Technical Specification
TH315-03
2014-06-24

Sandvik TH315

Technical Specification



APPLICATIONS

The Sandvik TH315 is a narrow 15 metric tonne truck that fits in a 3.0 m x 3.0 m heading. Designed with a side seated operators
compartment for maximum operator comfort in applications which require both forward and reverse operation.

- Ramp and drift development in small mines
- Small tunneling projects
- Low exhaust emission engine for reduced ventilation requirements
- Two pass loading with the LH307

Capacities

Tramming capacity	15 000 kg	33 069 lb
Dump box volume	7,5 m³	

Main dimensions

Total length	7 715 mm
Total width	2 252 mm
Height of safety canopy	2 341 mm
Height of dump box	2 184 mm
Dump height	4 045 mm

Dump Box Motion Times

Discharging time	10 sec
Dumping angle	60 °

Speeds Forward & Reverse (Level / Loaded)

1st gear	5,2 km/h
2nd gear	10,9 km/h
3rd gear	18,5 km/h

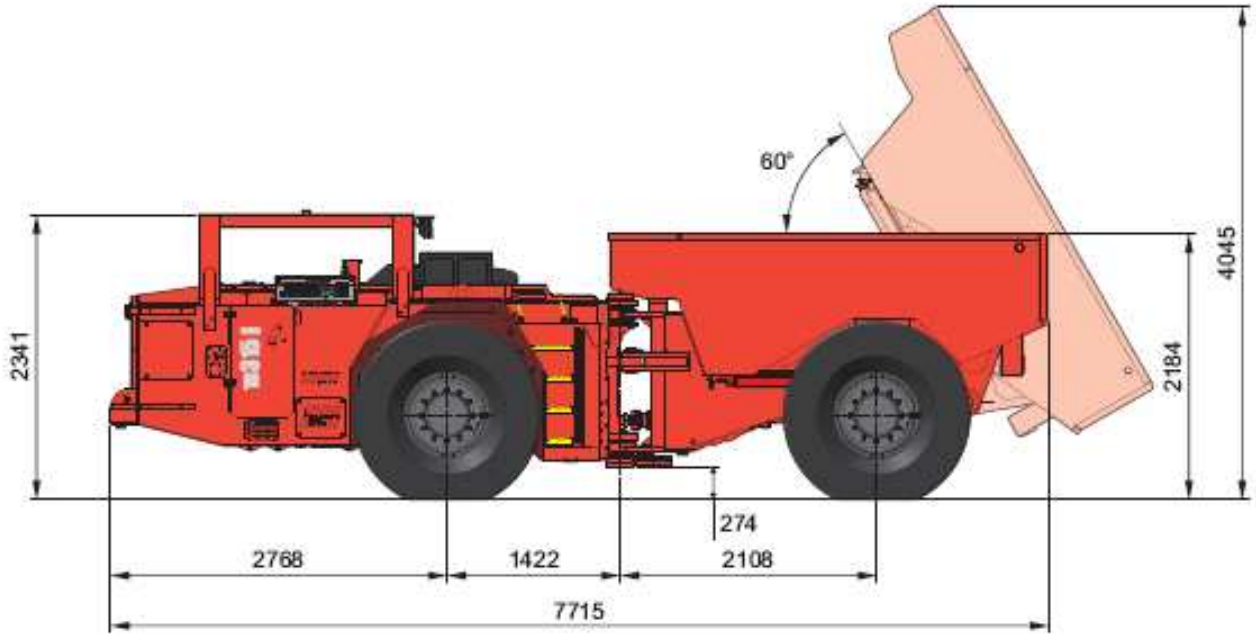
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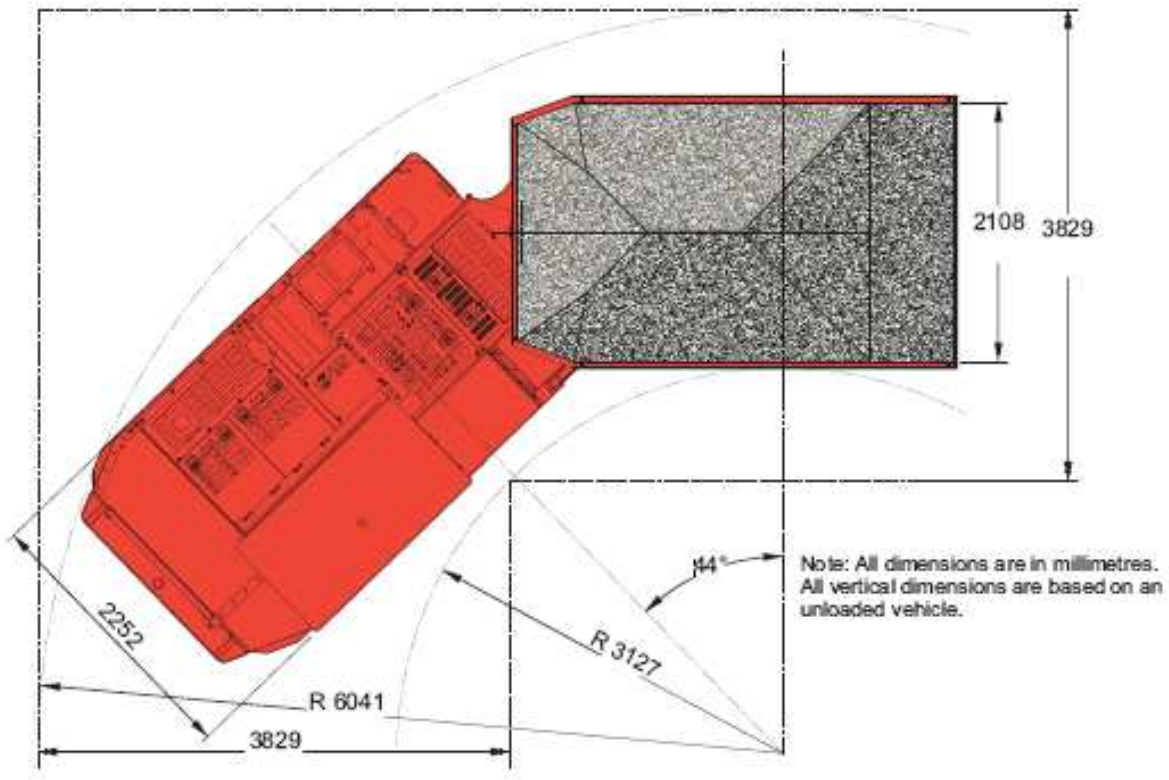
Sandvik TH315

