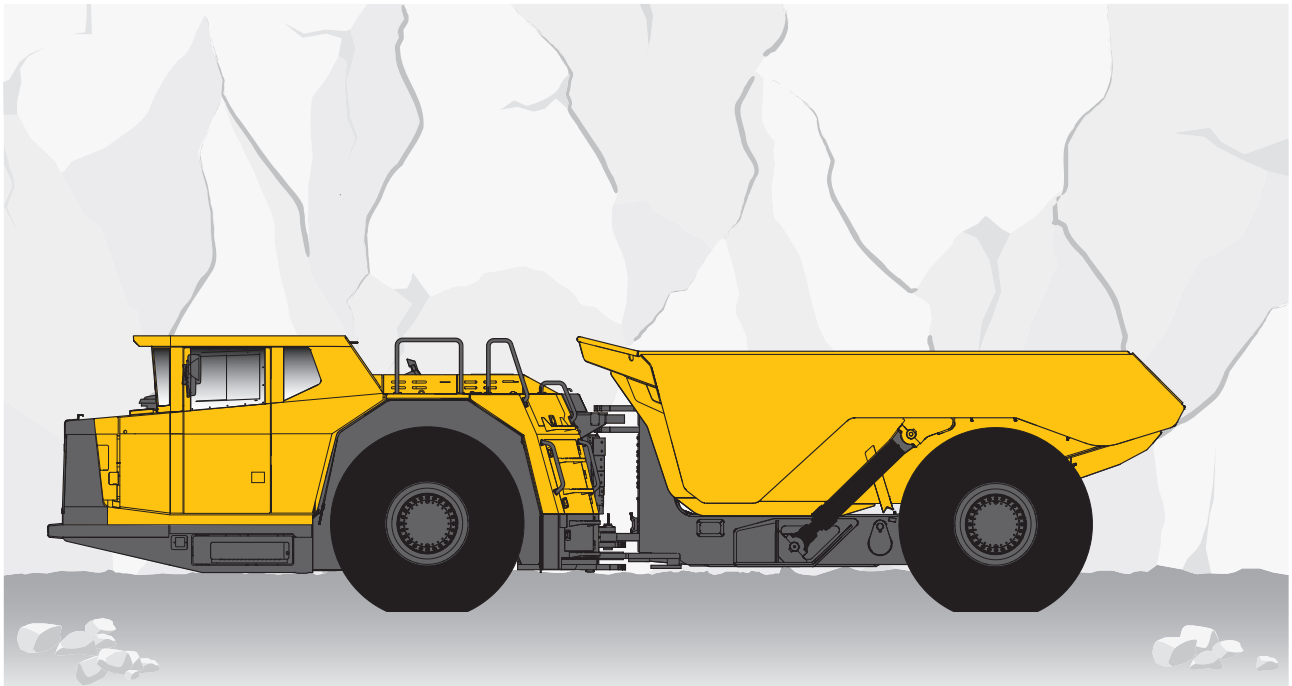


Atlas Copco Underground trucks

Minetruck MT42

Technical specification



The Minetruck MT42 features state of the art levels of safety, serviceability and operator comfort, providing unmatched performance in underground mining or construction operations.

Features

» Safe working environment

- Spring Applied Hydraulically Released Brakes (SAHR)
- Automatic brake-test logging
- Excellent visibility with low hood design
- Back-up camera
- Heated rear view mirrors
- Oil-free operator's compartment
- Emergency stop with fuel shut off valve

» Superior operator's comfort

- Front axle suspension system
- Sound level in cab, below 80 dB(A)
- A durable, air suspended seat
- Simple, clear and multi- functional display
- Trainer's seat

» Reliability for enhanced productivity

- Proven powertrain components

» 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

Atlas Copco

Specifications

CAPACITIES

kg	Tramming capacity	42000
m ³	Standard box volume (SAE heaped)	19.0

MOTION TIMES

sec	Dumping	13
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WEIGHTS

Standard equipped vehicle (empty weight)		
kg	Approximate weight	34 500
	Front axle load	25 740
	Rear axle load	8 760

» Engine

- Brand/model: Cummins QSX15, Tier 3 / Stage IIIA
- Power rating at 2100 rpm..... 388 kW/520 hp
- Maximum torque at 1400 rpm 2365 Nm
- MSHA part 7 ventilation rate 7.8 m³/sec
- Ventilation particulate index 5.2 m³/sec
- Catalytic purifier and silencer
- Dry type air cleaner
- Exhaust heat protection
- Remote engine oil drain

