

# AGRIFOODSA

**MAG**  
FREE SUPPLIERS GUIDE

JUN - JUL 2020  
Vol 5 • No 1



**ND** NOORDWES  
DAMME



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**STORAGE | CONDITIONING  
MATERIAL HANDLING | STRUCTURES**



**ROSTSELMASH**  
Professional Agrotechnics  
**COMBINE HARVESTERS**



"Country Wide Dealer Network"

**TORUM 780** CLASS 8



ENGINE TYPE  
**Mercedes Benz**

POWER  
**372 kW**

TYPE  
**ROTARY**

TOTAL CONCAVE AREA  
**5.40 sq. m**

DRUM DIAMETER  
**762 mm**



**RSM 2375**

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Professional Agrotechnics

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Twin tyres

\* Limited stock available



**ACROS 595** CLASS 5



ENGINE TYPE  
**Cummins QSL9**

POWER  
**248 kW**

TYPE  
**STRAW WALKER**

TOTAL CONCAVE AREA  
**1.38 sq. m**

DRUM DIAMETER  
**800 mm**



**NOVA** CLASS 4



ENGINE TYPE  
**Cummins QSB 4.5**

POWER  
**129 kW**

TYPE  
**STRAW WALKER**

TOTAL CONCAVE AREA  
**0.93 sq. m**

DRUM DIAMETER  
**600 mm**



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SCAN ME



# EDITOR'S LETTER



Dear reader, welcome to the Jun/ Jul 2020 edition of the AGRIFOODSA Magazine. Temperatures are dropping and times are uncertain, but we've not let this chill our enthusiasm to bring you a steamy, 84-page suppliers guide. So, grab a cup of coffee, curl up in front of the heater and take a look at what our 59 advertisers have in store for you in this publication.

On the cover this month is Noordwes Damme. Located in Lichtenburg, Noordwes Damme sells steel dams and constructs dams for various industries, including agriculture. They are specialists in the manufacturing and installation of all forms of water storage, including corrugated dams, tanks for drinking water and HDPE/ PVC liners. They deliver nationwide and will beat any written quotation on the same quality. Visit their website at <https://www.nwdamme.co.za/>.

Our magazine is just the tip of the iceberg, so to learn more about Noordwes Damme, as well as our other advertisers, head over to the AFSA Website (<http://www.agrifoodsa.info>). We offer thousands of listings ranging from crop protection to solar electricity, calf rearing to silo's and so much more. Don't get left out in the cold. Visit AGRIFOODSA.INFO ...just a click away!

Remember to check out our Competitions page on the AFSA Website (<http://www.agrifoodsa.info/competitions>) to win amazing prizes bi-monthly. Whilst you're navigating the icy internet highways, venture over to our AFSA Facebook page (<https://www.facebook.com/agrifoodsa>) for more competitions, funnies, Advertiser Showcases, tasty recipes and Boererate, as well as helpful and informative articles uploaded daily.

We'd like to thank all of our loyal readers and advertisers for their continued support during the national lockdown and send all of you our best wishes wherever you may find yourselves.

Keep warm and stay safe,

*Chantell de Bruin*

EDITOR IN CHIEF  
@chantellschmahl

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## COVER PHOTO

NOORDWES DAMME : See Pg 30-31 for more information



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# FERTASA

Fertilizer Association of Southern Africa

## Fertasa, certified credibility.

**WE STAND FOR THE PROTECTION OF  
THE SUSTAINABLE USE OF FERTILIZER.**

FERTASA and its members are committed to the promotion  
of sustainable soil fertility and enhanced plant nutrition.



# Who are we?

## FERTASA MEMBERS ARE COMMITTED TO:

- A code of conduct.
- A set of standards audited by an independent compliance management body.
- Quality products.
- Relevant scientifically-based recommendations.
- Continual learning and improvement.
- Complying with all legal requirements.

### Structure of Fertasa

Fertasa is managed and directed by a Board of Directors who are elected by and representative of the ordinary members. The Board of Directors report to the Management Committee which comprises representatives from all ordinary and affiliate members. The Management Committee appoints operational committees to attend to various aspects of the business of Fertasa.

### Purpose

Fertasa is a recognised and preferred body aimed at promoting the image of the fertilizer industry through:

- Promoting the integrity of each member and building preferential trust for their products and services.
- Enhancing and protecting the interest of its members through effective engagement with government and organised agriculture.

### Mission

To provide a credible platform to promote the responsible and sustainable use of fertilisers.

### Vision

To be recognised as the representative voice for the fertilizer industry and as the stamp of approval for responsible and sustainable soil

fertility and plant nutrition in Southern Africa.

### Board of Directors

The Board of directors manages and directs the business and affairs of Fertasa. The Board comprises six (6) directors, and one (1) executive director (the Chief Executive Officer of Fertasa). The directors are elected by the ordinary members with equal representation from both smaller and larger member companies.

### Core functions

- Actively promote the agro-economic and environmentally accountable fertiliser and aglime practices;
- Develop a positive public awareness and acceptance of the need for fertiliser and aglime use in food production;
- Improve the operating environment within which its constituent industries operate in a spirit of free enterprise and fair trade;
- Assimilate, adds value to and disseminates fertiliser and aglime related information;
- Provide a discussion forum for its members and other parties on all aspects relating to fertiliser and aglime distribution, agronomic advice and product quality.

[www.fertasa.co.za](http://www.fertasa.co.za)

**Fertasa** - Fertilizer Association of Southern Africa

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**Technopol SA, founded in 1993, is primarily involved in the manufacturing of Expanded Polystyrene (EPS) and value-added products based on EPS. We also manufacturer value added product using PIR and Rockwool. We specialize in creating innovative building solutions that are energy saving and environmentally friendly.**

Our vision is to exceed customer expectations for quality, safety, sustainability, cost, delivery, value and to become the supplier — and inspirer — of choice for Expanded Polystyrene (EPS) blocks; EPS sheets; EPS cornice; Insulated ceiling solutions; Adhesives and Polymers and Roof solutions, through leadership and innovation.

Our LiteCel® range of Expanded Polystyrene foams find application in a hugely diverse range of applications from Void Filling, (Geolite®) covered with soil and concrete, Thermal Insulation cores for Wall Insulation products, (LiteCore® and Nuwall®), Floor Insulation and Roof and Ceiling Insulation, (LiteSpan®, PolyCool® and SuperCool®), special Agrément Certified IBT building system and decorative products.

At Technopol SA we provide purpose designed products to our customers that wish to construct with Innovative Building Technologies. All new buildings in South Africa must now meet the energy efficiency standards as set out in SANS 10 400 Part XA.

At Technopol we also want to see people impart energy efficiency and thermal comfort into their dwellings and businesses by presenting cost effective fit for purpose products to the market. We don't believe in a one-size-fits-all approach, but rather to provide the customer with a solution specific to their unique and diverse requirements.

We use best practise and proven methodologies to:

- Analyse the needs of our customers and resolve any problems that arise.
- Use the above analytical data, and facts to plot the best possible solution.
- Use a strategic approach to show the customer exactly how we can assist them to reduce their building costs and be more energy efficient.
- Show the customer a roadmap of how we can partner with them, in order to make sure that we continuously add value, and assist them to have an on-going and innovative approach to achieving their building objectives.

At Technopol SA we continuously strive to be at the forefront of pioneering the next level of value, and customer centric solutions to offer to the market. We don't change the customer's needs to suit our product; we tailor the solution to suit the customer's needs.

