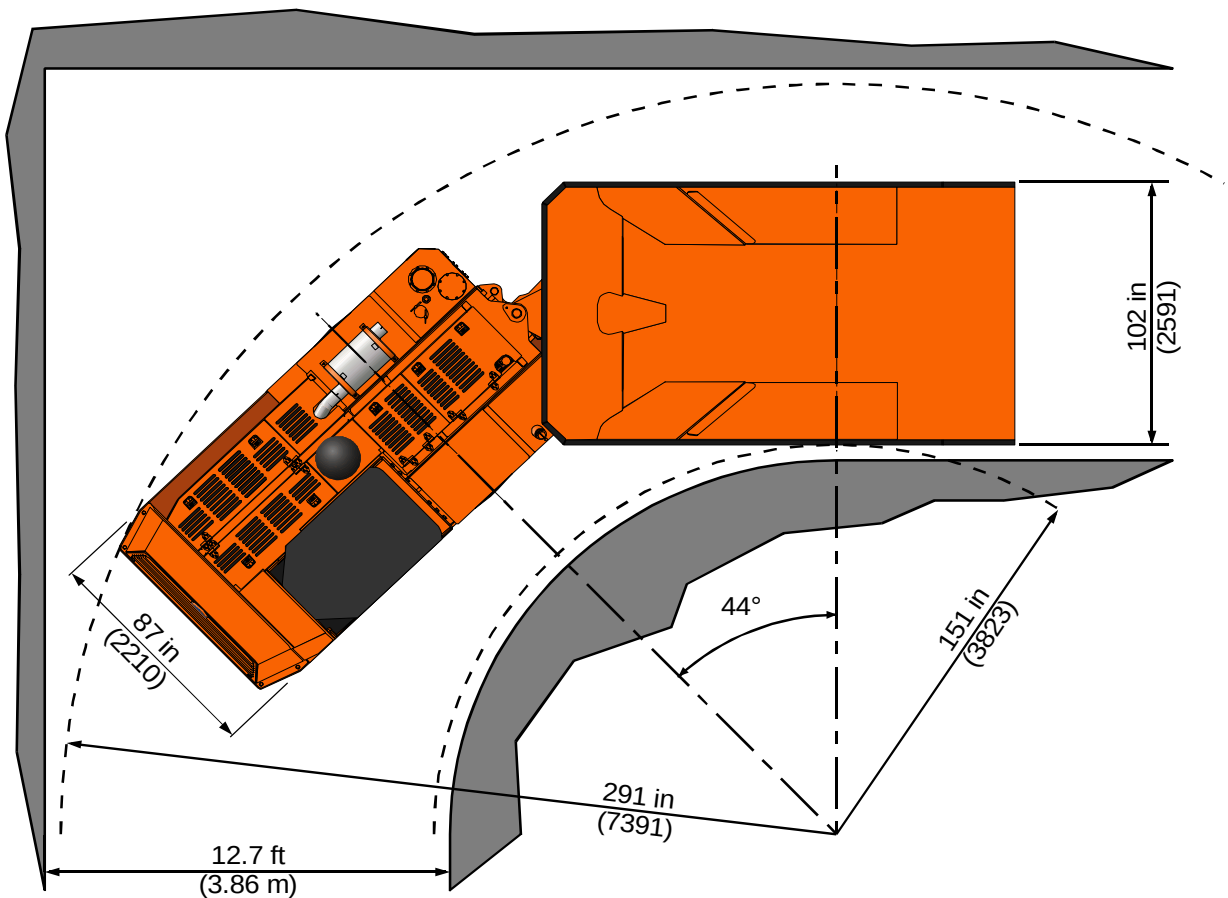
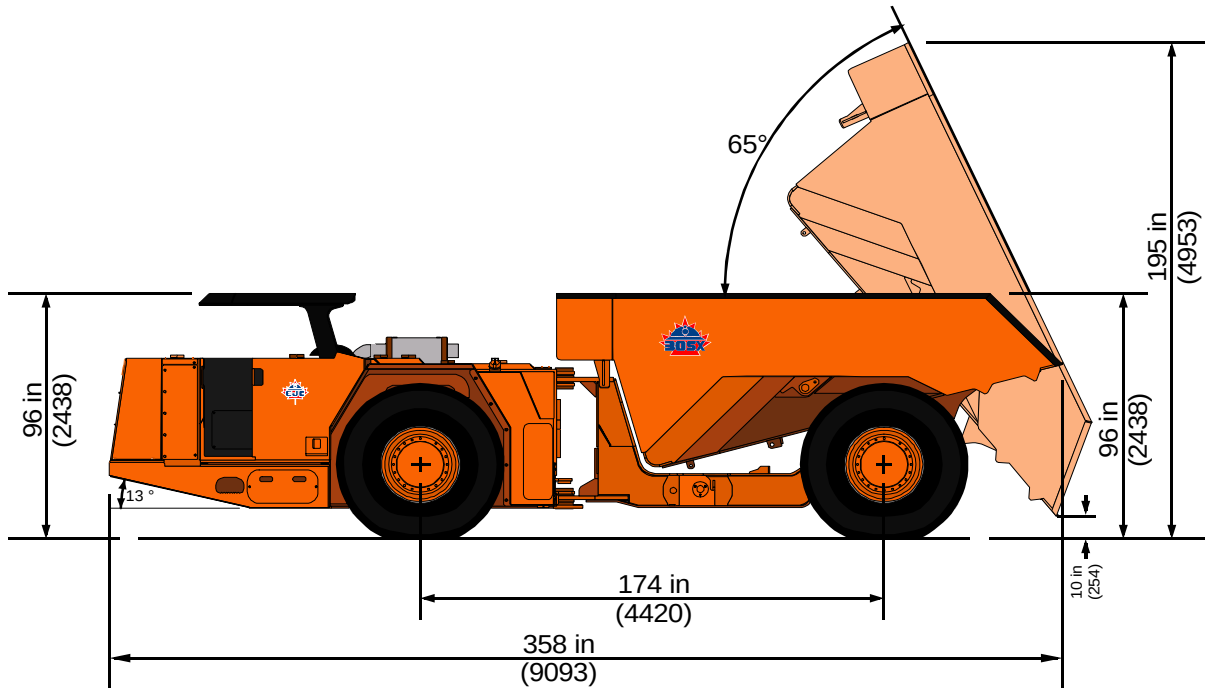


