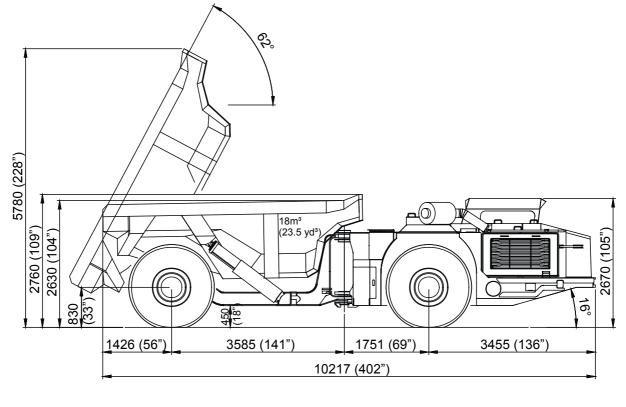
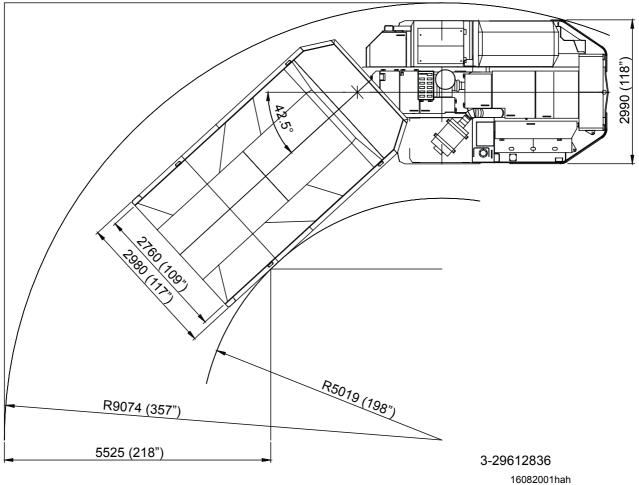


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SANDVIK TAMROCK Corp., P.O. Box 434 FIN-20101 Turku, Finland Tel. +358 20544131 Fax. +358 20544130 www.toro.sandvik.com



# TORO 40

#### TECHNICAL SPECIFICATION T0040-3

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Main dimensions	
Total length	10 217 mm (402")
Total width Height	2 990 mm (118") 2 670 mm (105")
Max. height of the box	2 760 mm (109")
Weights	
Operating weight	30 700 kg (67 700 lb)
Total loaded weight Axle weights without load	70 700 kg (155 900 lb) I
front axle	22 200 kg (49 000 lb)
rear axle	8 500 kg (18 700 lb)
Axle weights with load front axle	33 400 kg (73 600 lb)
rear axle	37 300 kg (82 200 lb)
Capacities	
Payload capacity	40 000 kg (88 125 lb)
Box std.	18.0 m³ (24yd³)
Dump box movements	<b>s</b> 13 sec
Discharging time Dumping angle	62°
Driving speeds forwar	rd and reverse
1st gear	6.0 km/h (3.7 mph)
2nd gear	8.0 km/h (5.0 mph)
3rd gear 4th gear	11.0 km/h (6.8 mph) 14.5 km/h (9.0 mph)
5th gear	19.0 km/h (11.8 mph)
6th gear	25.5 km/h (15.8 mph)
7th gear 8th gear	35.0 km/h (21.7 mph) 45.0 km/h (27.9 mph)
Reversing with 1st and 3	
Frame	
Rear and front frame	Welded steel construction
Material Central hinge	Raex 384 (St 52-3) Box constructed.
ochtar minge	adjustable lower bearing
Firewall	
Standard engine	
Diesel engine (Euro Stage II / Tier II)	Detroit S-60 DDEC IV
Output	354 kW / 2100 r/min (475 hp)
Torque	2102 Nm / 1350 rpm
Number of cylinders Displacement	in line 6 12 700 cm³
Cooling system	Water cooled
Combustion principle	Direct injected, turbo + inter
Air filtoring	cooler, 4- stroke
Air filtering Exhaust system	Donaldson HTI covered exhaust manifold &
	Turbo,
	Double wall exhaust pipe, Catalytic purifier and muffle
Fuel tank capacity	550 I (145 gal.)
Standard converter	( 3)
Dana SOH, CL 8672	one stage, offset 1.118:1

Gearb	ох
Dana	SOH

Dana SOH, 8821		er shift transmission with electric mote shifting system, eight gears forwards and two reverse
Standard axles	-	
Front axle	Dana	SOH, 21D 3847, oscillation $\pm$ 9°.
Rear axle		Dana SOH, 21D 3847, fixed
Standard tyres		
Size and type		26.5R25, Bridgestone VALS E4
Air pressure:	front	550 kPa (5.5 bar) (80 psi)
	rear	700 kPa (7.0 bar) (101 psi)
Other type of tyr	es avail	able to user's choice. In certain
applications the productive capabilities of the truck may		
exceed the TKPH value given by tyre manufacturer.		
Sandvik Tamrock recommend that the user consult their		
tyre supplier to evaluate conditions and to find the best		
solution for application.		
solution for applic	Jacon.	

