

CHAPMAN

INNOVATION. DESIGNED.

HT100 Utility Trailer

Instructions



Chapman Machinery Ltd, Hele Barton, Week St. Mary, Holsworthy, Devon EX22 6XR
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Introduction

THIS MANUAL MUST BE HANDED TO THE OPERATOR BEFORE USE. THE OPERATOR MUST UNDERSTAND FULLY THE CONTENT OF THIS HANDBOOK BEFORE USING THE MACHINE FOR THE FIRST TIME. OF THE IMPLEMENT IS RESOLD, THIS MANUAL MUST ACCOMPANY THE MACHINE.

NOTE: The information contained in this manual is correct at the time of going to press. However, in the course of development, changes in specification are inevitable. Should you find the information given differs from your machine, please contact Chapman Machinery Ltd direct for advice. Use only Chapman Genuine Service Parts on Chapman Machinery and Machines.

HSE Information

The safe use of all-terrain vehicles (ATVs) & Side by Sides (UTVs) in agriculture and forestry must be adhered to at all times with machinery attached or not. The HSE information, AIS Sheet 33, gives advice on the safe use of ATVs/UTVs. It covers the two main types used in off-road working in agriculture and forestry. The Full HSE information sheet can be found here or using the QR Code to the right <https://www.hse.gov.uk/pubns/ais33.pdf> and must be read prior to any ATV/UTV use.



REMEMBER - GET PROPERLY TRAINED AND ALWAYS WEAR HEAD PROTECTION

Important Safety Information

Always read this manual before fitting or operating the machine – whenever any doubt exists contact your dealer or the Chapman Machinery Service Department for advice and assistance.

- Do not operate this equipment unless you have studied this manual in full
- Only use this machine for its designated task - improper use is both highly dangerous and damaging to machine components
- Both operators & maintenance fitters should be familiar with the machine and fully aware of dangers surrounding improper use or incorrect repairs
- Before starting, carry out a visual check on both machine & towing vehicle as regards functionality, road safety & accident prevention rules
- Never carry passengers on the towing vehicle
- Do not stand near the machine when operating

Transportation Safety

- When transporting, especially over rough ground, reduce speed to prevent damage to machine. Maximum operating speed is 30km/h.

Description

The HT100 Cargo Transporter is designed to be towed by a suitable 4x4 or ATV, for moving a range of materials. Phenolic resin flooring and a strong steel chassis, combined with pivoting axles allow for use over rough and arduous conditions.

The HT100 is a trailed attachment, attaching to the towing vehicle with a 50mm ball hitch connection with integral overturn safety swivel hitch. The tailgate can be folded down for use as a ramp, or alternatively can be removed completely if desired. Tie-down points are included both within the body and on the external sides.

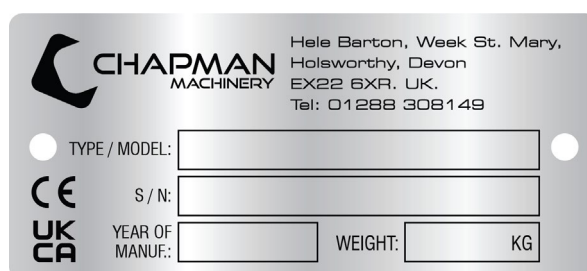
These machines should however only be used to perform tasks for which they were designed - use of the machine for any other function may be both dangerous to persons, and potentially damaging to components. Use of the machine beyond the stated usage may invalidate any applicable warranty, as well as being potential in breach of applicable safety regulations.

Note: This machine is for off-road use only and is not designed or approved for highway travel

Identification

Each machine is fitted with a serial plate (shown below) which details the following:

1. **Model**
2. **Date of Manufacture (DOM)**
3. **Serial Number**
4. **Mass**



CHAPMAN MACHINERY
 Hele Barton, Week St. Mary,
 Holsworthy, Devon
 EX22 6XR. UK.
 Tel: 01288 308149

TYPE / MODEL:

S / N:

YEAR OF MANUF.: WEIGHT: KG

CE UK CA

When enquiring regarding spares or additional equipment, ensure you have this information to hand.

