

OMEGA

Separator Units For Grading Lines

Standen Engineering Limited.
Hereward Works,
Station Road, Ely,
Cambridgeshire.
CB7 4BP
England.

Tel: 01353 661111 www.standen.co.uk Fax: 01353 662370

Declaration of Incorporation

According to the Machinery Directive 2006 / 42 / EC & The Supply of Machinery (Safety) Regulations 2008

Manufacturers: Standen Engineering Limited, Hereward Works, Station Road, ELY, Cambs. CB7 4BP England

Herewith declares that:

Unit	Omega
Туре	Separator
Serial No.	OM

- Is intended to be incorporated into machinery or to be assembled with other machinery to constitute machinery.
- Does therefore not in every respect comply with the provisions of this directive;
- and that the following harmonised standards have been applied: BS EN ISO 12100-1 and BS EN ISO 12100-2.

and furthermore declares that it is not allowed to put the machinery into service until the machinery into which it is to be incorporated or of which it is to be a component has been found and declared to be in conformity with the provisions of Directive 2006/42/EC and The Supply of Machinery (Safety) Regulations 2008 with national implementing legislation, i.e., as a whole, including the machinery referred to in this declaration.

Responsible person
undertaking the
incorporation
Name + Address

M R Gammon - Technical Manager For Standen Engineering Limited

<u>IMPORTANT</u>

This operator's handbook should be regarded as part of the machine. Suppliers of both new and second-hand machines are advised to retain documentary evidence that this handbook was supplied along with the machine.

On installation of the machine (i.e. starting off in the field), the New Machine Installation Record Card should be completed by the dealer/distributor and be countersigned by the customer. The document is proof that the correct procedures have been followed.

The New Machine Installation Record Card should be returned to Standen Engineering Limited within 7 days of installation. Failure to do so may invalidate the machine warranty.

On delivery, check that the machine is as ordered and has not been damaged in transit. Please report any shortfall to your Standen dealer.

The contents of this handbook, although correct at the time of publication, may be subject to alteration by the manufacturers without prior notice.

Standen Engineering Limited operate a policy of continual product development. Therefore, some illustrations and/or text within this publication may differ from your machine.

The copyright of this handbook is the property of Standen Engineering Limited, Hereward Works, Station Road, Ely, Cambridgeshire. CB7 4BP. This handbook is issued on the condition that it must not be used, copied or exhibited without their written permission.

Introduction to the Handbook

This handbook provides the information for the installation, operation and maintenance of your STANDEN OMEGA SEPARATOR. To enable you to achieve the best results from the machine, the manufacturer recommends that you read the handbook thoroughly prior to using the machine for the first time.

Record below the details of your machine.
Dealers Name
Address
Telephone Number
Machine Serial Number
Date Purchased
Date Started Work



This symbol indicates important safety messages within this handbook. When you see this symbol, be alert to the possibility of injury to yourself or others and/or damage to the machine and carefully read the message that follows.

Adjustments to the machine may have to be made singly or in combination according soil conditions. Always allow the machine to settle to a new setting before making further adjustments.

Recommended lubrication and maintenance instructions are included in this handbook and if followed will help to keep the machine in a safe working condition.

Warranty

Should the machine suffer any faults or defects within the warranty period, please contact your dealer. The warranty shall be effective only if the dealer is informed of any such defect as soon as practicable upon discovery.

Replacement Parts

Recommended replacement parts are designed for your machine and have the full backing of the warranty. Only when recommended parts are used can responsibility be considered under the terms of the warranty.

Section 2 of this handbook contains a list of spare parts available through your Standen Agents. Each illustration shows a complete unit or assembly in exploded form. Standen's policy of continual product development means that components or even complete assemblies are redesigned from time to time. Where possible the modifications are shown in the remarks column.

The first printing of each page in the spare parts section is identified as issue 1 at the foot of the page. When a complete unit or assembly has been redesigned the appropriate pages are revised and printed as issue 2. The revised pages are filed behind the existing issue so that a complete modification history is gradually built up. When using an illustration and parts list it is essential that both are of the same issue.

Always quote the full serial number of your machine when ordering spare parts.

Safety

The Standen Omega Separators have been designed to comply with current Safety Regulations. However, as with all machinery there will be inherent dangers whilst operating and carrying out maintenance on the machine. The following safety precautions should therefore be brought to the attention of all persons operating and working on the machine. The list is not exhaustive. All machinery is potentially dangerous and the operators must exercise great care at all times. Standen Engineering Limited will not accept liability for damage or injury caused by their products except when such liability is specifically imposed by English statute.



Safety guards must be fitted to prevent access to the Omega scrolls and clod rollers.



Avoid loose clothing near moving parts. Wear gloves when handling the implement or parts with sharp edges.