Technopol SA is committed to supporting the communities within which we operate. We believe in the practice of social responsibility and encourage similar behaviour in our employees and suppliers. We support the conservation of the physical environment and the prevention of pollution at our facilities; and as such our environmental commitments include:

- To constantly increase environmental consciousness and application in all personnel
- o achieve an environmentally friendly work place in order to promote Quality of Life for all employees.
- To constantly strive to reduce any negative environmental impact of our products and processes.
- To continue to invest in improved energy efficiency and energy conservation.
- To conserve natural resources through efficient use and careful planning
- To control the creation of waste and, wherever practicable, recycle materials and waste. Hazardous Waste and effluents will be disposed of in a safe and responsible manner.
- To eliminate or reduce as far as possible the release of emissions or any pollutant that may cause environmental damage.
- To assess new processes for possible negative environmental impact before introduction.
- To undertake regular environmental monitoring and auditing of our activities.
- To adapt to climate change and to ensure mitigation in respect of climate change.
- To protect the biodiversity and ecosystems.
- Life cycle thinking

**To date, Technopol SA is the only Thermal Insulation Manufacturer in South Africa that has an Integrated Management System that is ISO 9001, ISO 14001 and ISO 45001 Standards certified.**

Technopol SA has a team of trained specialists, engineers and technicians who have built the necessary portfolio of experience to provide suitable solutions to any project. Our employees are motivated and active problem solvers.



**One of the factors critical to Technopol SA's success was its decision to distribute its products not only to the South African market, but also Namibia, Swaziland, Lesotho, Botswana, Zimbabwe and Zambia. At our plant in Springs, we undertake a number of rigorous quality checks on all our products in our own laboratory. Only after these checks have been completed will the products be distributed to our customers.**



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# RELIABLE DIESEL ENGINES



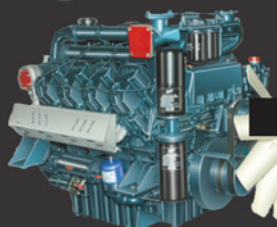
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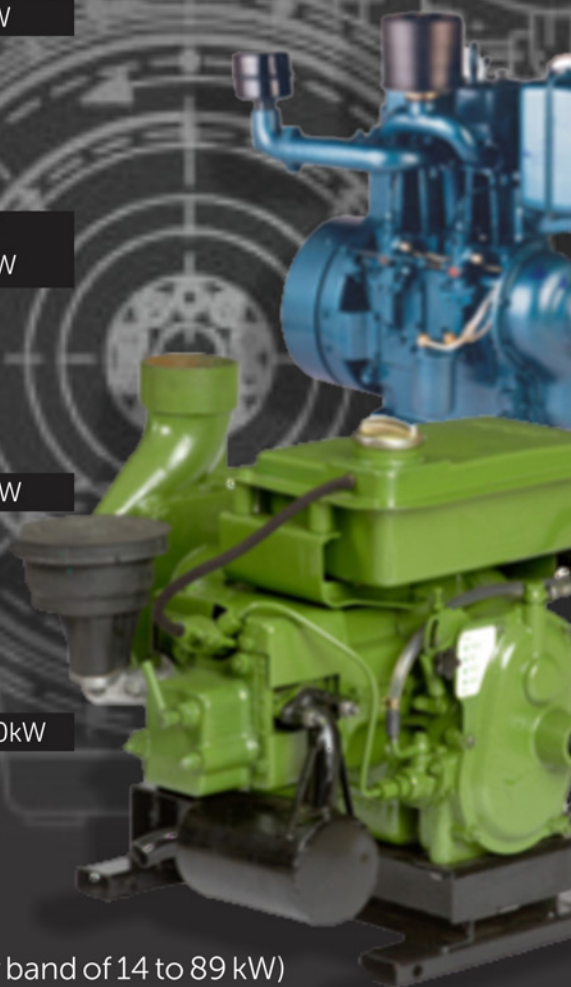
R-Series: 18.5kW to 118.0kW  
K-Series: 135.0kW to 160.0kW



SL-Series: 173.7kW to 222.3kW



DV-Series: 360.0kW to 889.0kW



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# KIRLOSKAR Engines South Africa

## COMMITMENT TO QUALITY AND CUSTOMER SERVICE

**KIRLOSKAR ENGINES SOUTH AFRICA (PTY) LTD (KESAL) WAS ESTABLISHED IN NOVEMBER 2003 AND IS THE AUTHORIZED SOLE DISTRIBUTOR OF KIRLOSKAR DIESEL ENGINES AND ASSOCIATED EQUIPMENT IN SOUTH AFRICA, MOZAMBIQUE AND BOTSWANA.**

KESAL entered the South African engine market with the main focus on engines for general industrial applications, construction, agricultural equipment, water pumps, mining equipment and diesel powered generating sets.

KESAL offers quality products, at competitive prices, backed by immaculate after sales service to suit the demands of any industry. In turn, this leads to reduced investment and running costs, with the result being a decrease in total cost of ownership (TCO).

KESAL's key focus has been in providing customers with comprehensive solutions for diesel prime mover requirements. We strive to offer products to suite the application and requirement by being versatile in our engine scope of supply.

KESAL is very active in the local market offering various repowering solutions for existing as well as new applications.

KESAL has an aggressive stocking model that allows for excellence in sales and service delivery.

KESAL has already supplied more than 11,000 engines in Sub-Sahara Africa for various market segments.

This year at Nampo we are showcasing our very first electronic governed air cooled diesel engine commonly used for underground mining operations. With a current population of over one thousand engines actively running underground, this new technology will benefit the mining industry.

Secondly, but not least, we are also showcasing our new water cooled engine models (4K1080TA and 6K1080TA) commonly used for power generation and water pumps. The smaller casing produces more power in its class, so Kirloskar have lots of faith in the new engines.

Visit the website [www.kirloskarsa.co.za](http://www.kirloskarsa.co.za) for more information on Kirloskar's wide range of products.



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## A Time to stay Positive and Faithful

Taking into account the recent international logistical and supply chain difficulties created by the COVID-19 pandemic, we at LTG continued to service businesses that were in the essential goods sector. This was possible by arranging and managing import & export shipments under extreme complex circumstances, assisting with Permits and CIPC certificates and constantly advising and communicating with our clients. We are fortunate to have passionate and reliable staff who were always available and still went the extra mile, despite being confined to "home offices". E-mails, Skype & Zoom meetings have become the norm.



When Level 4 was nationally announced, LTG already had all the necessary occupational health and safety measures prepared to prevent the possible spreading of COVID-19 infections in our workplaces. This enabled us to have the staff then also return to the offices in separate stages and ensuring the prescribed social distancing was adhered to. Throughout Level 4 as well as with the introduction of Level 3, all aspects of the preventative measures were maintained and monitored. This will continue until the measures are lifted by the Departments of Health and Labour.

During these trying times, LTG has also once again learned that we have extremely capable logistics and service providers, who have assisted with difficult and often impossible shipment arrangements. All turned out to be done very professionally and to the satisfaction of our clients. The ongoing support received from our valuable clients have been nothing short of phenomenal and we could not have done it without their belief in LTG.

Going forward we accept that there will be obstacles and hurdles to overcome but staying positive and capable in these times are crucial and that's the motto we want to be known by.



