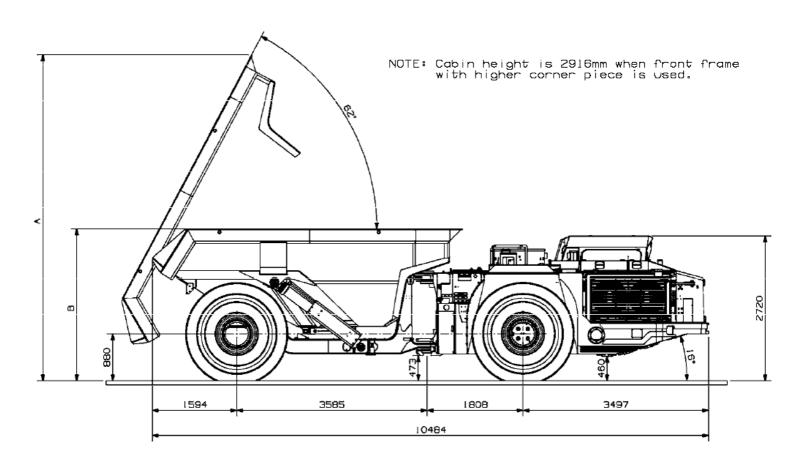
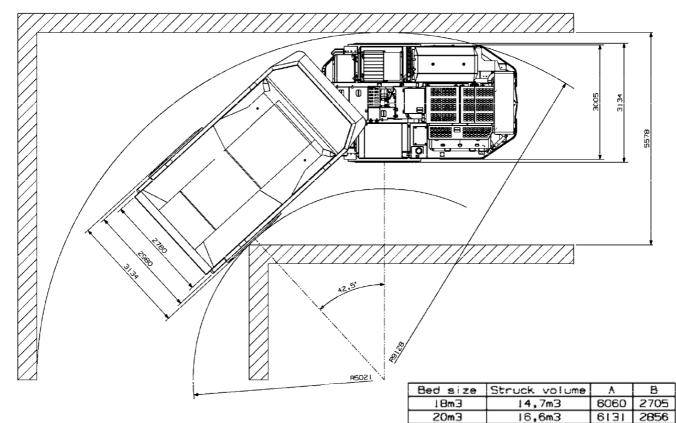


# Sandvik TH550





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





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18,5m3



# Sandvik TH550

### Main dimensions

Total length 10 484 mm (413 in)
Total width 3 134 mm (123 in)
Height 2 720 mm (107 in)
Max. height of the box 20 m<sup>3</sup> 2 856 mm (112 in)

Weights

Operating weight 35 900 kg (79 150 lb)
Total loaded weight 85 900 kg (189 380 lb)

Axle weights without load:

front axle 26 300 kg (58 000 lb) rear axle 9 600 kg (21 160 lb)

Axle weights with load:

front axle 40 500 kg (89 300 lb) rear axle 45 400 kg (100 090 lb)

Unit weight is dependent on the selected options

**Capacities** 

Payload capacity\* 50 000 kg (110 232 lb) Box sizes (heaped, SAE J1363) 20 m³ (26 yd³)

**Dump box movements** 

Dumping time 14,0 sec Dumping angle 62°

Driving speeds forward and reverse

 1st gear
 5.9 km/h (3.7 mph)

 2nd gear
 7.8 km/h (4.8 mph)

 3rd gear
 10.6 km/h (6.6 mph)

 4th gear
 13.8 km/h (8.6 mph)

 5th gear
 18.3 km/h (11.4 mph)

 6th gear
 24.0 km/h (14.9 mph)

 7th gear
 32.0 km/h (19.9 mph)

Reversing with 1st and 3rd gear

Frame

Rear and front frame Welded steel construction
Central hinge Box constructed, adjustable

lower bearing

Standard engine

Diesel engine Volvo TAD1660VE (MSHA approved)

Output 405kW (551 hp) / 2100 rpm Torque 2703Nm (1993 lbf ft) / 1350 rpm

Number of cylinders in line 6
Displacement 16.12 I
Cooling system Water cooled

Combustion principle Direct injected, turbo + inter

cooler, 4- stroke

Air filtering Donaldson

Exhaust system Heat shield for exhaust manifold

& Turbo,

Double wall exhaust pipe, Catalytic purifier and muffler

Fuel tank capacity 700 I (185 gal.)

Engine shut down with low hydraulic or brake oil level

Standard converter

Dana CL 9672 One stage, Offset 1:1. With lock-up

Gearbox

Dana 8821 Power shift transmission with electric

remote shifting system.

Seven gears forwards and two reverse.

Automatic gear shifting

Standard axles

Front axle Dana, 53R300, oscillation ±13°.

Rear axle Dana, 53R300, fixed

Standard tyres

Size and type 29.5R25 E4 \*\*

Brand and type subject to availability)

Air pressure front 550 kPa (5.5 bar) (80 psi)

rear 700 kPa (7.0 bar) (102 psi)

Other type of tyres available to user's choice. In certain applications the productive capabilities of the truck may exceed the TKPH value given by tyre manufacturer.