The machine must never be operated by untrained personnel or children.



Before working on the machine, all free moving parts should be locked to prevent them moving.



Never attempt to make adjustments while the machine is in motion.



Regularly lubricate the machine as per the operator's handbook and check the tightness of all nuts and bolts.



All guards, covers, warning transfers and safety devices must be correctly fitted and operable at all times.



Always use mechanical or additional help when lifting heavy parts.



Inspect the machine on a regular basis and replace damaged or worn parts as necessary.



Safety is the responsibility of the persons working with this machine. Think "safety" at all times. Read and remember the contents of this handbook.



Inspect the machine for damage after use. Rectify as required.



Never operate the machine in a state of disrepair.

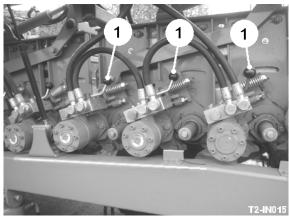


Never set machinery in motion before ensuring that everyone in the vicinity is aware of your intentions.

Omega Separator Installation and Operation

The basic Omega unit consists of a shaft fitted with polyurethane scrolls followed by a clod roller. The units are available with various numbers of scroll shafts and clod rollers, and in various widths.

Each scroll shaft and each clod roller is driven by a motor. The motors can be electric or hydraulic. Hydraulically driven clod rollers can be fitted with manual reversing valves (item 1, fig. 1) to allow the rotation of each clod roller to be set.



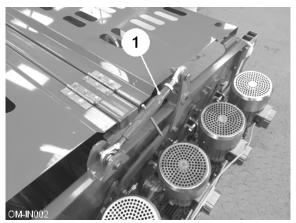


Fig 1 Fig 2

When installing the separator, the scroll shafts and the clod rollers should be made adjustable for speed. This will enable the operator to obtain maximum performance from the separator. Pivot points on the side plates allow the unit to have angle adjustment if required.



Safety guards must be fitted to prevent access to the scroll shafts and clod rollers.

The height of the scrolls tips can be specified as 10mm (standard) or 6mm for less aggressive action. The clod rollers can be rubber, mild steel, or stainless steel and are available in different diameters. Stainless steel is the least aggressive due to the smooth, shiny surface, while rubber will give more aggressive, general-purpose results. Also, fitting a smaller diameter clod roller allows larger more aggressive gaps to be set through the separator.

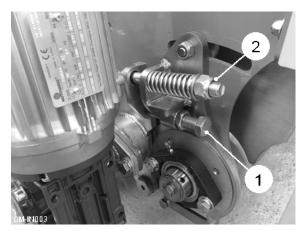
The relative height of the clod rollers to the scrolls is set by the top link (item 1, fig. 2). A hydraulic ram can be fitted in place of the top link.

Raising the height of the clod roller introduces a larger ripple into the crop flow creating more separation by allowing the crop to ride over the soil and top. To work in conjunction with this, the relative speed and rotation direction of the clod rollers can be set. When running the clod roller in reverse to the crop flow, the higher the speed, the more aggressive the separation will be. Reducing the speed lessens the pinching effect of the clod rollers. Running the clod roller 'with' the crop flow at a slow speed, will give some separation. Increasing the speed will transfer all the crop and soil.

For effective haulm removal, the clod rollers will normally be adjusted to run approximately 1 to 2 mm away from the tip of the scrolls. The clod roller gap is set by adjusting the stop bolts (item 1, fig. 3) against the spring tension on the clod roller mounting plates. Spring tension is set on the spring nuts (item 2, fig. 3).

Each clod roller is fitted with a scraper (item 1, fig. 4) which needs to be closely adjusted to remove loose soil from the roller.

NOTE: All adjustments must be made evenly on both sides of the unit.



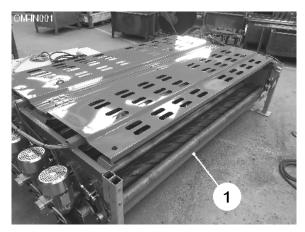


Fig 3 Fig 4

Lubrication

Regular lubrication will ensure that the Standen Omega separator will have a long and efficient service life. It is recommended that the separator be given a thorough inspection at least weekly during the working season.

Shafts and bearings fitted with grease nipples should be lubricated using a good quality general purpose grease. Bearings must not be allowed to run dry. When greasing it is better to give a little frequently than a lot a long intervals.

The bearings are sealed and pre-lubricated. Care should be taken not to flood these bearings with grease or the seals may burst allowing grease to escape and dirt to get in. Should this happen, more frequent greasing will be required in order to keep the dirt at bay.

Apply grease to all pivot points, slideways and exposed threads etc. to ensure they operate easily and remain free of corrosion.