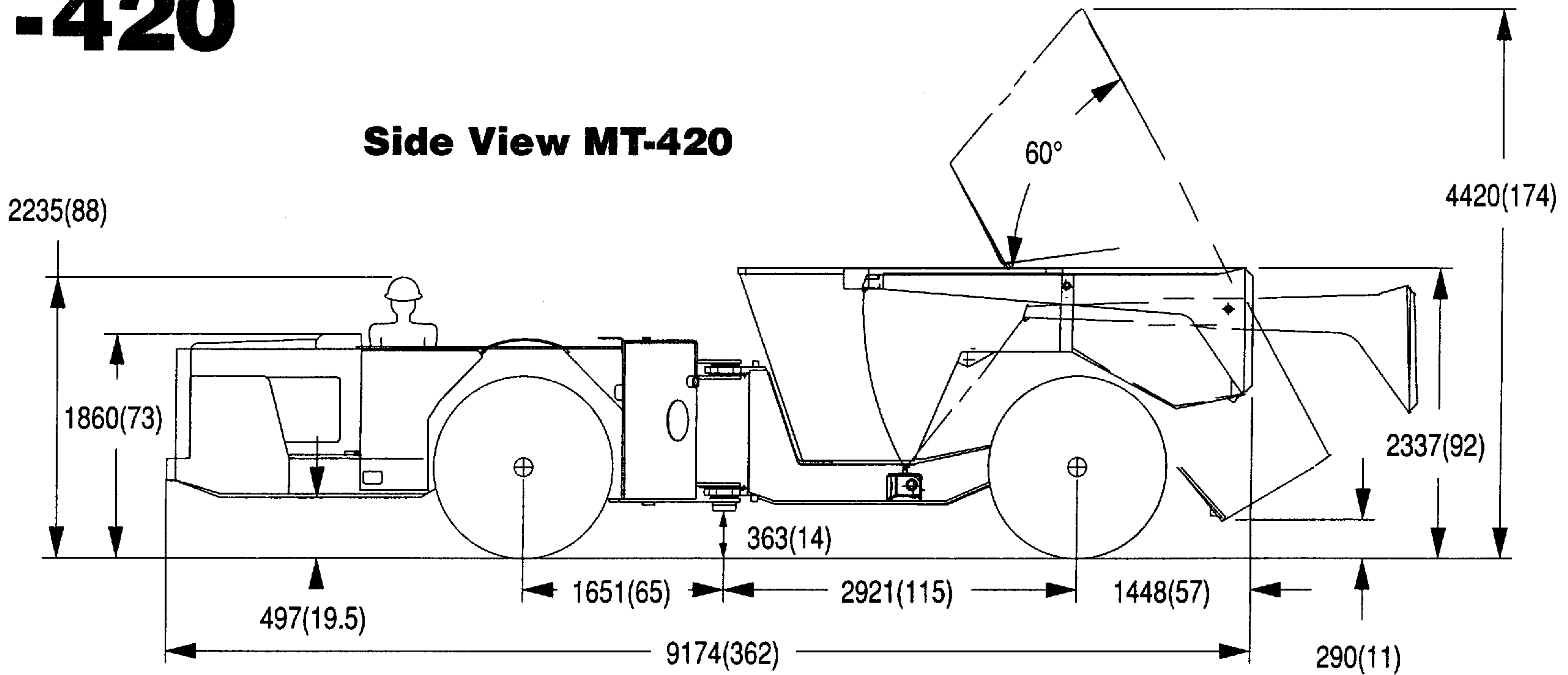
