

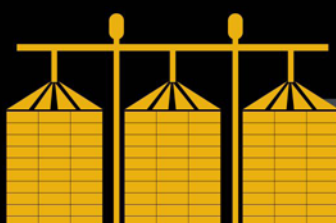
# AGRI FOODSA

**MAG**  
FREE SUPPLIERS GUIDE

APR - MAY 2020  
Vol 4 • No 6



**AGT**  
AFRICA  
FOODS  
From Producer to the World



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

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**

**ROSTSELMASH**  
Professional Agrotechnics

375 h.p / 280kW  
11 L Cummins turbocharged engine  
12 x 4 Manual transmission  
35 kmph Maximum speed  
170L/min Hydraulics performance  
927 L Fuel tank  
CAT IV rear 3-point hitch  
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**



38 Rokewood Street, Pomona, Kempton Park, 1619



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Dear Respected Advertiser and User. We have asked our CEO, Mabel, to communicate with you.

The lockdown regulations announced by Pres. Ramaphosa are seriously affecting each and every entity in our country – and the world.

Our businesses and clients (end users), now more than ever before, need all the exposure and support to maintain production and simultaneously improve on existing production methods in a sustainable manner. Your trusted medium Agrifoodsa continue to communicate indispensable relevant information to the farming sector. This past week has seen record setting traffic to our Facebook, Instagram and AGRIFOODSA.INFO website surpassing our highest weekly hits (page views) and sessions (visits to the site) to date.

**EXCITING NEW VALUE-ADDED OFFERS, IN THIS AND THE NEXT EDITION** - free to new and existing advertisers are being introduced to support our advertisers and entice our readers and users. To take advantage of these incredible value-added offerings our dedicated AGRIFOODSA Sales Executives are getting in touch with our valued advertisers. Our positivity will not be locked down, and we are tackling this challenge with determination and enthusiasm.

Your grit, services and service rendering and determination by EVERYBODY in the AGRI sector will be an important factor in beating the trying times we are living in. Continue tackling this challenge with determination and enthusiasm.

Our prayers are with each one of you and your loved ones  
The AGRIFOODSA Team

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**3 YEAR GUARANTEE**

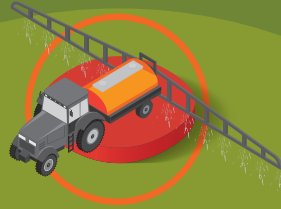
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# CONTENTS

