



## ***MINETRUCK MT42***

Underground truck with  
42-tonne load capacity



***Atlas Copco***

# MINETRUCK MT42

## SUPERIOR UNDERGROUND HAULAGE

THE MINETRUCK MT42 IS A HIGH SPEED, 42-TONNE ARTICULATED UNDERGROUND TRUCK, FEATURING STATE-OF-THE-ART LEVELS OF SAFETY, SERVICEABILITY AND OPERATOR COMFORT. THE RESULT: UNMATCHED PERFORMANCE IN UNDERGROUND MINING AND CONSTRUCTION OPERATIONS.

### + MAIN BENEFITS

**Highest safety level** thanks to features such as FOPS/ROPS certified operator's cabin, SAHR brakes, engine brake, safety interlocks, machine stop, automatic brake test, 3-point access system for machine entry and exit, fire suppression system and multi-color status light.

**Maximum productivity** thanks to high capacity in a small envelope, front axle suspension and Atlas Copco's Rig Control System, RCS.

**First-class working environment** thanks to the ergonomic design of the operator's cabin combined with the front axle suspension system.





Available engine alternative is the EPA Tier 4 final and EU Stage 4 approved Cummins QSX15 (for markets with Ultra Low Sulphur Diesel and low ash engine oil).

The smart, hydraulically operated tailgate works as a spill guard and supports the filling process with one extra side in the box.

In applications with a high degree of down-hill tramping with loads such as waste rock fill, cut-and-fill and fill applications, the retarder, which is integrated in the control system, provides wear-free braking and retardation via electro-magnetic induction.



Load weighing system

Optimized, wear-resistant, box design for easy release of material with minimum dump height

Innovative tailgate solution for minimum spillage and easier loading

Rear-view camera

Retarder for wear-free braking\*

\* = Optional equipment

**FEATURES**

**Safety**

- Spring Applied, Hydraulically Released Brakes (SAHR)
- Automatic brake-test logging
- Excellent visibility with low hood design
- Rear-view camera
- Heated rear view mirrors
- Oil-free operator's cabin

**Comfort**

- Front axle suspension system
- Sound level in cab, below 80 dB(A)
- A durable, air suspension seat with 3-point seat belt
- Simple, clear, multi-functional display
- Instructor's seat

**Productivity**

- A high speed, 42-tonne articulated truck with front axle suspension
- Torque converter with automatic lock up
- Box design with high strength steel, optimized geometry and smart tailgate

**Durability**

- Proven powertrain components
- On board diagnostics give the operator a clear indication of machine status
- Machine protection system

**Serviceability**

- Easy access to service points, filters and valve blocks
- The well-proven Atlas Copco Control system (RCS) provides service information and diagnostics logged and displayed in clear text on screen
- Cab tilt for easy access to engine compartments
- Filter sensors with data collection for air, hydraulic and transmission filters
- Automatic lubrication system with low level warning and lube fault detection for all daily lube points.



**SPECIFICATIONS**

Capacities	
Tramming capacity	42 000 kg
Standard box volume (SAE heaped)	19.0 m <sup>3</sup>
Motion times	
Dumping	13 sec
Weights (Standard equipped vehicle, empty weight)	
Approximate weight	34 500 kg
Front axle load	25 740 kg
Rear axle load	8 760 kg

**ENGINE**

	Standard	Alternative *
Brand/model: Cummins QSX15	EPA Tier 3 / EU Stage IIIA	EPA Tier 4 final / EU Stage IV
Power rating at 2 100 rpm	388 kW / 520 hp	399 kW / 535hp
Maximum torque at 1 400 rpm	2 365 Nm	2 644 Nm
MSHA Part 7 ventilation rate	538 m <sup>3</sup> /min	TBA m <sup>3</sup> /min
MSHA Part 7 particulate index	595 m/min	TBA m <sup>3</sup> /min

**Standard:** Dry type air filter, catalytic purifier and silencer, exhaust heat protection, cooling-package with tube type radiator, remote engine oil and cooling fuel drain.

