Nº 004

ScanStone
POTATO SYSTEMS

WINDROWERS
PRODUCT BROCHURE

OSPREY 3
WINDROWER

ABOUT

The ScanStone Osprey 3 potato windrower is the lighter and smaller of the windrower range with 3 points of haulm extraction and cleaning. Each plain rubber roller is coupled together with a segmented spiral roller and the plain roller contra-rotates to allow effective haulm and clod extraction. Each plain rubber roller works on a direct hydraulic drive system so they are fully controllable with speed and direction and allows the operator to easily reverse them should a blockage occur. Each clod roller is independently mounted to the machine allowing the pitch to be adjusted easily from the tractor cab when more or less aggression is needed.
The Osprey 3 has the option of an extended dual direction cross conveyor allowing the operator to open out 4 beds at a time to the left or right of the machine. This gives maximum versatility when opening headlands as well because it means you can go up and down headlands rather than having to drive all the way round the field each time.

The cross conveyor comes with a lightweight vulcanised canvas belt which is very durable. The short cross conveyor option is also available which still allows dual side direction but only to the beds directly next to the machine.

For customer testimonials, see **page 93**

BASE PRICE

ADVANCED CONTROL SYSTEM

The advanced control system on the windrower is threefold. There is a completely programmable on board ECU, a completely armoured harness running the length of the machine into the tractor cab and an advanced control box for the operator to use in the tractor cab with a clear screen and three joysticks. The steering and levelling has proportional control and all the features of the machine can be easily adjusted and controlled with precision.

5.1 T

150-250 hp

2.8 m

1.8-2 m

STANDARD EQUIPMENT

DEPTH WHEELS
Positioned above the top of the row, the depth wheels are effective in heavy conditions where the soil does not need so much assistance into the front of the machine. Depth wheels have no compaction of the row at all, and are also used for controlling the depth of the share.

3 EXTRACTION POINTS
The Osprey 3 has 3 extraction rollers. The first two are behind the second web, extracting against segmented spiral rollers and the other is behind the third transfer web, again extracting against a segmented spiral roller. The extraction rollers are 65mm in diameter and are available in rubber or steel. Each extraction point has a direct hydraulic drive so the speed and the direction can be adjusted from the tractor cab with ease. The pitch of the first two extraction rollers can also be adjusted from the tractor cab and the third is manually adjusted.

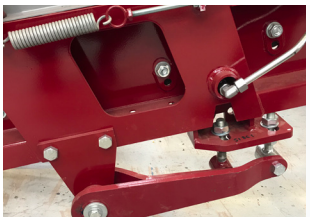
SECOND WEB
The second web is shorter than the main web on the ScanStone Osprey 3 and is 4 band. It is driven by rubber drive shoes, and is driven mechanically from the main drive of the machine with rubber drives. The pitches come in 28, 32, 36, 40, 43, 45 and 50mm depending on soil conditions.

TURRET AXLE SYSTEM
By having turret axles on either side of the machine the underside of the Osprey 3 is completely object-free so no haulm or earth can hang up on the machine causing blockages.

TRACTOR POWERED HYDRAULICS
The Osprey 3 hydraulics are directly powered from the tractor. On this machine, there is no need for on-board hydraulics or an on-board hydraulic pump.

DUAL DIRECTION CROSS CONVEYOR
The standard cross conveyor on the Osprey 3 is made of vulcanised lightweight PVC and can discharge to the left or the right with independent pivot ends on both sides. The web has active fingers to gently keep the crop within the web. The web is stepped so the potatoes are gently placed into the windrow.

STANDARD EQUIPMENT



ADJUSTABLE CENTRE SHARE
The centre share can be adjusted or completely removed depending on the variety of crop. The centre share can be pitched in to ensure that all potatoes are being harvested. This is done on the side of the machine with easy manual adjustment.

FRONT WEB ROCKER AGITATOR
Driven from the tractor hydraulics and adjusted from the tractor cab, the front web has a rocker agitator powered by a hydraulic motor. It gently throws the front web up and down to assist with soil separation.