Sandvik Mining and Construction Oy recommends that the user consult their tyre supplier to evaluate conditions and to

find the best solution for application.

Cabin

ROPS/FOPS certified safety cabin with air conditioning Height 2720 mm (107")

Steering hydraulics

Full hydraulic, center articulated, power steering with two double acting cylinders. Steering is equipped with load sensing Danfoss system and a steering wheel.

Turning angle ± 42.5°.

Turning radius, inner 4836 mm (190")

Turning radius ,outer 9130 mm (359")

Main components in steering system:

Steering pump Steering cylinders Steering valves Pressure setting for

> steering hydraulic circuit 19,0 MPa (190 bar) port relief valves 24.0 MPa (240 bar)

Box hydraulics

Full hydraulic pilot controlled system, equipped with variable displacement piston pump. Oil flow to box hydraulic system from the steering hydraulics. Olin flow from the brake circuit pump is divided to the brake system and oil cooler motor.

Pressure setting for:

pilot circuit 3,5 MPa (35 bar) dump box hydraulics 26.0 MPa (260 bar)

port relief valves:

piston end 28.0 MPa (280 bar) piston rod end 12.5 MPa (125 bar)

Main components:
Cylinders for dump box
Valves for dump box

Pump for dump box hydraulics Pump for brake and cooling

circuit

Fittings ORFS

Hoses High temperature

Steel piping hydraulics

Oil cooler for hydraulic oil

Steering and box hydraulic oil tank 225 liters (60 gal)

capacity

Electrical fill up pump for hydraulic

oil





# Sandvik TH550

#### Standard brakes

Service brakes are spring applied, hydraulically released multidisc wet brakes (Posi-Stop) on all wheels, two separate circuits for the front and rear axle. Service brakes also function as an emergency and parking brake. Electrically driven pump for brake emergency/towing releasing.

Main components in the brake system:

Pressure accumulator Brake pedal valve Brake valve Charging valve

Brake hydraulic tank capacity 100 liters (26.4 gal)

Automatic brake activation (ABA)

# **Standard Lubrication system**

Centralized automatic lubrication

### **Electrical equipment**

Alternator 2 pcs, 28 V 140A Bosch Batteries 2 pcs, 12 V 160 Ah

Starter 24 V

Driving lights 4 pcs in front (H3 65W)

4 pcs in rear (H3 65W)

Working light 1 pc (H3 65W)
Parking lights 4 pcs

Parking lights 4 pcs
Brake lights 2 pcs
Blinkers 4 pcs

Instrumentation 5.7 in LCD display

## Safety equipment

Signal horn for box up

Hand held fire extinguisher 12 kg

Engine shut down with low hydraulic or brake oil level

Reverse alarm (CEN) Lockable main switch External shutdown Neutral brake

#### **Others**

Decal language EU-languages

#### Standard manuals

Instructions Manual

-Operator's Manual EU-languages -Maintenance Manual EU-languages

**English** 

English

In pdf format

Parts Manual

Service and Repair Manual

ToolMan CD, (2 pcs)
-Instructions Manual

-Operator's Manual

-Maintenance Manual

-Parts Manual

-Service and Repair Manual

#### Main options:

- \* Replaces standard equipment
- \* Engine Volvo TAD1660VE 450kW (550 hp), Euro Stage 3B / Tier 4i (Only for EU & Japan)
- \* Engine DETROIT S60, 429 kW (575hp), (MSHA approved)
- \* Dump box capacity 22,0m³ (29 yd³) (heaped, SAE J1363), width 2760/2980mm.
- \* Dump box capacity 25.5m³ (33 yd³) (heaped, SAE J1363), width 3260/3480mm.
- \*Dump box capacity 28.0m³ (37 yd³) (heaped, SAE J1363), width 3260/3480mm.
- Emergency steering (CEN).
- Electrical retarder TELMA.
- Exhaust brake "Jake Brake"
- Gear limit TBA
- Fire suppression system ANSUL, two tank system with 8 nozzles (CEN) including auto engine shut down.
- Fire suppression system ANSUL, two tank system with 8 nozzles (CEN), CHECKFIRE including auto engine shut down.
- Sandvik FS1000 fire suppression system including auto shut down
- Reverse camera
- Mirrors defrost
- · Windows defrost
- Cabin heater (with air conditioning)
- Cyclone for air conditioning
- · Cover grills for lights
- · Wiggins fuel fill system
- Wiggins fluid fill set (hydr., transmission and engine oil)
- Jump start (CAT)
- Flashing beacon
- Foldable safety rails
- Accordance with CE-norms (CEN).
- Disassembly needed shaft dim: TBA.
- CatBase/LinkOne spare part manuals and additional Instructions, Workshop, Spare part manuals, ToolMan CD's are available.
- Control system tool kit



