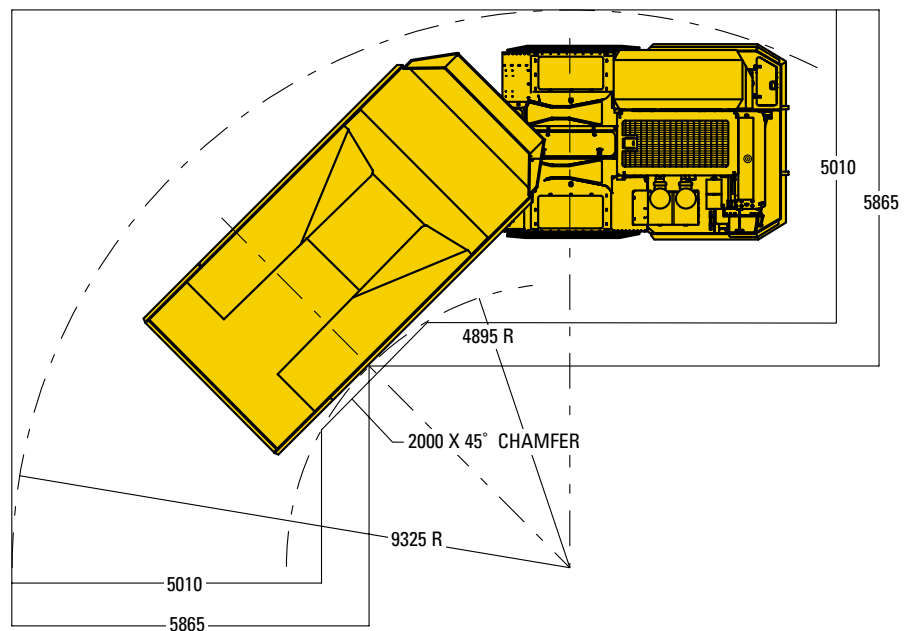
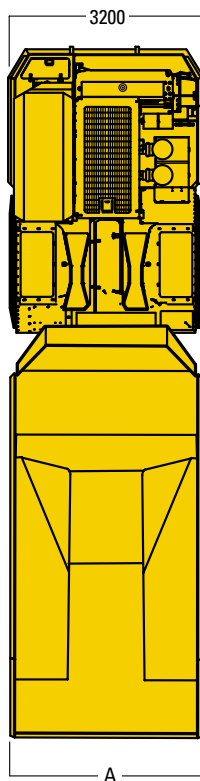
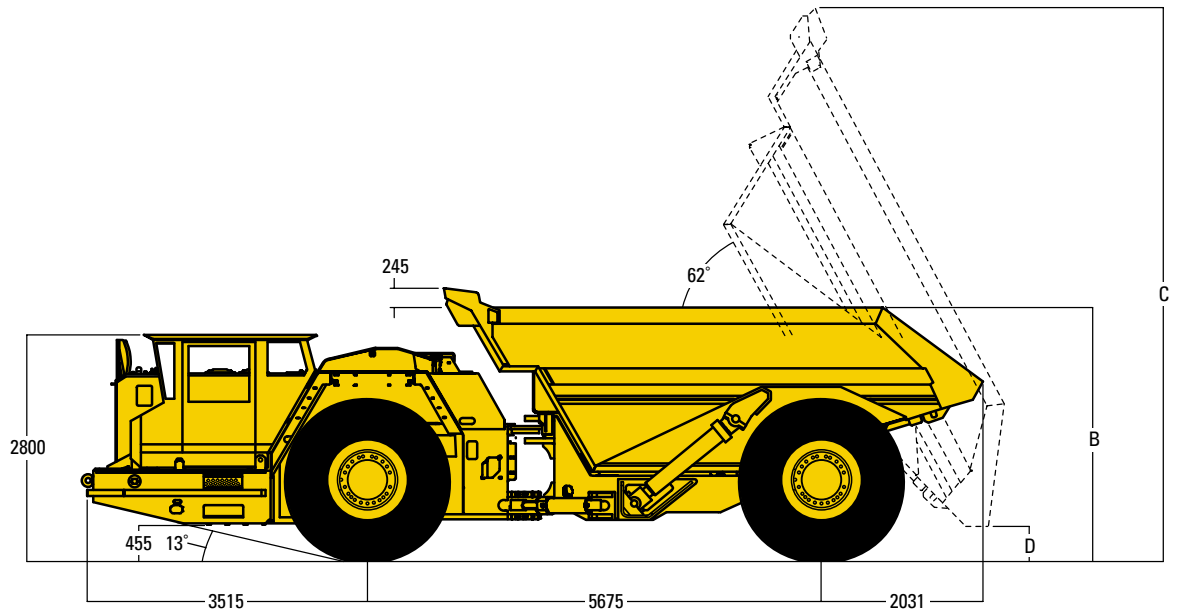


MT5010

Atlas Copco Wagner Inc.