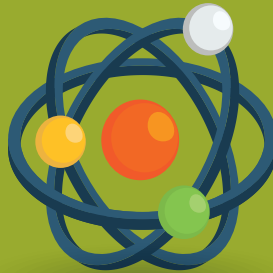
<b>4X4 ACCESSORIES   4X4 TOEBEHORE</b> Opposite Lock	Pages 80-81	<b>FUEL   BRANDSTOF</b> Auto Commodities	Page 60
<b>ACCESSORIES   BYBEHORE</b> Atlasware	Pages 38-39	<b>GENERATORS   KRAGOPWEKKER</b> Kirloskar Engines South Africa Mipower Sub Sahara Power Distributors	Pages 10-11 Page 28 Pages 76-77
<b>ADJUVANTS   BYMIDDELS</b> Nulandis Rolfes Agri	Pages 48-49 Pages 12-13	<b>GENETICS   GENETIKA</b> CRV Xseed	Page 37
<b>ANIMAL FEED   VEEVOERE</b> Yara Animal Nutrition	Page 33	<b>GRAIN STORAGE   GRAANBERGING</b> GSI Africa GSI Africa Noordwes Damme	Cover Strip Pages 54-55 Page 67
<b>ANTI-DIESEL THEFT   DIESELDIEFSTAL</b> Diesel Guard	Page 21	<b>GREENHOUSE TUNNELS   KWEKHHUIS TONNELS</b> Bell & Paton	Page 33
<b>BOREHOLES   BOORGATE</b> Torque Africa Explorations	Pages 42-43	<b>HORSE SADDLES   PERDESALE</b> Franco-C Saddlery	Page 57
<b>COMMUNICATION   KOMMUNIKASIE</b> Maxwell Technology	Page 70	<b>IMPLEMENTS   IMPLIMENTE</b> Rebello Agricultural Group	Page 41
<b>CROP PROTECTION   GEWASBESKERMING</b> Nulandis Syngenta SA	Pages 48-49 Pages 06,36,75	<b>INSOLATION   INSOLASIE</b> Technopol SA	Pages 44-45
<b>DEALERSHIPS   HANDELAARS</b> BB Menlyn Ford N1 4X4 Pat Hinde Toyota Springs	Page 46 Pages 82-83 Page 47	<b>INSPECTIONS   INSPEKSIES</b> PPECB	Pages 30-31
<b>DIESEL ENGINES   DIESELENJINS</b> Kirloskar Engines South Africa	Pages 10-11	<b>IMPORTS &amp; EXPORTS   INVOERE &amp; UITVOERE</b> LTG Freight	Pages 18-19
<b>DRILLING   BOORWERKE</b> Torque Africa Explorations	Pages 42-43	<b>INTERNET   INTERNET</b> Maxwell Technology	Page 70
<b>ENGINES   ENJINS</b> Magnum Power	Page 66	<b>INVASIVE TREE REMOVAL   INDRINGERPLANTEVERWYDERING</b> Tree Popper	Page 33
<b>FARMING EQUIPMENT   BOERDERY-TOERUSTING</b> GEA Africa	Page 79	<b>IRRIGATION   BESPROEÏING</b> KSB Pumps and Valves Senter360 Technologies	Page 74 Pages 68-69
<b>FEED ADDITIVES   VOERAANVULLINGS</b> Yara Animal Nutrition	Page 33	<b>LABORATORIES   LABORATORIUMS</b> Nvirotek Labs	Page 29
<b>FEEDERS &amp; SYSTEMS   VOERDER &amp; SISTEME</b> Pro Plastic	Page 61	<b>LINERS &amp; TARPS  VOERINGS &amp; SEILE</b> Tata Ma Tarps	Page 59
<b>FENCING   OMHEININGS</b> Lichtenburg Omheinings Materiaal	Page 37	<b>LIVESTOCK EQUIPMENT   LEWENDE HAWE TOERUSTING</b> Plasson SA Plasson SA	Pages 24-25 Page 57
<b>FERTILIZER (SPECIALITY)   KUNSMIS (SPESIALITEIT)</b> Rolfes Agri	Pages 12-13	<b>LIVESTOCK HOUSING   LEWENDE HAWE BLYPLEK</b> Technopol SA	Pages 44-45
<b>FERTILIZER   KUNSMIS</b> Nulandis	Pages 48-49	<b>LOGISTICS   LOGISTIEKE</b> LTG Freight	Pages 18-19
<b>FERTILIZER ASSOCIATION   MISSTOFVERENIGING</b> F.E.R.T.A.S.A.	Pages 26-27	<b>LUBRICANTS   SMEERMIDDELS</b> Auto Commodities	Page 60
<b>FLEET MANAGEMENT   VLOOTBESTUUR</b> Ctrack Fleet Management	Page 32		