HIGH FREQUENCY AGITATOR
This is a nest of rubber rollers which can be switched on or switched off to create a high frequency agitation.

2ND WEB KNOCK ROLLER AGITATOR
This is one triangular shaped rubber roller which can be manually switched on or off to assist with soil separation, out-with the tractor controls.

HYDRAULICALLY CONTROLLED TRANSFER WEB
The transfer web moves the crop from the cleaning onto the cross conveyor. This web is controlled hydraulically so the speed can be adjusted from the tractor cab depending on crop volume. This web has a standard pitch.

POSITIVE UNDER-WEB DRIVE
The main web drive is primarily drum drive with rubber drive shoes. The positive under-web drive is an additional steel sprocket drive which completely eliminates web slip, in wet weather conditions.

CARBON FIBRE BELT DRIVE
There are no chains on any ScanStone products including the Osprey 3. We have superseded chains throughout the whole machine with carbon fibre tooth belt drive. This means quiet running and maintenance free.

5.1 T | 150-250 hp | 2.8 m | 1.8-2 m

SERVICE PACKAGES

LANE ADJUSTER RAM
When working on side hills, or when fine adjustment is needed to the front of the machine, the lane adjuster ram is very effective and can be operated from the tractor cab, to make sure that all potatoes are being harvested and no potatoes are being left or cut.

INDEPENDENT FLOATING END
The back of the Osprey 3 will always remain level, whereas the front digger share will always float to maintain the contour of the ground. This means the left side or the right side of the share is always at the correct depth independently.

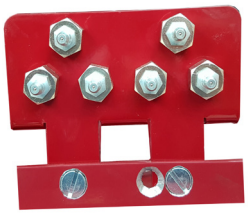
20" WHEELS
As standard and sufficient to allow a low angle of machine and a low drop into the windrow.

VARIABLE TRACK WIDTH
Several track width options available from 68"-80" to suit user requirements and crop varieties.

SPRING LOADED INTAKE DISCS
Spring loaded intake discs follow the grounds contour to ensure a consistent feed into the machine.

TRANSFER WEB CAMERA
The transfer web camera allows the operator to see exactly what the cleaning rollers are doing, so blockages can be either avoided or dealt with in good time.

OPTIONS



EASY GREASE SYSTEM
Grease banks are located throughout the machine to make maintenance user friendly. This makes the grease nipples accessible so bearings with grease points in awkward places can be greased easily.

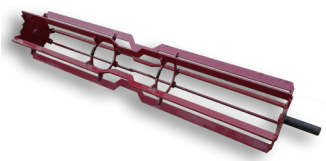
CROSS CONVEYOR CAMERA
The cross conveyor camera allows the operator to see exactly where the potatoes are being placed so they are going into the windrow and not spilling over the sides.

WORKING LIGHTS
These can be fitted on either side of the machine, mounted onto the turret axle, shining back into the cross conveyor discharge point. They are wired into the electrical harness of the machine.

pair

HARRIS EDITION CROSS CONVEYOR (EXTENSION)
This cross conveyor can discharge crop into the far left row, the near left row, the near right row and the far right row easily and effectively without the need for the operator to leave the seat. This elevator hydraulically folds up for transport.

24" WHEELS
24" wheels having a larger rolling diameter, keeping the windrower afloat in wet conditions. The 24" wheels however do increase the angle of the machine and do increase the height of the discharge elevator. With the Harris Edition cross conveyor, 24" wheels are recommended.



MAIN WEB CLEANER
A cage roller can be fitted in place of the main web tensioner rollers to maintain the web pitch in sticky and wet conditions.
Web pitches, as standard, 28, 32, 36, 40, 43, 45 and 50mm.

EXTRACTION ROLLERS
Extraction rollers come in 65mm and either rubber or steel.