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Application



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Reg. No. B5651 Act No. 36 of 1947

**Rolfes**  
Agri





# Precision with ABSOLUTE AGRI

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Rolfes Agri (Pty) Ltd

Reg. No. B5651 Act No. 36 of 1947





# ENERGY SOLUTIONS FOR ALL TYPES OF POWER AND APPLICATIONS

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## ALTERNATORS



## BATTERIES



## GENERATORS



### SUB SAHARA POWER DISTRIBUTORS

We are committed to supplying you with the energy source to accompany you in the successful completion of each of your projects all over Sub Sahara Africa, Sub-Sahara power distributors are the Sole distributors of various High quality power related Brads from Europe and the US.

As a sole distributor for Sub-Saharan Africa, Sub-Sahara Power Distributors is authorized to appoint none exclusive sub distributors for the nine provinces within South Africa and for Export territories such as Botswana, Swaziland, Mozambique, Malawi, Zimbabwe and Angola

## FUEL CLEANING



## FUEL MANAGEMENT



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Founded in June 2005 and sold their first Diesel Generator set in September of the same year, Sub-Sahara Power Distributors have a reputation for quality products, coupled with quality services and has broadened their export market. They are well represented in the SADC region through a network of distributors. Sub-Sahara Power Distributors is committed to supplying you with the energy source to accompany you in the successful completion of each of your projects all over Sub Saharan Africa. The proximity of their distribution network and dynamism of their customer services policy enables them to be a powerful force and provide the basis of the company values.

Sub-Sahara Power Distributors are the Sole distributor of the SDMO products for Sub Saharan Africa. As the sole distributor they are authorized to appoint none exclusive sub distributors for the nine provinces within South Africa and for export territories such as Botswana, Lesotho, Namibia, Swaziland, Mozambique, Zambia, Malawi, Zimbabwe and Angola.

SDMO is one of the world leaders in the manufacturing of European generating sets

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Rumensin 200 Registration number: G1818 (Act 36/1947) Composition: Monensin sodium 200 g/kg

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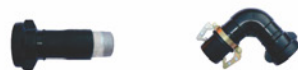
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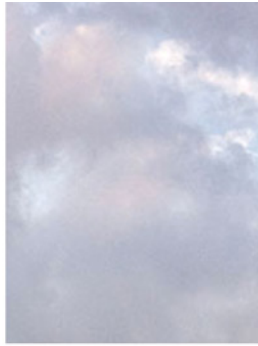
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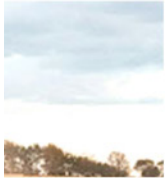
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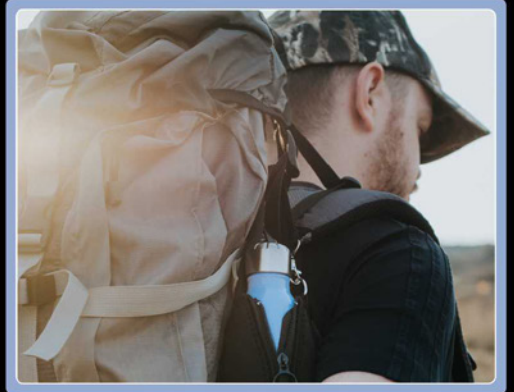


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- Paul Lockyer (Barrister and Solicitor of the High Court of New Zealand – Legal Consultant UAE)



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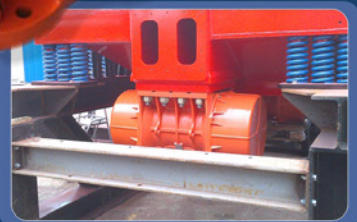
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WHEN YOU NEED IT, WHERE YOU NEED IT

As a global player in industrial vibration technology, with three manufacturing sites and eighteen trading subsidiaries, it is OLI's goal to provide excellent value to our customers.

OLI has been committed to delivering high-quality market-orientated products since being founded in 1961, but is aware that excellent customer service is of pivotal importance. The OLI product is distributed in Southern Africa by its subsidiary in Gauteng, South Africa.

The OLI product meets the high demands of the South African climate. Its high-quality products and equipment that can withstand our harsh operating environment. As a strong believer in innovation, OLI is constantly striving to be ahead of the curve.

It is this drive for innovation that allows us to now offer stainless steel motors to industry for clean and efficient plant operation.

We also offer a range of flanged mounted electric vibrators, specifically designed to be retro-fitted to existing equipment in a number of industries and sectors.

Our other offerings - pneumatic hammers and linear pneumatic vibrators - reduces numerous material flow headaches in plants. Identifying the customers'

needs is a priority; achieving a partnership built on trust is the reward. By supplying competitive, high-quality products for wide-ranging applications, OLI combines performance and reliability by adapting to the ever-changing market.

The key centrepiece of OLI's business strategy is rapid stock delivery, any time, any place in the world. With its skilled competence and valuable knowledge of the industry, OLI is a credible expert when it comes to assistance in finding the most suitable solution to each individual customer's request.

As all OLI's products are market-orientated, this affords the company knowledge of numerous applications and industries.



WHEN YOU NEED IT, WHERE YOU NEED IT!  
THE MISSION STATEMENT THAT GIVES OLI THE EDGE OVER ITS COMPETITORS



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# NULANDIS

## THE COMPANY AT A GLANCE

NULANDIS IS A SOUTH AFRICAN COMPANY WITHIN THE AECI GROUP OF COMPANIES SERVING THE AGRICULTURAL SECTOR WITH PRIDE. NULANDIS HAS LONG BEEN AN ALLY TO FARMERS IN AFRICA. WITH THE MOVE TOWARDS SUSTAINABLE AGRICULTURE, NULANDIS WITH ITS NuWay® PROGRAMME AND ITS EXTENSIVE RANGE OF PRODUCTS AND SERVICES, AIMS TO WORK WITH FARMERS TO PRESERVE OUR NATURAL RESOURCES, RESTORE SOIL BIOLOGY AND ADDRESS THE NEED FOR PRODUCING NUTRITIOUS FOOD.

NULANDIS IS A MULTI-FACETED COMPANY ADDRESSING ALL ASPECTS OF SOUTH AFRICAN AGRICULTURE COUNTRYWIDE THROUGH OUR NETWORK OF KNOWLEDGEABLE AND EXPERIENCED CROP ADVISORS AND TECHNICAL ADVISORS.

### CROP PROTECTION

Nulandis is a producer and distributor of a large range of crop protection products including fungicides, insecticides, herbicides, adjuvants and nutritional products.

### BIOCULT

Biocult is a wholly owned company within Nulandis that produces *Mycorrhiza* and *Trichoderma* products for seed treatment and soil application.

### NuWay®

Agriculture worldwide is under pressure to reduce pesticide and fertilizer usage whilst increasing crop yields to feed a growing world population. There is now a move away from the total reliance on traditional chemicals and synthetic fertilizers towards a more responsible and sustainable approach of cultivating crops that protects the environment and its precious resources.

The Nulandis approach is to work hand in hand with the farmer to systematically address each point of influence in the growing of crops in a sustainable and responsible manner. Many of the tools and techniques simply unlock nature's potential and the genetic potential of the crop.



NuWay® is Nulandis' response to addressing the challenges facing conventional agricultural practices and meeting the demands of a more informed consumer seeking supply chain transparency and improved health benefits from the food consumed.

### NULANDIS PRECISION SCIENCES (NPS)

Nulandis Precision Sciences (NPS) is made up of a team of professionals for whom the principles of sustainability and profitability for the farmer are of the utmost importance. The team comprises soil surveyors and scientists, agronomists and technical advisors who can both advise farmers of their



operations' true potential and identify constraints. The team follows the Nulandis NuWay® approach, focusing on soil and plant-health and is also regarded as a leader in the delivery of feasibility studies for Agriparks in Africa.