<b>MANUFACTURING EQUIPMENT   VERVAARDIGINGSTOERUSTING</b>		
Agricon	Page 15	
<b>MATERIAL FLOW   MATERIAALVLOEI</b>		
Oli SA	Page 58	
<b>MECHANISATION   MEGANISASIE</b>		
Agricon	Page 15	
EHD Components	Page 40	
Electrolee	Page 03	
Feeler Africa	Page 02	
GEA Africa	Page 79	
Goldpack	Pages 50-51	
JBH Wheels	Page 78	
KSB Pumps and Valves	Page 74	
Loadtech Load Cells	Pages 72-73	
Magnum Power	Page 66	
Oli SA	Page 58	
Piket Implements	Back Cover	
Pro Plastic	Page 61	
Rebello Agricultural Group	Page 41	
Saxeni Agric	Page 09	
Senter360 Technologies	Pages 68-69	
Till Master	Page 61	
<b>MILKING SYSTEMS   MELKSTELSELS</b>		
GEA Africa	Page 79	
<b>MILLING   MEULE</b>		
RCL Foods Sugar & Milling	Page 56	
<b>NATIONAL PRODUCE REGULATOR   NASIONALE PRODUKTE REGULEERDER</b>		
Agricultural Produce Agents Council	Page 07	
<b>PACKAGING EQUIPMENT   VERPAKKINGSMATERIAAL</b>		
Goldpack	Pages 50-51	
Rebello Agricultural Group	Page 41	
<b>PARTS   PARTE</b>		
EHD Components	Page 40	
<b>PASTURE   WEIDING</b>		
Brasuda	Pages 16-17	
<b>PICKING BAGS   PLUKSAKKE</b>		
Tata Ma Tarps	Page 59	
<b>PIVOTS   SPILPUNTE</b>		
Senter360 Technologies	Pages 68-69	
<b>POULTRY   PLUIMVEE</b>		
Cobb South Africa	Page 20	
Reliance Poultry Equipment	Page 07	
<b>POULTRY EQUIPMENT   PLUIMVEETOERUSTING</b>		
Reliance Poultry Equipment	Page 07	
<b>POWER EQUIPMENT   KRAGTOERUSTING</b>		
Makita	Pages 52-53	
<b>PRECISION FARMING   PRESISIE BOERDERY</b>		
Agri Frequencies	Pages 34-35	
DFM Technologies	Page 08	
Electrolee	Page 03	
Farmtrack	Page 71	
<b>PROCESS AUTOMATION   PROSES OUTOMATISERING</b>		
Goldpack	Pages 50-51	
<b>PUMPS   POMPE</b>		
Magnum Power	Page 66	
<b>RESERVOIRS   OPGAARDAMME</b>		
Noordwes Damme	Page 67	
Staalboer	Pages 62-63	
<b>SECURITY   SEKURITEIT</b>		
Pathfinder ZA	Page 14	
Diesel Guard	Page 21	
<b>SEED   SAAD</b>		
AGT Foods Africa	Cover	
AGT Foods Africa	Pages 22-23	
<b>SHADE NETTING   SKADUNETTE</b>		
Plusnet   Geotex	Pages 64-65	
<b>SOLAR   SOLAR</b>		
Mipower	Page 28	
<b>SUGAR   SUIKER</b>		
RCL Foods Sugar & Milling	Page 56	
<b>TRANSPORT   VERVOER</b>		
BB Menlyn Ford	Page 46	
Ctrack Fleet Management	Page 32	
LTG Freight	Pages 18-19	
N1 4X4	Pages 82-83	
Pat Hinde Toyota Springs	Page 47	
<b>TYRES   BANDE</b>		
JBH Wheels	Page 78	
<b>VEHICLES   VOERTUIG</b>		
BB Menlyn Ford	Page 46	
N1 4X4	Pages 82-83	
Pat Hinde Toyota Springs	Page 47	
<b>WATER PUMPS   WATERPOMPE</b>		
Prima Engineering Services	Page 71	
<b>WATER STORAGE   WATERBERGING</b>		
Noordwes Damme	Page 67	
Staalboer	Pages 62-63	
<b>WATER TANKS   WATERTENKS</b>		
Noordwes Damme	Page 67	
Staalboer	Pages 62-63	
<b>WHEEL RIMS   WIELDOPPE</b>		
JBH Wheels	Page 78	
<b>WEIGHING INDUSTRY   WEEGINDUSTRIE</b>		
Loadtech Load Cells	Pages 72-73	

Lepidoptera...  
halt, stuit! 1, 2...