4th gear	31,7 km/h

DIMENSIONS (SIDE VIEW)



DIMENSIONS (TOP VIEW)



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POWER TRAIN

Engine

Diesel engine	Cummins QSB6.7
Output	164 kW (220 HP) @ 2200 rpm
Torque	959 Nm (700 lb.ft.) @ 1500 rpm
Number of cylinders	In line 6
Displacement	6,7 litres
Cooling system	Liquid cooled
Compustion principle	Direct injected, turbo charged, after cooled
Air filtration	Dry type
Electric system	24 V
Exhaust system	Catalytic purifier with silencer
Fuel capacity	201 l (53,1 US gal)

Transverter

Dana LHMR 32000 series	4-speed forward and reverse, single stage converter, 2.13 stall torque ratio

Axles

Front axle	Kessler D81, standard differential, oscillating ± 8°
Rear axle	Kessler D81, standard differential, fixed

Tires

Tire size	16.00R25 E4

VEHICLE WEIGHTS

Operating weights

Total operating weight	18 373 kg
Front axle	13 057 kg
Rear axle	5 316 kg

Loaded weights

Total loaded weight	33 794 kg
Front axle	14 982 kg
Rear axle	18 812 kg

STANDARD OPERATORS COMPARTMENT

ROPS/FOPS certified canopy	
Height	2 341 mm

FRAME

Rear and front frame	Welded steel construction
Central hinge	Full plate, clevis type with spherical bearings

STEERING HYDRAULICS

Full hydraulic power steering, centre articulated with a double
acting steering cylinder. Open centre system with a gear pump and pilot operated stick steer control.

Turning Radius

Turning angle	± 44 °
Inner	3 127 mm
Outer	6 041 mm

Main Components

Hydraulic pump	Gear
Control valve	Pilot operated
Steering cylinder	125 mm bore X 63 mm rod

DUMP BOX HYDRAULICS

Full hydraulic open-centre system with one gear pump. Pilot operatedstick dump control.

Main Components

Dump cylinder	2 stage telescopic 159/146 mm
Hydraulic pump	Gear pump
Control valve	Pilot operated

BRAKES

Service brakes are spring applied hydraulically operated and liquid cooled (LCB) multi-disc brakes on all wheels.

Two independent circuits: one for the front and one for the rear axle.

Service brakes also function as an emergency and parking brake.