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Web: <http://www.ejc.sandvik.com>

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General Arrangement



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Standard Unit Specifications

General Information

Main Dimensions

Total length	9093 mm	358 in
Total width	2565 mm	101 in
Height with safety canopy	2438 mm	96 in
Height of dump box	2438 mm	96 in
Dump Height	4953 mm	195 in

Operating Weights

Total	26,308 kg	58,000 lb.
Front axle	19,225 kg	42,385 lb.
Rear axle	7,083 kg	15,615 lb.

Loaded Weights

Total	56,308 kg	124,139 lb.
front axle	27,559 kg	60,757 lb.
rear axle	28,750 kg	63,382 lb.

Capacities

Payload	30 tonnes	33 tons
Dump box volume (SAE)	14.0 m ³	18.3 yd ³

Dump Box Motion Times

Discharging time	14 sec.
Dumping angle	65 °

Driving Speeds Forward and Reverse (Loaded)

1st gear	6.5 km/h	4.0 m.p.h.
2nd gear	11.5 km/h	7.1 m.p.h.
3rd gear	20.0 km/h	12.4 m.p.h.
4th gear	36.0 km/h	22.4 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	Welded steel box construction
Material	G40.21 - 50wt Cat. #3

Power Train

Engine

Diesel engine	Detroit Diesel Series 50, Tier 2
Output	235 kW (315 HP) @ 2100 RPM
Torque	1424 Nm (1050 lb.ft.) @1350RPM
Number of cylinders	In line 4
Displacement	8.5 litres (519 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

Converter

Dana SOH C8000 series	Single stage, 2.292 torque multiplication ratio, .895 offset ratio with manual lock-up
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Transmission

Dana SOH 6000 series	4-speed forward and reverse
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Axles

Front axle	Kessler, standard differential, oscillating ± 7°.
Rear axle	Kessler, standard differential, fixed.

Tires

Tire size	23.5R25 **		
Type	Bridgestone VEL E3**		
Air pressure, front	620 kPa	6.2 bar	90 psi
Air pressure, rear	620 kPa	6.2 bar	90 psi

Systems

Steering Hydraulics

Full hydraulic power steering, centre articulated with double acting steering cylinders. Open centre system with a gear pump and wheel steer control.

