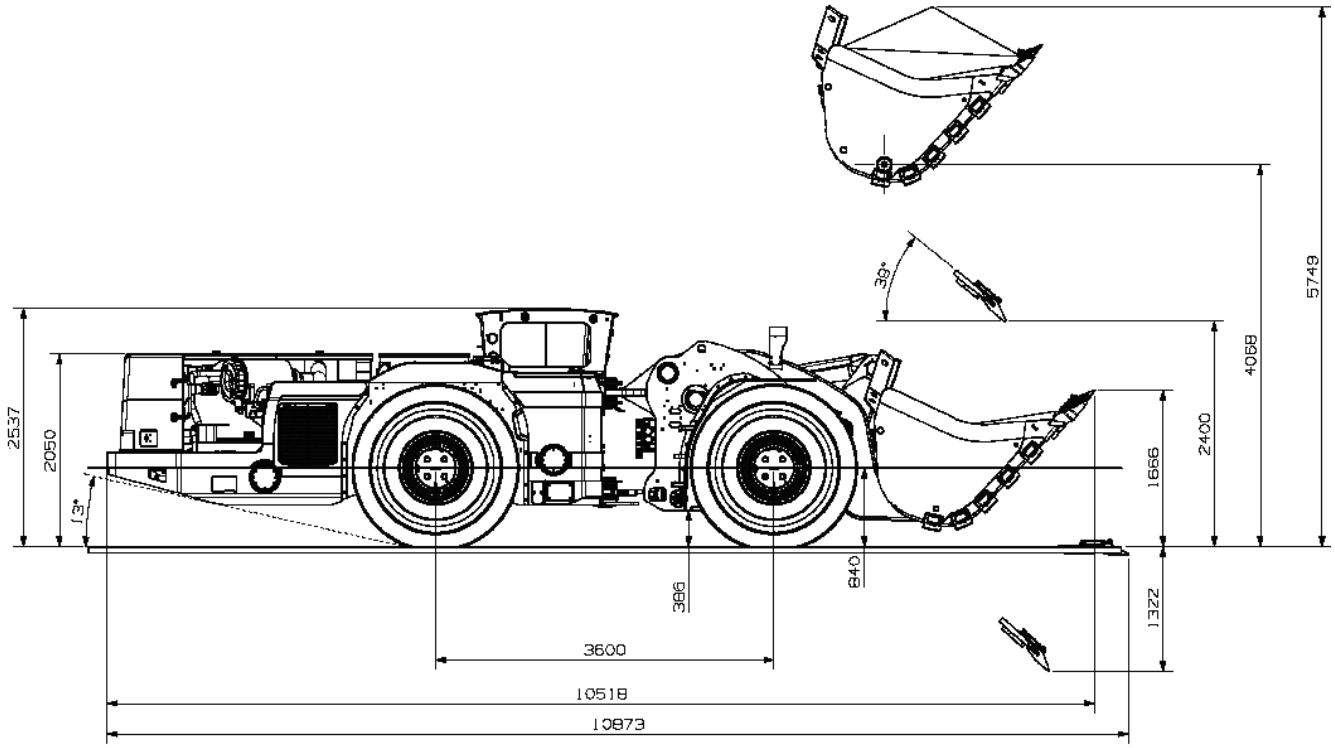
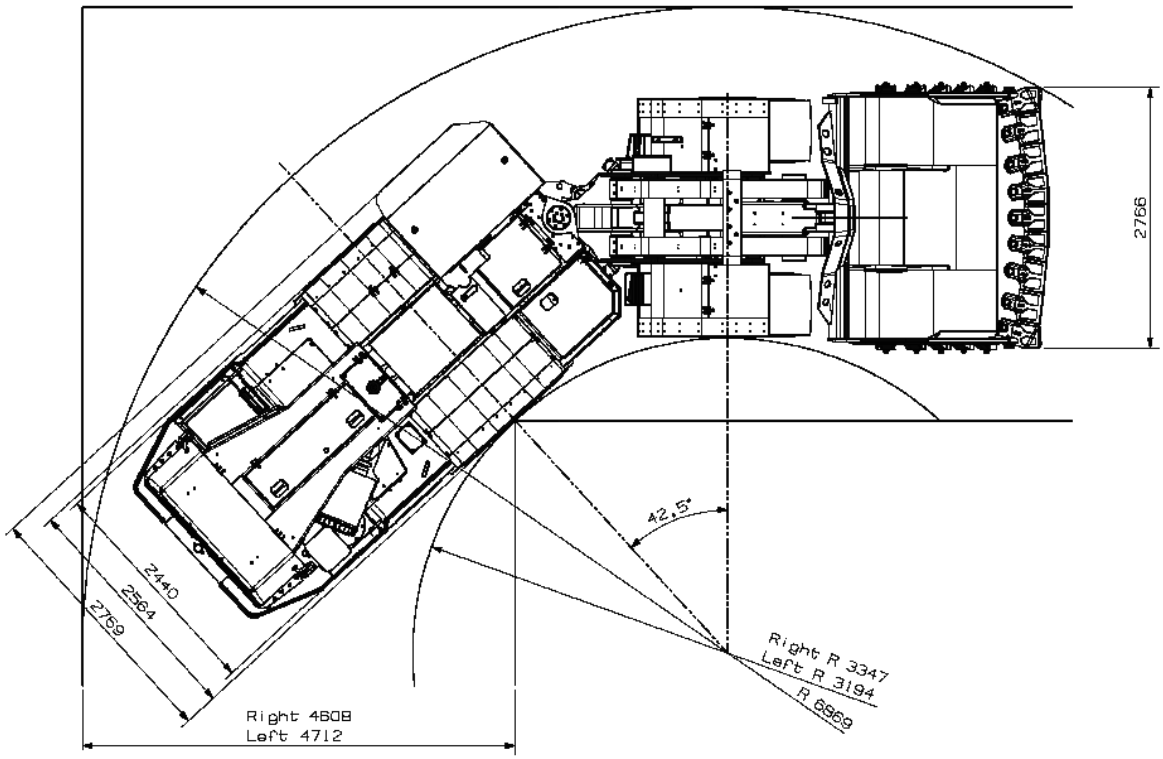