Stabiliseer die produk  
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Verseker beter  
bedekking



Beskerm die produk  
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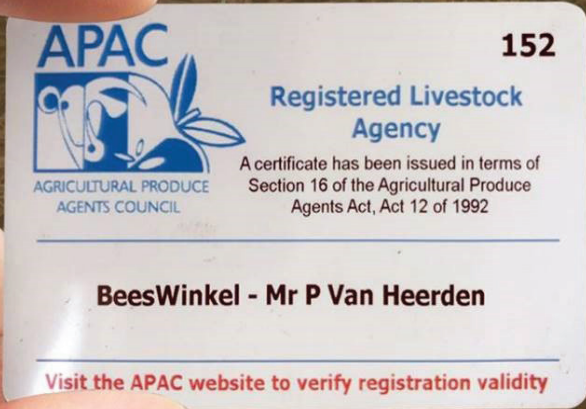
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AGRICULTURAL PRODUCE AGENTS COUNCIL



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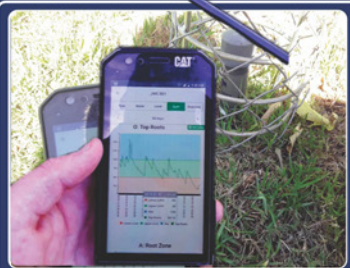


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For more information, please contact:

**Emje Ferreira** (Technical Info)  
c: 082 908 5004  
e: emje@saxeni.co.za

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c: 071 607 7929  
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# RELIABLE DIESEL ENGINES



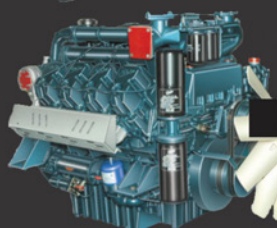
HA-Series: 14.0kW to 89.0kW



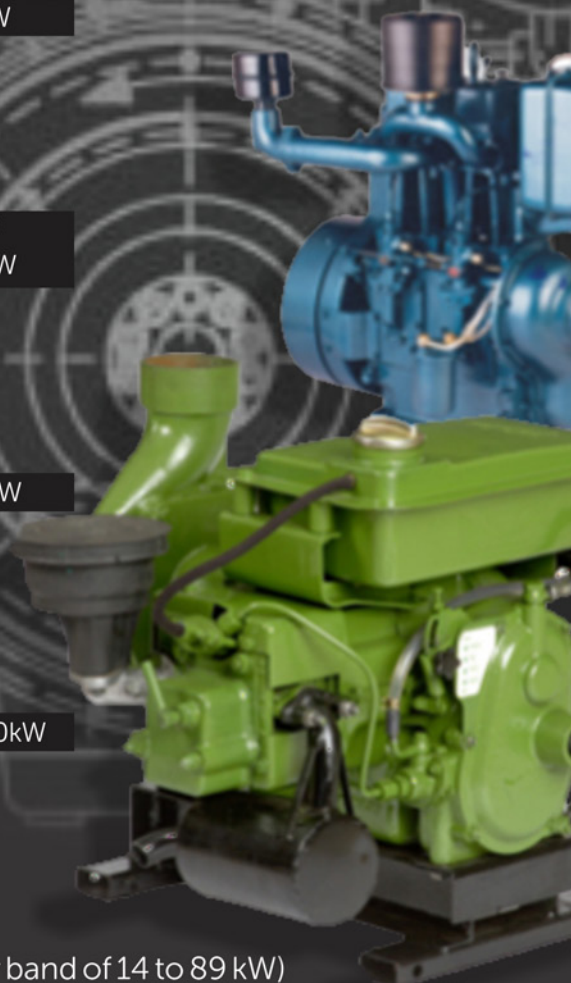
R-Series: 18.5kW to 118.0kW  
K-Series: 135.0kW to 160.0kW



SL-Series: 173.7kW to 222.3kW



DV-Series: 360.0kW to 889.0kW



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## 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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Reg. No. B5651 Act No. 36 of 1947



# CLEAN-OUT

Sukkel jy om seep in die hande te kry ?