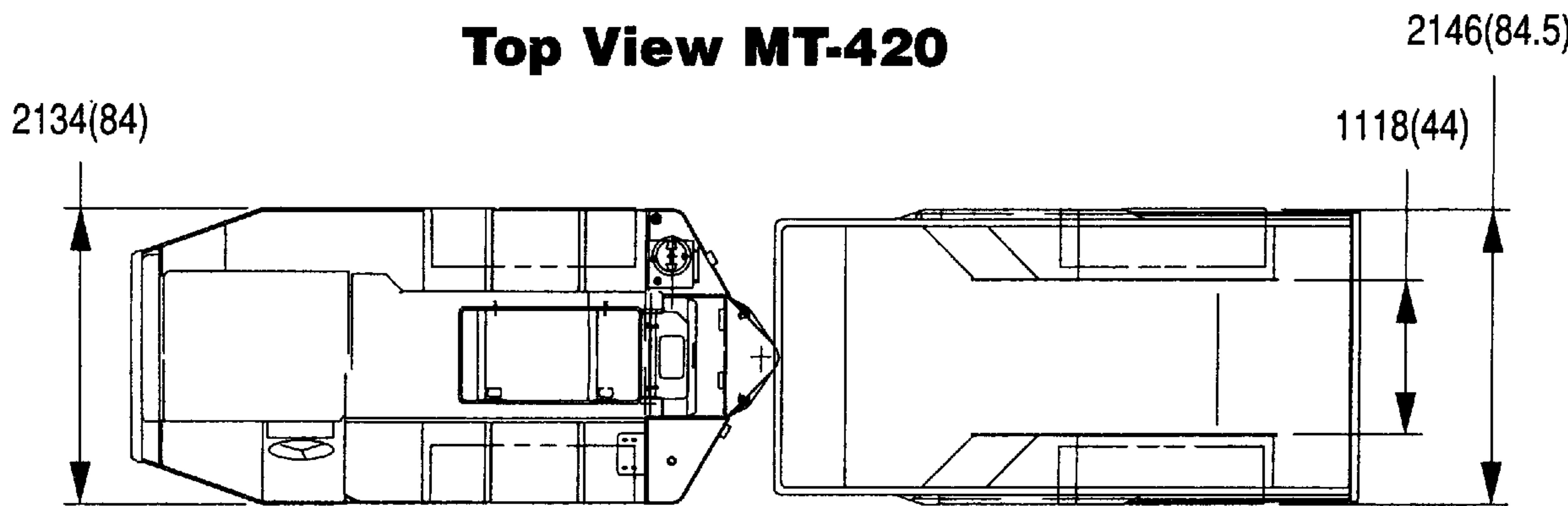


