The Sandvik TH545i is a high performance 45 tonne articulated underground dump truck for use in 4.5 x 4.5 meter haulage ways. The truck’s performance is based on proven design, high engine power and high payload related to own weight.

This robust and intelligent truck delivers benefits in safety, productivity and profitability. Safety, health and comfort are enhanced with enclosed and vibration isolated cabin. Optional EU Stage IV / EPA Tier 4f low emission engine will further help reducing the fuel consumption and emissions without sacrificing the high productivity.

The Sandvik TH545i truck features a wide range of intelligence integrated technology, such as Sandvik Intelligent Control system, My Sandvik Digital Services and Automation compatibility as standard, supplemented with Onboard Weighing System option for tracking the payload. With the latest addition of the AutoMine® Trucking Onboard option, the Sandvik TH545i enables autonomous haulage for both transfer level and decline ramp application.

The Sandvik TH545i is well suited for:
- Level or ramp production haulage in medium to large tunnel envelope size
- Mine development projects in medium to large tunnel envelope size
- Tunneling projects with restricted height
- Loading with the Sandvik LH514 or Sandvik LH517 loader

**CAPACITIES**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Payload capacity</td>
<td>45 000 kg</td>
</tr>
<tr>
<td>Standard dump box</td>
<td>22.0 m³</td>
</tr>
<tr>
<td>Dump box range</td>
<td>18 - 26 m³</td>
</tr>
</tbody>
</table>

**SPEEDS FORWARD & REVERSE (LEVEL/LOADED)**

<table>
<thead>
<tr>
<th>Gear</th>
<th>Speed (km/h)</th>
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</thead>
<tbody>
<tr>
<td>1st</td>
<td>5.4</td>
</tr>
<tr>
<td>2nd</td>
<td>7.2</td>
</tr>
<tr>
<td>3rd</td>
<td>9.7</td>
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<tr>
<td>4th</td>
<td>12.8</td>
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<tr>
<td>5th</td>
<td>16.9</td>
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<tr>
<td>6th</td>
<td>22.3</td>
</tr>
<tr>
<td>7th</td>
<td>30.1</td>
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</table>

**DUMP BOX MOTION TIMES & MOVEMENTS**

<table>
<thead>
<tr>
<th>Time/Action</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discharging time</td>
<td>14 sec</td>
</tr>
<tr>
<td>Dumping angle</td>
<td>62 °</td>
</tr>
</tbody>
</table>

**OPERATING WEIGHTS * **

<table>
<thead>
<tr>
<th>Weight</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total operating</td>
<td>36 000 kg</td>
</tr>
<tr>
<td>Front axle</td>
<td>26 500 kg</td>
</tr>
<tr>
<td>Rear axle</td>
<td>9 500 kg</td>
</tr>
</tbody>
</table>

**LOADED WEIGHTS * **

<table>
<thead>
<tr>
<th>Weight</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total loaded</td>
<td>81 000 kg</td>
</tr>
<tr>
<td>Front axle</td>
<td>37 900 kg</td>
</tr>
<tr>
<td>Rear axle</td>
<td>43 100 kg</td>
</tr>
</tbody>
</table>

* Unit weight is dependent on the selected options
**POWER TRAIN**

**ENGINE**

- **Diesel engine**: Volvo TAD1641VE - B (Tier 2)
- **Output**: 450 kw (603 hp) @ 1800 rpm
- **Torque**: 2913 Nm @ 1200 rpm
- **Number of cylinders**: In-line 6
- **Displacement**: 16.1 l
- **Cooling system**: Liquid cooled
- **Combustion principle**: 4-stroke, direct injection, turbo, after cooler
- **Air filtration**: Dry type
- **Electric system**: 24 V
- **Emissions**: Tier 2, Euro Stage II
- **Ventilation rate**: CANMET 34,800 CFM
  - (Ultra low sulphur diesel): MSHA 30,000 CFM
- **Particulate index**: MSHA Particulate Ventilation
  - (Ultra low sulphur diesel): Index 5,000 CFM
- **Exhaust system**: Catalytic converter with muffler
- **Average fuel consumption at 40-50% load**: 47 - 59 l/h
- **Fuel tank capacity**: 700 l

**OPERATOR’S COMPARTMENT**

The Sandvik TH545i cabin uses dust and noise resistant upholstery materials and is ROPS/FOPS certified to protect the operator in case of roll over or falling objects. The cabin includes illuminated entrance with three-point contact handles and anti-slip steps, as well as emergency exits. In addition, the cabin is mounted on rubber mounts to reduce whole body vibration.

