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SPECIFICATION ARMY(AUST) 172

FOR

SHOP EQUIPMENT, MACHINE SHOP SHELTER MOUNTED
GENERAL ENGINEERING

ISSUE 3

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CONTENTS

	<u>Paragraph</u>		<u>Paragraph</u>
SCOPE	1.	Materials	4.10
APPLICABLE DOCUMENTS	2.	Workmanship	4.11
Specifications	2.1	Tendering	4.12
Standards	2.2	QUALITY ASSURANCE PROVISIONS	5.
Drawings	2.3	Inspection	5.1
DEFINITIONS	3.	Tests	5.2
REQUIREMENTS	4.	PREPARATION FOR DELIVERY	6.
General	4.1	Packaging	6.1
Shelter	4.2	Delivery	6.2
Machine Tool	4.3	NOTES	7.
Stowage	4.4	Ordering Data	7.1
Grinding Machines	4.5	Named Trade Items	7.2
Generator	4.6	Amendments to Specification	7.3
Electrical	4.7	Adherence to Specification	7.4
Lathe Servicing		APPENDIX A.	
Lid	4.8		
Identification	4.9		

Design Endorsed

18 Apr 69

Daryl Haslam Gen Brigadier
(L. Y. C. RANK)
Chief Superintendent

Army Design Establishment

Approved for Production/
Procurement

G. S. Allen Lt Col AMGO(M)
for Major General
(T. F. CAPE)

MASTER GENERAL OF THE ORDNANCE

18 Apr 69

-3-

1. SCOPE

This Specification covers the requirement for a transportable workshop comprising a Universal Metal-Working Machine together with other ancillary machines and hand tools mounted in a "Shelter, Workshop, Transportable".

2. APPLICABLE DOCUMENTS

Reference is necessary to the latest issue of the following documents:-

2.1 Specifications

ARMY (AUST) 171	- Shelter, Workshop, Transportable.
ARMY (AUST) 170	- Universal Metal Worker.
DEF (AUST) 47A	- Identification Marking of Service Equipment.
ARMY (AUST) 604	- The Identification Tagging and Labelling of Stores and the Marking of Boxes containing such Stores.

These specifications are available from the Chief Superintendent, Army Design Establishment, Private Bag No.12, P.O. ASCOT VALE, Victoria, 3032.

2.2 Standards

AS CCI SEA Wiring Rules.

This standard is available from the Standards Association of Australia in all capital cities.

2.3 Drawings

ADE(V)146 Series - Shop Equipment, Machine Shop Shelter Mounted General Engineering.

ADE(V)165 Series - Shelter, Workshop Transportable.

These drawings are available from the Chief Superintendent, Army Design Establishment, Private Bag No. 12, P.O. ASCOT VALE, Victoria, 3032.

3. DEFINITIONS

- 3.1 "Inspecting Officer" shall mean the Director of Army Inspection or his representative.
- 3.2 "Approved" shall mean approved by the Inspecting Officer.
- 3.3 "Shelter" shall mean Shelter, Workshop, Transportable.
- 3.4 "Shop Equipment" shall mean Shop Equipment, Machine Shop Shelter Mounted General Engineering.
- 3.5 "Machine Tool" shall mean Universal Metal Worker.

4. REQUIREMENTS**4.1 General**

The Shop Equipment shall comprise a Shelter, Workshop, Transportable fitted out with a Machine Tool and stowage for hand tools and accessories.

4.

4. (Cont'd)

4.2 Shelter

4.2.1 The Shelter shall be constructed to ARMY(AUST) Specification 171 except as modified by this Specification.

4.2.2 During construction of the Shelter strong points for securing the Machine Tool shall be incorporated in accordance with Drawing ADE(V) 146-18C.

4.3 Machine Tool

4.3.1 A Machine Tool to Specification ARMY(AUST)170, issued in aid to the Contractor, by the Department of Army, shall be installed in the Shelter. It shall be secured to the strong points (see para 4.2.2) in accordance with Drawing ADE(V)146-3D.

4.3.2 Accessories and tools for use with the machine tools shall be securely stowed as listed in Annex 'A' to this Specification. Stowage fittings for the faceplate, driving plate and 3 jaw chuck shall be provided on the machine baseplate in accordance with ADE(V)146-25B.

4.3.3 The machine tool shall be electrically connected to the switchboard of the shelter in accordance with ADE(V)146-4C and AS CCI.

4.4 Stowage Cabinets and Boxes

4.4.1 Three stowage cabinets shall be constructed in accordance with ADE(V)146-14C and two stowage cabinets shall be constructed in accordance with ADE(V)146-15C. The five cabinets shall be installed in the shelter as detailed in ADE(V)146-3D.