MT-420

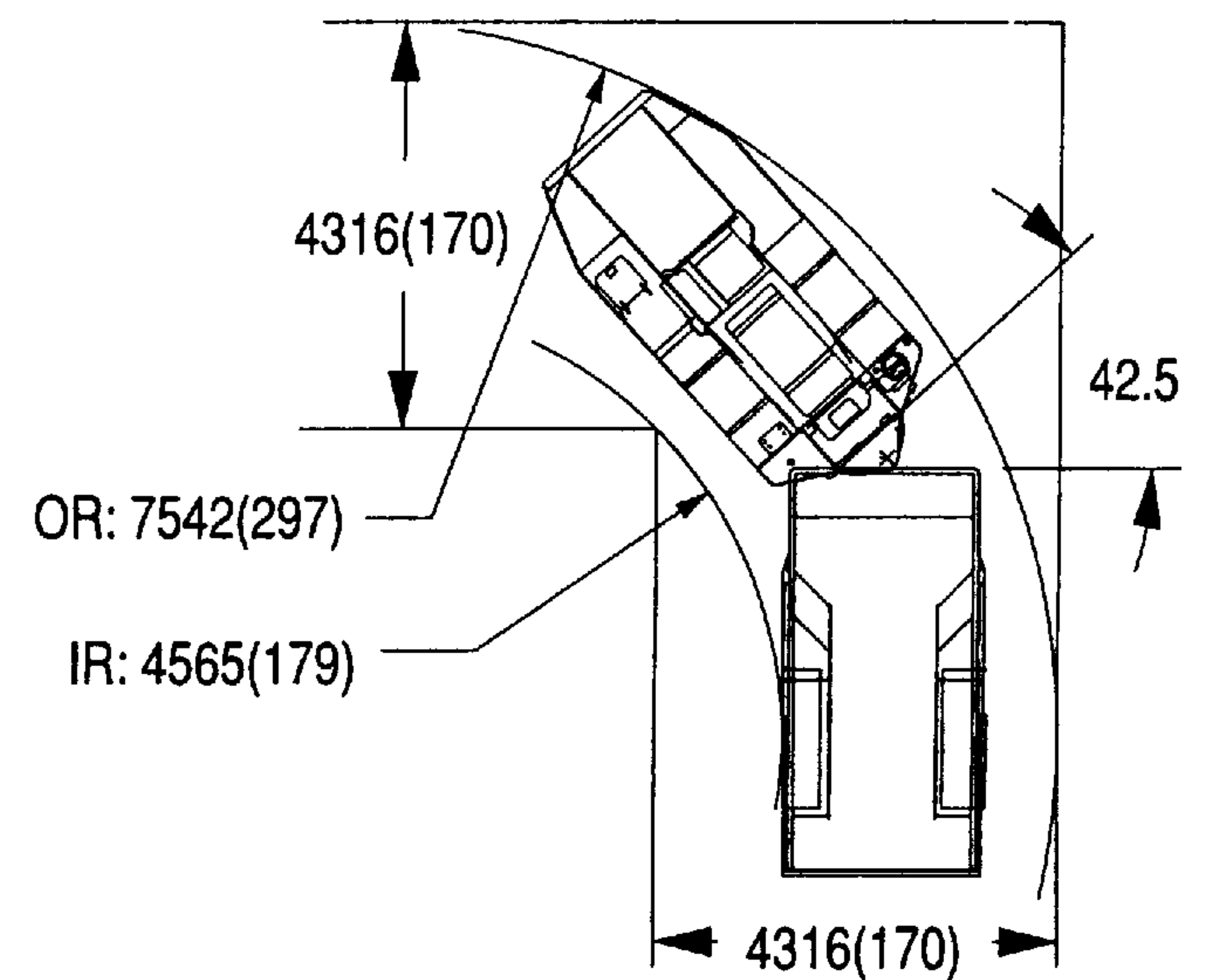
Side View MT-420



Top View MT-420



Top Turning View MT-420



NOTE: Dimensions are shown in millimeters (inches) and based on an unloaded vehicle tire radius of 717 (28.2). All dumpbox dimensions are based on a box for material weighing 1.8T/m³ (3,000 lbs/yd³) and a semi-heaped load.

Standard Features

- | | | |
|---|------------------------------------|--|
| 2101 – Dry Type Air Cleaner(s) | 5700 – Neutral Start Protection | 7200 – Batteries |
| 2410 – Electric Start | 5801 – SAHR® Brake System | 7300 – Halogen Working Lights |
| 2701 – Mesabi Radiator | 5810 – Automatic Brake Application | 7400 – Electric Warning Horn |
| 4002 – Steering Hinge Lock | 6001 – Seat Belts | 7403 – Audio/Visual Back Up Alarm |
| 5221 – Primary & Secondary Fuel Filters | 6104 – Side Seating/Facing | 8008 – SAHR Override Control |
| 5350 – Converter Oil Cooler | 7004 – Sealed Electrical System | 8073 – Engine Hour Meter |
| 5550 – Hydraulic Pressure Test Ports | 7100 – Alternator | 8093 – Engine Low oil/High temp. Alarm |

Vehicle Configuration

- | | | |
|--|---------------------------------------|--------------------------------|
| 0129 – Box: 9.9 m ³ (13.0 yd ³) | 0601 – Conventional Rear Differential | 1102 – Grammer Seat |
| 0228 – Detroit Diesel 471 TI | 0701 – SAHR Brakes | 3407 – Rock Torque® Axles |
| 0321 – Rock Tough™ Purifier & Silencer | 0807 – 16.00 x 25 Toyo G18 L3 TL | 4520 – Tailgate |
| 0400 – No Canopy | 0902 – Wheel Steering Control | 5401 – Central Lubrication |
| 0501 – Conventional Front Differential | 1001 – Single Lever Dump Control | 8067 – Hydraulic Trans Control |

Distributed By:

Atlas Copco

Atlas Copco Wagner Inc.