**CABIN**

- **ROPS certification according to EN ISO 3471**
- **FOPS certification according to EN ISO 3449**
- **Sealed, air conditioned, over pressurized, noise suppressed closed cabin**
- **Sound absorbent material to reduce noise**
- **Safety glass windows**
- **Cabin mounted on rubber mounts to the frame to reduce vibrations**
- **Air conditioning unit located outside the cabin to reduce noise inside the cabin**
- **Cyclone pre-filter for A/C device**
- **Adjustable steering wheel**
- **No high pressure hoses in the operator’s compartment**
- **Inclinometers to indicate operating angle**
- **Dump box alarm buzzer in the cabin**
- **Emergency exit**
- **Floor washable with water to reduce dust**
- **Three-point contact access system with replaceable and colour coded handles and steps**
- **12 V output**
- **Remote circuit breaker switch**

**TIRES**

<table>
<thead>
<tr>
<th>Tire size</th>
<th>29.5 R 25 E4 **</th>
</tr>
</thead>
</table>

**CONVERTER**

Dana C9000 Series with Lock up

**TRANSMISSION**

- **Fully automatic transmission with electric shifting system**
- **Seven gears forward and two reverse**
- **Dana 8000 Series**

**AXLES**

- **Front axle**: Kessler D106 series, spring applied hydraulic operated brakes, equipped with standard differential, oscillation
- **Rear axle**: Kessler D106 series spring applied hydraulic operated brakes, equipped with standard differential

**OPERATIONAL CONDITIONS AND LIMITS**

- **Environmental temperature**: From -20°C to +50°C
- **Standard operating altitude**: With engine Volvo TAD1641VE - B from -1500 m to +1000 m at 25 °C without rated power derate
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**REQUIREMENTS AND COMPLIANCE**

- **Compliance with 2006/95/EC Low voltage directive**
- **Compliance with 2004/108/EC Electromagnetic compatibility directive**
- **Compliance with 2006/42/EC Machinery directive (Equipment for EU area, achieved with relevant options)**
- **Design based on MDG 15. Guideline for mobile and transportable equipment for use in mines. (Equipment for Australia, achieved with relevant options)**
- **"Electrical system based on IEC 60204-1. Safety of machinery – Electrical equipment of machines – Part 1: General requirements*"**
- **"CONTAINS FLUORINATED GREENHOUSE GASES Refrigerant R134a under pressure max 38 bar/550 PSI: Filled weight: 2,000 kg CO2e: 2,860 tons GWP: 1430 Information based on the F Gas Regulation (EU) No 517/2016"**

**OPERATIONAL CONDITIONS AND LIMITS**

<table>
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<th>Requirement</th>
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  - **Average fuel consumption at 40-50% load**: 47 - 59 l/h
  - **Fuel tank capacity**: 700 l
STEERING HYDRAULICS
Fully hydraulic, center articulad, power steering with two double acting cylinders.

- Steering main valve: Pilot operated
- Steering hydraulic cylinders: 125 mm, 2 pcs
- Steering pump: Variable displacement piston pump
- Emergency steering: Option

CONTROLS SYSTEM, DASHBOARD AND DISPLAYS
- Sandvik Intelligent Control system: Standard
- Critical warnings and alarms: Displayed as text and with light, warning and alarm recorded to the control system log
- Instrument Panel: 5.7” Display with adjustable contrast and brightness
- Instrument Panel: Illuminated switches
- My Sandvik Digital Services Knowledge Box™ on-board hardware: Standard
- AutoMine® Trucking compatibility: Standard

FRAME
- Rear and front frame: High strength structure with optimized material thicknesses. Reduced own weight for higher overall hauling capacity and long structural lifetime. Welded steel construction.
- Central hinge: Adjustable lower bearing
- Tanks: Tanks are part of the frame structure
- Automatic central lubrication: Standard

HYDRAULICS
- Main components:
  - Filling pump for hydraulic oil: Standard
  - Door interlock for brake hydraulics: Standard
  - Oil cooler for hydraulic and transmission oil: Capability up to 55°C ambient temperature
  - Fittings: ORFS
  - Hydraulic oil tank capacity: 225 l
  - Sight glass for oil level: 2 pcs

DUMP BOX HYDRAULICS
- Fully hydraulic system, equipped with variable displacement piston pump. Oil flows to box hydraulic system from the steering hydraulics.
- Oil flow from the brake circuit pump is divided to the brake system and oil cooler motor.