» 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

» Tyres*

- Tubeless, treaded for underground mine service
- Tyre dimensions 29.5R25

» Enclosed Operator's Cabin**

- ISO ROPS/FOPS approved
- Be-Ge 7150 seat with 3 point retractable seat belt
- Air-suspended 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 according to below
EN 14253 A(8)w maximum 0.55+/-0.2m/s²

» 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 reverse alarm
- Tail and brake lights
- Side lights
- Front & rear turn signals
- Hydraulic warning system, low level
- Back up cameras
- Machine status indicator 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 litres
- Filtration, return line 12 µm
- Heavy duty gear pumps
- Electric hydraulic oil-fill pump
- Cylinders: chrome plated stems, diameter:
 - Steer cylinders (2) 140 mm
 - Dump cylinders (2) 160 mm
 - Front suspension cylinders (2) 150 mm

» Fuel

- Fuel tank capacity 580 litres
- Fuel filtration 7 µm
- Anti-siphon fuel supply

» Suspension

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

» Included features

- Fire extinguishers, 2 x 6 kg
- Central manual lubrication

* As applications and conditions vary, Atlas Copco recommends that the user consults with tyre suppliers to obtain the optimum tyre selection.

** Required for CE

Grade performance

STANDARD CONFIGURATION, 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							

3% rolling resistance assumed. Actual performance may vary depending on the application.

STANDARD CONFIGURATION, 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										

3% rolling resistance assumed. Actual performance may vary depending on the application.

Optional equipment

» Ergonomics

- CD player with USB and MP3

» System

- Ansul check fire automatic fire suppression
- Ansul dual bottle fire suppression with engine shut down
- Automatic lubrication
- Wiggins central service points - engine, transmission, hydraulic, radiator
- Wiggins fast fuel fill
- Emergency/towing steering*

» Controls and instruments

- Block out gears
- Atlas Copco load weighing system
- Brake apply after 3 sec. in neutral

» Power unit

- Finnkat double wall exhaust system
- Low ambient temperature package
- Epoxy coated radiator

» Main frame

- Wheel chocks and brackets
- Knock down construction

» Electrical system

- Amber strobe light - Power on
- Loading camera and load lights
- LED lights

» Documentation

- Link one parts book CD
- Link one viewer
- Parts manual - plasticised

» Parts and Services

- Preventive maintenance kits
- Repair and rebuild kits
- Upgrade kits
- Face mechanics tool set
- Shop mechanics tool set
- Service tools box for RCS