50 TONNE CAPACITY MINE TRUCK

technical specifications and performance data



NOTE: Dimensions shown in millimeters. Turn dimensions shown are based on standard configuration. Overall dimensions will vary according to box width. Vertical dimensions based on an unloaded vehicle tire radius of 980 mm.

MT5010

technical specifications

CAPACITY

	kg	(lbs)
Payload	50000	(110,000)
Volume	See Box Volume Table on Back	

BODY DISCHARGING

Time	15 seconds
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VEHICLE SPEEDS

See Vehicle Grade Performance Chart

ENGINE

Cummins	QSK19-C650
MSHA Power Rating @ 2,100 rpm	485 kW (650 hp)
Maximum Torque @ 1,300 rpm	3084 Nm (2,275 ft. lbs.)
Displacement	19 L (1159 in ³)
Cooling	Liquid (Water/Anti-Freeze)
MSHA Part 7 Ventilation	
Vent Rate	1274 m ³ /min (45,000 cfm)
Particulate Index	934 m ³ /min (33,000 cfm)
Electronic Control	Quantum

EXHAUST SYSTEM

Catalytic Purifier plus Exhaust Silencer

ELECTRICAL SYSTEM

System Voltage	24-Volt Starting, 24-Volt Accessories
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TRANSMISSION/CONVERTER

Planetary, Automatic 6 Speeds Forward/2 Speeds Reverse with Integral Single Stage Converter with Automatic Lock Up

AXLES

Spiral Bevel Differential, Full Floating Planetary Wheel End Drive	
Spicer	21D Series
When Available: Spicer	53R Series

BRAKES

Service	SAHR®
Spring Applied Hydraulically Released; Fully Enclosed, Force Cooled, Multiple Wet Discs at Each Wheel End	
Parking and Emergency	SAHR®

TIRES

Tubeless, Radial, Lug Tread Design for Underground Mine Service	
Tire Size, Front & Rear	33.25R29** VRL E3 E2A
When Available:	35/65R33** VSNT E4

STEERING

Articulated Hydraulic Power Steering, Pilot-Operated, Hydraulic Rotary Servo (Wheel) Control	
Turning Angle	90° (45° Each Way)
System Pressure	20.7 mPa (3,000 psi)

HYDRAULIC SYSTEM

Cylinders	Double Acting, Chrome-Plated Stems	
Steering Cylinders (2)	Single Stage	
Hoist Cylinders (2)	Two Stage	
Pumps	Heavy Duty Gear Type	
Filtration	Return Line: 10 Micron	

TANK CAPACITIES

	liters	(gallons)
Fuel	644	(170)
Hydraulic Oil	238	(63)

SUSPENSION

Front-Axle Oscillating Suspension "A" Frame with Hydraulic Suspension Cylinders and Accumulator Cushioning	
Degree of Oscillation	20° (10° each side)
Suspension Travel @ Axle	140 mm

OPERATOR'S ARRANGEMENT

Forward-Facing Seat and Controls in Enclosed Cab
MSHA-ISO ROPS/FOPS Certified

OPERATING WEIGHT (Approximate)

	kg	(lbs)
Empty	40000-42000	(88,000-92,000)

Depending on Configuration

MT5010

vehicle grade performance

CUMMINS QSK19-C650 485 kW (650 hp) — LOADED-LOCKUP

Percent Grade	Appr. Ratio	1st Gear		2nd Gear		3rd Gear		4th Gear		5th Gear		6th Gear	
		kph	mph	kph	mph	kph	mph	kph	mph	kph	mph	kph	mph
0.0%		6.5	4.0	9.5	5.9	12.6	7.8	18.2	11.3	23.9	14.9	34.0	21.1
2.0%		6.4	4.0	9.3	5.8	12.1	7.5	17.2	10.7	22.5	14.0	31.0	19.2
4.0%		6.3	3.9	9.0	5.6	11.7	7.2	16.6	10.3	21.3	13.2		
6.0%		6.1	3.8	8.8	5.5	11.3	7.0	15.9	9.9	17.8	11.1		
8.0%	1 : 12	6.0	3.7	8.6	5.3	11.0	6.9	14.3	8.9				
10.0%	1 : 10	5.9	3.7	8.4	5.2	10.7	6.7	12.4	7.7				
12.0%	1 : 8	5.8	3.6	8.2	5.1	10.3	6.4						
14.0%	1 : 7	5.7	3.6	8.1	5.0	9.3	5.8						
16.0%		5.7	3.5	7.9	4.9	8.5	5.3						
18.0%		5.6	3.5	7.5	4.6								
20.0%	1 : 5	5.5	3.4	6.9	4.3								
25.0%	1 : 4	5.3	3.3										
30.0%		4.8	3.0										

