



Bed size	Struck volume	A	B
16,5m <sup>3</sup>	13,2m <sup>3</sup>	5957	2542
18m <sup>3</sup>	14,7m <sup>3</sup>	6010	2655
20m <sup>3</sup>	16,6m <sup>3</sup>	6081	2806
22m <sup>3</sup>	18,5m <sup>3</sup>	6151	2955

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



Sandvik Mining and Construction Oy  
P.O. Box 434  
20101 Turku, Finland  
Tel. +358 205 44 131  
Fax +358 205 44 130  
www.smc.sandvik.com

## Main dimensions

Total length	10 484 mm (413")
Total width	3 005 mm (118")
Height	2 686 mm (106")
Max. height of the box 18 m <sup>3</sup>	2 656 mm (105")

## Weights

Operating weight	34 700 kg (76 400 lb)
Total loaded weight	74 700 kg (164 600 lb)
Axle weights without load	
front axle	25 900 kg (57 000 lb)
rear axle	8 800 kg (19 400 lb)
Axle weights with load	
front axle	37 200 kg (82 000 lb)
rear axle	37 500 kg (82 700 lb)

Unit weight is dependent on the selected options

## Capacities

Payload capacity	40 000 kg (88 200 lb)
Box std. (heaped, SAE J1363)	18.0 m <sup>3</sup> (24yd <sup>3</sup> )

## Dump box movements

Discharging time	14 sec
Dumping angle	62°

## Driving speeds forward and reverse

1st gear	6.4 km/h (4.0 mph)
2nd gear	8.6 km/h (5.3 mph)
3rd gear	11.6 km/h (7.2 mph)
4th gear	15.3 km/h (9.5 mph)
5th gear	20.2 km/h (12.6 mph)
6th gear	26.6 km/h (16.5 mph)
7th gear	36.0 km/h (22.4 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 TAD1364VE (MSHA approved)
Output	375 kW (503hp) / 1900 r/min
Torque	2546 Nm 1878 lbf ft) / 1350 rpm
Number of cylinders	in line 6
Displacement	12.78 l
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 l (185 gal.)
Engine shut down with low hydraulic or brake oil level	

## Standard converter

Dana CL9672	With lock-up, offset 1:1.
-------------	---------------------------

## 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, 21D 3847, oscillation ± 13°.
Rear axle	Dana, 21D 3847, fixed

## Standard tyres

Size and type	26.5R25 E4 **
	Brand and type subject to availability
Air pressure:	front 550 kPa (5.5 bar) (80 psi)
	rear 700 kPa (7.0 bar) (101 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	2670 mm (105")

## Steering hydraulics

Full hydraulic, center articulated, power steering with two double acting cylinders, turning angle ± 42.5°. Steering is equipped with load sensing Danfoss system and a steering wheel.

Turning radius, inner	5090 mm (200")
Turning radius, outer	9130 mm (359")

Main components in steering system:

Steering pump	
Steering cylinders	
Steering valves	
Pressure setting for steering hydraulic circuit port relief valves	19.0 MPa (190 bar) 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. Oil 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 port relief valves:	26.0 MPa (260 bar)
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 capacity	225 liters (60 gal)
Electrical fill up pump for hydraulic oil	

**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
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
Parts Manual	English
Service and Repair Manual	English
ToolMan CD, (2 pcs)	In pdf format
-Instructions Manual	
-Operator's Manual	
-Maintenance Manual	
-Parts Manual	
-Service and Repair Manual	

**Main options:**

- \* Replaces standard equipment
- \* Engine Volvo TAD1364VE, 375 kW (503 hp)  
Euro Stage 3B / Tier 4i (for EU and Japan)
- \* Engine Detroit S60 DDEC IV, 354 kW (475hp)  
(MSHA approved)
- \* Dump box capacity 20,0m<sup>3</sup>(26 yd<sup>3</sup>)  
(heaped, SAE J1363), width 2760/2980mm.
- \* Dump box capacity 22,0m<sup>3</sup>(29 yd<sup>3</sup>)  
(heaped, SAE J1363), width 2760/2980mm.
- 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 shutdown
- Fire suppression system ANSUL, two tank system with 8 nozzles (CEN), CHECKFIRE, including auto engine shutdown
- Sandvik FS1000 fire suppression system, including auto engine shutdown
- 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)
- Foldable safety rails
- Flashing beacon
- 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