



# AS3000 SERIES

## WIDE WIDTH CONVEYOR SPREADERS



PROUDLY DISTRIBUTED BY

# WARINGA

The Waringa logo graphic consists of three stylized leaves in green, yellow, and blue, arranged in a fan shape to the right of the word "WARINGA".



## SPREAD ACCURACY ACROSS WIDER WORKING WIDTHS

Performance, capacity and accuracy are all combined in the AS3000 Series twin hydraulic folding conveyor feed spreader that can achieve increased spread widths of up to 48 meters for urea, over 52 meters for mineral granular fertilisers and up to 30 meters for dry flowable lime/gypsum, organic, other soil conditioners and bulk products.

The 3000 series spreader offers precision infield spreading to the larger farming and contracting enterprises while especially suitable for Controlled Traffic Farming (CTF), multi products and meet the demand of increasing tramline working widths across the industry worldwide.

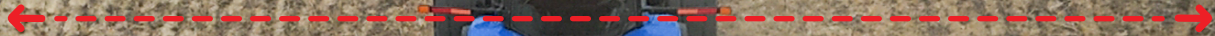
The outer disc & conveyor designs each 3 mtrs from centre is engineered for high ground clearance; the disc height at 850mm is kept high for crop clearance, rough terrain/conditions and achieving maximum spread width for a given product type. With an upper mounted spinner disc hydraulic motor system, the design allows for ample ground clearance avoiding unnecessary crop damage.

**AgriSpread**

**SMARTER DESIGN OUTCOMES  
WIDER SPREADING BOUT WIDTHS  
HIGHER SPREAD RATES  
FASTER WORKING SPEEDS**



**SPREAD WIDTHS UP TO**



**48** METERS  
UREA

**52** METERS  
MINERAL & SYNTHETIC  
FERTILISERS

**30** METERS

LIME/ GYPSUM/BULK/ORGANIC  
SOIL CONDITIONERS & DRY  
FLOWABLE PRODUCTS

**SPEED**



**2300 kg/min**  
LIME/BULK PRODUCTS - MAX

**30kph**  
MAX WORKING SPEED

**360 kg/min**  
FERTILISER - MAX



**CAPACITY**

**9.7m<sup>3</sup> to 16.8m<sup>3</sup>**  
HOPPER LEVEL CAPACITY

**11.9m<sup>3</sup> to 21m<sup>3</sup>**  
HEAPED CAPACITY

**TRAILED X 3 MODELS RANGE - HOPPER 60% STAINLESS STEEL AS STANDARD**

AgriSpread twin hydraulic folding conveyor spreading disc system is designed to spread granular fertilisers & dry flowable materials such as lime, gypsum, organic, soil conditioners and bulk products to wider spread working widths



## HYDRAULIC FOLDING TWIN CONVEYOR DISC SYSTEM

The AS3000 series encompasses a new rear hydraulic folding twin conveyor that carries the product to the outer large hydraulically driven spinner disks at a width of 6.1m from disk to disk left and right of the hopper via smooth belt feed conveyors.

This design now allows for precision manual or electric drop-point control for both granular and bulk products to achieve even wider spread working widths regardless of material type, shape and bulk density.

The AS3000 Series features a sprung drawbar on the AS3220T, & AS3150T & dampened drawbar on the AS3120.



## SCS SECTION CONTROL

As standard on the 3000 Series, AgriSpread offer the SCS feature (Section control - single belt). Both spinner motors have independently controlled left & right-hand spinner disks to reduce the working width on wedge shaped fields or narrow field sections or coming in and out of headlands/boundaries.

As the working width is reduced by auto-reduction in spinner speed via guidance mapping, the conveyor reduces in proportion so that the overall application rate across the width at any given point remains constant.

Headland border control is standard, available on both the right or left hand sides of the spreader.



## SOFTWARE FEATURES

- + The ISOBUS compatible software controls both application rate and spinner & conveyor speeds.
- + Set a lower spinner speed left and right for headland border management.
- + Save multiple product settings including drop-point, vane position and spinner speed.
- + Prime the rear belt feed conveyors from the software on initial start-up.
- + Clear/clean out function, which clears the cross conveyors at the end of a run or while sitting stationary through the software. This is particularly important for keeping the rear cross conveyors clear of product when folding and unfolding. This process keeps the belt and side skirts clear and prevents premature wear.
- + On screen warning to operators once the max kg/min application rate has been reached.
- + Main screen display of all conveyor RPM's and spinner speed RPM's to make sure operator has constant visual of critical information.