CUMMINS QSK19-C650 485 kW (650 hp) — EMPTY-LOCKUP

Percent Grade	Appr. Ratio	1st Gear		2nd Gear		3rd Gear		4th Gear		5th Gear		6th Gear	
		kph	mph	kph	mph	kph	mph	kph	mph	kph	mph	kph	mph
0.0%		6.6	4.1	9.8	6.1	12.9	8.0	19.1	11.8	25.4	15.8	37.0	23.0
2.0%		6.5	4.1	9.6	6.0	12.7	7.9	18.6	11.6	24.6	15.3	35.2	21.9
4.0%		6.5	4.0	9.5	5.9	12.5	7.8	18.2	11.3	23.8	14.8	33.9	21.0
6.0%		6.4	4.0	9.4	5.9	12.3	7.7	17.7	11.0	23.1	14.4	32.7	20.3
8.0%	1 : 12	6.4	4.0	9.3	5.8	12.1	7.5	17.3	10.7	22.6	14.0	31.5	19.6
10.0%	1 : 10	6.3	3.9	9.2	5.7	11.9	7.4	17.0	10.6	22.0	13.7	27.7	17.2
12.0%	1 : 8	6.3	3.9	9.1	5.6	11.7	7.3	16.7	10.4	21.5	13.4		
14.0%	1 : 7	6.2	3.9	9.0	5.6	11.6	7.2	16.4	10.2	20.7	12.8		
16.0%		6.2	3.8	8.9	5.5	11.4	7.1	16.1	10.0	18.9	11.7		
18.0%		6.1	3.8	8.7	5.4	11.3	7.0	15.8	9.8	17.3	10.8		
20.0%	1 : 5	6.1	3.8	8.7	5.4	11.2	6.9	15.3	9.5				
25.0%	1 : 4	6.0	3.7	8.5	5.3	10.8	6.7	13.0	8.1				
30.0%		5.8	3.6	8.3	5.1	10.5	6.5						

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



The face of Innovation

MT5010 box dimensions

		STD								
MATERIAL DENSITY		tonnes/m ³ lb/yds ³	1.6 2698	1.8 3035	2.0 3372	2.2 3709	2.4 4046	2.6 4384	2.8 4721	3.0 5058
BOX VOLUMES										
SAE Struck	m ³	28.8	26.2	23.1	20.3	18.5	16.6	15.7	14.7	
	yd ³	37.7	34.4	30.2	26.9	24.3	21.7	20.5	19.2	
Semi-Heaped	m ³	31.3	27.8	25.5	22.7	20.8	19.2	18.0	16.7	
	yd ³	40.9	36.3	33.4	29.7	27.2	25.2	23.5	21.8	
SAE Heaped	m ³	33.8	31.3	27.8	25.0	23.4	21.4	20.3	19.3	
	yd ³	44.2	40.9	36.4	32.7	30.6	28.0	26.6	25.2	
TRAM POSITION										
Box Width (A)	mm	3400	3400	3200	3200	3200	3050	3050	3050	
	inches	134	134	126	126	126	120	120	120	
Box Height (B)	mm	3415	3255	3159	3000	2887	3000	2925	2850	
	inches	134	128	124	118	114	118	115	112	
RAISED POSITION										
Box Height (C)	mm	7180	7016	6910	6800	6721	6800	6744	6705	
	inches	283	276	272	268	265	268	266	264	
Tailgate Clearance (D)	mm	411	411	411	411	411	411	411	411	
	inches	16	16	16	16	16	16	16	16	
EJECTOR VOLUMES										
SAE Struck	m ³			20.7						
	yd ³			27.1						
Semi-Heaped	m ³			23.0						
	yd ³			30.1						
SAE Heaped	m ³			25.3						
	yd ³			33.1						
TRAM POSITION										
Box Width (A)	mm			3200						
	inches			126						
Box Height (B)	mm			3240						
	inches			128						
Box Height over Push Plate	mm			3511						
	inches			138						
Tailgate Clearance (D)	mm			770						
	inches			30						



Atlas Copco Wagner Inc.
Working Harder and Smarter

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