- Hydraulic pump: Variable displacement piston pump
- Control valve: Solenoid operated
- Main valve: Solenoid operated
- Cylinders: 160 mm, 2 pcs

BRAKES
- Service brakes are spring applied; hydraulically operated multi disc wet 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. Brake system performance complies with requirements of EN ISO 3450, AS2958.1 and SABS 1589

- Neutral brake: Standard
- Automatic brake activation system, ABA: Standard
- Electrically driven emergency brake release pump: Standard
- Brake pedal valve: Foot operated pedal, fully modulated
- Brake oil tank capacity: 100 l

ELECTRICAL EQUIPMENT
- Main components:
  - Alternator: 28 V, 150 A
  - Batteries: 2 x 12 V, 160 Ah
  - Starter: 24 V, 7 kW
  - Driving lights: LED lights:
    4 pcs in front
    2 pcs in rear
  - Working lights: LED lights:
    2 pcs in rear of cabin
    2 pcs in side of unit
  - Reverse Camera: Standard
  - Parking, brake and indicator (blinker) lights: LED lights:
    2 pcs in front
    2 pcs in rear
  - Control system: 5.7” Color display, 5 modules, inbuilt system diagnostics
  - Reverse alarm (CEN): Standard
  - Flashing beacon: Standard
INCLUDED SAFETY FEATURES

FIRE SAFETY
- Portable fire extinguisher: 12 kg (CEN)
- Hot side - cold side design: Standard
- Isolation of combustibles and ignition sources: Standard
- Heat insulation on exhaust manifold, turbo, and isolated exhaust pipe: Standard

ENERGY ISOLATION
- Lockable main switch, ground level access: Standard
- Emergency stop push buttons according to EN ISO 13850: 1 pc in cabin, 1 pc in front frame, 2 pcs in rear frame
- Pressure release in the radiator cap: Standard
- Automatic discharge for pressure accumulators (brake system and pilot circuit): Standard
- Frame articulation locking device: Standard
- Mechanical dump box locking device: Standard
- Wheel chocks and brackets: Standard

DOCUMENTATION

STANDARD MANUALS
- Operator’s Manual: English and other EU languages
- Maintenance Manual: English and other EU languages
- Parts Manual: English
- Service and Repair Manual: English
- ToolMan: 2 x USB stick in pdf format, includes all the manuals
- Decals: English and other EU languages

OPTIONS

SAFETY OPTIONS
- Cold climate package (incl. cabin heater, cabin window defroster and side mirrors with defroster system)
- Arctic package 230 V (preheater for hydr. oil tank, transmission and engine block)
- Arctic package 120 V (preheater for hydr. oil tank, transmission and engine block)
- Seat, Actimo XXL with high backrest + headrest, adjustable armrests, wide seat cushion
- Lower cabin height, 2716 mm
- Proximity Detection Interface
- Control system tool kit
- Driving direction lights (red / green)
- Fire suppression system ANSUL, 2 tanks, 8 nozzles (CEN), including auto shutdown (not for automation)
- Fire suppression system ANSUL, 2 tanks, 8 nozzles (CEN), CHECKFIRE, including auto shutdown
- Fire suppression system Sandvik Eclipse with auto shutdown
- Safety rails
- Emergency steering (CEN)
- AutoMine® Trucking: Onboard Package w. ACS1.0
- AutoMine® Trucking: Onboard Package w. ACS2.0 w. “PLC”
- AutoMine® Trucking: Onboard Package w. ACS2.0 w. “DIO”

ALTERNATIVE ENGINE
- Diesel engine: Volvo TAD1670VE, Engine brake
  - Requirements: Ultra low sulphur fuel and AdBlue
  - Output: 405 kw (543 hp) @ 1900 rpm
  - Torque: 2750 Nm @ 1000 rpm
  - Emissions: Tier 4f / Euro Stage IV
  - Ventilation rate (Ultra low sulphur diesel): CANMET 16, 900 CFM, MSHA 16,000 CFM
  - Particulate index (Ultra low sulphur diesel): MSHA Particulate Ventilation Index 2,000 CFM
  - Average fuel consumption at 40% - 50% load: 39 - 49 l/h

