

TRUCK, DUMP, MEDIUM, WINCH, MC2 - UNIMOG

DUMP SYSTEM

DATA SUMMARY

This instruction is authorised for use by command of the Chief of Army. It provides direction, mandatory controls and procedures for the operation, maintenance and support of equipment. Personnel are to carry out any action required by this instruction in accordance with EMEI General A 001.

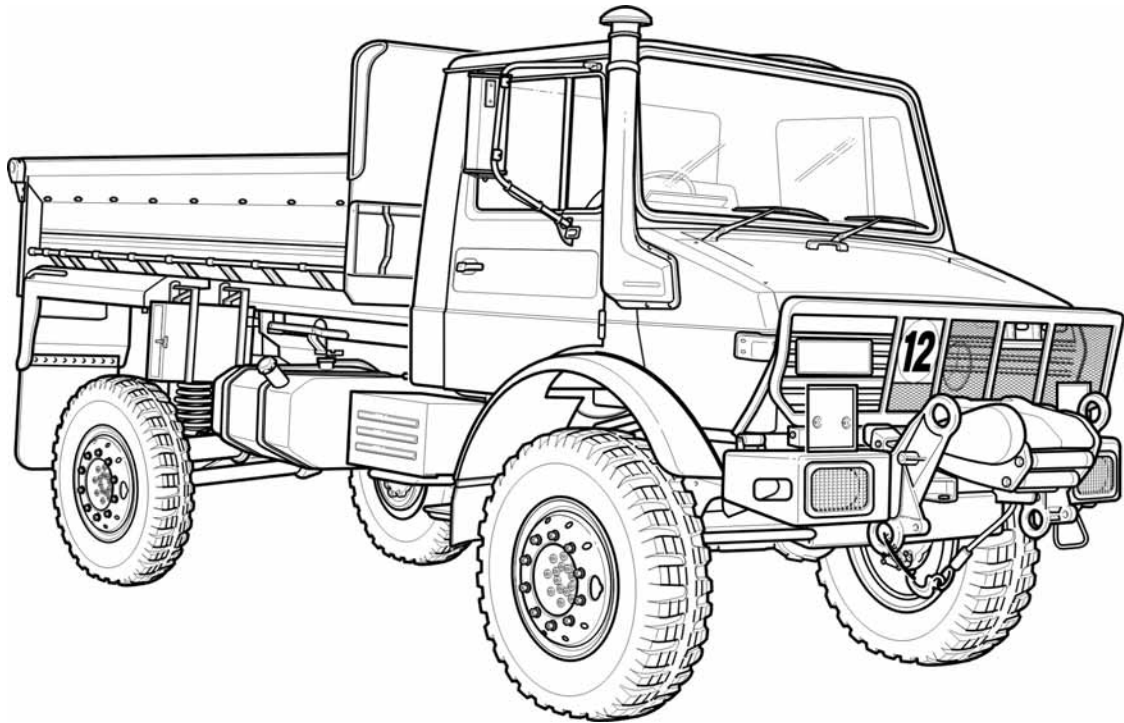


Figure 1 Truck, Dump, Medium, Winch, MC2, Mercedes-Benz Unimog

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General

1. This EMEI lists data relevant to the dump system fitted to the Truck, Dump, Medium, Winch, MC2, as shown in Figure 1. Information applicable to the Unimog cab/chassis is contained in [EMEI Vehicle G 600](#), Truck, Cargo, Medium, MC2 – Unimog – Data summary.
2. **Role.** The role of the dump is to carry arreggate on sealed, second class roads and under limited cross-country conditions. A secondary role is to carry a mixture of personnel and tools when fitted with the field engineer tool cages (Ref EMEI Vehicle G 619-23).
3. **Description.** The dump system consists of a hydraulic reservoir and pump, a pneumatically-operated hoist valve, a hydraulic hoist cylinder, and a pneumatic tailgate cylinder with a mechanical lock mechanism. Controls and a gauge are situated in the cabin. A safety support stay, located on the chassis sub-frame, is provided which, when raised and locked, supports the raised body when personnel are required to work under it.

Detail

4. Vehicle Dimensions:

- a. Length Overall 6 370 mm
- b. Width:
 - (1) Mirrors Extended 2 780 mm
 - (2) Mirrors Stowed 2 340 mm

- c. Height:
 - (1) Laden..... 3 435 mm
 - (2) Unladen..... 3 460 mm
- d. Height Reduced (with Canopy, Canopy Rails, Bows and Hatch Cover Removed):
 - (1) Laden..... 2 645 mm
 - (2) Unladen..... 2 670 mm
- e. Pintle Hook Height..... 720 mm
- f. Internal Tray Dimensions:
 - (1) Length..... 3 300 mm
 - (2) Width..... 1 900 mm
 - (3) Height..... 570 mm

5. **Hydraulic Oil Reservoir:**

- a. Manufacturer Mercedes-Benz
- b. Capacity..... 35 L
- c. Hydraulic Oil..... OM-33

6. **Hydraulic Oil Pump:**

- a. Manufacturer Mercedes-Benz
- b. Special Version Number Single circuit SA 36012

7. **Hoist Valve:**

- a. Manufacturer (Early Type)..... Samson Hydraulics Pty Ltd
 - (1) Type DP-2 80 litres (variable speed distributor valve)
 - (2) Operating Pressure..... 350 bar
- b. Manufacturer (Late Type)..... ALTATEC Pty Ltd
 - (1) Type VLVHP130P (variable speed distributor valve)
 - (2) Operating Pressure..... 350 bar

8. **Flow Control Valve:**

- a. Manufacturer Blain Hydraulics
- b. Model L10 ¾ inch
- c. Minimum Operating Pressure..... 10 bar
- d. Maximum Operating Pressure..... 140 bar

9. **Hoist Cylinder:**

- a. Manufacturer Edbro
- b. Model YD11/3/1025
- c. Lift Height..... 1 025 mm
- d. Nominal Pressure 110 bar
- e. Maximum Angle of Tip..... 50°

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10. **Air Switch:**
- a. Manufacturer..... Edbro
 - b. Model (Early Type)..... AV66S
 - c. Model (Late Type)..... AV225
 - d. Type Dual pneumatic
11. **Tailgate Cylinder:**
- a. Manufacturer..... SMC Pneumatic Pty Ltd
 - b. Model CAIDN63-150NY
 - c. Working Pressure..... 1 000 kPa maximum
12. **Associated Information:**
- a. NSN..... 2320-66-112-8977
 - b. RPS 02158
 - c. CES 11758
 - d. User Handbook 7610-66-115-4724
 - e. [EMEI Vehicle G 602](#)..... Technical Description
 - f. [EMEI Vehicle G 609](#)..... Servicing Instruction
 - g. [EMEI Vehicle G 603](#)..... Light Grade Repair
 - h. [EMEI Vehicle G 604](#)..... Medium Grade Repair
 - i. [EMEI Vehicle G 604-1](#)..... Heavy Grade Repair
 - j. [EMEI Vehicle G 632](#)..... Technical Description
 - k. [EMEI Vehicle G 633](#)..... Light Grade Repair
 - l. [EMEI Vehicle G 634](#)..... Medium Grade Repair
 - m. [EMEI Vehicle G 634-1](#)..... Heavy Grade Repair

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END

Distribution List: **VEH G 33.0 – Code 1** (Maint Level)
(Sponsor: LV SPO, Mdm/Hvy B Vehicles)
(Authority: ECO LVSP0 031/08)