P.O. Box 20307 • Portland, Oregon • 97220-0307 • USA
 Telephone (503) 255-2863 • Facsimile (503) 255-7175

©1995 Atlas Copco Wagner Inc. SAHR®, Rock Torque®, Rock Tough™, and Scooptram® are trademarks of Atlas Copco Wagner Inc.

PN #556 60340 01

5/95 Printed in the USA

TECHNICAL SPECIFICATION – STANDARD

MT-420

**Diesel
Mine Truck**

Capacity	kg	(lbs)
Payload	18144	(40,000)
	m3	(yd3)
Volume, S.A.E. Heaped	10.7	(14.1)
Volume, S.A.E. Semi-Heaped	9.9	(13.0)
Volume, S.A.E. Struck	9.1	(11.9)

Discharging

Time 15 Seconds

Vehicle Speeds – Loaded

Forward or Reverse with 3% Rolling Resistance

Gear	1st	2nd	3rd	4th
Speed in km/h	4.5	8.4	13.8	21.9
Speed in mph	2.8	5.2	8.6	13.6

Gradeability

Maximum See Performance Curve

Engine

Detroit Diesel (Two Cycle, Turbo) DDEC 471 TI
 MSHA Power Rating @ 2,200 rpm 149 kW (200 hp)
 Max. Torque @ 1,500 rpm 773 Nm (570 ft.lbs)
 Number of Cylinders 4, In Line
 Displacement 4.65 L (284 in3)
 Cooling Liquid (Water/Anti-Freeze)
 MSHA Ventilation 765 m3/min (27,000 cfm)
 DDEC III System — Electronic Control Module (ECM)
 and Electronic Unit Injectors (EUI)

Exhaust Conditioner

Catalytic Purifier, Plus Exhaust Silencer

Electrical System

24 Volt Starting, 24 Volt Accessories

Torque Converter

Single Stage, Clark C-8000 Series

Transmission

Full Power Shift, 4 Speeds Forward/Reverse
 Clark 32000 Series

Axles

Spiral Bevel Differential, Full-Floating Planetary
 Wheel End Drive
 Rock Torque® 410 Series

Standard Brakes

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

Tires

Tubeless, Nylon, Lug Tread Design for Underground Mine
 Service, On Demountable Rims
 Tire Size, Front & Rear 16.00 x 25, 28 Ply, L3

Steering

Articulated Hydraulic Power Steering,
 Hydraulic Rotary Servo (Wheel) Control
 Turning Angle 85° (42.5° each way)
 System Pressure 16.5 MPa (2,400 psi)

Hydraulic System

Cylinders Double Acting with Chrome Plated Stems
 Steering Cylinders (2) Diameter 114 mm (4.5 in)
 Hoist Cylinders (2) Two Stage
 First Stage Diameter 140 mm (5.5 in)
 Second Stage Diameter 95 mm (3.75 in)
 Pumps Heavy Duty Gear Type
 Dump & Steering 129 lpm (34 gpm) @ 2,400 rpm
 Filtration Suction Line: 28 Micron

Tank Capacities

	liters	(gallons)
Fuel	280	(74)
Hydraulic Oil	202	(53)

Oscillation

Front Axle, Trunion Mounted, Synthane Bushings
 Degree of Oscillation Total 20°

Operator's Arrangement

Side Seating For Bi-Directional Operation
 and Maximum Visibility

Operating Weight

	kg	(lbs)
Empty, Approximate	20048	(44,200)

Manufactured with an MSHA Title 30, Part 32, (Schedule 24) Certified Engine.

Under our policy of continuous improvement, we reserve the right to change specifications and designs without prior notice.