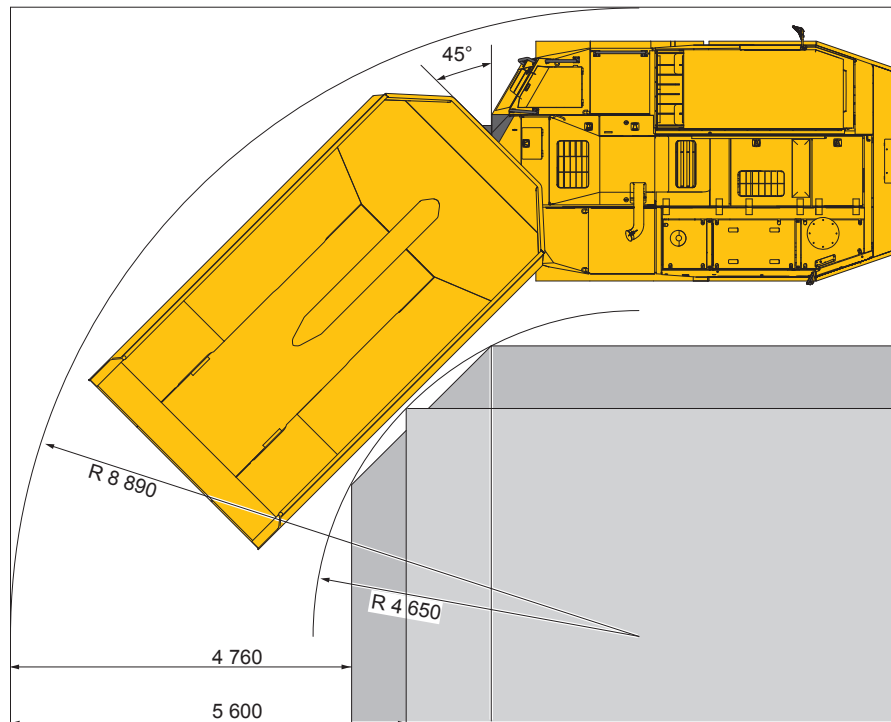
* Required for CE

Measurements and weights

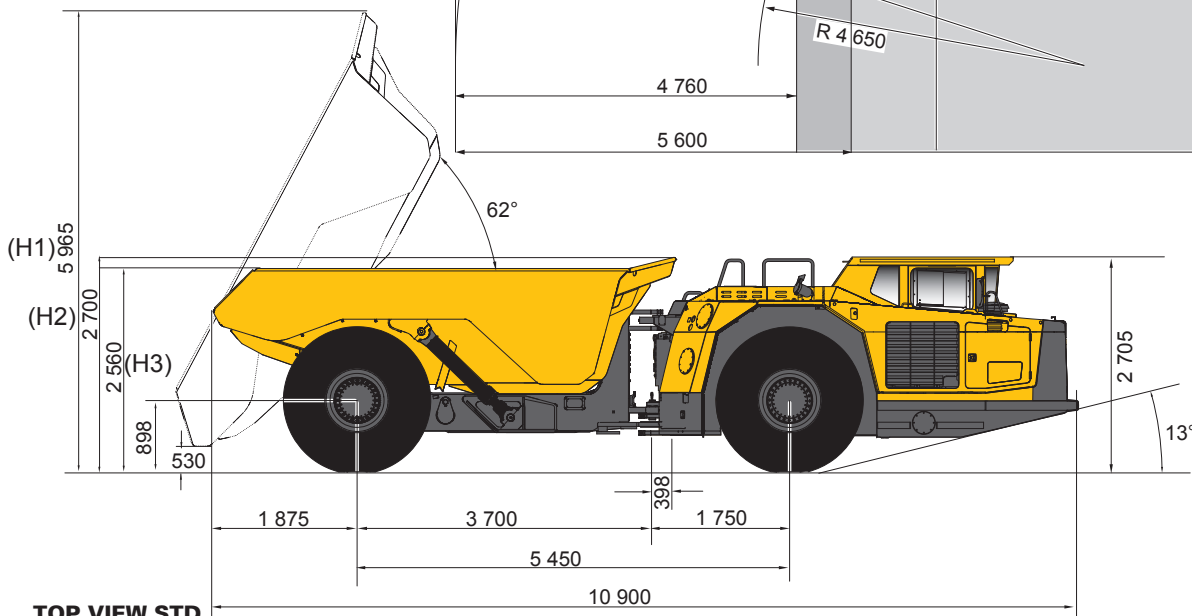
TURNING RADIUS

» Dimensions

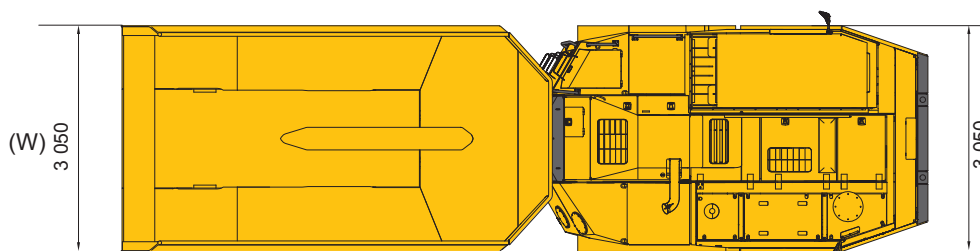
- All dimensions are shown in millimetres
- All dimensions shown are based on standard vehicle configuration with 27 mm tyre deflection, unloaded



SIDE VIEW STD



TOP VIEW STD



DUMP BOXES

STD

		21	19	17.5
Volume, SAE heaped (m3)		21	19	17.5
Volume, SAE struck (m3)		18	15.5	14
Maximum material density (t/m3)		2.0	2.2	2.4
Width, dump box (mm)	(W)	3 050	3 050	3 050
Dump position: box height, max (mm)	(H1)	5 965	5 965	5 965
Tramming position: dump box spillguard (mm)	(H2)	2 700	2 700	2 700
Tramming position: dump box height (mm)	(H3)	2 700	2 560	2 560
Dump position: clearance (mm)	(C)	530	530	530

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