Attachment

Before attachment, ALWAYS ensure the following:

- All safety guards & decals are in good working order and correctly fitted
- Lubrication points have been lubricated as per scheduled maintenance period
- The tyres are free of damage and inflated to the correct pressure (0.35-0.55 Bar [5-8psi])
- Electrical connections are free of dirt and moisture

NOTE: This machine is designed to attach to the towing vehicle through a 50mm diameter ball hitch.

1. Reverse the towing vehicle up to the machine.
2. Attach the machine onto the towing vehicle's coupling. Raise jockey wheel and secure in the upper position. On some vehicles the jockey wheel can collide with the rear of the towing vehicle over rough terrain – if this is the case remove the jockey wheel from the clamp before using on such terrain.

Operating Limits

Minimum / Maximum Temperature	-40°C / +55°C
Maximum Load Capacity	850kg
Maximum Gross Trailer Weight	1150kg
Maximum Speed	30km/h (19mph)



DO NOT OPERATE BEYOND OPERATING LIMITS, DAMAGE TO MACHINERY OR INJURY TO OPERATOR MAY OCCUR.



AFTER APPROXIMATELY ONE HOUR OF WORK ALL NUTS, BOLTS, HYDRAULIC FITTINGS AND HOSES SHOULD BE CHECKED FOR TIGHTNESS AND LEAKS

Machine Operation

Loading

**CAUTION: THE HT100 IS DESIGNED TO TAKE A MAXIMUM LOAD OF 850KG
OVERLOADING WILL LEAD TO PREMATURE MACHINE FAILURE OR IN-OPERABLE USE**

1. Load in a safe manner and do not overfill trailer based on operating limits of towing vehicle and trailer.
2. Loads must be distributed evenly across the trailer.
3. Ensure load is suitable secured with restraint equipment (as applicable) and tailgate latch(s) are secured before moving off.

Unloading

1. Make sure the unloading area is safe and clear prior to unloading
2. Unloading the trailer evenly to prevent risk of damage to the trailer, towing vehicle or risk overturning.
3. Ensure tailgate latches are secured once unloading is finished.

Maintenance

All maintenance, cleaning and repair operations must be performed with the machine suitably supported and in a safe environment. If the body is raised then it is essential that it is suitably propped before working between the body and chassis.

Maintenance Schedule

Task	Daily	Monthly	Annually
Check tyres	■	■	■
Check wheel nuts	■	■	■
Check lighting function	■	■	■
Check Condition & Grease Axle Pivots		■	■
Check condition of wheel bearings			■
Wash chassis & flooring, repair chassis damage as necessary			■
Inspect wooden flooring for damage & repair as necessary			■

Storage

The HT100 should always be stored under cover to prolong the life of the trailer. It is advisable to wash the trailer before storage, allowing to dry naturally in the sun (if possible), prior to storing under cover.

If being stored outside for an extended period or if rain is expected, the trailer should be sited such that the water can drain freely out of the rear of the trailer. Storing the trailer with the hitch on the ground or facing downhill will allow water to pool in the body which will significantly reduce the life of the trailer and flooring.

Tyres

Tyres should be maintained at the pressure shown below:

WAT 22118 0.48 Bar [7psi]

When replacing tyres ensure the same size and load rating are used. Punctures should be inspected and repaired by a suitably qualified

distributor – not all punctures can be repaired and in some cases the tyre may need to be replaced.

Wheel Nuts

Wheel nuts (4 outer nuts retaining the wheel to the green adaptor plate) should be checked daily for tightness and if required torqued to **37Nm**.

Hub adaptor bolts (4 inner bolts retaining the green adaptor plate to the hub) should be checked for tightness and if required torqued to **65Nm**.

Lighting

Check lighting function daily before use. Problems with lights are generally caused by dirt or moisture ingress into the plug / socket, or damage to the cable between the trailer & towing vehicle. Inspect all daily for damage and repair as necessary.

Axle Condition & Grease Points

Axles should be checked for excessive play and wear as per the maintenance schedule. To check for play, lift the trailer using a jack or similar such that axles are off the ground. Ensure that the trailer is suitably supported using axle stands of equivalent and push one die of the axle beam towards or away from the body. If play is felt or observed, in the first instance tighten the retaining nut at the rear of the pivot point to take up any slack. If the tight is tight and the slack cannot be accommodated then replacement of the bushes may be necessary, please contact your distributor for this.

