



# Wrapped Bale Handler

No. 1487

Instruction Manual  
& Operating Guide



# EC Declaration of Conformity

in accordance with BS EN ISO/IEC 17050-1:2004



David Ritchie (Implements) Ltd.,  
Carseview Road, Forfar, Scotland DD8 3BT

declare that:

Equipment: ..... **Wrapped Bale Handler** .....

Model No: ..... **1487** .....

Serial No: .....

in accordance with the following directive:

**2006/42/EC** Conforms with the essential requirements of the Machinery Directive  
and its amending directives

has been designed and manufactured to the following specifications:

**BS EN ISO 12100 -1: 2003 Safety of Machinery** - Basic concepts, general principals for design - Basic terminology, methodology.

**BS EN ISO 12100 -2: 2003 Safety of Machinery** - Basic concepts, general principals for design - technical principals and specifications.

**BS EN 982: 1996**  
Safety of machinery. Safety requirements for fluid power systems and their components - Hydraulics

**BS EN ISO 4254-1:2009**  
Agricultural machinery - Safety - Part 1: General requirements

**BS EN ISO 13857:2008**  
Safety of machinery - Safety distances to prevent hazard zones being reached by upper and lower limbs.

**BS EN ISO 14121-1: 2007**  
Safety of machinery - Risk assessment - Part 1: Principles

Signed:- 

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Robert Ritchie Al agr E  
Agricultural Sales Director

at:- David Ritchie Implements Ltd. Forfar, UK  
on:- 23th July 2010

## Wrapped Bale Handler Specification

Overall Length .....	1600mm
Overall Width .....	1420mm
Overall Height .....	1300mm
Weight (less Quick Release brackets and Hoses) .....	181kgs
Maximum Lift Weight .....	750kgs
The continuous A-weighted sound pressure level does not exceed 70 dB(A)	

## Tractor Requirements

One Double Acting Spool Valve

Minimum Oil Flow .....

30 Litres/Minute
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Minimum Oil Pressure .....

165 Bar
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## Safety information

- Allow only experienced tractor drivers to operate this machine.
- The implement is only suitable for handling round and square bales of straw, hay or silage and other foreseeable applications such as animal carcasses.
- Only operate this machine from the tractor seat (work station).
- Lower the implement to the ground and switch off the tractor engine before approaching the working zone of the implement.
- Operate only when bystanders are at a safe distance.  
Under no circumstances should anybody work underneath or in the near vicinity of a suspended bale.
- Before attempting any maintenance, turn off the tractor engine and release any residual hydraulic pressure to the ram by operating the spool valve in both directions.
- When detached from the tractor the implement should be parked with the front lift arm open for greater stability.
- When quick release brackets are fitted to the backplate always use the tractor to lift the implement. If quick release brackets are not fitted the Bale Handler can be lifted safely by attaching a sling to the boom at the ram rear pivot position, (see page 4).  
Always lift slowly to check stability.



**BEWARE OF OVERHEAD POWER CABLES!**



## General Overview

The Ritchie **Wrapped Bale Handler** is designed to handle both square and round bales from both directions, (maximum lift weight 750kgs). The unique front lift arm pivot arrangement allows easy stacking of bales.

The Bale handler is powered by a double acting cylinder for positive control.

The Bale Handler comes complete with a suitable backplate for welding on the appropriate quick hitch brackets.

These brackets must be set a minimum 400 mm apart laterally about the centreline of the backplate and can be provided by your local Ritchie dealer.

Hoses are not supplied with the handler, but your local Ritchie dealer can fit the correct hose lengths to suit your tractor.