#### Cabin

Safety canopy with electric gear shift control Height 2600 mm (102")

## **Steering hydraulics**

Full hydraulia, contar articulated	bower eteering with two
Full hydraulic, center articulated	
double acting cylinders, turning	angle ± 42.5°. Steering is
equipped with load sensing	Danfoss system and a
steering wheel.	
Turning radius, inner	4944 mm (195")
Turning radius ,outer	9000 mm (354")
Main components in steering sys	stem:
Steering pump	David Brown
Steering cylinders	Tamrock
Steering valves	Danfoss
Pressure setting for	
steering hydraulic circuit	17.5 MPa (175 bar)
port relief valves	24.0 MPa (240 bar)
•	( )

### **Box hydraulics**

Full hydraulic servo controlled system, equipped with heavy-duty gear pump. Oil flow to box hydraulic system from the steering hydraulics. Oil flow from the servo circuit pump is divided also to the oil cooler motor and brake system.

#### Main components:

Main components.	
Cylinders for dump box valves	Tamrock
Valves for dump box	David Brown
Pump for dump box hydraulics	Commercial
Pump for servo circuit	David Brown
Fittings	ORFS
Steel piping hydraulics	
Oil cooler for hydraulic oil	
Hydraulic oil tank capacity	appr. 350 liters (92 gal)
Pressure setting for:	
servo circuit	2,5 MPa (25 bar)
dump box hydraulics	21.0 MPa (210 bar)
port relief valves:	
piston end	25.0 MPa (250 bar)
piston rod end	10.0 MPa (100 bar)

#### **Standard brakes**

Service and emergency brakes are fully hydraulic Dana SOH liquid cooled brakes (LCB), two circuits for the service brakes and one for the emergency brake. Parking brake consists of two spring applied, hydraulically released drive line disc brake

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# Standard Lubrication system

Centralized manual lubrication

<b>Electrical equipment</b>	
Alternator	24 V 140 A, Bosch
Batteries	2 pcs, 12 V 160 Ah
Starter	24 V
Driving and working light	
forward	2 pcs (H4 70W), 3 pcs (H1 70W)
reverse	5 pcs (H1 70W)
Electrical gauges	fuel gauge
Others	

# Decal language ENG/FIN/SWE/RUS/SPA/DEU/FRA.

## Standard manuals

3pcs Spare part manual: Operation instructions Maintenance instructions Engine spare part information Machine spare part information	main European languages main European languages English English
Workshop manual Operation instructions Maintenance instructions Engine workshop manual Power train components manua Optional equipment instructions	0

### **Optional equipment**

- \* replaces standard equipment
- \* Dump box capacity 18,0 m<sup>3</sup>(24yd<sup>3</sup>),width 2960/3240mm, flat front.
- \* Dump box capacity 19,0m<sup>3</sup>(25yd<sup>3</sup>),width 3260/3540mm, flat front.
- \* Dump box capacity 20,0m<sup>3</sup>(26 yd<sup>3</sup>),width 2760/2980mm.
- \* Dump box capacity 20,0m<sup>3</sup>(26yd<sup>3</sup>),width 2960/3240mm, flat front.
- \* Dump box capacity 20,0 m<sup>3</sup>(26yd<sup>3</sup>),width 3260/3540mm, flat front.
- \* Dump box capacity 22,0m<sup>3</sup>(29 yd<sup>3</sup>),width 2760/2980mm.
- \* Ejector box, capacity 16.5 m<sup>3</sup> (22 yd<sup>3</sup>).
- \* ROPS/FOPS safety cabin with air cond. and stereos, height 2670mm (105") (CEN).
- \* Automatic central lubrication.
- \* Posi-stop brakes.
- Heater for cabin.
- Exhaust pipe covering, Grey Sleeve (CEN).
- Automatic brake activation ABA.
- Auto engine shut down, ANSUL / DDEC.
- Emergency steering (CEN).
- Tail gate.
- · Load weighing gauge.
- Load weighing device, Tamtron AWI 200.
- Electrical retarder TELMA.
- Exhaust brake "Jake Brake"
- Signal horn for dump box up.
- Blinkers, braking lights.
- Reverse blinkers and reverse horn.
- Signal lights for hydr.oil level, fuel level and box up.
- Fire suppression system ANSUL, two tank system with 12 nozzles (CEN).
- Fire extinguisher 12kg (CEN).
- Additional spare part manuals.
- Additional workshop manuals.
- Cat Base spare part manual.
- Spare wheel 26.5\*25, Bridgestone VALS E4.
- Spare rim (26.5R25).
- Shiftronics automatic gear shifting, lock up.
- Reverse camera.
- Accordance with CE-norms (CEN).
- Disassembly needed shaft dim: \_\_\_\_ mm x \_\_\_\_ mm.

