

## TECHNICAL SPECIFICATION – STANDARD

# MT-444

**Diesel  
Mine Truck**

<b>Capacity</b>	<b>kg</b>	<b>(lbs)</b>
Payload .....	39916 .....	(88,000)
	<b>m3</b>	<b>(yd3)</b>
Volume, S.A.E. Heaped .....	25.5 .....	(33.3)
Volume, S.A.E. Semi-Heaped .....	22.9 .....	(30.0)
Volume, S.A.E. Struck .....	20.4 .....	(26.7)

### Discharging

Time ..... 13 Seconds

### Vehicle Speeds – Loaded

Forward or Reverse with 3% Rolling Resistance

<b>Gear</b>	<b>1st</b>	<b>2nd</b>	<b>3rd</b>	<b>4th</b>
Speed in km/h .....	4.3 .....	7.6 .....	12.9 .....	22.0
Speed in mph .....	2.7 .....	4.7 .....	8.0 .....	13.7

### Gradeability

Maximum ..... See Performance Curve

### Engine

Detroit Diesel ..... Series 60 DDEC III  
MSHA Power Rating @ 2,100 rpm ..... 354 kW (475 hp)  
Max. Torque @ 1,200-1,350 rpm: ..... 2102 Nm (1,550 ft.lbs)  
Number of Cylinders ..... 6, In Line  
Displacement ..... 12.7 L (775 in3)  
Cooling ..... Liquid (Water/Anti-Freeze)  
MSHA Ventilation ..... 1444 m3/min. (51,000 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 with Lock Up, Clark ..... CL-8000 Series

### Transmission

Full Power Shift, 4 Speeds Forward/Reverse  
Clark ..... 8000H Series

### Axles

Spiral Bevel Differential, Full-Floating Planetary  
Wheel End Drive  
Rock Torque® ..... 533 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 ..... 29.5 x 29, 34 Ply, L3

### Steering

Articulated Hydraulic Power Steering, Pilot Operated,  
Hydraulic Rotary Servo (Wheel) Control  
Turning Angle ..... 82° (41° each way)  
System Pressure ..... 15.9 MPa (2,300 psi)

### Hydraulic System

Cylinders ..... Double Acting with Chrome Plated Stems  
Steering Cylinders (2) Diameter ..... 152 mm (6.0 in)  
Hoist Cylinders (2) ..... Two Stage  
First Stage Diameter ..... 191 mm (7.5 in)  
Second Stage Diameter ..... 140 mm (5.5 in)  
Pumps ..... Heavy Duty Gear Type  
Dump ..... 318 lpm (84 gpm) @ 2,400 rpm  
Steering ..... 318 lpm (84 gpm) @ 2,400 rpm  
Filtration ..... Suction Line: 28 Micron

### Tank Capacities

	<b>liters</b>	<b>(gallons)</b>
Fuel .....	700 .....	(185)
Hydraulic Oil .....	315 .....	(83)

### Oscillation

Front Axle, Trunion Mounted, Synthane Bushings  
Degree of Oscillation ..... Total 16°