## ISBOUS SOFTWARE AND HARDWARE SYSTEM

The fully integrated ISOBUS compatible software and hardware control system which as standard, uses precision load cells to automatically adjust the application rate based on forward speed and field conditions, ensuring consistent output per hectare with all product types.



## HYDRAULICS/PTO

AgriSpread now offers as standard on the 3000 series, a high-powered PTO hydrostatic tandem hydraulic piston pump system to achieve the required oil flow per/min required to meet the application rates at these wider spread widths. The hydrostatic PTO driven system with oil cooler controls the disc spinners – left & right.

This system works in conjunction with the tractors' hydraulics (in load sense or fixed pump) to control the following functions:

- + Main floor belt & rear twin conveyor belts
- + Hydraulic folding of twin conveyors – transport and work

This combination of hydraulic controls achieves a reliable, highly efficient spreading applicator given the high demands for oil flow and pressure for the working widths, application rates and spinner RPM's.



## SAFETY FEATURES

As with any large capacity machinery, safety is particularly important. AgriSpread has designed the following safety features:

- + Safely fold and unfold the rear cross conveyors from the Isobus software
- + During transport, a safety sensor provides a clear acknowledgement to the ISOBUS display that the folding conveyors are locked in position and safe for road transport.
- + The operator will not be able to turn on the spinner disks unless they are folded into the outright working position.

# KEY PRODUCT DESIGN FEATURES



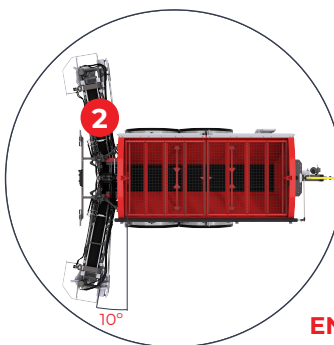
## 1 INNOVATIVE FOLDING SKIRT SEAL SYSTEM

AgriSpread's hinging side skirt seal is engineered to adapt seamlessly between transport and operation. During transport, the skirt folds neatly out of the way as the conveyor wings raise. Once lowered into the working position, it automatically re-engages to form a tight continuous seal along the belt edge - minimising material spillage and ensuring consistent containment of material.



## 7 DISC GROUND CLEARANCE HEIGHT

850mm



## 2 ANGLED CONVEYOR DESIGN FOR ENHANCED CLEARANCE

The double conveyor arms are intentionally angled back at 10 degrees to create additional clearance between the main hopper and the unfolded conveyors. This design reduces the risk of accidental contact from loading equipment, protecting the conveyors and spreading components from potential damage during loading. The result is easier loading with less risk of costly repairs. The swept back design angle also allows for improved disc and product spreading performance.

## 3 PRECISION BELT TRACKING FOR RELIABLE PERFORMANCE

The conveyor system features specialised tracking rollers engineered to keep the belt running true and aligned during operation. This ensures smooth material flow, reduces wear, and minimises maintenance.

The conveyors open uncluttered design has been considered for ease of maintenance & access during service intervals, to maintain and replace parts, belts and side skirts.

## 4 OUTWARD-SPINNING DISCS FOR CONTROLLED SPREADING

The spreading discs rotate away from the centre of the machine, minimising material impact on the machine deflectors and reducing wear on critical components. This design also makes it easier to control the spread width, obtaining more width and achieving a more uniform spread pattern.

## 5 ELECTRONIC DOOR ACTUATION

ISOBUS control via an electric actuator on the main rear door for controlling application rate. Automatically updates the ISOBUS rate control system on the move when required.