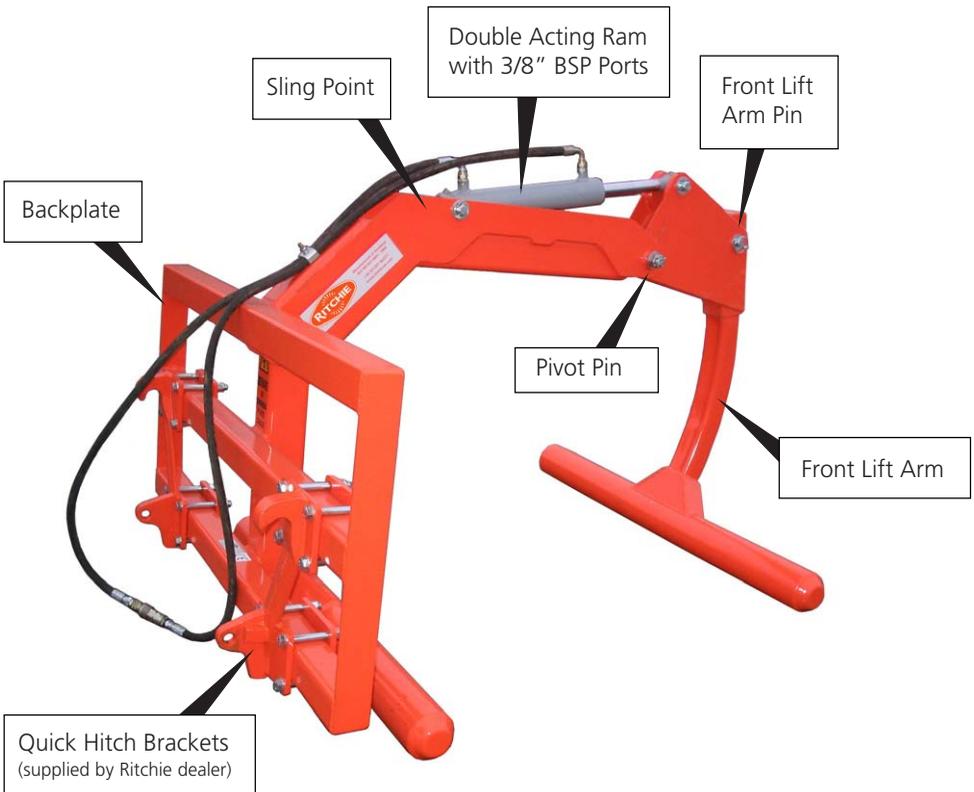


Fig 1



## Attaching to Tractor

Fit appropriate quick release brackets to the Bale Handler backplate to suit the requirements of the tractor loader or telescopic handler.

Fit the front arm pivot to the Bale Handler and secure using the Front Lift Arm Pin (Fig 1).

Fit 3/8" BSP (2 wire) hydraulic hoses to the ram and to a double acting valve on the tractor.

**Hose Rating - SAE 100 R2 AT • DIN EN 853 2SN**

Working Pressure - 330 bar (4800 psi). Min. Burst Pressure - 1320 bar (19150 psi)

## Important

Run the system to 'bleed off' any air and operate the Bale Handler to check the movement corresponds with the desired movement of the spool valve lever in the tractor cab. Rotate the supply hoses if required.

## Operation

Lift round bales either by ends or by sides to suit stacking method, Figures 3 & 4.



Fig 2





Round Bales - Lifted by side

Fig 3



Round Bales - Lifted by end

Fig 4

# Maintenance

**Important - Before commencement of maintenance work, lower the implement to the ground, switch of tractor engine and remove the ignition key.**

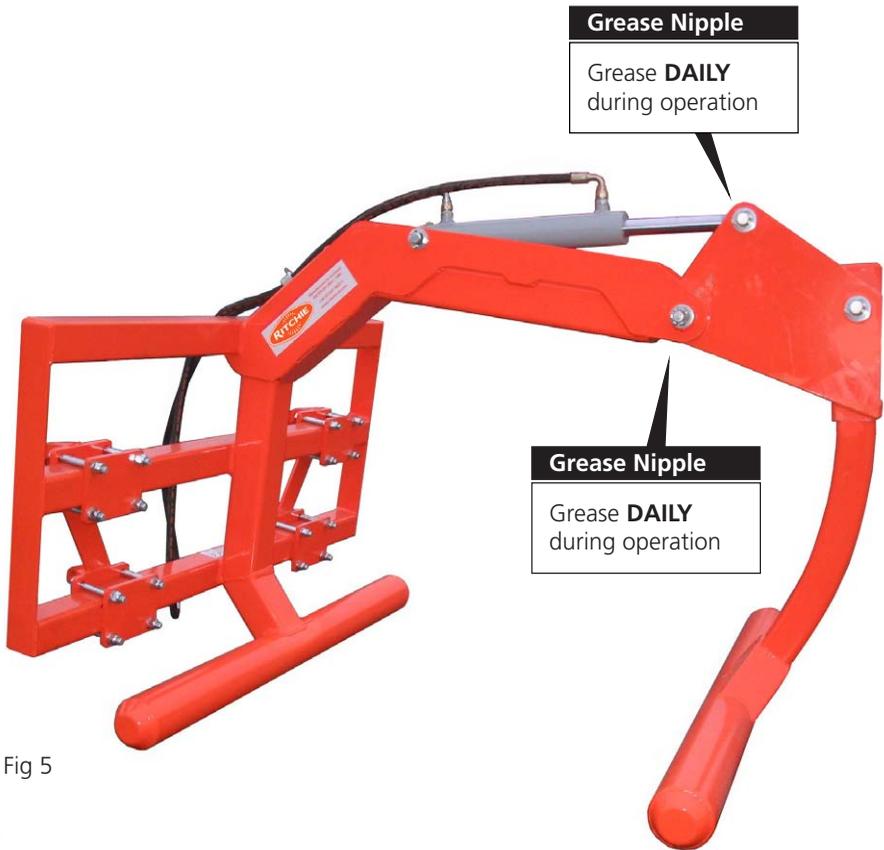


Fig 5

## Hoses

**Check Hose connections at ram and at spool valves for any sign of hydraulic oil leakage. Any minor leak may result in a bale slipping out of the machine's grip. Do not tighten a hydraulic fitting whilst the hydraulic system is pressurised.**

Check Hoses periodically for signs of wear or damage. Replace as necessary.  
When in storage - Lift hoses away from ground and cover ends to prevent dirt from penetrating the hydraulic system.

If draining hydraulic fluid from hoses - turn off the tractor engine and release any residual hydraulic pressure to the ram. Always use a container and dispose of safely, with due consideration to the environment.



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