



AGRICO
More than 100 years of service

G3 CENTRE PIVOT

The Agrico **third generation** centre pivot is an efficient irrigation machine known for its reliability and versatility.

Agrico is synonymous with centre pivots.

For more than 100 years, Agrico has been faithfully serving growers all over the continent by providing them with the best technical solutions, irrigation systems and components, as well as ongoing support.

As the leading manufacturer of centre pivots in South Africa, we continuously invest in the research and development required to bring you the most advanced technology in irrigation. Our centre pivot irrigation systems have been continuously improved since the first machine was built in 1988.



Agrico centre pivots are manufactured using the most durable materials. They offer efficient irrigation, uniform wetting, have low labour and maintenance requirements, and give years of service at a low initial cost.

Agrico centre pivots are available with **Agrico Web Control**, a remote irrigation management solution to help you manage your irrigation with less effort and more accuracy.



Designed and manufactured locally for growers across Africa, Agrico centre pivots offer:

- » Extensive coverage: from 0.6 ha to 200 ha
- » Fixed and towable machines
- » Extra-thick galvanising for protection from corrosion
- » A rust-free control system containing only the highest quality branded switchgear
- » Remote control and monitoring via Agrico Web Control
- » A wind-resistant and stable irrigation structure
- » AutoFlush valve to reduce clogging of nozzles
- » Theft-resistance options: Motor saver, Cable saver, Wheel saver

The efficient use of water and energy lies at our core.

We provide elegant irrigation solutions, using only the best components and technology, to fit your specific needs and ensure optimal use of available water and energy resources.



AGRICO

The most widespread support in southern Africa.

We back up our products with an unmatched service network. More than 35 branches all over southern Africa provide customers with the best irrigation products, advice and service. Wherever you are, whatever you need, Agrico irrigation specialists are never too far away.



TURKEY SERVICE



Consultation and advice from irrigation specialists

Our experienced sales teams, engineers, and technicians know your local conditions and are focused on providing you with the optimal irrigation strategy.



Extensive planning and design capabilities

We bring our ideas to life with high-end software and detailed drawings to ensure good communication, accurate bills of materials, and smooth installation and operation.



Delivery and installation

Our skilled teams hold the knowledge and experience to deliver fully functioning systems on time and according to your requirements, across Africa.



Extensive after-sales service and support

We take pride in a thorough after-sales service. Agrico centre pivots are widely supported in southern Africa with local factories, an extensive branch network and experienced teams.



Stock and supplies all over the country

Agrico keeps stock of more than 10 000 different irrigation components. Our branches are geared to serve small and large scale producers with complete product ranges and irrigation equipment.



Backed up with the best support. But it does not end there. With the largest irrigation network in southern Africa, we provide dedicated after-sales service to support your machine throughout its years of faithful service. At Agrico, we understand the extent of the investment you are making.

**Our pivots won't leave you high and dry,
and neither will we.**

INTRODUCING THE AGRICO G3

Our third generation centre pivot is the result of decades of accumulated knowledge and experience. We have incorporated every lesson learnt over the years to build a highly reliable, sturdy and minimum-maintenance irrigation machine for African conditions.

HIGHLIGHTS



The Agrico three-legged structure is the strongest on the market.



An ultra-strong machine structure for durability and a long lifespan.



Thick galvanising of 100-micron protects the Agrico G3 centre pivot from corrosion.

Stable centre structure

The Agrico three-legged structure is the strongest on the market, while our robust compact centre saves costs and enables easy towing. Available in fixed and towable versions, our centre structures feature long lived seals and stainless steel electrical cable conduits, avoiding the problems associated with external collector rings.

Ultra-strong machine structure

No commercial quality steel is used in Agrico centre pivots. Pipes, flanges and angles are of 355 WA steel with a yield strength of at least 355 MPa and an ultimate tensile strength of at least 450 MPa to guarantee extra sturdiness. Other structural features include an ultra-strong rod-pocket, 16 mm flange bolts, truss rods manufactured using EN8 steel, 10 mm thick flanges and one-piece factory-welded leg assemblies, which are reinforced in high-stress areas.



Extra-thick galvanising for protection from corrosion

All piping is galvanised in-house and guaranteed to have at least a 100-micron zinc layer, as opposed to the ISO1461 industry standard of 70 micron. The pipes of an Agrico pivot will last 80% longer than piping galvanised according to industry standards.