Nulandis Precision Sciences helps unlock a farming operations' full potential through the use of precision agricultural services to identify the most suitable soil for crop production and plan other operations around this. On existing farms, NPS first determines the cause of a particular problem and then implements a solution specifically to address it. Solutions may include a crop rotation strategy, pest and weed control, moisture management, soil biology and fertiliser correction recommendations. Through the correct implementation of these solutions, NPS can help the grower achieve optimum yields and be more profitable on a sustainable basis.

Global Imaging Satellite (GIS) specialists at NPS have the technology and software to capture, compare and multi-layer all farming inputs and outputs, precision and yield data. Furthermore, they utilise Normalised Difference Vegetation Index (NDVI) images to assist the farmer in making crucial decisions throughout the growing season.

**TOGETHER THE PRODUCTS AND EXPERTISE WITHIN NULANDIS OFFER THE FARMER THE COMPLETE SOLUTION**



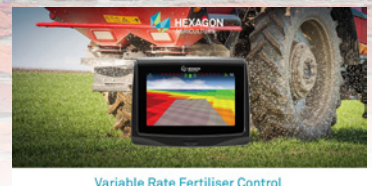
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The frequency of load shedding puts great strain on terrestrial network resources and leaves you without connectivity for long periods of time. With a satellite-based solution, you will always remain connected as long as you have power-generating solutions on your farm or house to power other services and appliances.

Traditionally the cost of getting reliable internet connectivity is a barrier to access for many people, especially those living in rural or remote areas with limited or no conventional internet or telecommunication services. The good news is that with the arrival of new solutions those costs have reduced and we foresee a continued reduction of costs.

We have just launched our new Max Unlimited Satellite Internet Solutions. This solution provides you with three unlimited options: 5 Mbps, 10 Mbps and 20 Mbps download speeds. We also offer capped and uncapped solutions, supporting VOIP, for larger SME's and lodges. The solution focussed on SME's and lodges delivers uncapped, unshaped connectivity at lower contention ratio's than traditional broadband solutions, at speeds of between 1 Mbps and 15 Mbps.

Since the launch of consumer broadband satellite internet in 2011, South Africans living in unserved and under-served areas have been offered connectivity literally anywhere in South Africa, with higher speeds and access to high throughput satellites.

Maxwell Technology, now known as Paratus SA, has established itself as a leading satellite-based internet and data solutions provider offering a range of affordable and reliable high-speed broadband internet solutions to clients.



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'Icon' was developed by selection among survivors from old fields of 'Aurora'. Plants were selected on plant characteristics, superior fodder yield, reliable seed production and improved disease and pest resistance. In each cycle of selection plants with superior features were retained and others were eliminated before flowering

The Australian variety 'Aurora' has performed very well in New South Wales and Argentina. The aim was to produce a broadly adapted and high yielding variety by selection of superior plants from within a proven variety. Traditional breeding methods were used to develop 'Icon'.



#### Agronomic characters

Plants are moderately tall with semi-erect leafy stems. 'Icon' plants are moderately winter active (rating 7) with strong summer growth, vigorous recovery from cutting or grazing and good survival under grazing. It is early flowering with flowers varying from light to dark blue. In resistance to pests and diseases 'Icon' is superior to 'Aurora' (see table 1). Independent tests for levels of resistance in 'Icon' were conducted by Crop Characteristics Inc. MN, USA.

**Table 1: Disease and pest resistance of 'Icon' and 'Aurora'**

	SPOTTED APHID	BLUE APHID	PEA APHID	PHYTOPHTHORA	ANTHRACNOSE
<b>ICON</b>	<b>HR*</b>	<b>HR</b>	<b>R</b>	<b>HR</b>	<b>S</b>
<b>AURORA</b>	<b>HR</b>	<b>MR</b>	<b>MR</b>	<b>R</b>	<b>MR</b>

\* HR – highly resistant, R – resistant, MR – moderate resistant and S - susceptible

To assess hay production potential two hay cuts were taken in a two year old stand. In the first cut 'Icon' out yielded 'Aurora' by 16% and in the second by 32%.

In a comprehensive trial established at Keith in South Australia, the performances of 28 varieties and elite lines were compared in an irrigated replicated field trial. The yield of 'Icon' over three hay cuts was 2.33 tonnes/hectare, 10% more than 'Aurora' and other comparable varieties (see below).

Icon 2.33 t/ha  
 Aurora 2.12 t/ha  
 Genesis 2.08 t/ha  
 Sardi 7 2.05 t/ha  
 LSD (5%) 0.27 t/ha

The above trials indicate the 'Icon' is clearly more productive and more pest and disease resistant than its parent variety 'Aurora'.

Icon is protected under Plant Breeders Rights.



# POWER PRODUCTS



0.37 kW 30m cable  
0.55 kW 40m cable  
0.75 kW 50m cable  
1.1 kW 60m cable

## Bore Hole Pumps

with Cable and control box



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Kit 3 - 9x solar panels  
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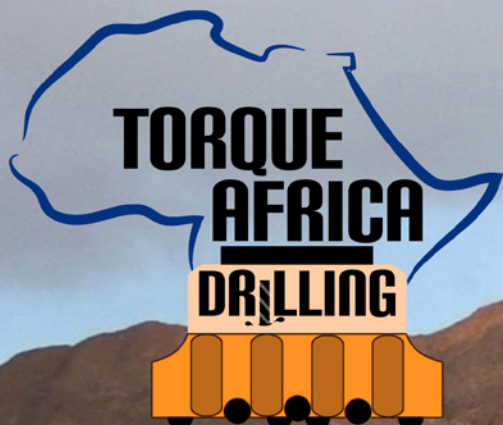
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# Agricultural Shade Net



  
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We manufacture and supply a comprehensive range of agricultural shade netting from 20% to 80% shade, tailored to improve spectral transmittance and provide the optimal lighting and protection for your crop. Our range of attractive and functional decorative shade net provide cover for your crops for up to 90% shade and come in a variety of natural colours.

## 10 year warranty

At PlusNet, each roll of shade net carries a 10 year WARRANTY against sun degradation.



For more information, please visit [www.plusnetgeotex.co.za](http://www.plusnetgeotex.co.za) or email us at [nets@plusnet.co.za](mailto:nets@plusnet.co.za)



# PLUSNET

**SETTING THE STANDARD IN THE SHADE NET INDUSTRY IN AFRICA**

PlusNet/Geotex A Division of Masters Plastics PTY Ltd, is a Gauteng based manufacturing company. Geotex was founded in 1995 and the PlusNet Range was added in 2000. Today PlusNet/Geotex has a fully integrated state-of-the-art production facility that produces innovated products for the agricultural, commercial and civil industry.

Innovation is an important philosophy to which PlusNet/Geotex subscribes, thus new developments are constantly in the pipeline.

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PlusNet has a comprehensive range of agricultural shade netting from 20% to 80% shade, tailored to improve spectral transmittance and provide the optimal lighting and protection for your crop. Their range of attractive and functional decorative shade cloths provide cover up to 90% shade and come in a range of colours.