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Sandvik Mining and Construction Oy
P.O. Box 434
20101 Turku, Finland
Tel. +358 205 44 131
Fax +358 205 44 130
www.smc.sandvik.com

Main dimensions

Total length	10 870 mm (428")
Width without bucket (canopy)	2 730 mm (107")
Maximum width with canopy	2 880 mm (111")
Maximum width with cabin	2 920 mm (115")
Height with safety canopy or cabin	2 540 mm (100")

Weights

Operating weight	38 100 kg (84 000 lb)
Total loaded weight	52 100 kg (114 000 lb)
Shipping weight	37 700 kg (83 100 lb)
Axle weights without load:	
front axle	16 700 kg (36 800 lb)
rear axle	21 400 kg (47 200 lb)
Axle weights with load:	
front axle	38 625 kg (85 200 lb)
rear axle	13 475 kg (29 700 lb)

Unit weight is dependent on the selected options

Capacities

Tramming capacity	14 000 kg (30 865 lb)
Breakout force, lift	275 kN (28 042 kg) (61 822 lb)
Breakout force, tilt	230 kN (23 453 kg) (51 705 lb)
Tipping load	29 200 kg (64 375 lb)
Bucket std.	5,4 m³ (7.0 yd³), GET–abrasion system

Bucket motion times

Raising time	7.0 sec.
Lowering time	4.0 sec.
Tipping time	2.3 sec

Driving speeds forward and reverse

1st gear	5,2 km/h (3.2 mph)
2nd gear	9,2 km/h (5.7 mph)
3rd gear	15,5 km/h (9.6 mph)
4th gear	26,0 km/h (16.2 mph)

Frame

Rear and front frame	Welded steel construction
Central hinge	Adjustable upper bearing

Hydr. tank and cabin base bolted and welded to the frame.
Firewall.

Standard engine

Diesel engine	Volvo TAD1340VE, Tier2
Output	256 kW (343 Hp) / 2100 r/min
Torque	1770 Nm / 1260 rpm
Number of cylinders	In line 6
Displacement	12.78 liters
Cooling system	Water cooled
Combustion principle	Four stroke/turbo, intercooler
Electric system	24 V
Air filtering	Dry type
Exhaust system	Double wall exhaust manifold and turbo
Fuel tank capacity	420 l (110 gal.)

Standard converter

Dana C9000 series	No lock-up

Gearbox

Dana 5000 series	Power shift (automatic gear shift control) gear box with modulation, 4 + 4 speeds
Hosing	Hi-Temp 150/170

Standard axles

Front axle	Kessler D106, Posi Stop brakes, limited slip differential, fixed
Rear axle	Kessler D106, Posi Stop brakes, limited slip differential, oscillating ± 8°.

