

TRUCK, CARGO, MEDIUM, CRANE, MC2 – UNIMOG
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.

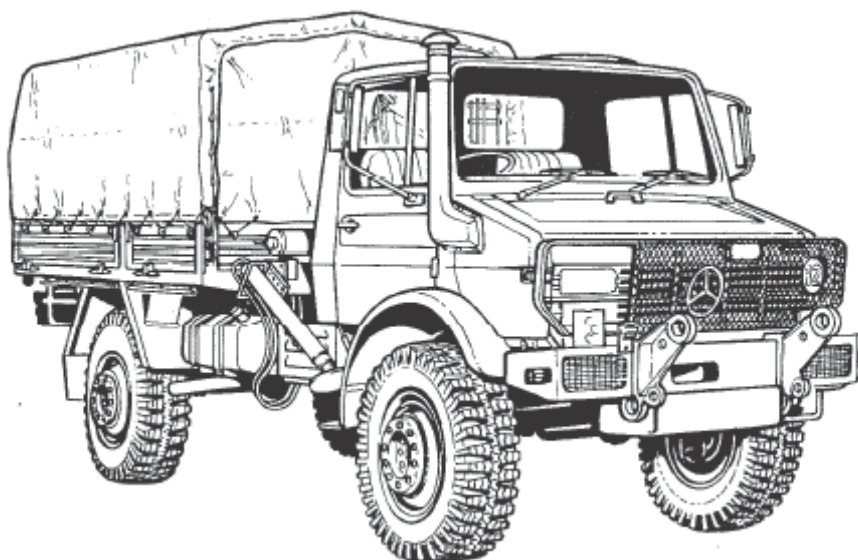


Figure 1 Truck, Cargo, Medium, Crane, MC2 – UNIMOG

General

1. This EMEI lists the basic data for the Truck, Cargo, Medium, Crane, MC2 - Unimog as shown in Figure 1. Basic data relating to the vehicle can be found in the general service variant(Ref EMEI VEH G 600).
2. **Role.** The role of the equipment is to transport cargo and personnel and to provide a general lift facility within the capacity of the crane.
3. **Description.** The Truck, Cargo, Medium with Crane, MC2, Unimog is a 4 x 4 vehicle which forms the basis of Army second line transport and a significant part of Army third line transport. The vehicle is fitted with a crane to provide a general lift capability within the capacity of the crane.

Detail

4. Dimensions:

- a. Height:
 - (1) Unladen..... 3 140 mm
 - (2) Laden 3 040 mm
- b. Height Reduced (with Canopy, Canopy Frame and Hatch Cover Removed):
 - (1) Unladen..... 2 700 mm
 - (2) Laden 2 600 mm
- c. Length 6 580 mm
- d. Width..... 2 465 mm
- e. Wheelbase 3 850 mm
- f. Ground Clearance 500 mm

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- g.** Pintle Hook Height:
 - (1) Unladen 830 mm
 - (2) Laden 740 mm
- h.** Internal Tray Dimensions:
 - (1) Length 3 350 mm
 - (2) Width 2 350 mm
 - (3) Height 570 mm

5. Mass:

- a.** Unladen:
 - (1) Front Axle 3 810 kg
 - (2) Rear Axle 2 790 kg
 - (3) Total 6 600 kg
- b.** Maximum Loading:
 - (1) Front Axle 5 300 kg
 - (2) Rear Axle 7 000 kg
 - (3) Total 12 000 kg
- c.** GCM:
 - (1) Highway 24 000 kg
 - (2) Cross Country 19 000 kg

6. Crane:

- a.** Manufacturer Palfinger
- b.** Type..... PK4600A/244
- c.** Maximum Lifting Capacity at 10° Main Boom Angle (Figure 2):
 - (1) 3.3m 1 350 kg
 - (2) 4.2m 1 050 kg
 - (3) 5.1m 860 kg
- d.** Maximum Lifting Moment at 5.1 m Outreach 45.1 kN
- e.** Slewing Torque 7.2 kN
- f.** Slewing Angle 210°
- g.** Stabiliser (Spread) 2.34 m
- h.** Width (Stowed) 2.3 m
- i.** Height (Stowed) 1.8 m
- j.** Operational Height (with Main Boom Horizontal and Outer Jib Extended) 2.06 m
- k.** Hook Approach 2.5 m
- l.** Weight 715 kg
- m.** Control Positions:
 - (1) Crane Through observation hatch
 - (2) Stabiliser..... At each stabiliser