### Operator's Arrangement

Forward Facing Seating and Steering

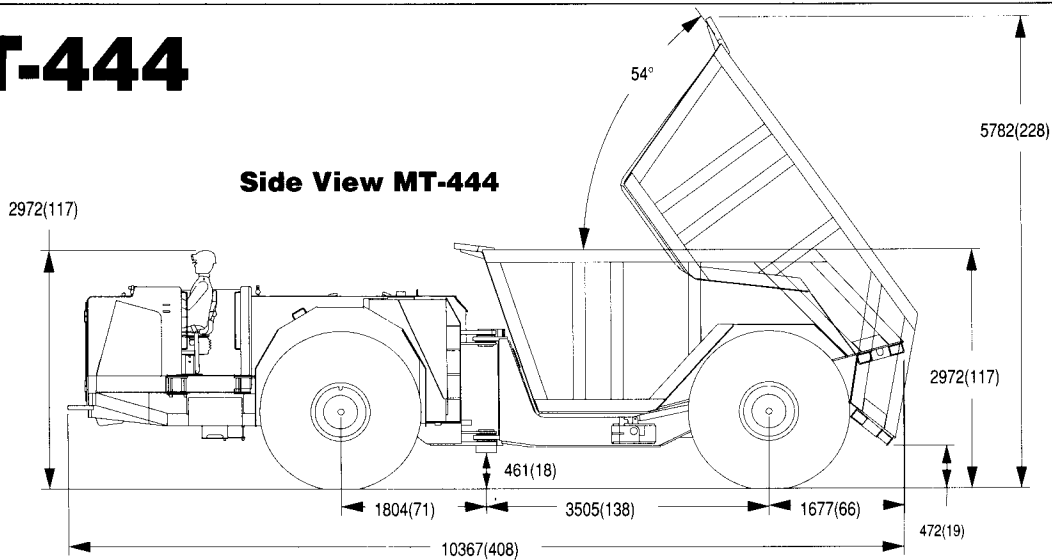
### Operating Weight

	<b>kg</b>	<b>(lbs)</b>
Empty, Approximate .....	35516 .....	(78,300)

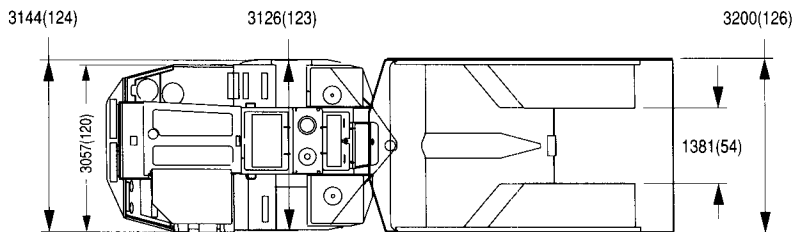
Manufactured with an MSHA Title 30, Part 32, (Schedule 24) Certified Engine.

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

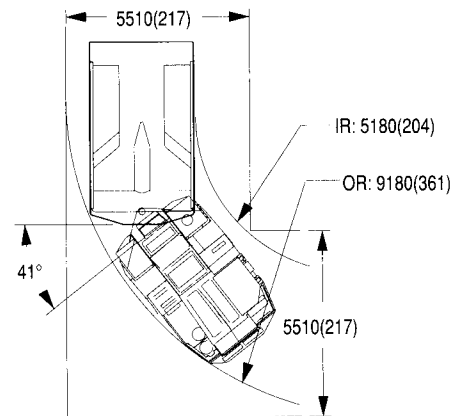
# MT-444



**Top View MT-444**



**Top Turning View MT-444**



NOTE: Dimensions are shown in millimeters (inches) and based on an unloaded vehicle tire radius of 975 (38.4). All dumpbox dimensions are based on a box for material weighing 1.8T/m<sup>3</sup> (3,000 lbs/yd<sup>3</sup>) and a semi-heaped load.

## Standard Features

- |   |                                    |  |
|---|------------------------------------|--|
| 2101 – Dry Type Air Cleaner(s)          | 5700 – Neutral Start Protection    | 7400 – Electric Warning Horn           |
| 2410 – Electric Start                   | 5801 – SAHR® Brake System          | 7403 – Audio/Visual Back Up Alarm      |
| 2701 – Mesabi Radiator                  | 5810 – Automatic Brake Application | 8008 – SAHR Override Control           |
| 3112 – Flex Plate Drive                 | 6001 – Seat Belts                  | 8073 – Engine Hour Meter               |
| 4002 – Steering Hinge Lock              | 7004 – Sealed Electrical System    | 8061 – Converter Lock Up               |
| 5221 – Primary & Secondary Fuel Filters | 7100 – Alternator                  | 8074 – Tachometer                      |
| 5350 – Converter Oil Cooler             | 7200 – Batteries                   | 8093 – Engine Low oil/High temp. Alarm |
| 5550 – Hydraulic Pressure Test Ports    | 7300 – Halogen Working Lights      |  |

## Vehicle Configuration

- |   |                                       |                                |
|---|---------------------------------------|--------------------------------|
| 0163 – Box: 22.9 m <sup>3</sup> (30.0 yd <sup>3</sup> ) | 0601 – Conventional Rear Differential | 1102 – Grammer Seat            |
| 0236 – Detroit Diesel Series 60 – 12.7 L                | 0701 – SAHR Brakes                    | 3407 – Rock Torque® Axles      |
| 0321 – Rock Tough™ Purifier & Silencer                  | 0801 – 29.5 x 29 Toyo G18 L3 TL       | 5401 – Central Lubrication     |
| 0400 – No Canopy  | 0902 – Wheel Steering Control         | 8067 – Hydraulic Trans Control |
| 0501 – Conventional Front Differential                  | 1001 – Single Lever Dump Control      |                                |

**Distributed By:**



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