SANDVIK TH330
UNDERGROUND TRUCK

TECHNICAL SPECIFICATION

Sandvik TH330 is a narrow 30 metric tonne truck that fits in a 3 x 3 metre heading. Available with a standard forward facing, open operator compartment or an optional forward facing, fully enclosed and air conditioned cabin, Sandvik TH330 offers superior comfort without compromising visibilty.

Sandvik TH330 is well suited for:

- Ramp or level production haulage in small to medium sized mines
- Small tunnelling projects
- Three pass loading with the Sandvik LH400T

CAPACITIES	
Payload capacity (SAE heaped 2:1)	30 000 kg
Standard dump box	16.5 m^3
Maximum broken density	2000 kg/m^3

SPEEDS FORWARD (LEVEL/LOADED)	
1st gear	4.5 km/h
2nd gear	8.0 km/h
3rd gear	13.9 km/h
4th gear	24.5 km/h

DUMP BOX MOTION TIMES & MOVEMENTS	
Discharging time	14 sec
Dumping angle	65°

OPERATING WEIGHTS *	
Total operating weight	22 600 kg
Front axle	15 700 kg
Rear axle	6 900 kg

LOADED WEIGHTS *	
Total loaded weight	52 600 kg
Front axle	22 300 kg
Rear axle	30 300 kg

* Unit weight is dependent on the selected options

OPERATIONAL CONDITIONS AND LIMITS	
Environmental temperature	From -20°C to +45°C
Standard operating altitude	With engine Mercedes OM 926 LA from -1500 m to +2500 m at 25 °C without rated power derate

REQUIREMENTS AND COMPLIANCE
Compliance with 2006/95/EC Low voltage directive
Design based on EN 1889-1. Machines for underground mines. Mobile machines working underground. Safety. Part 1: Rubber tyred vehicles.
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: 1,800 kg CO2e: 2,574 tons GWP: 1430 Information based on the F Gas Regulation (EU) No 517/2016

POWER TRAIN

ENGINE	
Diesel engine	Mercedes OM 926 LA (Tier 3)
Output	240 kw (322 hp) @ 2200 rpm
Torque	1300 Nm @ 1300 rpm
Number of cylinders	In-line 6
Displacement	7.2 l
Cooling system	Liquid cooled
Combustion principle	4-stroke, direct injection, turbo, after cooler
Air filtration	Dry Type
Electric system	24 V
Emissions	Tier 3, Euro Stage III A
Ventilation rate (Ultra low sulphur diesel)	CANMET 22,500 CFM m3/s (CSA Ventilation)
Exhaust system	Catalytic converter with muffler
Average estimated fuel consumption at 50% load	30 l/h
Fuel tank refill capacity	350 l

CONVERTER
Dana C8000 Series with Lock up

TRANSMISSION
Fully automatic transmission with electric remote shifting system. Four forward and four reverse gears.
Dana 6000 Series

TIRES	
Tire size (Tires are application approved. Brand and type subject to availability.)	23.5 R 25** radial tires

AXLES	
Front axle	Kessler D91 series spring applied hydraulic operated brakes, equipped with standard differential, oscillation
Rear axle	Kessler D91 series spring applied hydraulic operated brakes, equipped with standard differential, fixed

OPERATOR'S COMPARTMENT

CABIN (CABIN OPTION REPLACES THE STANDARD CANOPY)
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
Laminated 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
No high pressure hoses in the operator's compartment
Inclinometers to indicate operating angle
Emergency exit
Floor washable with water to reduce dust
Three-point contact access system with replaceable and colour coded handles and steps
Remote circuit breaker switch

CANOPY (STANDARD)
ROPS certification according to EN ISO 3471
FOPS certification according to EN ISO 3449
No high pressure hoses in the operator's compartment
Inclinometers to indicate operating angle
Emergency exit
Floor washable with water to reduce dust
Three-point contact access system with replaceable and colour coded handles and steps
Remote circuit breaker switch

OPERATOR'S SEAT
Low frequency suspension
Height adjustment
Adjustment according to the operator's weight
Fore-aft isolation
Padded and adjustable arm rests
Adjustable lumbar support
Selectable damping
Two-point seat belt

CONTROL SYSTEM, DASHBOARD AND DISPLAYS
Critical warnings and alarms displayed with light
Instrument panel with electrical gauges, 2,8" Display
Instrument panel with illuminated switches

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 with adjustable lower bearing
Tanks part of the frame structure
Automatic central lubrication

HYDRAULICS

MAIN COMPONENTS

Door interlock for brakes
Oil cooler for hydraulic and transmission oil capability up to 46°C ambient temperature
ORFS fittings
Hydraulic oil tank capacity 378 l
Sight glass for oil level,1 pc

STEERING HYDRAULICS

Full hydraulic power steering, center articulated with double acting steering Cylinders. Open-center system with a gear pump and wheel steer control

Steering main valve	Pilot operated
Steering hydraulic cylinders	114 mm, 2 pcs
Steering pump	Gear pump

DUMP BOX HYDRAULICS

Full hydraulic open-center system with one gear pump. Oil flows to the dump box hydraulic system from the pump when the steering system is not in use. Joystick dump box control.

