



Bale Inverter

No. 1484

**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: **Bale Inverter**

Model No: **1484**

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:- 

Robert Ritchie Al agr E
Agricultural Sales Director

at:- David Ritchie Implements Ltd. Forfar, UK
on:- 20th December 2010

Bale Inverter Specification

Overall Length	1200mm
Overall Width	1400mm
Overall Height	660mm
Weight (less Quick Release brackets and Hoses)	175kgs
Maximum Bale 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

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 bales of straw, hay or silage.
- 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 bale arms 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 Inverter can be lifted safely by closing the bale arms, setting the implement on its back with the arms facing upward and attaching a sling through the arms. Always lift slowly to check stability.



BEWARE OF OVERHEAD POWER CABLES!



General Overview

The Ritchie **Bale Inverter** is designed to handle round silage bales up to 1.5m diameter, and 750kgs in weight.

The left or right arm can be locked for stacking in confined areas. The Inverter 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.

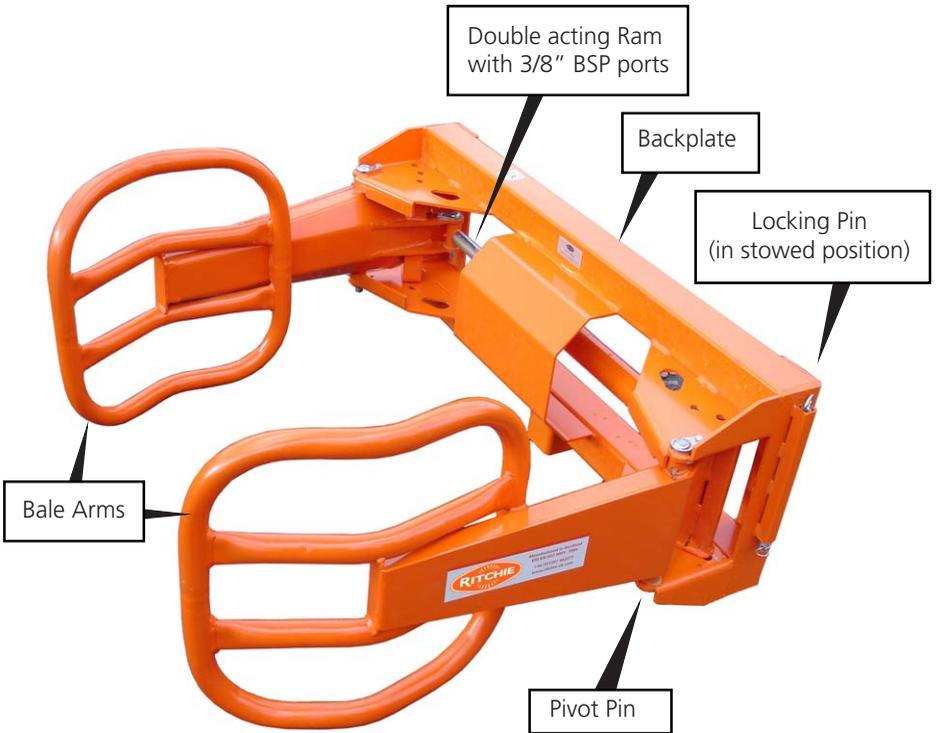


Fig 1



Attaching to Tractor

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

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

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 Inverter to check the movement corresponds with the desired movement of the spool valve lever in the tractor cab. Rotate the supply hoses if required.



Fig 2



Fig 3

Locking Left or Right Arm

Withdraw 'R' pin from end of Locking Pin as shown, Fig 4, allowing Locking Pin to be removed from stowed position.



Fig 4

Select one of the three hole positions available either on the right or left hand side of the Inverter depending on which side is to be locked.

Drop Locking pin into the hole, Fig 5, and secure with the 'R' Pin provided.

Check handling of the Bale Inverter, and select an alternative hole position if desired.



Fig 5

Maintenance

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

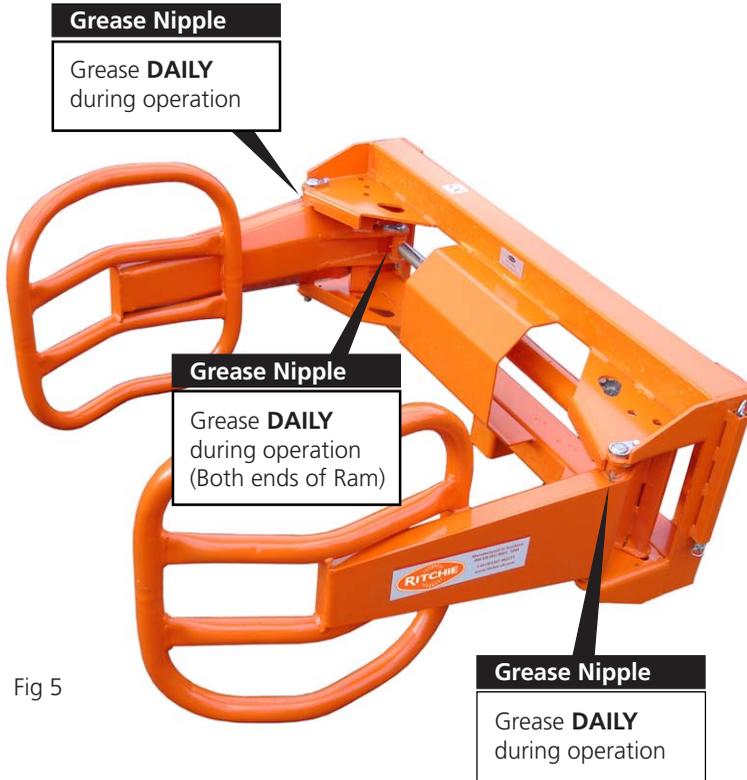


Fig 5

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.





the perfect partner

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