If axle condition is acceptable then grease the following points using lithium-based grease with NLGI 2 viscosity grease suitable for the expected temperature range as per the maintenance schedule:



Recommended Grease

The recommended grease to maintain the maximum operating temperature range of -40°C to 55°C is:
Castrol Optitemp LG2

Wheel Bearing Condition

Wheel bearings should be checked for excessive wear as per the maintenance schedule.

Raise each axle to be inspected off the ground such that it can rotate freely. Support with axle stands or similar such that inspection can safely be carried out. With the tyre on try to twist the tyre and feel for play or movement within the hub – there should be only a minor amount of play, enough that the wheel can rotate freely. Rotate the tyre and feel for bearing smoothness – the tyre should rotate easily and come to a natural stop. Any noise or uneven rotation would suggest bearing wear or damage.

If required replace the bearing unit within the hub.

Washing

Regular washing with water and mild detergent will prolong the life of the trailer and components. This is particularly important if the trailer is used on salt-treated roads, in coastal areas, is heavily soiled or is used to carry corrosive substances such as fertilisers or explosives. In these cases the trailer should be thoroughly washed down after use and allowed to dry naturally.

If heavy soiling is experienced, washing intervals should be reduced accordingly. Likewise if salts or aggressive chemicals are encountered, the washing interval should be reduced accordingly to a maximum interval of 3 months.

If using a pressure washer, care should be taken to avoid panel edges and electrical components at close range or for extended periods. Any damage that may result from the use of high pressure water should be immediately rectified to ensure continued serviceability.

Additives intended to brighten aluminium, generally containing phosphoric acid, should not be used as they will damage the zinc plated components. Traffic film remover should not be used.

Flooring

The phenolic resin wooden flooring panels used on the CT100 are designed to last for around 10 years with minimal maintenance

Generally, if the panels are undamaged and the trailer is regularly washed and stored under cover, the flooring does not require maintenance. If the floor is damaged or marked such that water can enter the plywood, over time this can cause delamination. In this instance the damage should be sealed with a waterproof flexible epoxy-based sealant (for shallow marks) or a waterproof isocyanate based silicone sealant (for deep gouges).

Always park the trailer outside with hitch uphill or raised such that water can drain freely – failure to do so may reduce the life of the flooring due to water ingress.

Trailer steelwork and chassis

The steelwork and chassis on the HT100 is manufactured from various grades of mild steel, which is fully shot blasted to SA2.5 surface roughness, prior to application of 2 coats of RAL6003 30% matt finish polyester powder applied paint to a mean DFT of 100 microns (Qualicoat approval number: P-1483 Matt).

In order to maintain the coating design life of 10 years it is imperative that;

- The machine is stored in the recommended manner
- The machine is washed as per the schedule (or more frequently if heavily soiled)
- Any the damage is inspected and repaired on at least an annual basis.

Any scratches or damage which breaks the protective paint barrier and exposes the underlying base material need to be repaired.

Repair Procedure

1. Thoroughly clean the affected area by washing with a mild detergent. Allow to dry fully.
2. If solvents are required to be used to remove marks, ensure only isopropyl alcohol is used. Solvents containing esters, ketones or chlorinated solvents will damage the paint.
3. If required abrading may be done using a 400 grit rubbing down paper over the affected area. If paint has been chipped edges need to be feathered to ensure consistent paint adhesion.
4. Remove any dust from rubbing down, applying a light single pack aerosol applied primer paint (cellulose based) if the affected area is more than 50mm across.
5. Once prepared and primed (if necessary), apply 3 lights coats of single pack aerosol applied paint (cellulose based) in colour RAL6003, allowing to dry naturally between coats. Isocyanate-based two pack polyurethane paint can be used although this is generally not practical unless for large areas – for most minor repairs single pack cellulose paint is preferable.