Hydraulic pump	Gear pump
Control valve	Pilot operated
Main valve	Pilot operated
Cylinders	159 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
Automatic brake activation system, ABA
Electrically driven emergency brake release pump
Foot operated brake pedal, fully modulated

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 manuals
Decals	English and other EU languages

ELECTRICAL EQUIPMENT

MAIN COMPONENTS

Alternator	24 V, 150 A
Batteries	2 x 12V, 950 CCA
Starter	24 V, 5.5 kW
Driving lights	LED lights: 4 pcs in front 2 pcs in rear
Working lights	LED light, 1 pc in rear of cabin
Parking, brake and indicator (blinkers) lights	LED lights: 2 pcs in front 2 pcs in rear
Control system with color display, inbuilt system diagnostics	
Reverse alarm	
Flashing beacon	
Marker lights	

INCLUDED SAFETY FEATURES

FIRE SAFETY

Portable fire extinguisher, 6 kg
Hot side - cold side design
Isolation of combustibles and ignition sources
Heat insulation on exhaust manifold, turbo, and isolated exhaust pipe

ENERGY ISOLATION

Lockable main switch, ground level access
Emergency stop push buttons according to EN ISO 13850
Pressure release in the radiator cap
Automatic discharge for pressure accumulators (brake system and pilot circuit)
Frame articulation locking device
Mechanical dump box locking device
Wheel chocks and brackets

OPTIONS

Enclosed operator's cabin with A/C and heater
Proximity Detection System interface
Fire suppression system ANSUL, 1 tank, 6 nozzles, including auto shutdown
Fire suppression system ANSUL, 1 tank, 6 nozzles, CHECKFIRE, including auto shutdown
Reverse camera
Emergency steering
Jump start interface
Cover grills for lamps
Mercedes-Benz engine exhaust brake
Spare rim 25- 19.5/2.5 (for tyres 23.50R25)
Wiggins fuel fill system
Aggressive water package (epoxy coated coolers, NiCr coated cylinders)

GRADE PERFORMANCE

Mercedes OM 926 LA (Tier 3)

