

# 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 m <sup>3</sup>	

### 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

Sandvik Mining and Construction Reserves the right to change this specification without further notice.

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Dump height	4 045 mm
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### Dump Box Motion Times

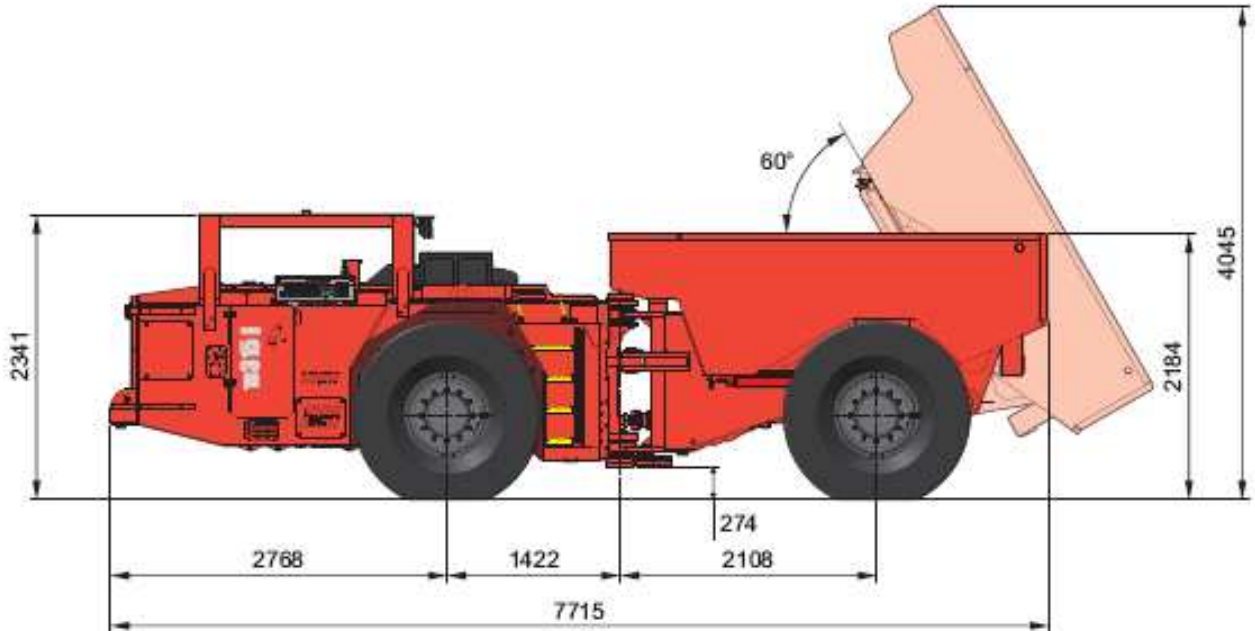
Discharging time	10 sec
Dumping angle	60 °

### Speeds Forward & Reverse (Level / Loaded)

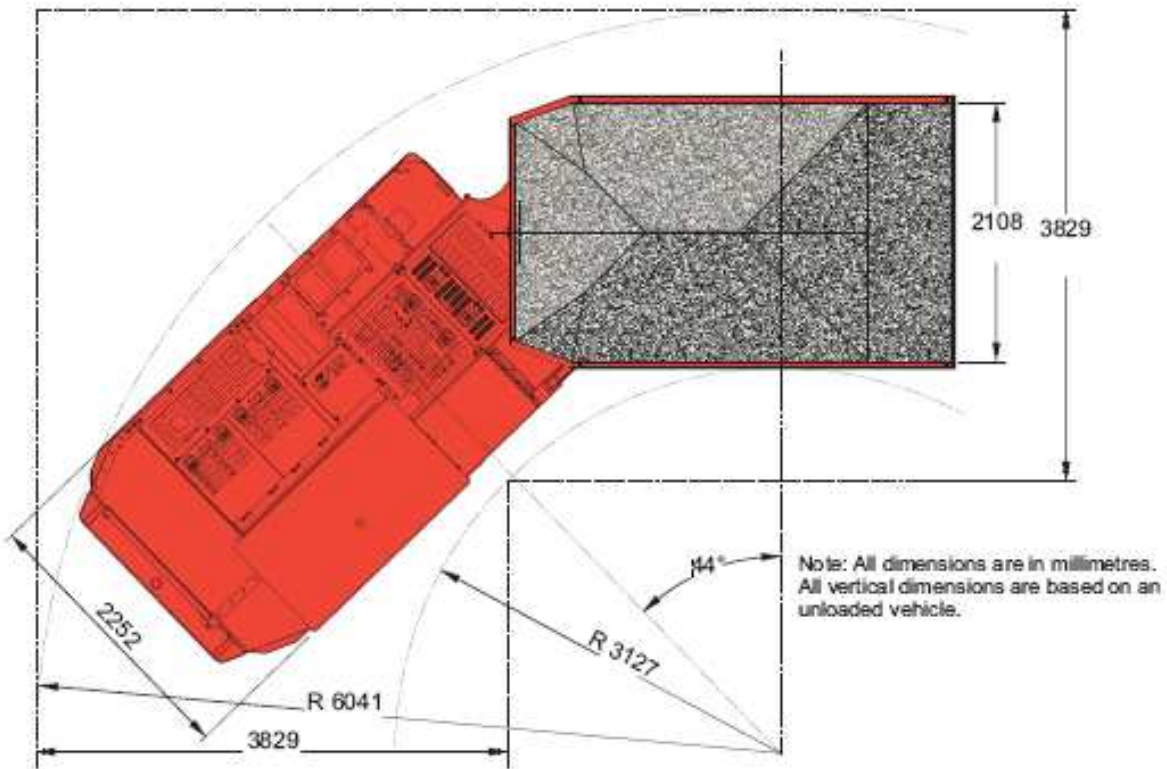
1st gear	5,2 km/h
2nd gear	10,9 km/h
3rd gear	18,5 km/h