## 6 FOLD OUT WIND DEFLECTOR ARMS

# TECHNICAL SPECIFICATIONS



## AS3000 SERIES

MODELS	AS3120 SCS	AS3150T SCS	AS3220T SCS
Hopper Length (mm)	4,228	4,640	5,640
Hopper Width (mm)	2,245	2,628	2,616
Loading Height (mm)	2,790	3,050	3,135
Capacity Level (m3)	9.7	13.6	16.8
Capacity Heaped @30 Degrees (m3)	11.9	17.0	21.0
Fert Capacity <sup>1</sup> Heaped @10 Degrees (mT)	10.4	14.6	18.3
Lime Capacity <sup>1</sup> Heaped @30 Degrees (mT)	14.5	19.5	25.0
Unladen Weight (kg) 2m Track Width	6,475	8,225	n/a
Unladen Weight (kg) 3m Track Width	6,802	8,784	9,750
Carrying Capacity (kg)	14,500	18,750	25,000
Tyres (Standard)	750/60R30.5	710/50R26.5	750/65R26
Axle Qty & Section (mm). 10 Stud Axle/Rims	1 x 150 Sq	2 x 127 Rd	2 x 150 Sq
Axle Track Width Centres (meters)	2 or 3	2 or 3	2 or 3
Drawbar Suspension	Dampened	Sprung	
Electric Rear Door Automatic Control ISOBUS	Standard		
Hopper Grid Profiles Stainless Steel	Optional		
Rate Controller Type	ISOBUS		
Variable Rate Ready	Standard		
Hydraulic Brakes	Standard		
Air/Hyd or Air Only Brakes	Optional		
Transport Lights	Standard		
Hold Back Roll Over, Electric or Hydraulic Covers	Optional		
Bulk Product Feed Chains	Optional		
Headland Border Control - Left or Right	Standard		
Stainless Steel Hopper	Optional		
Steering Axle Options	N/A	Rear Steering Axle	
SCS Section Control. Sections x 10 Single Belt	Standard		
SC Section Control. Sections x 16 Twin Belt - Flowable Dry Granular Products	Optional		
ISOBUS Load Cells	Standard		
Bulk Product Discs - Diameter (mm)	1,015		
Bulk Product Adjustable Vanes Flights	4		
Fertiliser Discs - Diameter	TBC		
Rear Side Conveyor belts width (mm)	400		

Note 1: Capacity varies according to the density of material being spread. Densities of 1400 kg/m<sup>3</sup> and 1000kg/m<sup>3</sup> have been assumed for lime and fertiliser respectively.

Note 2: Loading heights & widths vary depending on the wheel specification.

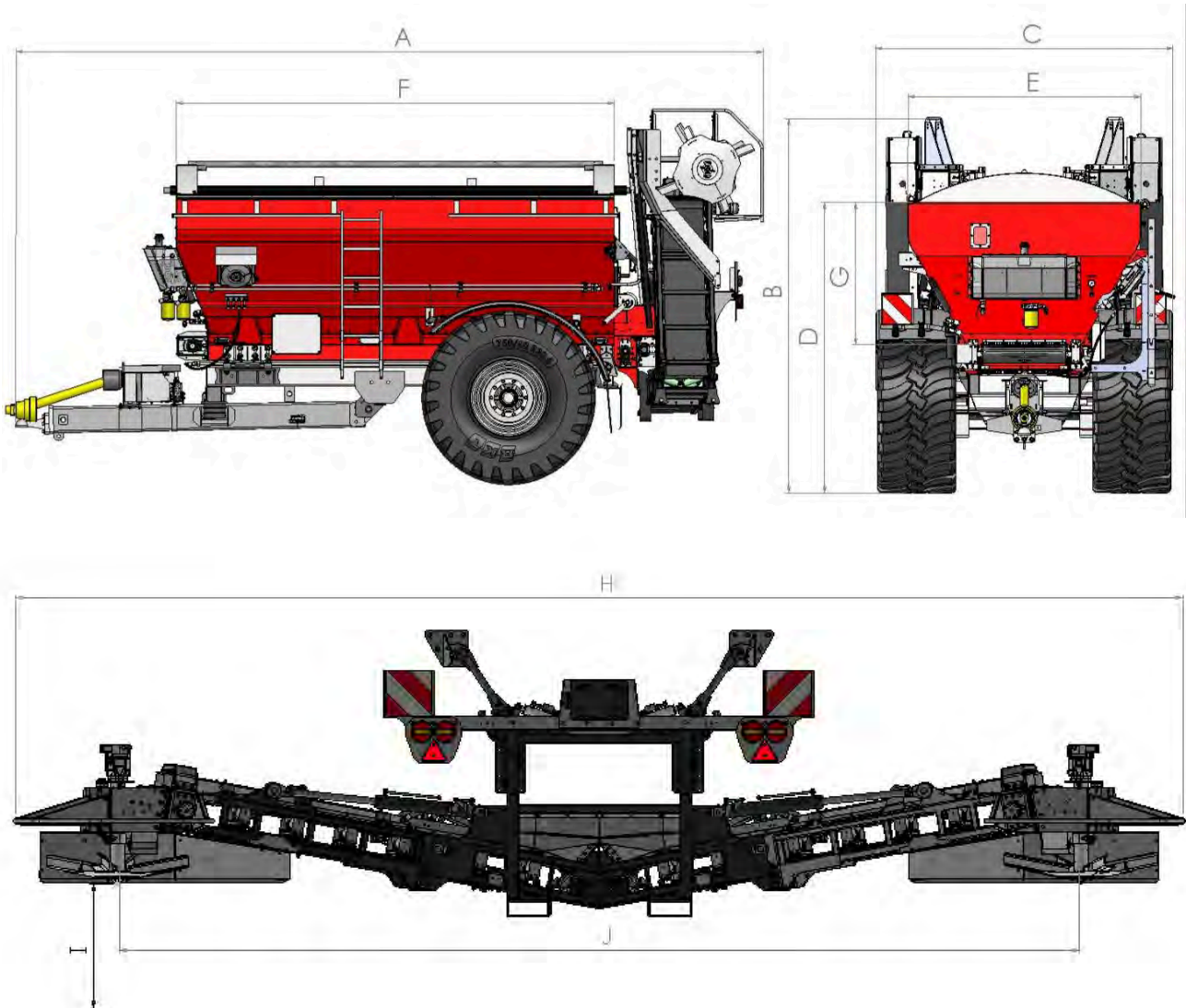
\*\*\* Agri-Spread reserves the right to modify or change designs, features, functionality, options & other product specifications without notice or obligation.