CLEAN-OUT werk vir handewas teen 5ml/l water



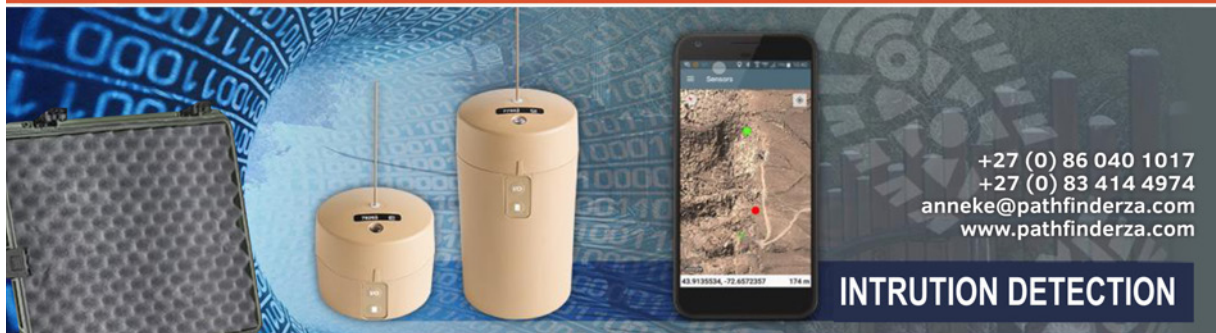
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**DETECTS - VEHICLE MOVEMENT**

**DETECTS - FOOT TRAFFIC**

**DETECTS - EQUIPMENT POWER STATUS**


### ALERTS



-  MONITORING
-  DETECTION +2min
-  DETECTION

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GET IT ON 

# AGRICON

**CAN YOU REALLY AFFORD NOT TO ADD VALUE TO YOUR SCARCE ANIMAL FEED RESOURCES?**

WE CAN ALL AGREE THAT GLOBAL WARMING HAS IMPACTED ON EACH AGRICULTURAL BUSINESS IN VARIOUS WAYS WHICH PUTS PRESSURE ON OUR RESOURCES. FOR THIS REASON, AGRICON PELLETING FOCUS ON SOLUTIONS TO SAVE ON FEED WASTAGE, BUT ALSO TO IMPROVE THE QUALITY OF AVAILABLE FEEDS SO THAT THE FARMER CAN GET MORE VALUE OUT OF HIS FODDER.

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As much as this sound like a great marketing campaign, it was proven over the past 26 years by Agricon. Our pelleting machines do not only save the farmer a minimum of 30% on wastage of loose feeds, but also leads to a 14.2% increased digestibility of starch. To add to these wonderful improvements in quality, we have seen how animals devour pelleted feeds which they would not touch in a loose form, because the taste improved during the processing.

Dust has become a reality in our environment and large amounts are present in our feeds which can cause all kinds of lung diseases. By pelleting feeds, dust is eliminated and feed is preserved for longer as it is highly compacted and sealed with a steam layer during the pelleting process. For these reasons, pelleted feeds can be stored more effectively and for longer periods.



So who is Agricon Pelleting? It is important in today's economy to select ethical businesses who can support their products and has a good reputation. Agricon is the World Leader in small to medium sized pelletisers because we produce these machines locally at the highest standards. Agricon believes so much in their workmanship, that we are prepared to trade in older machine and subsequently have a big demand for used Agricon equipment. We appreciate that it is a big investment, so our machines have to be applicable in various sectors. We can proudly say that any Agricon Pelleting machine can pelletise animal feeds, organic materials, some fertilizers and even renewable energy products. These machines can be supplied in Single-, Three phase, PTO driven and to a lesser extent in solar powered units.

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# WÊRELDKLAS GRAS VIR AFRIKA



Spesialiste in meerjarige somerweidingsgewasse asook winter- en somerdekgewasse.

*Panicum Maximum-kruis:*



*Panicum Maximum (witbuffel):*

## MOMBASA TANZANIA

*Brachiaria Brizantha*

## MARANDU



## BRACHIARIA MG-4

*Brachiaria Brizantha*



- » Hoë droë materiaal-inhoud.
- » Hoë droogte weerstandigheid.
- » Goeie hergroei na beweiding.
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- » Sekere grasse is koebestand.
- » Sekere kultivars is ideaal vir kuilvoer.