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Turning Radius

Inner	4013 mm	158 in
Outer	7391 mm	291 in
Turning angle	44 °	

Main Components

Hydraulic pump	Gear	
Control valve	Pilot operated	
Steering cylinders	114.3 mm bore X 63.5 mm rod (4½" X 2½")	

Pressure Settings

Main relief	15 MPa	151 bar	2200 psi
Port relief valves	16.5 MPa	165 bar	2400 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. Push button dump box control.

Main Components

Dump cylinders	Telescopic, 159 mm bore X 133 mm first sleeve X 108 mm second sleeve (6¼" X 5¾" X 4¾")		
Hydraulic pump	Gear pump		
Control valve	Pilot operated		

Pressure Settings

Main relief	15 MPa	151 bar	2200 psi
Port reliefs	16.5 MPa	165 bar	2400 psi
Hyd. oil tank capacity	378 l	100 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 lights	4pcs front, 2pcs rear

Other Standard Equipment

- Electric shift
- Central hydraulic pressure test points
- Central manual lubrication system
- SAE ORS 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

Operator's compartment	Fully enclosed forward facing operator's compartment with air conditioning and wheel type steering control.
Auto lube system	Lincoln modular

Available Add-On Options

Operator's compartment	ROPS/FOPS Canopy	
	Electronic display module (Detroit Series 50)	
Fire suppression systems	Manual - Ansul 6 nozzles, 1 tank	
	Automatic (Checkfire II) - Ansul 6 nozzles, 1 tank	
Hand held fire extinguishers	4.5 kg	10 lb.
	9.1 kg	20 lb.
Exhaust system	HTI insulation on manifold	
	Jacobsen exhaust brake	
Emergency steering system	EC regulations	
Dump box	Hydraulically operated tail gate	
	Ejector Box	



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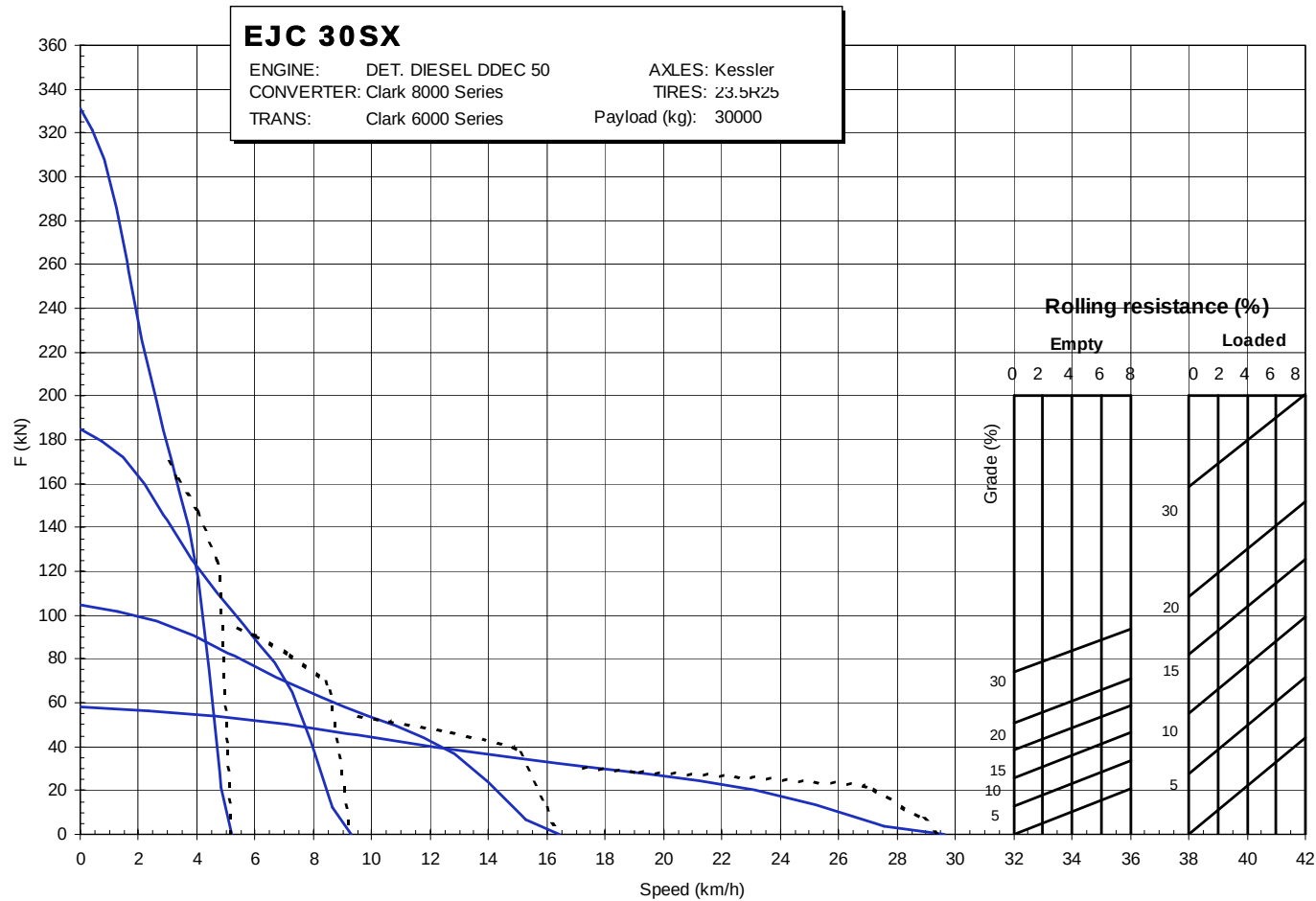