4.4.2 A stowage box constructed in accordance with ADE(V)146-9D shall be secured in accordance with ADE(V)146-3D.

4.5 Grinding Machines

4.5.1 A lathe tool grinding machine, supplied in aid to the Contractor, by the Department of Army, shall be fitted to stowage cabinet No.1 in accordance with ADE(V)146-3D.

4.5.2 An off-hand grinding machine, supplied in aid to the Contractor, by the Department of Army, shall be fitted to stowage cabined No.2, in accordance with ADE(V)146-3D.

4.6 Generator

Fastening devices to secure a Generating Set, Gasoline Engine, 15 kVA shall be constructed and fitted in accordance with ADE(V)146-3D.

4.7 Electrical

4.7.1 Electrical wiring and fittings additional to that included in the basic shelter shall be installed in the shelter in accordance with ADE(V)146-4C.

4.8 Lathe Servicing Lid

An opening with a weatherproof lid shall be fitted to the front wall of the Shelter in accordance with ADE(V)146-8C.

4. (Cont'd)

4.9 Identification Marking

The Shelter and all components of the Shop Equipment shall be marked in accordance with Specification Army (Aust) 604. The Plate, item identification applicable to the Shelter shall be fixed to the outer wall adjacent to the main input box.

4.10 Materials

All materials used shall comply with the relevant Australian, British or American Standards, or in their absence, with a standard approved by the Inspecting Officer.

4.11 Workmanship

Workmanship shall be in accordance with the best trade practice and shall be to the satisfaction of the Inspecting Officer.

4.12 Tendering

Should the Tenderer desire to depart in any manner from the requirements of this Specification, he shall detail the variation in his tender and shall include a statement of the advantages to be gained by its adoption. Tenders not accompanied by the information asked for may be rejected without further consideration.

5. QUALITY ASSURANCE PROVISIONS5.1 Inspection

All supplies submitted by the Contractor for acceptance shall be to the approval of the Inspecting Officer. The Inspecting Officer will reject any supplies which, in his opinion, are inferior in quality of materials or workmanship, or differ in any respect from this Specification or other particulars.

5.2 Tests

- 5.2.1 The Contractor shall be responsible for providing any test equipment and facilities, including accommodation, required by the Inspecting Officer, to ensure that the Shop Equipment complies with this Specification.

6.

5.2 (Cont'd)

- 5.2.2 The Contractor shall be responsible for carrying out all tests required by the Inspecting Officer to ensure that the Shop Equipment complies with this Specification.
- 5.2.3 The Shop Equipment shall be inspected, by the Inspecting Officer and shall be deemed unaccepted until the Inspecting Officer certifies that it fulfills the requirements of this Specification.

6. PREPARATION FOR DELIVERY6.1 Packaging

Packaging shall be as designated in the tender schedule or official order.

6.2 Delivery

The Shop Equipment shall be delivered to the place designated in the tender schedule or official order.

7. NOTES7.1 Ordering Data

- 7.1.1 Procurement documents shall specify the following:
- 7.1.1 Title, number and date of the Specification (see face page).
- 7.1.2 Details of the type of preservation and packaging to be used by the Contractor (para 6.1).
- 7.1.3 Details of the place to which delivery is to be made (para 6.2).

7.2 Named Trade Items

A named trade item called up in the Specification and reference drawings may be replaced by an approved equivalent.

7.3 Amendments to Specification

Amendments to any section of this Specification can only be effected by means of the "Change Request" procedure. Should the Contractor desire amendments, these will be passed on the correct form through the Inspecting Officer to the Director of Equipment, Army Headquarters. The amendments become effective only on the issue of a Change Authority by the Director of Equipment on behalf of the Master General of the Ordnance.

7.4 Adherence to Specification

The approving authority for this Specification is the Director of Equipment on behalf of the Master General of the Ordnance, Army Headquarters. No departures from this Specification or associated Specifications will be approved by the Director of Equipment, unless by means of the acceptance of a tender, full details of approved alternatives are incorporated in an eventual contract.

STOWAGE OF ACCESSORIES FOR UNIVERSAL METAL WORKER

<u>Item</u>	<u>Designation</u>	<u>Stowage Location</u>
1.	Faceplate	Fixed to Machine Baseplate
2.	Driving Plate	Fixed to Machine Baseplate
3.	4 Jaw chuck	On Lathe Spindle
4.	3 Jaw chuck	Fixed to Machine Baseplate
5.	Fixed Steady	Fixed to Lathe Bed
6.	Travelling Steady	Fixed to Lathe Saddle
7.	Change Gears (in box)	Bottom shelf of Tool Cabinet
8.	Machine vice	Fixed to Mill Table
9.	Dividing Head (in box)	Bottom shelf of Tool Cabinet
10.	Angle Plate	Fixed to Drill Table
11.	Drill Table	Fixed to Mill Table.

Copies of this Specification may be obtained from:-

Chief Superintendent
Army Design Establishment
Private Bag No.12
P.O. ASCOT VALE, Victoria, 3032