HIGHLIGHTS

Optimised span design

The high bow of the Agrico centre pivot allows for spans lengths of up to 67 m. All our machines have dedicated tower- and pivot-end pipes at the beginning and end of each span, reinforced at critical points to eliminate the buckling often seen in other pivots. We use custom software to determine the optimal pipe size from our full range of pipe diameters (127 mm, 165 mm and 194 mm), taking into account pivot flow, price of electricity, interest rate and payback period.

Rust-free control system

We use only high-quality, branded electrical switchgear. Rust-free stainless steel main panel enclosure plus rust-free towerboxes made from nylon and polypropylene with solid stainless steel control rods ensure ultimate durability. Agrico pivots will not collapse as a result of rusted control rods, or broken age-embrittled plastic cam arms.

Compatible with LEPA to get the most out of every drop of water

The Agrico G3 centre pivot is compatible with LEPA (Low Energy Precise Application). LEPA sprinklers operate at low pressure to save energy during irrigation. LEPA places sprinklers on a centre pivot much closer to the ground, and reduces the spacing between them to maintain irrigation uniformity. As with drip- and micro-irrigation, the water is placed directly at the root zone, greatly reducing evaporation due to strong winds and high temperatures.



An optimised span design allows for long spans with out buckling.



Rust-free pivot components ensure ultimate durability.

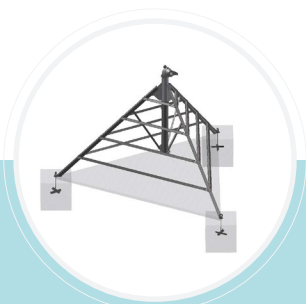


Compatible with LEPA sprinklers to save energe.



CENTRE

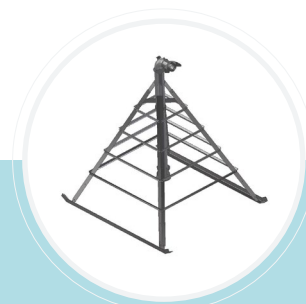
- » The G3 pivot boasts a selection of centre structures.
- » Three types are available:
 - A three-leg centre, which is the strongest on the market
 - Compact centre, which reduces costs and allows easy towing
 - Four-leg centre to fit other competitors footprints
- » All three types of centres are available in towable and non-towable options.
- » An integrated slip ring with dual brushes and stainless steel conduit ensures reliable power connection between centre and spans
- » Optional integrated hydraulic control valve on compact centre.



The Agrico three-legged centre is the strongest in the market.



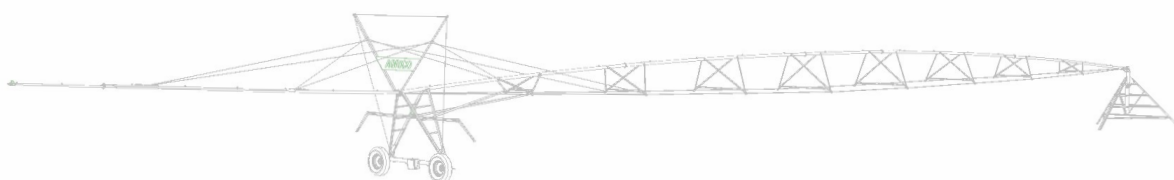
An compact centre structure reduces costs and allows easy towing.



Four-legged centre to fit other competitors footprints.

SPAN

- » Spans cover up to 3.0 Ha with a single span machine, 8.6 Ha with two spans and 17.0 Ha with three spans.
- » A large bow height in the middle of the span and low centre of gravity gives you optimal rigidity and stability.
- » A standard 3.35 m outlet spacing allows excellent wetting uniformity, optional 2.25 m spacing also available.



PIPELINE

- » Dedicated tower- and pivot-end pipes at the beginning and end of each span, reinforced at critical points to eliminate the buckling often seen in other pivots.
- » 10 mm flanges and 50 x 50 x 4 mm angle iron trusses ensure optimal strength.
- » Spans are available with pipe diameters of 127, 165 and 194 mm.



G4 PIPE DIAMETER (mm)			
	127	165	194
Span length (m)	40.3 , 47.0, 53.7, 60.5, 67.0*	40.3 , 47.0, 53.7, 60.5	40.3 , 47.0, 53.7
Rod (mm)	16, 20	16, 20	20
Truss bolts	M16	M16	M16

*Only available on last span

TOWER

- » Standard tower height of 3.85 m gives a crop clearance of 3.2 m.
- » Standard wheelbase of 4 m, optional windsaver wheelbase of 5.52 m on standard clearance machine making the structure more resistant against harsh wind conditions.
- » Towers fitted with adjustable tow-in to ensure minimal strain for extra longevity of structure.
- » Towers available in towable and non-towable options.
- » Options between standard- (3.15 m crop clearance), and high clearance (4.15 m crop clearance) available.
- » Rubber hose joint combined with octagon ring provide flexibility between spans.



