MACK DEFENSE
M917A3 HEAVY DUMP TRUCK
The Mack Defense M917A3 Heavy Dump Truck is a commercially-based Mack® Granite® dump truck, engineered to be the best-in-class tactical vehicle solution from the only company that can deliver these unparalleled capabilities to the U.S. Army. Mack Defense assembled a world class team with one purpose in mind — to provide the U.S. Army with a best-in-class heavy dump truck that meets all military requirements.

**Specifications Overview**
- Up to 27 ton payload capacity
- Up to 18 cubic yard dump
- Diesel engine compatible with JP8
- 2 person cab
- Air lift ability

**AWD Components**
- Front drive
- Transfer case
- High ground clearance air ride suspension
- Torsion or tri-axle rear axle

**Prepared for anything. The HDT is designed to match the demands of the most severe conditions.**

**MP®8**
Saving up to 2.5% in fuel and shedding 88 lbs in weight, Mack’s workhorse MP®8 engine offers up to 520 HP and 1,860 lb-ft of torque and the Euro 3 version is also available at 500 HP and 1,740 lb-ft of torque.

**6x6 or 8x8 Axle and Suspension Configurations**
The Meritor® axles coupled with the Mack front parabolic spring and the Hendrickson rear Primaxx® suspension provides unparalleled ride quality with a fully loaded or empty payload.

**Frame Rail and Crossmembers**
The 300 mm constant frame rail height and high strength steel alloy in conjunction with a full length channel liner provide for optimal strength and payload capabilities. The frame system includes a full channel liner in each rail that runs front to rear within the Mack Defense M917A3 Heavy Dump Truck. This provides for optimal strength and payload capabilities.

**APPLICATIONS**
- Offers military users the capability of transporting supplies on logistic and tactical missions.
- Additional applications could include — radars, troop carrier, wrecker, tank, heavy equipment transport, and other vehicles.
HIGH CAPACITY DUMP BODY
High strength steel, Up to 18 cubic yards, Heated dump body

TAILGATE ASSEMBLY
Standard Swing Gate, Optional Material Control System (MCS), Optional shoots for specific materials

OPTIONAL SPARE TIRE CARRIER
Mounted vertically between back of cab and dump body

OPTIONAL LIFTING, TIE-DOWN, AND TOWING
Front bumper assembly - multipurpose HDT design with lifting eye and tie down feature and brush guard, Rear tie down/towing, Side lifting loop (attached to frame)

ELECTRICAL OPTIONS
Collision Warning System, Military Lighting, NATO Slave Receptacle, 12/24V Electrical System, 12V SAE and 24V NATO Trailer Connections

Tested, tried, and true platform
The M917A3 HDT has passed its ruggedness challenge at the Nevada Automotive Testing Center. Passing these tests was especially important for the M917A3 and proved its design is ready to tackle the most rugged terrain. Clearly, the M917A3 has proven it has got the capability you need to take on tough jobs.

Vertical Step
Step Static stability on tilt table
Wall-to-wall turning circle
Trench crossing
Speed on 0% grade
Speed, stop and start 30% grade
Steady state turning
Ride quality - half rounds
Side slope
Mobility Testing
Environmental
Fording - 20 inches
Standard is -25°F to 120°F, can go to -40°F to 120°F with addition of cold weather kit
Mack Defense Demands Total Performance. Meritor® Delivers.

More than a half century ago, Meritor began supplying drivetrain components to military fleets. Today, we’re one of the world’s largest independent drivetrain suppliers for tactical wheeled vehicles. Meritor takes great pride in supplying complete integrated systems to meet the demanding requirements of the most difficult terrains worldwide. With decades of experience engineering tactical drivetrain components, Meritor’s ProTec™ axles, transfer case and drivelines offer high performance, efficiency and reliability for the Mack Defense M917A3 Heavy Duty Truck.

MERITOR PROTEC SERIES 50 RIGID TRIDEM AXLE
- Gross axle weight rating (GAWR) of 30,000 lbs per axle
- 3.46:1 Planetary geared wheel-end
- Standard Driver-Controlled Differential Lock (DCDL) or automatic locking options
- Air disc brake or drum brake options

MERITOR MX-810 FRONT DRIVE STEER AXLE
- Gross axle weight rating (GAWR) of 23,000 lbs
- Standard Driver-Controlled Differential Lock (DCDL) or automatic locking options
- EX+ air disc brakes standard or optional drum brakes
- ABS-ready wheel ends with installed tooth wheel and sensor

MERITOR PERMALUBE™ RPL SERIES DRIVELINE
- Permanently lubricated and sealed for life – reduced maintenance and operating costs
- Extended U-joint life to handle difficult terrains
- Triple lip seals provide protection against contaminants
- Nylon thrust washers eliminate metal-to-metal contact to prevent wear
- Four-bolt design for easy installation and service
- E-coated steel guard secures and protects the slip seal against contaminants and damage