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# BRASUDA (PTY) LTD, SPESIALISEER IN MEERJARIGE SOMERGRASSE, ASOOK WINTER- EN SOMERDEKGEWASSE

Ons verskaf tans 4 hoofspesies grasse wat ons self ontwikkel en veredel  
in Brasilië en invoer na Suid-Afrika.

## 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

### PENNISSETUM (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

### MENGSSELGRASSE

#### 4 GAME

- Mengsel van 25% Smutsvingergras, 25% Rhodes, 25% Panicum Maximum Aries, 25% Bracharia MG-4
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- Vestig maklik
- 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.



Lees ook meer oor al die ander grasse wat ons invoer en besoek gerus ons webblad by  
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# LTG- Time to stay positive



As the world scuttles to contain which is probably the greatest global crisis of our lifetime, the question bodes how we as a company will respond to this reality. In the recent events of the COVID-19 pandemic which has hit the whole world we have to stay positive in these trying times. Businesses are taking financial strain and the weakening of the ZAR to the USD also hampers business.

However, we are a company that has proven we stick together, no matter what life throws at us. We at LTG remain positive and hope that our existing and prospective clients remain the same. We endeavour to still service the various industries i.e., agriculture, automotive, engineering, medical accessories, clothing and many more. Our offices remain open and we have implemented

strict guidelines in our offices and warehouses to ensure the virus does not infiltrate our work environment. We have the necessary contingency plans in place should it be required. Our staff are very dedicated, hard-working, valued employees whose communication skills with customers remain of the highest standard. Our client's needs are still number one and accurate feedback are still key.

Our air and sea freight shipments will carry on as usual and we are in close contact with our worldwide agents on any updates and this will be carried through to our customers.

We are still a proud Level 2 BBEE company who are also ISO 9001:2015 internationally certified.

With the above in mind, we're challenged by the Word encouraging us not to succumb to fear: 2 Tim. 1:7 – "For God has not given us a spirit of fear, but of power and of love and a sound mind". Our posture is led by faith and not fear. It's wise to protect ourselves against this outbreak, but we can have peace in our hearts knowing our future is safely in God's hands. God is bigger than the Coronavirus.

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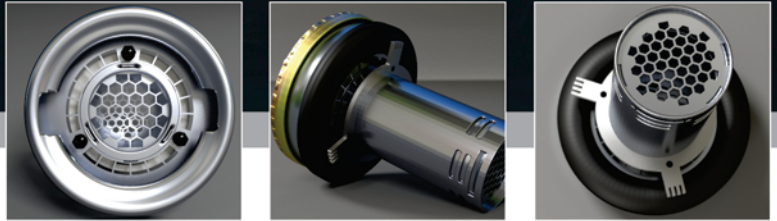


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'Icon' was developed by selection among survivors from old fields of 'Aurora'. Plants were selected on plant characteristics, superior fodder yield, reliable seed production and improved disease and pest resistance. In each cycle of selection plants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





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## **AT PLASSON SA, WE ARE PASSIONATE ABOUT AGRICULTURE, PASSIONATE ABOUT OUR CLIENTS AND COMMITTED TO PROVIDING YOU, THE LIVESTOCK FARMER, WITH THE RIGHT SOLUTION EVERY TIME**

From humble beginnings in 1964, Plasson has grown to be one of the most respected poultry and piggery farming equipment suppliers in the international agricultural sector.

Plasson SA, formerly known as PPA, is a wholly owned subsidiary of Plasson and was established when there came a realisation that the agricultural industry will become increasingly dependent on technology for successful and sustainable farming. Data shows that the number of farmers in South Africa are decreasing, while the average size of farms have substantially increased. Farmers are realising the importance of modernisation and technological innovation to continuously increase production, lower input costs and stay competitive in a global market.

Moreover, over the coming decade, meat consumption is projected to continue on an expanding path with the demand continuing to increase. According to the Bureau for Food and Agricultural Policy's (BFAP) most recent agricultural outlook, chicken consumption is projected to accelerate again compared to the recent past, expanding by 27% over the next ten years, whereas egg consumption growth is projected at 9% for the ten-year period.