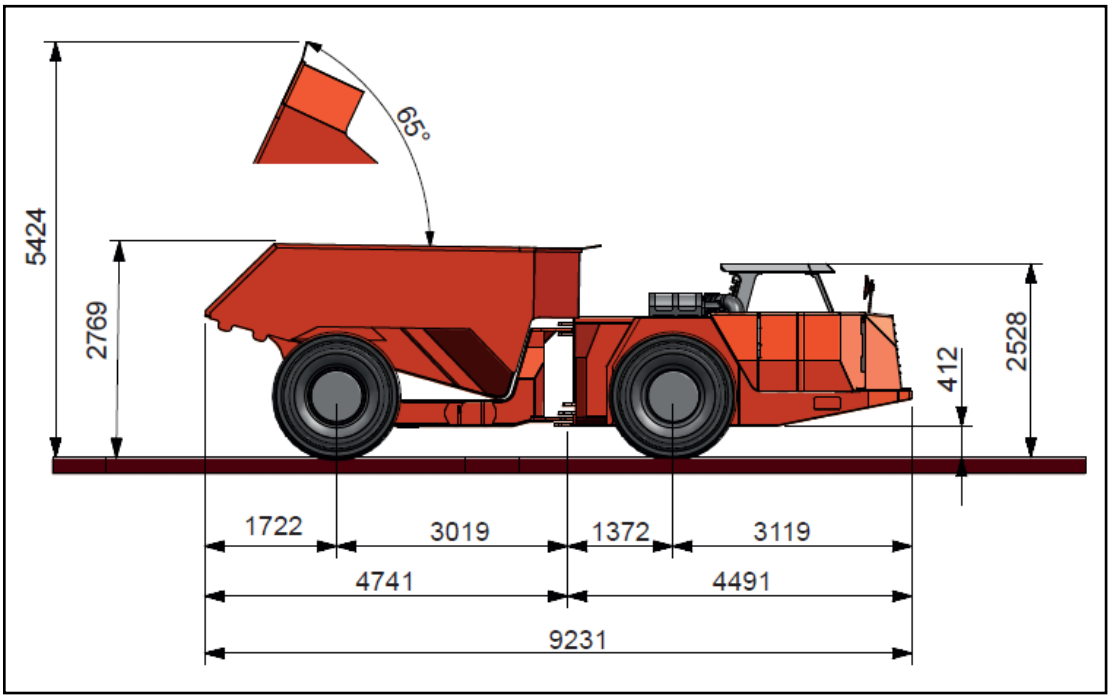
EMPTY

Percent grade	0.0	10. 0	14.3	20.0
Ratio		1:10	1:7	1:5
1st gear (km/h)	4,4	4,1	4,0	4,0
2nd gear (km(h)	7,7	7,1	6,9	6,7
3rd gear (km/h)	13,3	11,8	10,8	9,2
4th gear (km/h)	23,1	16,3	12,7	8,5

LOADED

Percent grade	0.0	10. 0	14.3	20.0
Ratio		1:10	1:7	1:5
1st gear (km/h)	4,3	3,9	3,7	3,5
2nd gear (km(h)	7,4	6,1	5,2	4,2
3rd gear (km/h)	12,6	7,3	4,9	1,4
4th gear (km/h)	21,4	1,0		

DIMENSIONS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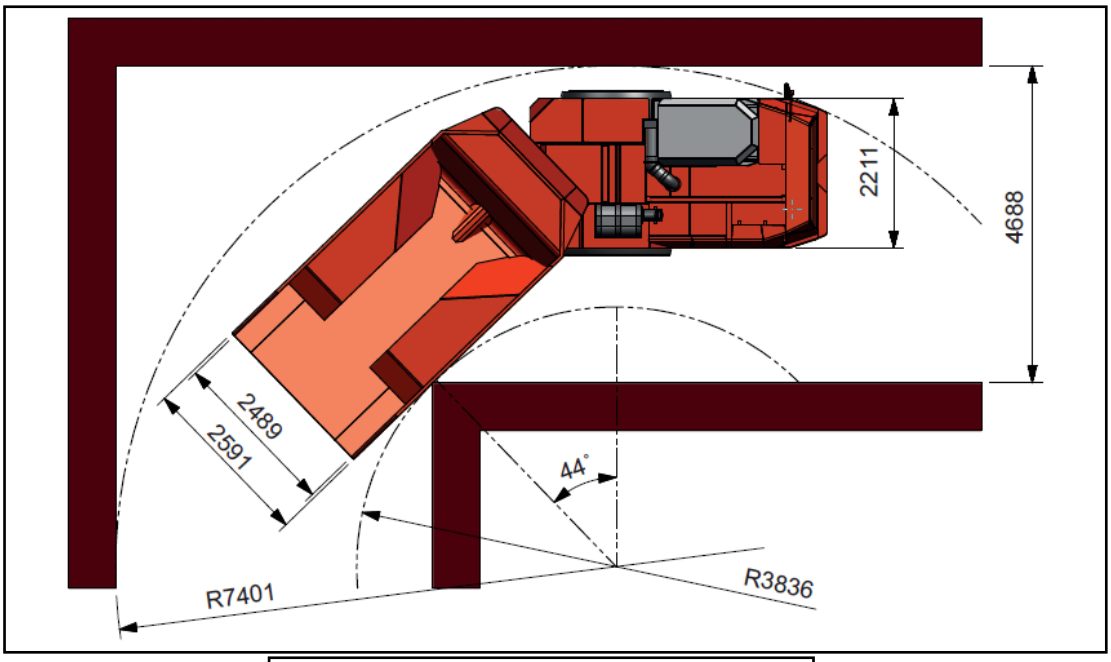
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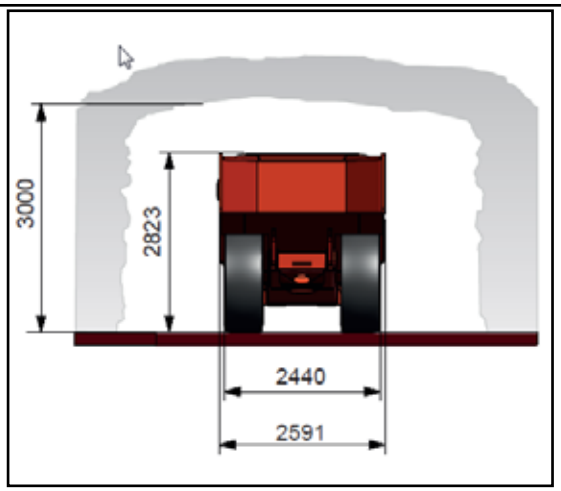
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