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Tractive Effort Curve (Metric Units)



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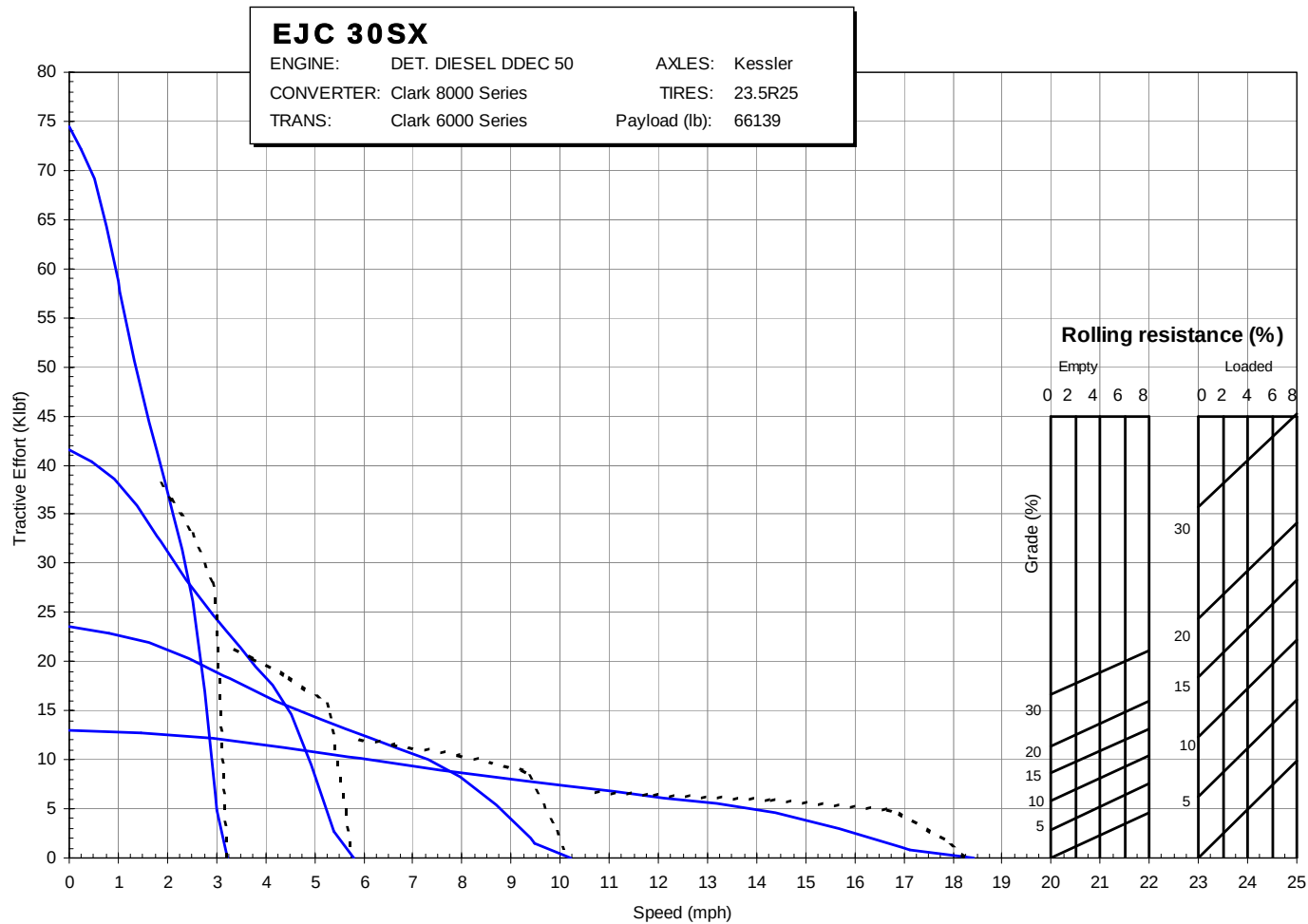


