

SEMI-TRAILER, HEAVY, TANK/PLANT TRANSPORTER, MC4, HAULMARK

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.

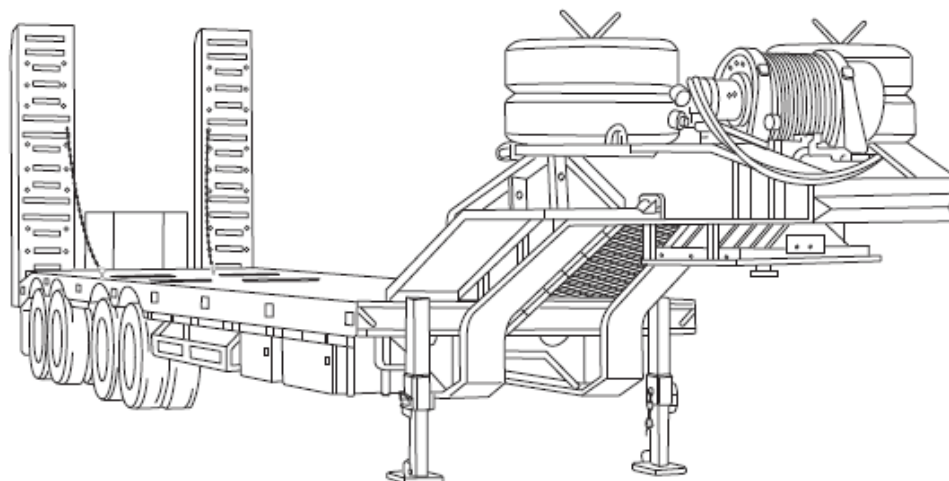


Figure 1 Semi-Trailer, Heavy, Tank/Plant Transporter, MC4, Haulmark

General

1. This EMEI lists basic data for the Semi-Trailer, Heavy, Tank/Plant Transporter, MC4, Haulmark as shown in Figure 1. Data Summary for Dolly Converter, Heavy, Tank/Plant Transporter, MC4, refer [EMEI Vehicle H 980](#).

2. **Role.** The role of this equipment is to transport heavy armoured vehicles and engineer plant.

3. **Dimensions:**

a. Length:

- (1) Trailer 17 240 mm
- (2) Trailer and Dolly Converter..... 19 260 mm

b. Overall Width:

- (1) Minimum 2 800 mm
- (2) Maximum..... 3 250 mm

c. Overall Height..... 3 950 mm

d. Shipping Volume:

- (1) Trailer 190.7 m cubed
- (2) Trailer and Dolly 213 m cubed

e. Cargo Deck:

- (1) Length 12 100 mm
- (2) Width:
 - (a) Minimum 2 800 mm
 - (b) Maximum..... 3 250 mm

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- f. Track..... 2 146 mm
 - g. Ground Clearance..... 240 mm
 - h. Limiting Feature..... Frame member
- 4. Mass:**
- a. Unladen:
 - (1) Axles 10 800 kg
 - (2) King Pin 5 160 kg
 - (3) Total 15 960 kg
 - b. Trailer and Dolly Converter Combination, Unladen:
 - (1) Trailer Axles 10 800 kg
 - (2) Dolly Converter Axles 5 500 kg
 - (3) Dolly Converter King Pin 3 400 kg
 - (4) Total 19 700 kg
 - c. Maximum Uniformly Distributed Payload:
 - (1) Without Dolly Converter..... 33 790 kg
 - (2) With Dolly Converter..... 48 050 kg
 - d. Design Limit Loading:
 - (1) Without Dolly Converter..... 40 000 kg
 - (2) With Dolly Converter..... 55 000 kg
- 5. Bridge classification 68**
- 6. Wheels and Tyres:**
- a. Wheels..... 8.25 x 22.5 tubeless
 - b. Tyre Size 275/70 R22.5 by 16 ply Ohtsu R 1800
 - c. Tyre Pressure (Cold):
 - (1) Laden..... 800 kPa
 - (2) Unladen 700 kPa
- 7. Axles:**
- a. Manufacturer Dana Spicer
 - b. Type..... D22, single tubular beam
- 8. King Pin:**
- a. Manufacturer Holland Hitch
 - b. Type..... 90 mm, bolt-in
- 9. Suspension:**
- a. Manufacturer Engineered Transport Equipment
 - b. Type..... Goth 4-8-4, 6-rocker
- 10. Electrical system:**
- a. Type..... 12 V dc
 - b. Connector 12 pin NATO

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11. Brakes:

- a. Foundation Dana/Spicer
- b. Type D22, internal expanding twin shoe, S cam actuated
- c. Size 16.5 x 7 in
- d. Parking Spring brakes on all wheels
- e. Control System:
 - (1) Type Twin line, compressed air
 - (2) Manufacturer Westinghouse

12. Loading Ramps:

- a. Type Manually actuated, spring assisted
- b. Loading Angle 15 degrees

13. Winch:

- a. Manufacturer Bournedrill P/L
- b. Type Single drum, hydraulic powered
- c. Rope Type Right-hand, ordinary lay
- d. Rope Length 50 m
- e. Rope Diameter 28 mm
- f. Breaking Strain 496 kN
- g. Winch Capacity:
 - (1) Single Line:
 - (a) Top Layer 15 600 kg
 - (b) Second Layer 17 300 kg
 - (c) Bottom Layer 20 000 kg
 - (2) Double Line:
 - (a) Top Layer 31 200 kg
 - (b) Second Layer 34 600 kg
 - (c) Bottom Layer 40 000 kg
- h. Power Source Prime mover PTO hydraulics

14. Fifth Wheel:

- a. Manufacturer Holland Hitch
- b. Type 40 – IZ

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15. Lubricants:

- a. Chassis..... XG-291
- b. Wheel Bearings XG-291
- c. Winch Drum Bearings XG-291
- d. Hydraulics Hydraulic fluid, Grade 68
- e. Winch Gearcase..... Hydraulic fluid, Grade 68
- f. Winch Failsafe Brake Hydraulic fluid, Grade 68
- g. Brake Control Valves XG-315
- h. Winch Rope..... Rocol wire rope lube (NSN 9510-99-337-1498)

16. Manufacturer's Details:

- a. Manufacturer:
Haulmark Trailers (Australia)
1848 Ipswich Rd
ROCKLEA QLD 4108

Phone: (07) 3277 3666
Fax: (07) 3277 0296
- b. Australian Distributor:
Haulmark Trailers (Australia)
36 Riverside Rd
CHIPPING NORTON NSW 2170

Phone: (02) 9755 3877
Fax: (02) 9755 2320

17. Point of Contact:

CGSVSPO, Hvy/Mdm B Vehicles Section
DMO
DPM-7 Defence Plaza Melbourne
661 Bourke St
MELBOURNE VIC 3000

18. Associated Information:

- a. NSN – Trailer 2330-66-135-0580
- b. SIGC.....2330-0025
- c. RPS.....02198
- d. ILSI..... ALI MM 10-1
- e. Technical Description..... [EMEI Vehicle H 862](#)
- f. Light Grade Repair [EMEI Vehicle H 863](#)
- g. Medium Grade Repair [EMEI Vehicle H 864-1](#)
- h. Servicing Instruction [EMEI Vehicle H 869](#)

END

Distribution List: **VEH H 07.0 – Code 1** (Maint Level)
(Sponsor: CGSVSPO, Mdm/Hvy B Vehicle Section)

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