**Alternative:** Different engine, coolers, different aftertreatment system (dry type air filter, SCR, DPF, Diesel emission fluid system with separate tank/fill point including dosing pump and hoses/cables).

\*Please note! Requires Ultra Low Sulphur Diesel and low ash engine oil.

**TRANSMISSION & TORQUE CONVERTER**

Dana: 8822H with 8 forward and 2 reverse gears	●
Dana: CL8000 with automatic lock-up	●

**AXLES**

Kessler: Model 102	●
Degree of oscillation: 16° (+/-8° on each side)	●

**BRAKES**

Fully enclosed, force-cooled, multiple wet discs at each wheel end	●
Service/parking/emergency: SAHR	●

**ENCLOSED OPERATOR'S CABIN**

ISO ROPS/FOPS approved	●
Be-Ge 7150 seat with 3 point retractable seat belt	●
Air suspension seat	●
Interactive display module	●
Automatic Climate Control (Air conditioner, heater and pressurizer)	●
External sound level according to ISO 6393 LwA 118 dB(A)	●
Sound level in cabin according to ISO 6394 LpA 80 dB(A)	●
Whole body vibration value below EN 14253 A(8)w maximum 0.55+/-0.2m/s <sup>2</sup>	●
Audio media player	●

**ELECTRICAL SYSTEM**

Voltage, system start and accessories: 24 V	●
Mine duty high output alternator: 140 Amps	●
Control system: Atlas Copco RCS	●
Isolation switch lockout	●
Audiovisual back-up alarm	●
3 x machine stop buttons with fuel shut-off valve	●
Tail and brake lights	●
Side lights	●

**ELECTRICAL SYSTEM**

Front & rear turn signals	●
Hydraulic warning system, low level	●
Rear-view camera	●
Detachable service light	●
Machine status indicator lights	●
Amber strobe light - Power on	●
Neutral brake apply	●
Low ambient temperature package	○
Loading camera and load lights	○
Driving lights LED	
Rear lights: 4 x 40w	●
Front lights: 6 x 40w	●
Cab light: 1 x 40w	●
Drift light: 1 x 40w	●
Working lights (fender): 2 x 40w	●

**HYDRAULIC SYSTEM**

System pressure: 21.5 MPa	●
Hydraulic tank capacity: 220 liters	●
Filtration, return line: 12 µm	●
Heavy duty gear pumps	●
Electric hydraulic oil fill pump	●
Automatic lubrication system with timer (Lincoln pump)	●
Cylinders: chrome-plated valve stems, diameter	
Steer cylinders (2): 140 mm	●
Dump cylinders (2): 160 mm	●
Front suspension cylinders (2): 150 mm	●

**FUEL**

Fuel tank capacity: 580 liters	●
Fuel filtration: 7 µm	●
Anti-siphon fuel supply	●

**TIRES\***

Tubeless, treaded for underground mine service	●
Tire dimensions: 29.5R25	●

\* As applications and conditions vary, Atlas Copco recommends that the user consult tire suppliers for optimum tire selection.

**SUSPENSION**

The suspension is a gas-hydraulic system for improved operator comfort and vehicle handling while minimizing frame stress	
Suspension, maximum travel: 140 mm	●

**SYSTEM**

Ansul CHECKFIRE® automatic fire suppression	○
Ansul dual bottle fire suppression with engine shut down	○
Handheld fire extinguisher, 2 x 6 kg	○
Wiggins central service points - engine, transmission, hydraulics, radiator	○
Wiggins fast fuel fill	○
Emergency steering (Required for CE)	○
Blockout gears	○
Remote monitoring vehicle kit	○
Load weighing (logging of production data, weight per box, number of boxes and accumulated payload)	●

**DRIVE TRAIN**

Corrosion-resistant radiator	○
Retarder, Telma, integrated into control system	○
Machine protection system	○