Farmers need world-class agricultural equipment, technological innovation and expertise to remain successful in a growing and challenging industry. This is where Plasson SA fits in.

PPA was the very first South African poultry equipment supplier to design and build panel housing in South Africa, a venture that proved so successful that panel housing soon became the industry standard in the country. Plasson Livestock started off with the now globally recognised Plasson Bell Drinkers, then developing the class-leading

Nipple Drinking Systems and later adding automatic feeding equipment.

Plasson completes the package of equipment with a comprehensive Controlled Environment solution to suit any surrounding climate. Plasson SA is the official authorised sales and service agent for SKOV in Africa and specifically South Africa. SKOV is an industry leader and a world-renowned name on the international market for climate control and production monitoring equipment and software.

Plasson SA works alongside all leading poultry house construction companies in the industry, whether for broiler production, broiler breeders or commercial layers. Our wide range of feeding, drinking and ventilation equipment can be installed into, and can work with, any of the house designs and building types available. The installation of our range of equipment can also be adapted to fit any house type.

We offer a range of world-class nipple drinker systems for broilers and breeders which allow you to choose the nipple and flowrate tailored to your poultry production needs. Plasson's watering systems are customized to meet the demands of all climate conditions and production environments, while our automatic flushing system enables drinker line flushing with full control of the flushing program via a Wi-Fi application.

Plasson Livestock also has wholly owned subsidiaries in Brazil, France, China, and Mexico, and selected distributorships and agencies that have been set up in key locations all over the globe. Efficient and committed client service, including aftersales service and ongoing support of our lifetime customers, are part of our offer that sets us apart from the rest.



# 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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NviroTek Laboratories is an independent national, world class analytical facility for Agriculture in Southern Africa which was established in 2008. The best equipment and techniques available have been utilized to ensure adherence to international standards for quality and turn-around time.

The building which is situated in Hartbeespoort, North West Province, has been designed within environmental and safety standards, to effect optimal flow and processing of large sample volumes. During the benchmarking exercise, formal associations have been established with several prominent North-American agricultural laboratories.

The laboratory follows recognized methods of analyses and is ISO/IEC 17025:2017 accredited (accreditation number T0822).

The company employs experienced staff – the technicians jointly have more than 70 years of experience in agricultural analyses.

This independent laboratory offers a wide range of analytical services such as:

- Soils and Growth mediums
- Leaves, Fruit and Compost
- Environmental and Water
- Fertilizer and Limes
- Animal Feeds and Forage
- Residues
- Nematodes

to the broader agricultural sector throughout Southern Africa.

NviroTek also offers analyses for soil health evaluation in the Solvita test as well as others based on the methods of Cornell University.

Our company has also acquired the license to do nutrient uptake tests on plant petioles.

Microbiological analyses of water, foodstuffs, beverages and swabs are done at our newly acquired laboratory in Wellington, namely Wynland Laboratories who are also SANAS accredited - ISO/IEC 17025:2005 with certificate number T0349.

NviroTek is committed to producing reliable laboratory data which gives direction to the foundation of successful farming.

WE ARE AN INDEPENDANT, ACCREDITED WORLD-CLASS LABORATORY. CONTACT OUR EXPERIENCED PERSONNEL FOR MORE INFORMATION:

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| Francois Reeders     | : +27 (0) 82 889 0133<br>Soil, lime, fertilizer & water |
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## Fostering confidence in South African Perishable Produce for over 90 years.

**The Perishable Products Export Control Board (PPECB), South Africa's official certification agency for the export of perishable products, celebrates its 94th year of existence this year.**

Established in 1926 out of a need for an authority to regulate the export of perishable products, the PPECB was originally mandated to determine which shipping companies would be used for export and which perishable products would enjoy priority when assigning space aboard vessels.

Since its establishment the PPECB's role has changed dramatically, however it remains a key role-player in the export of perishable produce from South Africa. Cold chain services provided by the organisation include the inspection and approval of equipment such as containers, specialised reefer vessels and cold stores; overseeing loading processes and en-route temperature management of produce. In addition, the PPECB has been appointed as a third party to act on behalf of the South African

Maritime Safety Authority (SAMSA) to approve shippers using method 2 to verify the gross mass of a packed and sealed container.