Included

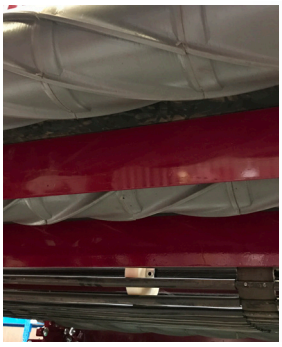
5.1 T

150-250 hp

2.8 m

1.8-2 m

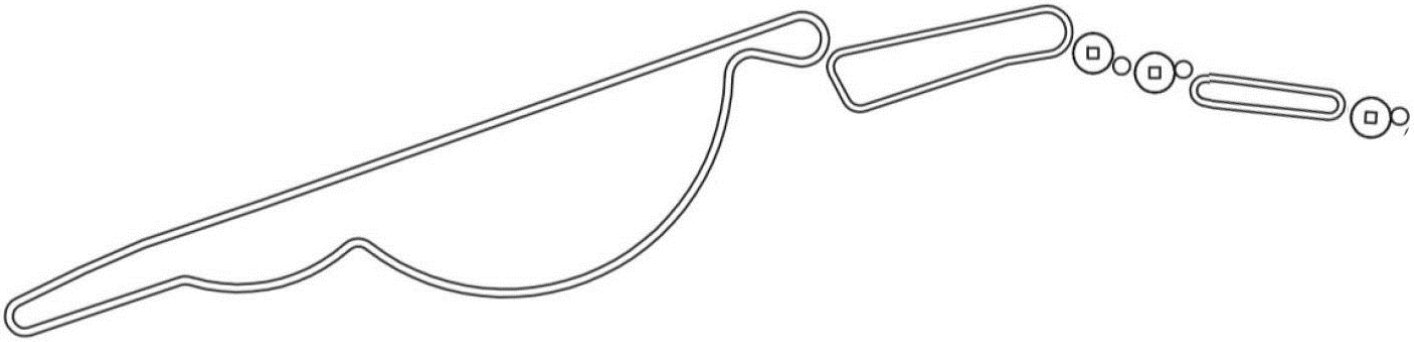
SERVICE PACKAGES



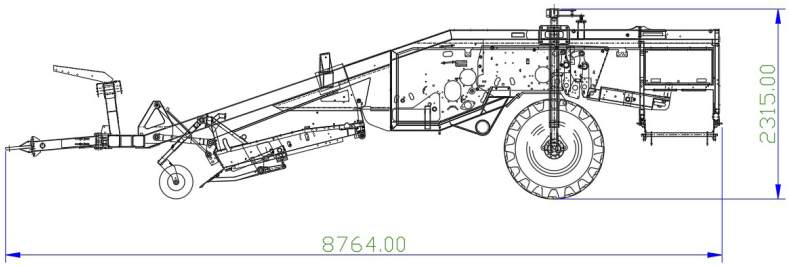
SEGMENTED SPIRAL ROLLERS

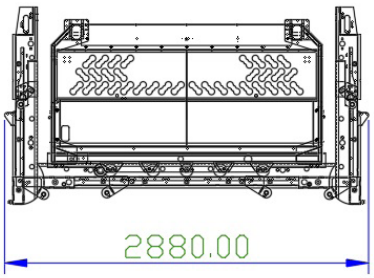
There are various different types of spiral rollers which can be fitted into the cleaning rollers on the Osprey 3. There are 6mm pitch spirals, 10mm and 20mm, depending on soil and crop conditions. Each spiral has individual air pockets between the ribs. This allows self cleaning and also flexibility for when large pieces of clod or haulm need to pass through. All the spiral rollers interlock into each other and there are 10 per shaft.

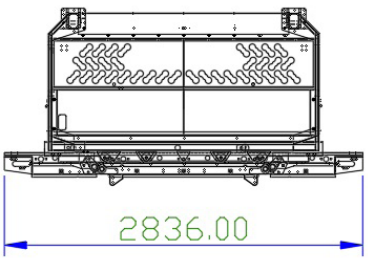
Included



DIMENSIONS







HARVESTING COSTS
DOWN PER ACRE

‘Harvesting 840 acres with a windrower and harvester reflects a similiar output but with less tractors, trailers and men; making trailers run more efficiently and never waiting in the field.