Main Components

Pressure accumulators	Piston type with charging valve
Brake pedal valve	Modulated

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ELECTRICAL EQUIPMENT

Alternator	24V, 100 Amp min.
Batteries	2 x 12 V, 925 CCA
Starter	24 V, Heavy Duty
Driving lights	4 pcs front, 2 pcs rear

STANDARD MANUALS

Instructions Manual	
- Operator's Manual	EU-languages
- Maintenance Manual	EU-languages
Parts Manual	English
Service and Repair Manual	English
ToolMan CD, (2pcs)	in pdf format, includes all the above manuals

OTHER STANDARD EQUIPMENT

SAE ROPS/FOPS canopy
Mechanical hydraulic pressure test points
Automatic central lubrication
ORS hose fittings
Ansul hand held fire extinguisher 20 lb

OPTIONAL EQUIPMENT

Additional options

- ☐ Fire suppression system, ANSUL
- ☐ Spill guard
- ☐ Spare rim

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GRADE PERFORMANCE

Cummins QSB6.7
Calculated with 2% rolling resistance
With lock-up

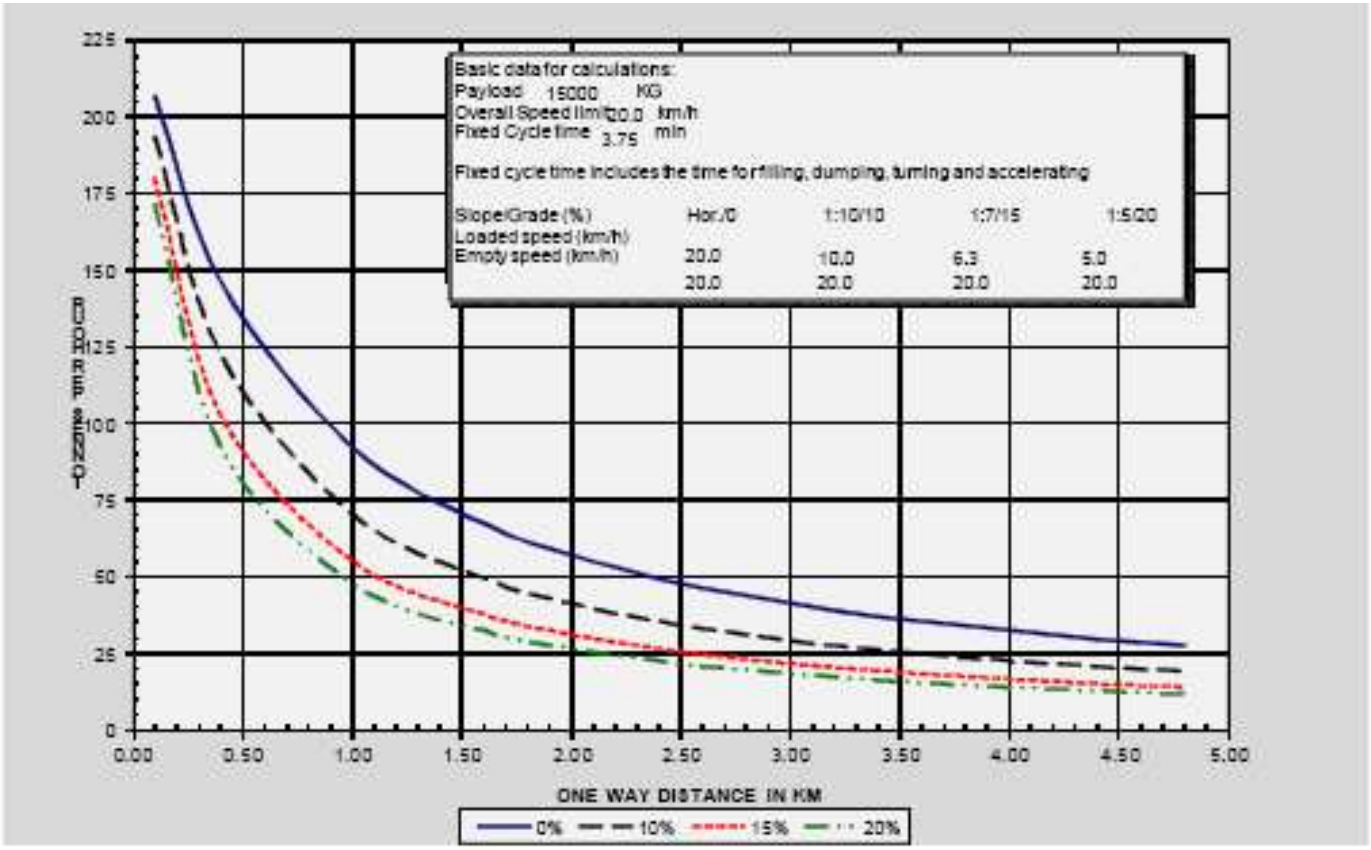
Empty

Percent grade	0	5	10	15	20
1st gear (km/h)	5,2	5,2	5,2	5,2	5,2
2nd gear (km(h)	10,9	10,7	10,6	10,5	10,2
3rd gear (km/h)	18,5	18,4	17,7		
4th gear (km/h)	32,0	30,5			

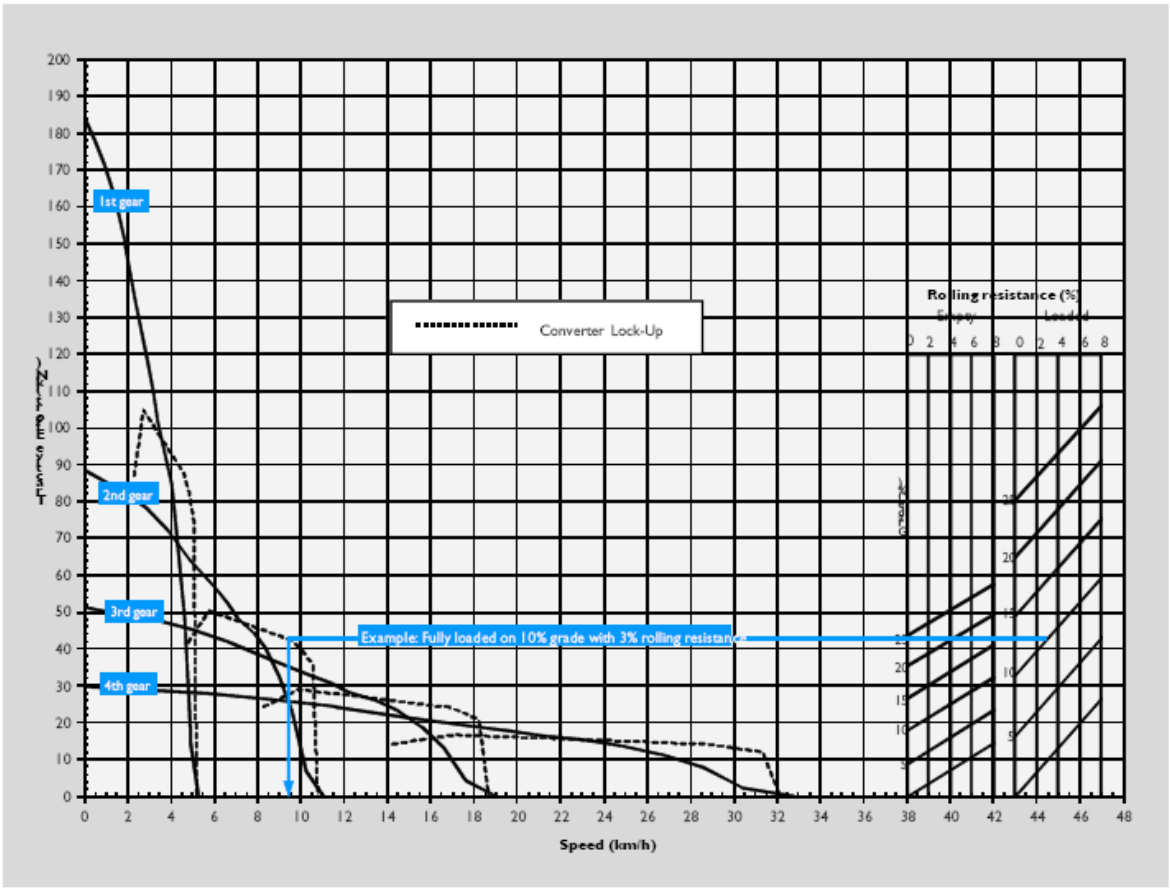
Loaded

Percent grade	0	5	10	15	20
1st gear (km/h)	5,2	5,2	5,1	5,1	5,0
2nd gear (km(h)	10,9	10,7	10,0	6,3	4,8
3rd gear (km/h)	18,5	17,3			
4th gear (km/h)	31,7				

PRODUCTIVITY CURVE



TRACTIVE EFFORT CURVE (METRIC UNITS)



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