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As the leading manufacturer of agricultural shade net, the PlusNet shade net product line will open up a spectrum of new and evolving opportunities for new product variants. Whether you provide shade net for vegetable tunnels, shade houses or creative 'green'

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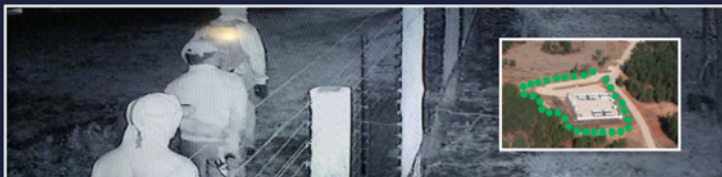
**DETECTS - VEHICLE MOVEMENT**




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# SOEK JY 'N BEKOSTIGBARE, EENVOUDIGE OPLOSSING OM MISDAAD TE KEER VOOR DIT GEBEUR?

## JY GAAN DIE PATHFINDER GRONDSSENSOR NODIG HÊ!

Wanneer dié sensors in landelike gebiede geplaas word, tel dit menslike voetstap asook verskeie voertuie se klank op. Daar word dan outomaties waarskuwings na jou rekenaar of selfoon gestuur.

Of dit nou voetstap of voertuie is, Pathfinder sensors is 24 uur per dag aktief. Dit word begrawe en kan dan tot 2 jaar aktief bly op 'n battery.

Dis bewys in gebruik vir die beveiliging van Amerikaanse militêre vorentoe uitvoer basisse en gevegsbuiteposte.

Pathfinder is nou ook beskikbaar vir kommersiële sekuriteitsdoeleindes en beveilig alles van bewaakte fasiliteite tot kritiese infrastruktuur, insluitend groot eienaars van eiendom en hul beleggings.

Om suksesvol te wees het 'n kriminele aanval twee faktore nodig - die verrassingselement en beweegbaarheid.

Pathfinder elimineer albei en maak dit moontlik om bedreigings vas te pen en te monitor lank voordat daar enige skade of besering aangerig is.

Pathfinder se data-oordragvermoë en lae kragverbruik maak dit moontlik vir sensors om ver vanaf die beveiligde besitting geplaas te word wat dan vroeë waarskuwing aan reaksie-eenhede verskaf om aanvalle te keer. Reaksie-eenhede kan ook bepaal presies waar die aanval begin is. Weet presies waar en wanneer die lyn gekruis is en maak dit vir jouself moontlik om onmiddellik te reageer.

Pathfinder se sensors gebruik 'n gepatenteerde radio frekwensietoestel om beweging so ver as 10 km vas te stel - en kan ook gebruik word om kameras, radar en hommeltuie te aktiveer.

**Pathfinder - sien hom voordat hy van jou weet!**  
**PathfinderZA SMS Projek - 47052**

Die direkteur van PathfinderZA, Frik van Heerden, het besluit hy wil terug gee aan die gemeenskap en

daarom die rede vir die sms projek. 'n Sms lyn is geregistreer en PathfinderZA se bestuur het sekere instansies genader waarby hul betrokke wou raak wat op hul gebied weer baie hulp verleen waar dit nodig is.

Tans ondersteun PathfinderZA drie (3) instansies.

- Beeld Kinderfonds
- Kosmos Stereo 99.3 FM in Middelburg
- Toekomstvonk



### SO WERK DIE SMS-LYN:

Indien 'n leser na hierdie artikel besef Pathfinder is 'n absolute noodsaaklikheid, en die naam van die instansie het van wie hulle wil ondersteun, sms na 47052. Die sensors word by die persoon geïnstalleer, dan betaal Pathfinder R1000.00 per sensor van daardie klênt aan die instansie wat hy of sy wil ondersteun. En op daardie manier kan die instansie gaan hulp verleen waar hulle weet dit nodig is.

Indien daar nog geregistreerde instansies daar buite is wat sulke ongelooflike werk doen soos Beeld Kinderfonds, Kosmos Stereo en Toekomstvonk en hul wil ook betrokke raak by PathfinderZA se sms projek vir fondse, dan kan hulle net die webtuiste besoek by: [www.pathfinderza.com](http://www.pathfinderza.com) en 'n e-pos stuur. Daar is tans nog 2 plekke beskikbaar.

Boere of besigheidseienaars wat 'n demonstrasie op hul perseel soek kan die woord "Path" sms na 47052 en daar sal kontak gemaak word om die nodige reëlings te tref.

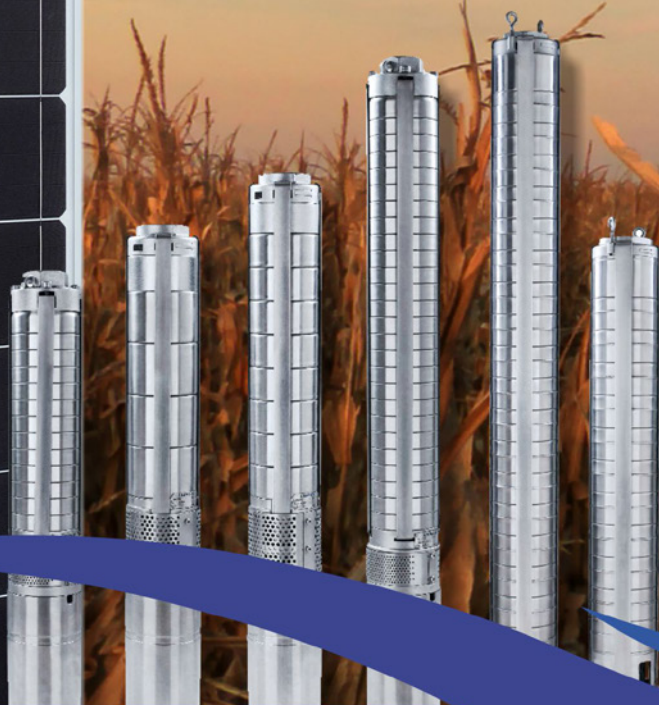
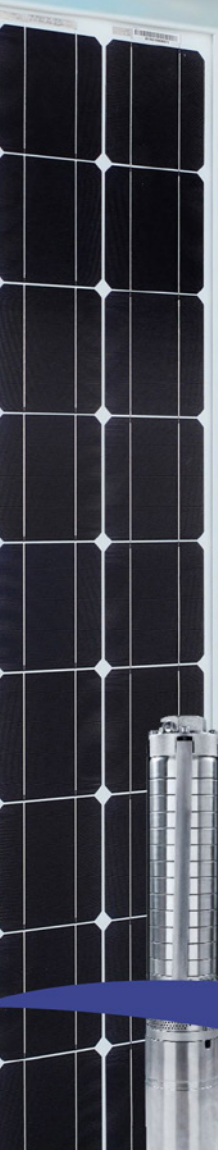