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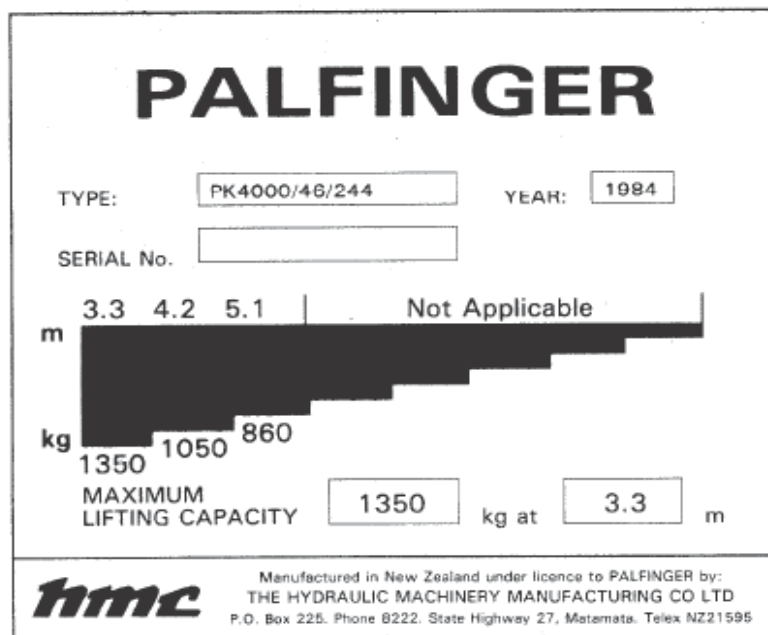


Figure 2 Safe Working Load Label

- n. Operating Pressure 215 bar (21.5 MPa)
- o. Power SourceHydraulic pump belt driven from the engine crankshaft pulley
- 7. **Hydraulic Oil Reservoir:**
 - a. Capacity35 L
 - b. Type YA425.550-01 80
 - c. Make..... Mercedes-Benz
 - d. Oil OM-33
- 8. **Hydraulic Oil Pump:**
 - a. Special Version NumberSingle-circuit SA 36012
 - b. Type YA425 550 00 83
 - c. Make..... Mercedes-Benz
 - d. Delivery Volume..... 16 cm³
 - e. Delivery Flow at Rated Speed.....53 L/min
 - f. Maximum Pressure.....200 + 15 bar
 - g. Ratio of Engine/Pump Speed 1:1.25
 - h. Drive Belts:
 - (1) Pulley Diameter 153 mm
 - (2) Belt Type.....YA006 997 70 92
 - (3) Make Mercedes-Benz
- 9. **Diverter Valve:**
 - a. TypeFD4 DTKS1025 50
 - b. Make..... Racine
 - c. Voltage24V dc

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- d. Pressure Rating..... 315 bar
- e. Flow Rate
 - (1) Nominal..... 45 L/min
 - (2) Maximum..... 68 L/min
- f. Fluid Temperature:
 - (1) Normal54°C
 - (2) Maximum.....71°C
- g. Response Time:
 - (1) Solenoid Energised..... 0.016 s
 - (2) Spring Return 0.016 s
- h. Weight..... 4.0 kg

10. Directional Control Valve Bank:

- a. Type.....HV07-704OE
- b. Make..... Palfinger

11. Manufacturer's Details:

- a. Manufacturer:
Daimler Chrysler Australia/Pacific Pty Ltd (DCAuP).
Lexia Place,
MULGRAVE VIC 3170.
Ph (03) 9566 9239

12. Point of Contact:

Fleet Manager Mdm/Hvy B Vehicles Section
LV SPO, DMO
DPM-7
Bourke St
MELBOURNE VIC 3000

13. Associated Information:

- a. SIGC.....2320-0046
- b. NSN..... 2320-66-112-8976
- c. RPS..... 02157
- d. SCES 011756
- e. Liability Code..... 75025
- f. User Handbook..... 7610-66-156-2407
- g. Other EMEI (Base Variant):
 - (1) [Vehicle G 600](#) Data Summary
 - (2) [Vehicle G 602](#) Technical Description
 - (3) [Vehicle G 603](#) Light Grade Repair
 - (4) [Vehicle G 604](#) Medium Grade Repair
 - (5) [Vehicle G 604-1](#) Heavy Grade Repair
 - (6) [Vehicle G 609](#) Servicing Instruction
- h. Other EMEI (Crane Variant):

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- (1) [Vehicle G 622](#) Technical Description
- (2) [Vehicle G 623](#) Light Grade Repair
- (3) [Vehicle G 624](#) Medium Grade Repair
- (4) [Vehicle G 624-1](#) Heavy Grade Repair
- (5) [Vehicle G 626](#) Authority for Use
- (6) [Vehicle G 626-1](#) Manual

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END

Distribution List: **VEH G 32.0 – Code 1** (Maint Level)
(Sponsor: LV SPO, Mdm/Hvy B Vehicles)
(Authority: ECO LVSP0 030/08)