\*\*\* Agri-Spread International makes no warranty, representation or guarantee regarding the suitability of its machine products to discharge and spread all possible fertilisers, manures, lime types, gypsum types, bio-sul types and other bulk product materials especially due to complex factors such as storage, moisture, temperature, humidity, bulk density, particle size, particle shape, friction, cumulative strength, interlocking, cohesion, ratholing and bridging etc.

\*\*\* Spread calibration tray testing and adjusting to get acceptable pattern CV's for infield conditions & product quality is required.

## DIMENSIONS

MODELS	AS3120	AS3150T	AS3220T
(A) Overall Length (mm)	7,220	7,628	8,643
(B) Overall Height (mm)	3,616	3,694	3,694
(C) Overall Width (mm) 2mtr Track	2,830	2,620	N/A
(C) Overall Width (mm) 3mtr Track CTF	3,830	3,586	3,650
(D) Loading Height with load cells (mm)	2,790	3,050	3,135
(E) Hopper Width (mm)	2,245	2,628	2,616
(F) Hopper Length (mm)	4,228	4,640	5,640
(G) Hopper Height (mm)	1,368	1,630	1,630



### TWIN HYDRAULIC FOLDING CONVEYOR

(H) Working position (mm)	7,300
(I) Disc ground clearance height (mm)	850
(J) Disc centre to centre (mm)	6,100



- + Steering Axles
  - + AS3150T & AS3220T Tandem - Rear self-steering axle
- + Range of wheel sizes/specs available
  - + Wheel options available (subject to limitations)
- + Hold back roll over cover
- + Hydraulic cover
- + Electric cover
- + Air brakes
- + Rear Work lights x 2
- + Rear Flashing Beacons x 2
- + Mudguards
- + Access platform
- + Toolbox
- + Fertiliser Discs & Hoppers Kits:
  - + 18-27 meters
  - + 28-36 meters
  - + 36-52 meters
- + Lime & Bulk product discs
- + Stainless Steel profile hopper grids
- + Bulk product feed chains
- + Spoon hitch
- + Hydraulic drawbar jack
- + Chassis mounted units

## Waringa Distribution

36A Tomah Road,  
WELSHPOOL  
WA 6106

Tel: 08 6154 5999  
www.waringa.com.au  
info@waringa.com.au



PROUDLY DISTRIBUTED BY

**WARINGA** 