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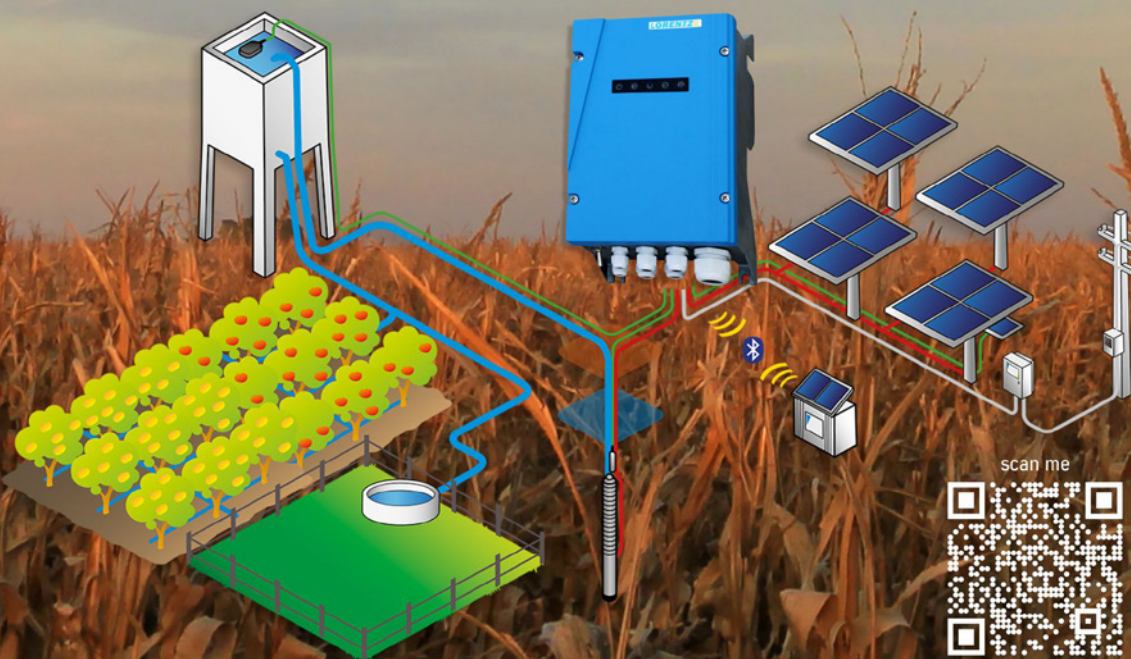


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# BOER ONDERHOUBAAR, BOER MET GEREELDHEID

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## KRISTAL TEGNOLOGIE

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# KRISTAL TEGNOLOGIE

Die mees gevorderde plaagbeheer in die wereld,  
spesiespesifiek en omgewingsvriendelik.

**FREKWENSIE BEHEER WORD VANAF BENONI TOEGEPAS EN WORD NIE BENADEEL DEUR DIE KORONA VIRUS NIE**

Kristalfrekwensies is omgewingsvriendelik en teiken spesifieke spesies, enige plek in die wêreld, chemies vry sonder om ander spesies soos bye en predatore aan te tas.

Agri Frequencies se gevorderde stelsel is aanpasbaar vir mutasies en variasies binne spesies. Kwantumkoppeling word gebruik om die frekwensies onmiddellik op enige oppervlakte in die wêreld te plaas en dit is meetbaar.

Frekwensie behandeling se effektiwiteit is talle kere reeds bewys as meer effektief as chemiese behandeling teen 'n fraksie van die koste. Kristaltegnologie kan ingespan word vir 'n baie wye reeks van toepassings, van die beheer van virusse, bakterieë, swamme, plant- en dieresiektes, tot insek- en plaagdierbeheer soos rotte, voëls, ape, jakkalse en baie meer.

Meegaande foto's wys hoe effektief is swamme in 'n luserland gedood nadat mikroskopiese foto's van die swamme geneem is en die teenfrekwensie teruggestuur is na die land toe. Die foto's is geneem op die land van mnr. Hanco Ferreira naby Potchefstroom. Ook vir voersupplemente op diere- en plantvoedingaanvullings, mikro- en makro minerale. Sels die PH van die grond kan vining aangepas word.

Grondorganismes kan gestimuleer word om plantgroeï te bevorder en opbrengste en kwaliteit te verbeter. Besproeiingslyne- en druppers kan skoongemaak word en water en grond kan tot 'n mate ontsout word.

**Ons het ook 'n aantal huishoudelike produkte wat die frekwensies oor 'n vaste area toedien, en kan met kwantumskakeling opgedateer word om mutasies te beheer.**

## DIETUIN FEETJIE

Stimuleer plante om te groei, beskerm plante teen rypskade en verminder waterverbruik met 30%. Dit dood plant-etende insekte, vlieë, muskiete, termiete en kakkerlakke. Dit bedien 'n area van 'n 40m radius en kos net R800.00. Dit is lewenslank gewaarborg.

## DIE PEST VIBES

Dood rotte, muise, vlieë, muskiete, termiete, kakkerlakke ens. Vir 40m radius kos dit R800.00 en die 200m radius kos R1200.00. Dit het 'n lewenslange waarborg en kan onbeperk opgradeer word.

## DIE AQUA STRUCT

Watersstruktureerder verbeter waterkwaliteit, verhoog bloedsuurstofvlakke, maak pype en ketels skoon van kalkaanpaksels, is groot genoeg vir 25mm pyp. Dikker pype gebruik meer - een vir elke 25 mm pypdikte en kos net R1200.00. Dit is lewenslank gewaarborg. Die effek is toetsbaar.

Insek getalle is baie laer op vals kodlingmot, stinkbesies, vrugtevlieë, makadama boorders, stamboorders, blaaspootjies op frekwensiebeheerde areas as op chemiesbeheerde kontroles. Insekbeheer met frekwensies is baie meer effektief as met chemikalieë en is baie gesonder en goedkoper om die volledige pakket van insekbeheer en groei te kry. Dit kos net R1200.00 per jaar met korting vir groter plase.

LUSERN MET SWAM BESMET



FOTO:  
Mnr. Hanco Ferreira - 17/04/2020

SWAM GEDOOD MET FREKWENSIE



FOTO:  
Mnr. Hanco Ferreira - 28/04/2020

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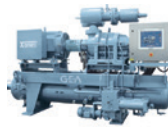
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Die SENTER360 spilpunt wat sedert 1994 in Suid-Afrika ontwerp en vervaardig word, is bekend vir sy uitmuntende kwaliteit en sterkte bo industrie-standaarde. Vir meer as vyf-en-twintig jaar is ons al deel van die besproeiingsbedryf. Ons het groeiende besigheidsbelange in Suid-Afrika, Afrika en die res van die wêreld.

By SENTER 360 is spilpunte vir ons 'n passie. Juis daarom bou ons nie net 'n sterk en taai struktuur nie, maar ons bestee ook heelwat tyd en aandag aan die klein besonderhede wat 'n groot verkil in jou alledaagse lewe kan maak.

## STRUKTURELE STABILITEIT

SENER360 se vakwerkysters is van pyp vervaardig wat ligter as die algemeen gebruikte hoekysters is. Dit bied ons die voordeel om twee stelle vakwerkysters meer per toring te gebruik wat sorg dat die struktuur buitengewoon sterk is.

Boonop het die pypstruktuur minder windweerstand en is dit die rede waarom SENTER360 spilpunte windsnelhede van 158 km per uur (in die veld gemeet) kan weerstaan sonder enige skade; weereens ook die rede waarom geen SENTER360 spilpunt in die onlangse stormwinde omgewaai het nie (die enigste fabrikaat wat bly staan het!). Standaard langer aandryfbalke, stewige toringstutte, stabiliseringstawe en diagonale dra by tot dié uitsonderlike standvastigheid.



## INNOVERENDE BEHEERPANEELREEKS

Die beginsel van eenvoudige modulêre ontwerp, wat die grondslag van die hele SENTER360 spilpuntontwerp uitmaak, word ook op ons beheerpaneelreeks toegepas.



As "basiese" beheerpaneel gebruik SENTER360 'n paneel vergelykbaar met die top reeks van ander fabrikate. Dit het as standaard funksies aan/af-sit terugvoer as die spilpunt staan direkte mm verstelling posisiebepaling druk-aanskakel en laedruk skakeling kan deelsirkels en sektore met variërende mm op elke sektor besproei outomatiese omdraai met variërende mm met die omdraai skeduleringsopsies, en vele meer!