MERITOR MTC-3220FV (TC-142) TRANSFER CASE
- Speed – 3,500 RPM
- High Input Torque – 20,000 lb-ft
- Ratios – 1:1 and 2.23:1
- Combined splash and pressurized lubrication system
- Optional Full Power PTO, Integral Air Range Shift
- High-torque helical high range gears with tapered roller bearings
Dump Body

- 17’ Long Crysteel Select Dump Body
- 18-22 yard capacity
- Front Material 3/16” AR450
- Side Material 3/16” AR450
- Tailgate Material 3/16” AR450
- Floor Material 1/8” AR450
- Heated Tubular Longsills and side rubrails
- Std or Modular Cable System Tube Option
- 50” Cab protector
- 52” rear and 90” tubular ladder access steps outside and inside, left front corner tire chain storage boxes, both sides asphalt tarp

Dump Body Cylinder
Chrome plated T74167 7” barrel, 4 stages, 167” stroke to achieve 50 degree dump angle

Includes Control Module with touch screen display to:
- Operate dump body hoist
- Operate the tarp and tailgate latch
- Operate the body heater system
- Operate the MCS/doors
- Inclinometer to show side slope and grade
- Automatic shut down of the hoist if over 7% side slope or 15% uphill grade
- On Board weigh scale

We’ve built our name around Mack Defense Parts. These parts are engineered to provide dependability and peak performance. They are selected because they meet Mack Defense’s manufacturing tolerances and exacting specifications. That’s how we built our legendary reputation for quality. And it’s why we offer one of the industry’s best guarantees against parts failure. No matter where you travel, you can depend on the legendary Mack Defense parts and services that you will always find at your Mack Defense dealer.
**Armor Scalable Solutions.**

Whatever the mission, this unique armored body system is designed to withstand the most challenging conditions.

### AXLES/SUSPENSION

- **Front Axle:** Meritor® MX-810
- **Front Suspension:** Taperleaf spring suspension (parabolic), axle-forward position
- **Rear Axle:** P600/ProTec Series 50, 76,800 lb Meritor® 34836
- **Carrier Ratio:** 6.14
- **Rear Suspension:** Primaxx® Pax 792 high stability 76,800 lb

### CAB/CHASSIS

- **Driver Seat (non-armored):** Mack-air, high back, 1 chamber air lumbar
- **Passenger Seat (non-armored):** Mack-air, high back, 1 chamber air lumbar
- **Mirrors (both sides):** Aero black, heated/motorized, wide angle, w/o lamps
- **Spare Tire:** Spare tire/carrier between dump body and cab
- **Left Side Fuel Capacity:** 93 gal (350 L), 26” aluminum d-shape
- **Right Side Fuel Capacity:** N/A
- **Engine Brake:** Engine brake, plus exhaust pressure governor (for HE/Export)
- **Fan Drive:** Electronic modulating viscous fan drive
- **Air System:** Meritor®/Wabco 636 (37.4 cfm) w/o clutch
- **Starter:** 24 Volt
- **Alternator:** High output, 24V alternator

### DRIVELINE/TRANSMISSION

- **Driveline:** Meritor® Permalube RPL
- **Transmission:** Allison® 4500 Gen5 with prognostics, 6-speed
- **Brakes:** Meritor® EK® air disc brakes front, Meritor Drum 16.5”x7” C+ rear
- **ABS System:** 6S/6M system
- **Front/rear Tires:** 445/65R22.5 L Michelin® XZY3
- **Transfer Case:** Fabco TC142

### WEIGHTS/DIMENSIONS

- **GVW:** 94,500 lbs
- **Wheel Configuration:** 8X8
- **Frame:** 350mm X 90mm X 11.1mm with steel reinforcement frame
- **Wheelbase:** 243”
- **Platform:** 230”
- **Overhang:** 75”
- **Powertrain**
  - **Type:** Mack 13 Liter, MP8 440
  - **Max Power:** 440 HP
  - **Max Torque:** 1690 lb-ft
  - **Engine Brake:** Electronic modulating viscous fan drive
  - **Air System:** Meritor®/Wabco 636 (37.4 cfm) w/o clutch
  - **Starter:** 24 Volt
  - **Alternator:** High output, 24V alternator
- **Engine Brake:** Engine brake, plus exhaust pressure governor (for HE/Export)
- **Fan Drive:** Electronic modulating viscous fan drive
- **Air System:** Meritor®/Wabco 636 (37.4 cfm) w/o clutch
- **Starter:** 24 Volt
- **Alternator:** High output, 24V alternator

- **Type:** Mack 13 Liter, MP8 440
- **Max Power:** 440 HP
- **Max Torque:** 1690 lb-ft
- **Engine Brake:** Engine brake, plus exhaust pressure governor (for HE/Export)
- **Fan Drive:** Electronic modulating viscous fan drive
- **Air System:** Meritor®/Wabco 636 (37.4 cfm) w/o clutch
- **Starter:** 24 Volt
- **Alternator:** High output, 24V alternator

### CUSTOMIZED OPTIONS AVAILABLE TO MEET MISSION REQUIREMENTS