**MAIN FRAME**

Knock-down construction	○
Wheel chocks and brackets	●
Guard rails	○

**DOCUMENTATION**

LinkOne parts book CD	○
LinkOne viewer	○
Parts manual - plasticized	●

**PARTS AND SERVICE**

Preventive maintenance kits	○
Repair and rebuild kits	○
Face mechanic's tool set	○
Shop mechanic's tool set	○
Service tools for RCS	○

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IT'S NOT JUST ABOUT  
PROMISES, IT'S ABOUT  
DELIVERY.**

We offer several levels of service agreements to meet the requirements of your operation and safeguard your productivity. Our service agreements help you build a quality operation focused on proactive, planned maintenance to minimize unplanned downtime. We support maintenance with detailed parts information on every item in our full inventory of components, accessories, and tools.



**GRADE PERFORMANCE, BOX EMPTY\***

%	Grade	0.0	2.0	4.0	6.0	8.3	10.0	12.5	14.3	16.0	18.0	20.0
Ratio	Grade	–	–	–	–	1:12	1:10	1:8	1:7	–	–	1:5
km/h	1st gear	5.8	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.6	5.6
	2nd gear	7.6	7.5	7.5	7.5	7.5	7.5	7.5	7.4	7.4	7.4	7.4
	3rd gear	10.3	10.3	10.3	10.2	10.2	10.2	10.1	10.0	10.0	10.0	9.9
	4th gear	13.6	13.5	13.5	13.4	13.3	13.3	13.2	13.1	13.0	13.0	12.7
	5th gear	18.1	18.0	17.9	17.8	17.7	17.6	17.4	17.0	16.2	15.3	13.6
	6th gear	23.8	23.6	23.5	23.3	23.1	22.4	20.9	18.7			
	7th gear	32.3	31.9	31.6	31.2	28.4	23.6					
	8th gear	42.4	41.8	40.7	35.9							

**GRADE PERFORMANCE, BOX LOADED\***

%	Grade	0.0	2.0	4.0	6.0	8.3	10.0	12.5	14.3	16.0	18.0	20.0
Ratio	Grade	–	–	–	–	1:12	1:10	1:8	1:7	–	–	1:5
km/h	1st gear	5.7	5.7	5.7	5.7	5.6	5.6	5.5	5.5	5.5	5.5	5.5
	2nd gear	7.5	7.5	7.4	7.4	7.4	7.3	7.3	7.2	7.0	6.7	6.4
	3rd gear	10.3	10.2	10.1	10.0	9.9	9.9	9.1	8.6	6.8		
	4th gear	13.5	13.3	13.2	13.1	12.3	11.3					
	5th gear	17.9	17.7	17.4	15.8							
	6th gear	23.5	23.1	20.6								
	7th gear	31.6	28.4									
	8th gear	41.3										