Alle SENTER360 panele kan met jou selfoon\*, tablet\*, rekenaar of basisstasie beheer word deur 'n vandie-rak Kommunikasie-eenheid van jou keuse (GPRS/selfoon-netwerk, Wi-Fi of radio-eenheid) op enige nuwe of bestaande\*\* SENTER360 beheerpaneel in te prop.



Volle pompbeheer, VSD-beheer en terugvoer is ook beskikbaar op dieselfde stelsel.

\*(Android, IOS en ander)

\*\* (Ouer panele se beheer is beperk tot aan/af, mm verstelling, loop/staan terugrapportering)

## "LAASTE SPUIT" OPLOSSING

Een van die meer algemene probleme met spilpunte is dat die laaste spuit geneig is om verstopt te raak. Ons het egter met 'n innoverende, dog eenvoudige oplossing vorendag gekom om die laaste spuit deurlopend skoon te hou. SENTER360 spilpunte word standaard toegerus met drukgereguleerde Komet Twister sproeiers teen 10 psi (0.7 bar) of opsionele 6 psi (0.42 bar) wat op hangpype gemonteer is. Dit verseker uitstekende waterverspreiding in selfs die uiterste klimaatstoestande.

## SWAARDIENS RATKAS EN MOTORS

Die standaard aandrywing van die SENTER360 spilpunt bestaan uit 'n swaardiens wielratkas, met 'n gratis opsionele vyf jaar waarborg\* wat deur 'n 0.56 kW (40:1) motorratkaskombinasie aangedryf word (30:1 en ander is opsioneel).

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## DIE GRASSE SE HOOFKARAKTEREIEKAPPE IS:

### BRACHIARIA BRIZANTHA (GESKIK VIR DROËLAND)

#### BRACHIARIA – MG-4 (MEES DROOGTEBESTAND)

- Geskik vir weiding en maak van hooi
- Grondvrugbaarheidslaag
- Smaaklik en goeie verteerbaarheid
- Hoë droogtebestandheid
- Proteïeninhoud 9 -11 %
- Produseer 10 - 12 ton/dm/ha
- Plantdigtheid 8 kg/ha

#### BRACHIARIA – MG-5

- Geskik vir weiding en maak van hooi
- Smaaklik en goeie verteerbaarheid
- Hoë droogtebestandheid
- Proteïeninhoud 8 -13 %
- Produseer 10 - 20 ton/dm/ha
- Plantdigtheid 8 kg/ha

### PANICUM MAXIMUM (WITBUFFELSGRAS)

#### MOMBASA

- Geskik vir weiding en maak van hooi en kuilvoer
- Smaaklik en goeie verteerbaarheid
- Groei oor 2 m
- Kouevatbaarheid: medium
- Proteïeninhoud 12 -16 %
- Produseer 20 - 30 ton/dm/ha
- Plantdigtheid 6 kg/ha

#### TANZANIA

- Geskik vir weiding en maak van hooi en kuilvoer
- Baie smaaklik en verteerbaar
- Goeie weidingsgewas
- Kouevatbaarheid: medium
- Proteïeninhoud 12 -16 %
- Produseer 20 - 26 ton/dm/ha
- Plantdigtheid 6 kg/ha

#### PAREDAO

- Nuwe gewas
- Geskik vir weiding en maak van hooi en kuilvoer
- Uitstekende smaak en verteerbaarheid
- Goeie melkproduksie
- Droogtebestandheid - hoog
- Goeie weidingsgewas
- Kouevatbaarheid: medium
- Proteïeninhoud 10 -16 %
- Produseer 30 - 35 ton/dm/ha
- Plantdigtheid 6 kg/ha

#### ARIES

- Geskik vir weiding en maak van hooi
- Die mees smaaklike en verteerbaarste witbuffelsgras op die mark
- Goeie weidingsgewas vir skape, bokke, perde en beeste
- Kouebestand
- Proteïeninhoud 10 -15 %
- Produseer 18 - 20 ton/dm/ha
- Plantdigtheid 6 kg/ha

### PENNISETUM (OLIFANTSGRAS)

#### CARAJAS (BANAGRAS KRUIS)

- Geskik vir weiding en kuilvoer
- Baie smaaklik en verteerbaar
- Goeie kuilvoerprodukt
- Kouebestandheid: hoog
- Proteïeninhoud 14 -16 %
- Produseer 40 - 50 ton/dm/ha
- Plantdigtheid 40 kg/ha

### SETARIA SPHACELATA

#### TIJUCA

- Geskik vir weiding en maak van hooi
- Smaaklik en goeie verteerbaarheid
- Grondvrugbaarheidslaag
- Groei tot 1.6 m
- Kouetoleransie: goed
- Droogtebestandheid: baie goed
- Proteïeninhoud 7 -9 %
- Produseer 10 - 12 ton/dm/ha
- Plantdigtheid 6 kg/ha

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- Geskik vir weiding en maak van hooi
- Goeie weidingsgewas vir wild, skape, bokke, perde en beeste
- Kouebestand
- Proteïeninhoud 8 -13 %
- Produseer 9 - 15 ton/dm/ha
- Plantdigtheid 10 kg/ha

### LEGUME (PEULGEWASSE)

#### JAVA

- Geskik vir weiding en maak van hooi
- Smaaklik en verteerbaar
- Kouebestandheid: laag
- Kan in swak grond geplant word
- Sit 150 kg N/ha/jaar
- Proteïeninhoud 18 -23 %
- Produseer 5 - 9 ton/dm/ha
- Plantdigtheid 5 kg/ha

### WINTER EN SOMER DEKGEWASSE

- Brasuda maak 'n pasmaak dekgewas vir die boer wat sy eie behoeftes in ag neem soos die verlangde plantdatum, lokaliteit en streek.