OVERHANG

- » Overhang lengths from 6.7 m up to 30.1 m available in increments of 3.35 m.
- » Our patented Autoflush valve fitted on each overhang decreases the problem of clogged nozzles on the overhang by flushing the machine on every startup.



TYRE OPTIONS AND WHEELSAVER

- » Full range of tyre size options available (13.6-24, 14.9-24 and 11.2-38).
- » Protect your wheels with Wheelsaver, a system of tamper-resistant nuts, which cannot be loosened using an open spanner, socket, shifting spanner or monkey wrench.



Control panel options for the Agrico G3 centre pivot range from an electro-mechanical Basic RAIN control system to the fully web-enabled Advanced RAIN main panel. Only the highest-quality, branded components are used.

CONTROL OPTIONS



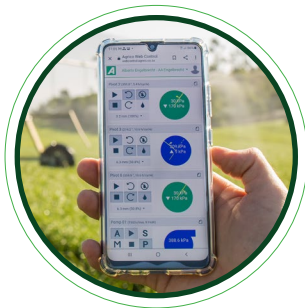
Basic RAIN Panel

The Basic RAIN control panel is a fully electro-mechanical panel which indicates whether power is present, whether or not the machine is aligned, whether it is running or not, and whether the last tower is running or not. It allows the user to manually start and stop the machine, set its direction, speed and mode.



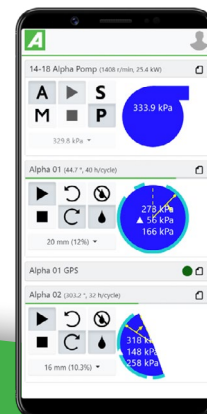
Advanced RAIN Panel

The Advanced RAIN control panel is a fully programmable electronic control panel. It determines the position of the pivot accurately and allows the user to pre-program events that occur when a certain position or time is reached.



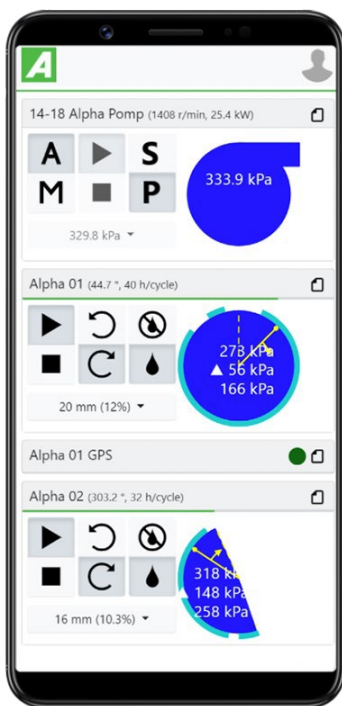
Agrico Web Control

Agrico G3 pivots combined with Agrico Web Control, has the ability to control multiple pumps, (vary pump speed) as machines are started, stopped or react to pressure requirement of machine as machine moves in the land, minimising energy consumption.



GPS option for proven energy savings

Agrico Web Control with GPS functionality can determine the position of the last tower of a centre pivot and monitor the pressure at the end of each pivot. The intuitive web application adjusts the strength of your motors and pumps to meet each pivot's exact needs at any moment, as the towers move across your fields. This results in significant energy savings of 28%, tested in actual conditions.



Agrico Web Control

Remote irrigation control for the 21st century farmer.

Designed to provide simple yet effective control over your irrigation system, Agrico Web Control is the ultimate remote irrigation solution. As an advanced remote control application, Web Control allows farmers to fully manage and optimise their systems via an internet-enabled device of their choice.

Agrico Web Control has the ability to web-control multiple pumps, vary pump speed as machines are started or stopped and change pivot position, helping you save on energy, water and other costs.

GPS option for proven energy savings

Agrico Web Control with GPS functionality can determine the position of the last tower of a centre pivot and monitor the pressure at the end of each pivot. The intuitive web application adjusts the strength of your motors and pumps to meet each pivot's exact needs at any moment, as the towers move across your fields. This results in significant energy savings of 30% and even more!

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