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Tractive Effort Curve (US Units)



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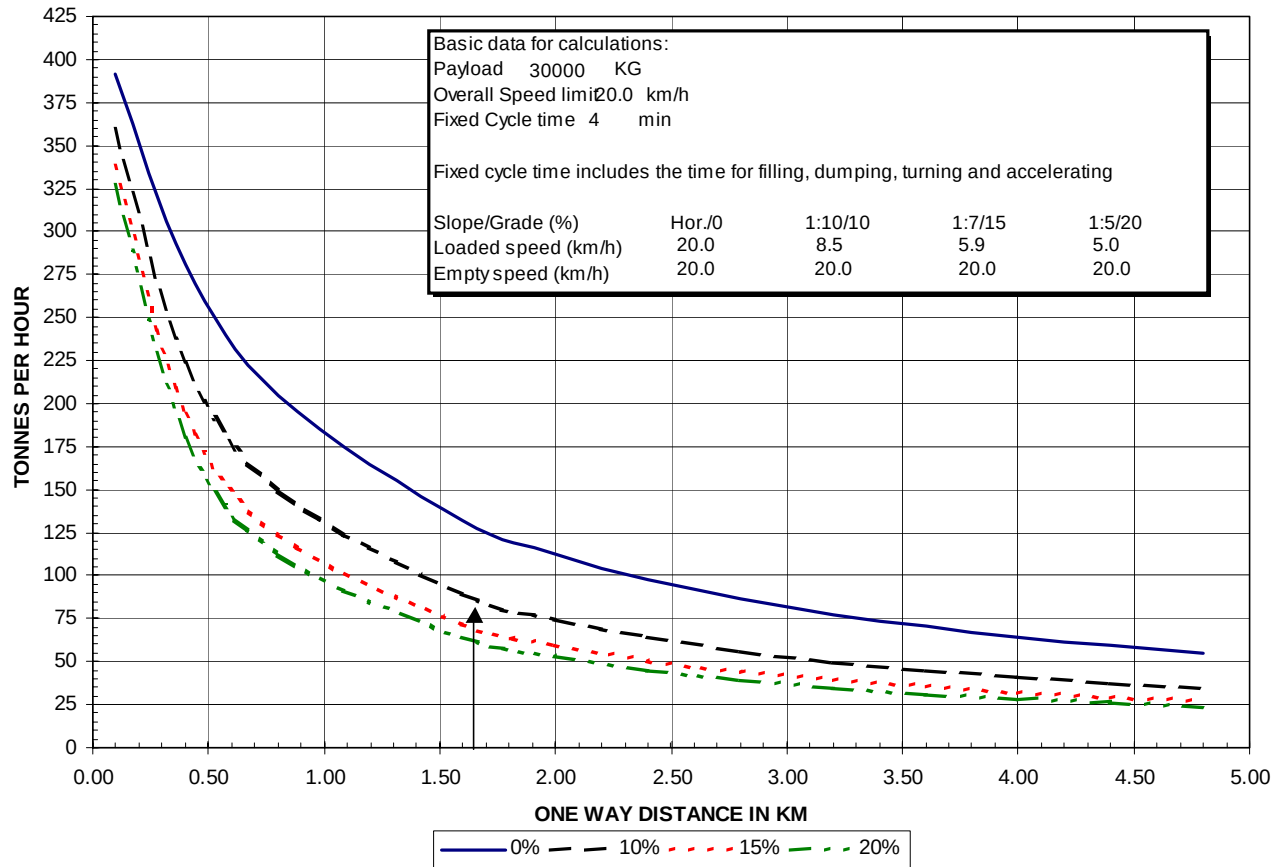
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Productivity Curve (Metric Units)