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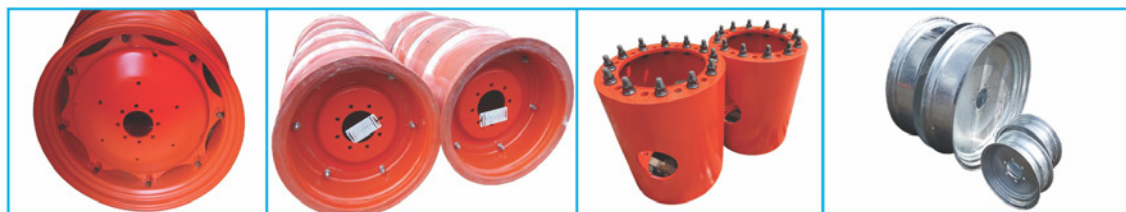
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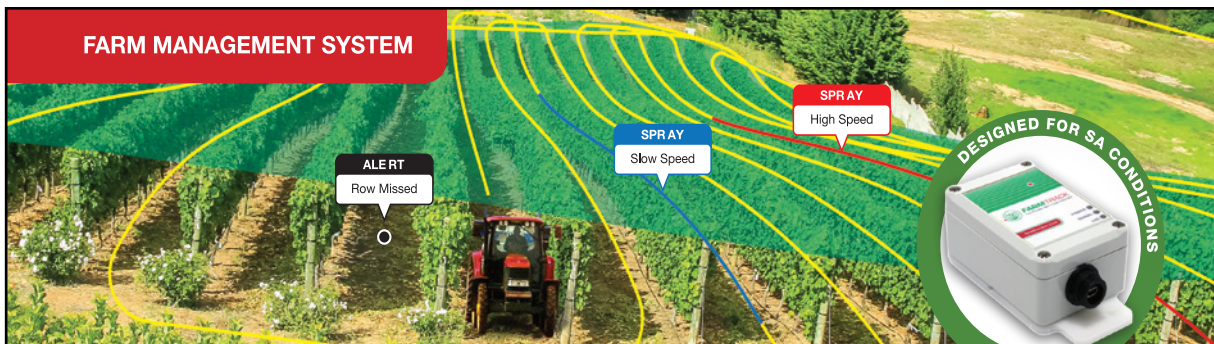
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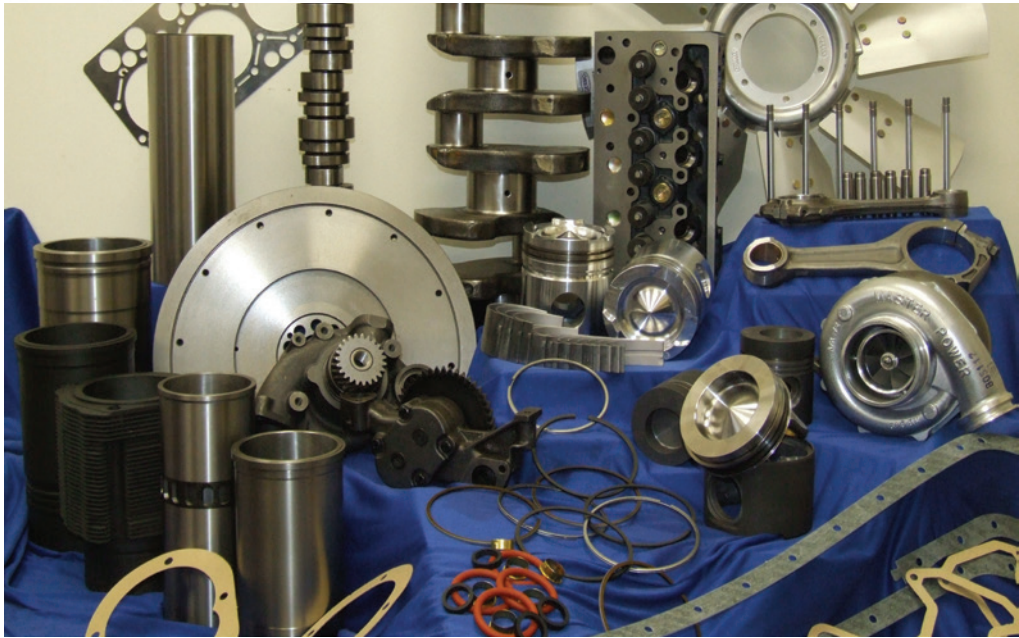
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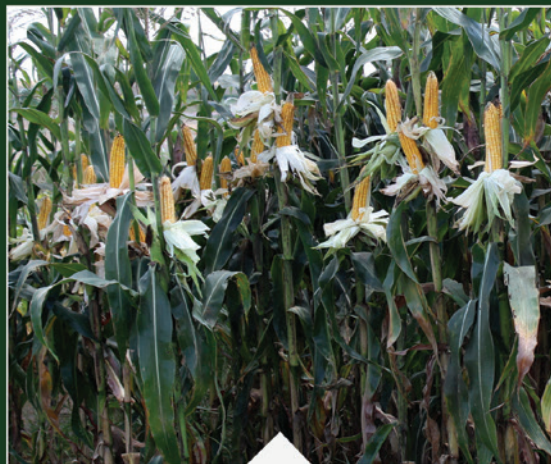
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- US 9614
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- Promoting the integrity of its members and building preferential trust for their products and services;
- Enhancing and protecting the interests of its members through effective engagement with government and organised agriculture.

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For more information on the Memorandum of Incorporation of the Fertilizer Association of Southern Africa or membership of the Association, contact us on [general@fertasa.co.za](mailto:general@fertasa.co.za).



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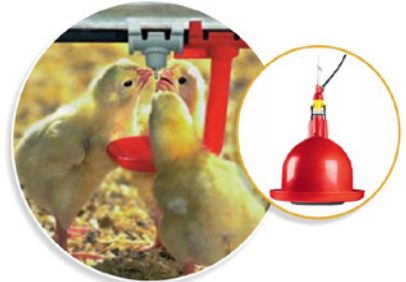


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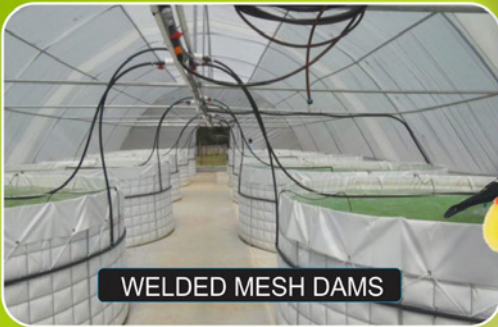


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**HEIGHTS FROM  
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## **COST EFFECTIVE**

These cost-effective reservoirs are easy to transport by a long wheelbase bakkie, which makes it easy to ship anywhere in the world.

## **10 YEAR WARRANTY**

Staalboer aims to give you some peace of mind by providing a 10 year warranty on its products against faulty material and/or workmanship.

## **BETTER WIND RESISTANCE**

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Staalboer is a Proudly South African company manufacturing steel panel reservoirs with capacities ranging from 15 000l to 4 000 000l and heights ranging from 1,3m to 4,9m.

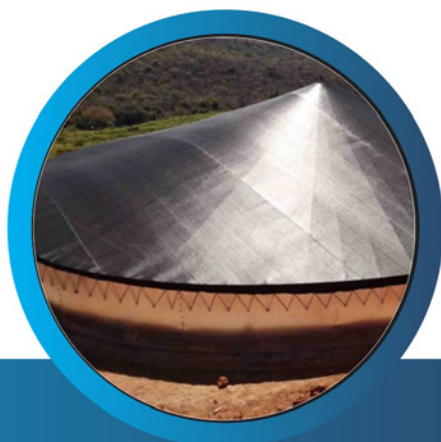
The structures are fully galvanized and have a life expectancy in excess of 20 years. Our dams are made from flat steel panels with stiffening rings at the top and bottom and in between as necessary. They have a more pleasing appearance and much better wind resistance than corrugated dams. These cost-effective reservoirs are easy to transport by a long wheelbase bakkie, and can be shipped anywhere in the world. The dams can be erected in minimal time by unskilled labour using only basic hand tools and they don't require a concrete floor. However, Staalboer can do the erection for you.

The liquid is contained by a polyester net-reinforced PVC liner with seams made by a high frequency welding process to provide watertight joints. The liner is suitable for potable water and a wide range of chemicals and liquid fertilizer. It carries a 10-year pro-rata warranty against sun damage.

They can be used in a broad spectrum of industry sectors including agriculture, aqua culture, mining, construction, general industry, fire tanks, domestic use, rainwater harvesting and swimming pools.

Our products include:

- Galvanised steel water tanks
- Water tank stands
- Standard water tank stand
- Guard towers
- Stand with gangladder & platform



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#### WIND POWER SYSTEMS

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#### WATER TREATMENT PLANT AND AC - SUBMERSIBLE BOREHOLE PUMPS

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14-RY / 16-RY / 20-RY:  
PLANT WEIDING OP  
SUIWEL & VEE PLASE



6-RY / 8-RY / 10-RY:  
DEKGEWAS IN WINGERDE  
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