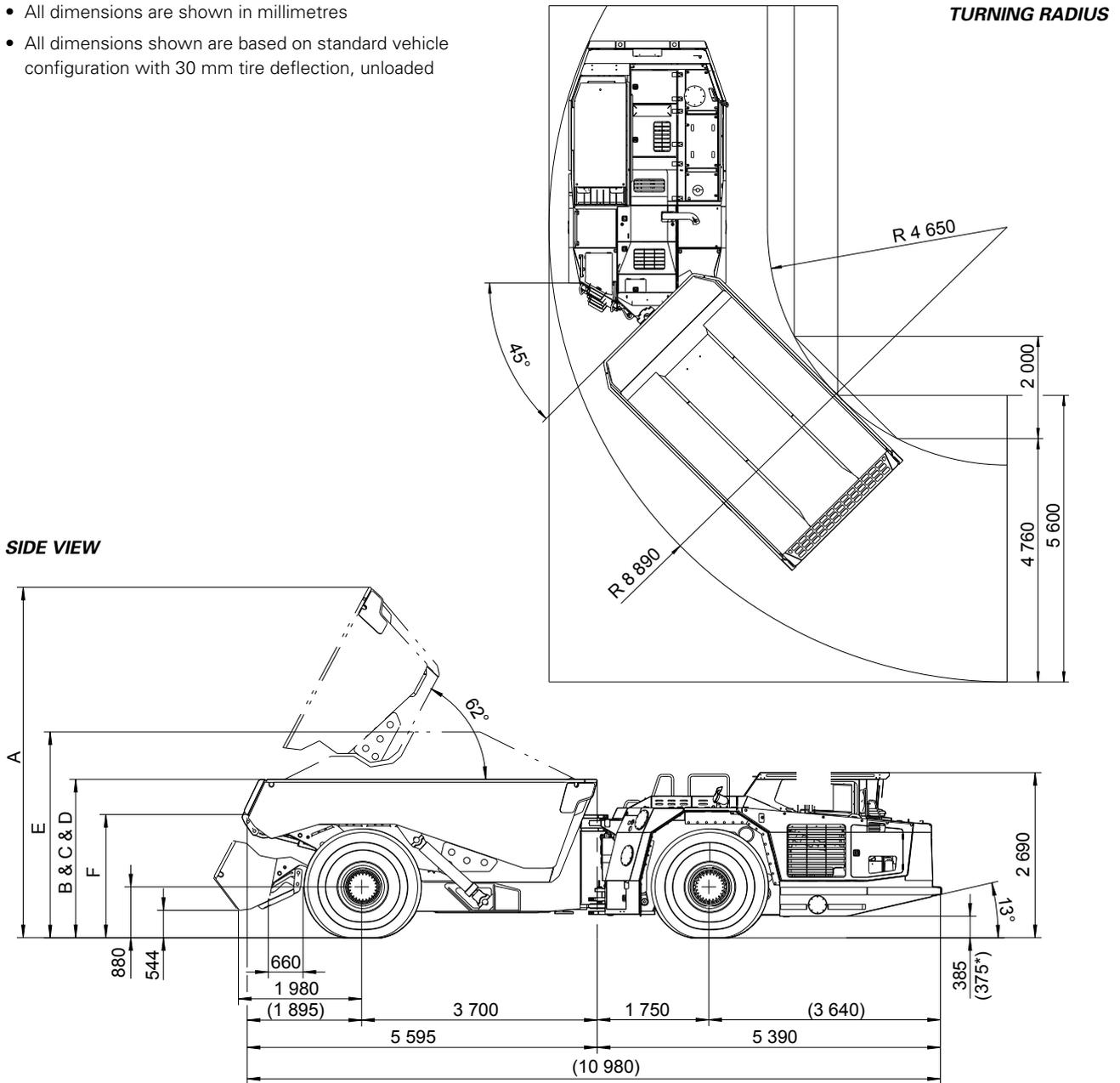
\*Standard configuration. 3% rolling resistance assumed. Actual performance may vary depending on the application.



**MEASUREMENTS**

**Dimensions**

- All dimensions are shown in millimetres
- All dimensions shown are based on standard vehicle configuration with 30 mm tire deflection, unloaded



**DUMP BOXES**

			STD		
Volume , SAE heaped 2:1 (m³)	23	21	19	17.5	16
Volume SAE struck (m³)	19.3	17.1	15	13.1	11.8
Material density (t/m³)	1.8	2.0	2.2	2.4	2.6
Dump height (mm), A	5 835	5 730	5 625	5 625	5 625
Spill guard height (mm), B	2 885	2 733	2 585	2 585	2 585
Load height (mm), C	2 885	2 733	2 585	2 460	2 460
Tailgate height (mm), D	2 575	2 575	2 585	2 460	2 460
Height loaded heaped, (mm), E	3 560	3 410	3 260	3 135	3 135
Height rear end of box (mm), F	2 030	2 030	2 030	2 030	2 030
H6 Height SAE heaped 2:1 (mm)	3 635	3 485	3 335	3 210	3 210
Width outside (mm), W1	3 050	3 050	3 050	3 050	3 050
Width inside box (mm), W2	2 865	2 865	2 865	2 865	2 865



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We stand by our responsibilities towards our customers,  
towards the environment and the people around us.

We make performance stand the test of time.  
This is what we call – Sustainable Productivity.

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