## DIMENSIONS (SIDE VIEW)



## DIMENSIONS (TOP VIEW)



**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
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**Axles**

Front axle	Kessler D81, standard differential, oscillating $\pm 8^\circ$
Rear axle	Kessler D81, standard differential, fixed

**Tires**

Tire size	16.00R25 E4
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**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	$\pm 44^\circ$
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 operated stick 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



## 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

<input type="checkbox"/>	Fire suppression system, ANSUL
<input type="checkbox"/>	Spill guard
<input type="checkbox"/>	Spare rim

**GRADE PERFORMANCE**

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

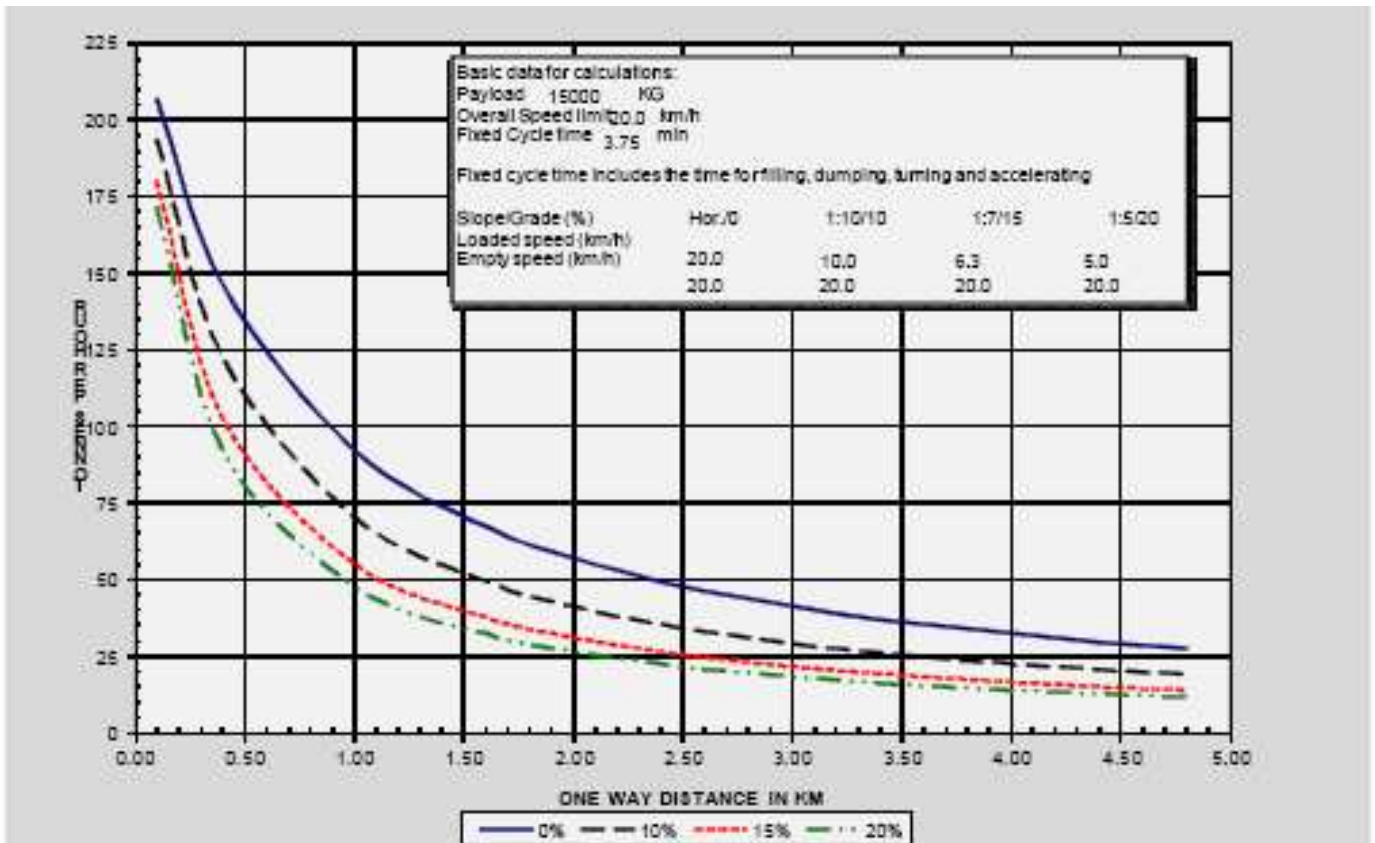
**Empty**

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

**Loaded**

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

**PRODUCTIVITY CURVE**



TRACTIVE EFFORT CURVE (METRIC UNITS)