ELECTRICAL OPTIONS
- Jump start interface
- Control system tool kit

OTHER OPTIONS
- Cover grills for lamps
- Gear limit
- Spare rim 25.00-25/3.5 (for tyres 29.5R25)
- Aggressive water package (stainless steel pipes and fittings, sealed alternator)
- Wiggins quick filling set for fuel and oils (hydraulic, engine and transmission)
- Wiggins fuel fill system
- Integrated weighing system
- ToolMan CD
- Customer specific disassembly and sling ing down drawings / instructions
- Accordance with CE-norms (CEN)
### GRADE PERFORMANCE
**Volvo TAD1641VE - B (Tier 2)**

<table>
<thead>
<tr>
<th>Percent grade</th>
<th>0.0</th>
<th>10.0</th>
<th>14.3</th>
<th>20.0</th>
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</thead>
<tbody>
<tr>
<td><strong>Ratio</strong></td>
<td>1:10</td>
<td>1:7</td>
<td>1:5</td>
<td></td>
</tr>
<tr>
<td><strong>1st gear (km/h)</strong></td>
<td>5.5</td>
<td>5.4</td>
<td>5.4</td>
<td>5.4</td>
</tr>
<tr>
<td><strong>2nd gear (km/h)</strong></td>
<td>7.2</td>
<td>7.1</td>
<td>7.1</td>
<td>7.0</td>
</tr>
<tr>
<td><strong>3rd gear (km/h)</strong></td>
<td>9.8</td>
<td>9.7</td>
<td>9.6</td>
<td>9.5</td>
</tr>
<tr>
<td><strong>4th gear (km/h)</strong></td>
<td>13.0</td>
<td>12.7</td>
<td>12.5</td>
<td>12.3</td>
</tr>
<tr>
<td><strong>5th gear (km/h)</strong></td>
<td>17.2</td>
<td>16.6</td>
<td>16.4</td>
<td>15.6</td>
</tr>
<tr>
<td><strong>6th gear (km/h)</strong></td>
<td>22.8</td>
<td>21.8</td>
<td>20.8</td>
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<td><strong>7th gear (km/h)</strong></td>
<td>31.0</td>
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### EMPTY

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<td>5.4</td>
<td>5.4</td>
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</tr>
<tr>
<td><strong>2nd gear (km/h)</strong></td>
<td>7.2</td>
<td>7.1</td>
<td>7.1</td>
<td>7.0</td>
</tr>
<tr>
<td><strong>3rd gear (km/h)</strong></td>
<td>9.8</td>
<td>9.4</td>
<td>9.0</td>
<td></td>
</tr>
<tr>
<td><strong>4th gear (km/h)</strong></td>
<td>12.9</td>
<td>12.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>5th gear (km/h)</strong></td>
<td>17.0</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>7th gear (km/h)</strong></td>
<td>30.6</td>
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### LOADED

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<td><strong>1st gear (km/h)</strong></td>
<td>5.5</td>
<td>5.3</td>
<td>5.3</td>
<td>5.2</td>
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<tr>
<td><strong>2nd gear (km/h)</strong></td>
<td>7.2</td>
<td>7.0</td>
<td>6.9</td>
<td>6.6</td>
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<tr>
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<td>30.6</td>
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### GRADE PERFORMANCE
**Volvo TAD1670VE (Tier 4f)**

<table>
<thead>
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<th>Percent grade</th>
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<tr>
<td><strong>2nd gear (km/h)</strong></td>
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<td>5.9</td>
</tr>
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<td>9.3</td>
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<td></td>
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<td></td>
<td></td>
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## DIMENSIONS

<table>
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<tr>
<th>Standard</th>
<th>18 m³</th>
<th>20 m³</th>
<th>22 m³</th>
<th>24 m³</th>
<th>26 m³</th>
<th>20 m³ Ejector</th>
</tr>
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<tbody>
<tr>
<td><strong>Dump box alternatives (m³)</strong></td>
<td>18 m³</td>
<td>20 m³</td>
<td>22 m³</td>
<td>24 m³</td>
<td>26 m³</td>
<td>20 m³ Ejector</td>
</tr>
<tr>
<td><strong>Material broken density (kg/m³)</strong></td>
<td>2800 kg/m³</td>
<td>2500 kg/m³</td>
<td>2300 kg/m³</td>
<td>2000 kg/m³</td>
<td>1800 kg/m³</td>
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<td>10700</td>
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<td>L4 (mm)</td>
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