Warranty

The Chapman Warranty

Chapman Machinery Ltd (herein 'Chapman' or 'Chapman Machinery') warrants that the machine referred to in the Warranty Registration Form will be free from manufacturing defects for a period of 24 months from the date of sale. This warranty does not affect your statutory rights, but merely adds to them. Should you have a problem within 24 months from the date of sale please contact your original dealer, or Chapman Machinery's Service Department.

Any part found to be defective during this period will be replaced or repaired, at our discretion, by the dealer or a authorised Service Engineer.

Warranty Conditions

1. The Warranty Registration Form must be completed and returned to Chapman Machinery Ltd within 30 days of the date of sale
2. This warranty does not cover defects arising from fair wear and tear, wilful damage, negligence, misuse, abnormal working conditions, use in competition, failure to follow Chapman Machinery's instructions (oral or written, including all instructions and recommendation made in the Operator's Manual) or alteration or repair of the machinery without prior approval.
3. The machinery must have been serviced in accordance with the Operator's Manual and the Service Log must have been kept up to date and made available to the dealer should service, repair or warranty work be undertaken.
4. This warranty does not cover claims in respect of wearing parts such as blades, flails, paintwork, tyres, belts, hydraulic hoses, bearings, bushes, linkage pins, top links, ball ends unless there is a manufacturing or material defect or the cost of normal servicing items such as oils and lubricants.
5. This warranty does not cover any expenses or losses incurred whilst the machinery is out of use for warranty repairs or parts replacement.
6. This warranty does not extend to parts, materials or equipment not manufactured by Chapman Machinery, for which the Buyer shall only be entitled to the benefit of any such warranty or guarantee given by the manufacturer to Chapman Machinery. Only genuine replacement parts will be allowable for warranty claims.
7. All parts replaced by Chapman Machinery under warranty become the property of Chapman Machinery and must be returned to Chapman Machinery if so requested. Such parts may only be disposed of after a warranty claim has been accepted and processed by Chapman Machinery.
8. Chapman Machinery is not liable under this warranty for any repairs carried out without Chapman Machinery's written consent or without Chapman Machinery being afforded a reasonable opportunity to inspect the machinery the subject of the warranty claim. Chapman Machinery's written consent must, therefore, be obtained before any repairs are carried out or parts replaced. Use of non- Chapman Machinery parts automatically invalidates the Chapman Warranty. Failed components must not be dismantled except as specifically authorised by Chapman Machinery and dismantling of any components without authorisation from Chapman Machinery will invalidate this warranty.
9. All warranty claims must be submitted to Chapman Machinery on Chapman Machinery Warranty Claim Forms within 30 days of completion of warranty work.
Using the machine implies the knowledge and acceptance of these instructions and the limitations contained in this Manual.

Transfer of Warranty

The Chapman warranty be transferred to a subsequent owner of the machinery (for use within the UK only) for the balance of the warranty period subject to all of the stated warranty conditions and provided that the Change of Owner form is completed and sent to Chapman Machinery within 14 days of change of owner- ship.

Chapman Machinery Ltd retain the right to refuse transfer of warranty.

Chapman Machinery reserves the right to make alterations and improvements to any machinery without notification and without obligation to do so.



DECLARATION OF CONFORMITY

EU: Machinery Directive 2006/42/EC

UK: Supply of Machinery (Safety) Regulations 2008

Manufacturer: Chapman Machinery Ltd, Hele Barton, Week St Mary, Holsworthy, Devon, EX22 6XR, UK

Product(s) covered: HT100 Cargo Trailer

Serial Number: Stated on Accompanying Invoice

Standards and Regulations Used: Machinery Directive 2006/42/EC
Supply of Machinery (Safety) Regulations 2008

Place of Issue: United Kingdom

Name of Representative: James Chapman

Position of Representative: Director

Basis of Conformity Declaration: Self Declaration by Manufacturer

Declaration:

I declare that as the authorised representative, the above information in relation to the supply / manufacture of this product, is in conformity with the stated standards and other related documents following the provisions of Machinery Directive 2006/42/EC directives [EU] and Supply of Machinery (Safety) Regulations 2008 [UK]

The products described above comply with the essential requirements of the directives specified.

Signed:

A handwritten signature in black ink, appearing to read 'J.D. Chapman', with a long horizontal stroke extending to the right.

Date: 13/04/2023