After damage tests, the Windrower displayed very gentle handling of crop. A fuller harverter protects the crop more in a dry season.

In previous years with 2 harvesters, trailers were waiting in the field which was less efficient.’

James Brunton,
Brunton Farms, Cuthlie

ScanStone
POTATO SYSTEMS

TESTIMONIALS
WHAT THE FARMERS SAY

HARVESTING
MORE
WITH
LESS

Robert Doig of Old Fargie Farm used the ScanStone windrower as an addition to his potato harvest in the 2017 lifting season. This resulted in 540 boxes of seed potatoes a day with a windrower and self-propelled harvester.

'We have not paid any price in damage and the machine has been a huge help to harvest, reducing the overall lifting time by 10 days. Running the potatoes over the Windrower incurred no extra damage.
With having some steep fields, there was a lot of one way digging up the hill; the windrower was good for this, and with the machine being nimble, there was a massive productivity gain on points / headlands.

Managing to harvest over 20 acres a day, I can't see our operation going back to not windrowing.
With additional harvesters comes additional trailer and tractor costs.
With the concept of windrowing, this cost cut tractor hire by £50 per day and meant there was 2 less waiting trailers this year, harvesting more with less.
The reason we chose the ScanStone machine was because it has the right amount of cleaning and gets rid of the haulm. Also double discharge and being drawbar mounted helps keep the share in the ground over undulating ground.'

Robert Doig mentioned the service being "exemplary" and the concept of windrowing "transformed how we work"

'A windrower and self-propelled harvester is an easy match for 2 trailed harvesters'

Robert JS Doig Ltd
Old Fargie, Perthshire

SAFETY
IN VOLUME

Alan Twatt Potatoes in Fraserborough harvested on average 280 boxes per day with a best day of 346 with a ScanStone Windrower and Grimme GTS.

This was a 60% - 70% increase in harvesting capacity with a windrower. With the dry conditions of 2017 there was no damage to the potatoes, satisfying our Egyptian market. We would have to double the trailer fleet and picking squads if we had another harvester. We found with a full harvester, the overall damage results were reduced considerably; safety in volume.'

Graham Twatt
Alan Twatt Potatoes Ltd, Aberdeenshire

INCREASED OUR COST EFFICIENCY
BY UP TO 70%

'We farm 550 acres of seed in some areas of Kincardineshire, some of the most testing land; The ScanStone Windrower has been a great addition to our harvesting operation. In the right conditions, the machine will increase our harvest cost efficiency by up to 70%. Boosting intake to as much as 50 tonnes an hour, we run the ScanStone windrower alongside a Grimme GT170 with a full 4 person picking squad seeing minimal reduction in pace from the harvester, being sure to keep the box content above 90% potatoes.
Great care must be taken to keep the windrower close to the harvester in order to keep the exposed potatoes moist, thus reducing damage.
In testing conditions, or land with a one way lift, the manoeuvrable ScanStone allows us to cut the travelling of the harvester and trailers by half which I find ultimately most time consuming.
In these testing times I believe we need to take every opportunity to improve efficiency in which I would vouch for the ScanStone Windrower.'

John Fotheringham
John I Forbes & Partner, Slains Park

GALLERY 25
WINDROWERS

OSPREY 5
WINDROWER

GALLERY 26
WINDROWERS

OSPREY 3
WINDROWER

OSPREY 5
WINDROWER

GALLERY 27
WINDROWERS

2012
WINDROWER

OSPREY 3
WINDROWER

GALLERY 28
WINDROWERS

OSPREY 5
WINDROWER

GALLERY 29
WINDROWERS

OSPREY 3
WINDROWER

GALLERY 30
WINDROWERS

OSPREY 5
WINDROWER

GALLERY 31
WINDROWERS

2012
WINDROWER

OSPREY 3
WINDROWER

GALLERY 32
WINDROWERS

2 ROLLER
WINDROWER