EJC 30SX PRODUCTIVITY



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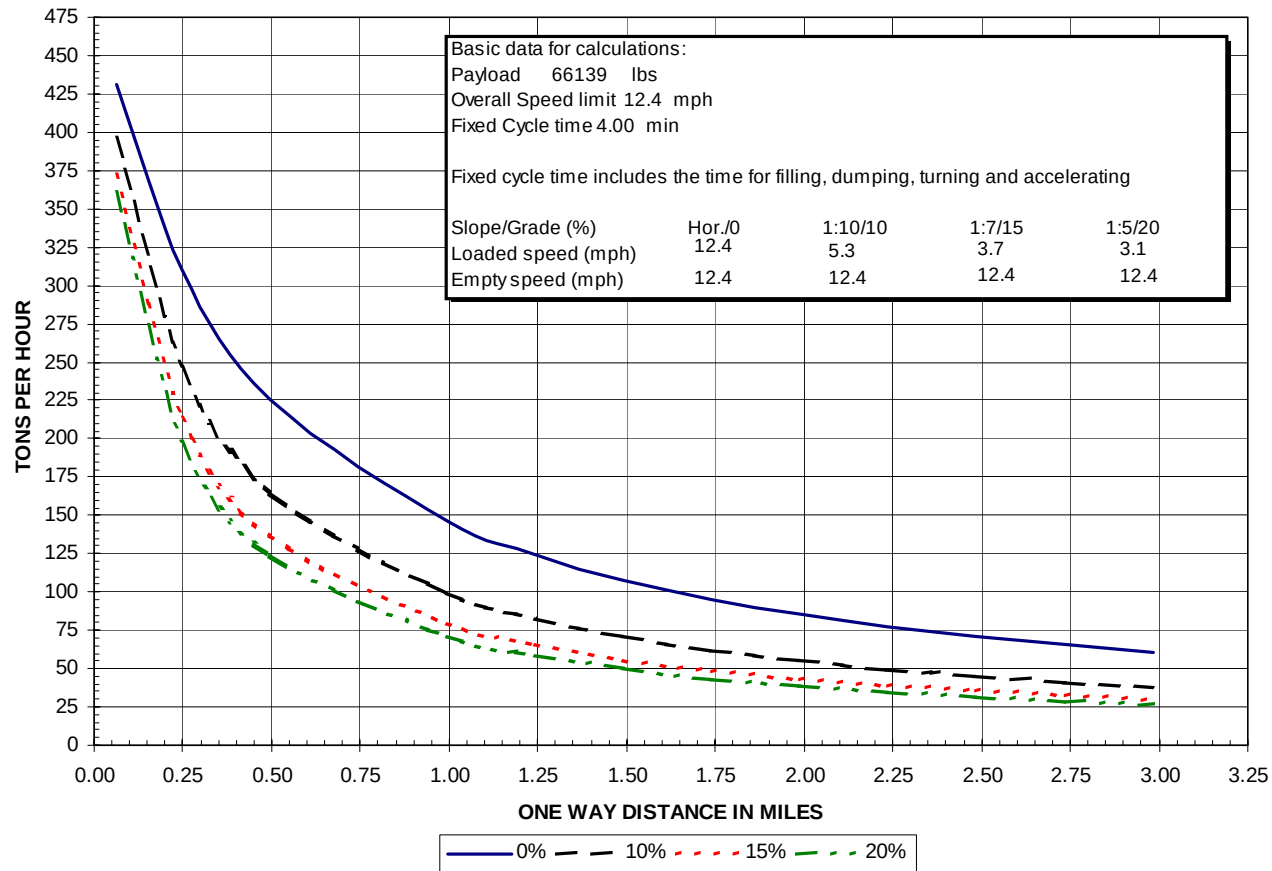
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Productivity Curve (US Units)

EJC 30SX PRODUCTIVITY



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