Standard tyres

Size and type	26.5x25 L5S, 36ply
	Brand and type subject to availability

In certain applications the productive capabilities of the loader may exceed the TKPH value given by the tyre manufacturer. Sandvik Mining and Construction recommends that the user consult with their tyre supplier to evaluate specific conditions to secure the correct technical solution.

Standard Canopy

ROPS / FOPS certified canopy.

Height	2540 mm (100")

Controls

Joystick bucket & steering, gear selector buttons on the joystick. Automatic gear selection.
Heavy duty switches

Steering hydraulics

Hydraulic, centre-point articulation, power steering with two double acting cylinders. Steering controlled by electric joy-stick, interlock protection. Emergency steering is optional.

Turning angle	42,5°
Turning radius (with std bucket):	
Inner left	3190 mm (126 ")
Outer	6870 mm (270 ")

Main components in steering system:	
Main valve	
Steering cylinders	2 pcs, 125 mm (5")
Steering pump	Piston type
Pressure settings:	
Steering hydraulics	21,0 Mpa (210 bar)
Shock load valves	23,0 Mpa (230 bar)

Bucket hydraulics

Monostick bucket and boom control (electric). Lift by two ø160 mm cylinders. Tilt by one ø220 mm cylinder with Z-linkage. The bucket hydraulics has one piston pump, which delivers oil to the bucket hydraulic main valve. The oil flow from steering hydraulic pump is directed to bucket hydraulics when steering is not used.

Pressure setting for:	
Servo circuit	3.5 Mpa (35 bar)
Bucket hydraulics	28.5 Mpa (285 bar)
Shock load valves	30.0 Mpa (300 bar)
Main components:	
Servo control valve	
Main valve	
Pump for bucket hydraulics	
Fittings	ORFS
Hoses	High temperature
Oil cooler for hydraulic and transmission oil, capability up to 52°C ambient temperature	
Hydraulic oil tank capacity	Appr. 300 l (80 gal)

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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

Standard Lubrication system

Centralized manual lubrication

Electrical equipment

Alternator	24 V 140 A, Bosch
Batteries	2 x 12 V, 180 Ah
Starter	9 kW, 24 V, Bosch
Driving and working lights	2 pcs in front, 65 W 2 pcs in rear, 65 W 2 pcs in canopy, 65 W
Parking ligths	2 pcs in front (LED ligths) 2 pcs in rear (LED ligths)
Brake lights	
Blinkers	
Control system	5,7” display, 5 modules, inbuild system diagnostics

Safety equipment

Seat belt
Lockable main switch
Reverse alarm (CEN)
External shutdown, 2 pcs in rear

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 TAD1360VE, 256kW (343 hp) / 1900 r/min, Torque 1745 Nm / 1200 rpm Euro Stage 3B / Tier 4i (Only for EU & Japan)
- * Bucket size 4.6 m^3 (6.0 yd^3), width 2770 mm (106“), GET abrasion system
- * Bucket size 5,0 m3 (6.5 yd^3), width 2770 mm (106“), GET abrasion system
- * Bucket size 6.2 m^3 (8.1 yd^3), width 2770 mm (106”), GET abrasion system
- * Bucket size 7.0 m^3 (9.1 yd^3), width 3060 mm (118”), GET abrasion system
- * Ejector bucket 5.4 m^3 (7.0 yd^3), width 3000 mm (118”), HB500/400
- * Side tipping bucket, 5,4 m3
- * Automatic central lubrication
- * Converter with lock-up
- Electrical fill up pump for hydraulic oil
- * Safety cabin, ROPS/FOPS, height 2540mm (100”), A/C, electrical steering & bucket
- Fire extinguisher 12 kg
- Fire suppression system ANSUL, two tanks, 8 nozzles (CEN) with auto engine shut down
- Fire suppression system ANSUL, two tanks, 8 nozzles (CEN), CHECKFIRE with auto engine shut down
- Sandvik FS1000 fire suppression system with auto engine shut down
- RRC HBC, complete
- RRC interface HBC, not with automation
- RRC recovery kit, hook included
- Ride control system with boom float
- Emergency steering (CEN)
- Accordance with CE-norms (CEN)
- Disassembly needed shaft dim: TBA
- Rotating beacon (CEN with RRC)
- Load weighing device, Tamtron PKVS 300 M
- Load weighing device, Tamtron PKVS 300 C
- Wiggins fill set (hydr,transm, eng. oil)
- Wiggins fuel fill system
- CatBase/LinkOne spare part manuals and additional Instructions, Workshop, Spare part manuals, ToolMan CD’s are available

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