This is in line with the mandatory amendments to the International Convention for the Safety of Life at Sea (SOLAS) Chapter V1, Part A, Regulation 2 which came into force on 1 July 2016, placing a responsibility on shippers to provide the verified gross mass of a packed container to the carrier or their terminal representative prior to being loaded on board a ship.

In addition to delivering cold chain management services, since 1991 the PPECB has provided quality inspections on perishable products destined for export. Products approved for export carry the passed for export stamp, regarded as a symbol of quality assurance to clients and consumers around the world.

Furthermore, the PPECB's food safety services ensure that food business operators comply with the standards regarding food hygiene and food safety of regulated agricultural food products intended for export. The PPECB's laboratory also provides analytical services which include mycotoxin analysis, fats analysis, dairy testing and maximum residue level testing of pesticides in a myriad of matrices.

By combining over 90 years of expertise and a range of services the PPECB seeks to enhance the credibility of the South Africa export certificate and support its customers to become the preferred suppliers of perishable products world-wide.

**For further information on the PPECB please visit [www.ppecb.com](http://www.ppecb.com) or call 021 930 1134.**



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The advanced system can always be updated for new species and new mutations.

Quantum entanglement is used as a medium to transmit the frequencies very accurately to any location, anywhere in the world instantly, and it can be tested to arrive on location. This is done with a quantum transmitter, and a separate transmitter is used for every project, to stay on 24/7.

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The Crystal technology can be utilized on a wide spectrum of applications:

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- Stimulating soil organisms and plant growth, improving yields and sugar content.
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- Killing of algae in ponds, dams and swimming pools.
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## PEST VIBES

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Insect control with frequencies is much more effective than with chemicals and much cheaper, good for the environment and completely safe for all other species, the full spectrum treatment cost only R1200 per hectare per year.

Plague animals and tics are controlled at R10 per hectare for over 1000 hectare farms.

Excellent results have been seen on a Wheat field that went yellow due to nitrogen shortage, and within 1 week the green color and nitrogen shortage was restored with frequencies.

On a milk trial the feed concentrates were reduced with 30% without loss of production and in a trial with laying hens the laying mesh was replaced by maize without reduction in egg production.



*A field with Citrus trees, two photos taken 4 weeks apart, you can see the difference, and, in the background, older trees can be seen with much darker green leaves.*



*Insect numbers on False Codling moth, stinkbug, fruit fly, borers, thrips and macadamia borers etc. are much lower than on chemical treated areas.*

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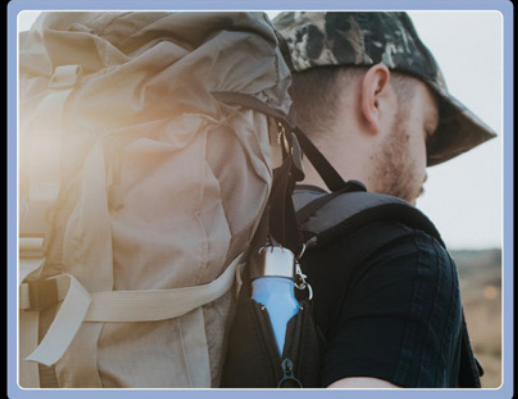
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**KEEPS WATER HOT FOR 18 HOURS AND COLD FOR 24 HOURS!**

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Atlasware is an I.S.O. certified company. It took a lot of innovative research & development to finally arrive at the result we would be satisfied with. A result we could be proud of. The result we know you will love because they're selling like the proverbial "hot flasks"!

Our multi-purpose flasks will make your life more environmentally friendly by replacing harmful materials and plastics with a lifelong stainless steel alternative. An immensely strong, versatile, convenient 'take-it-anywhere' flask that will keep liquid hot or cold around the clock and more!

With its durable properties and lifetime guarantee, it's the only bottle you'll ever need!

"Next to the cell phone, this is the best invention I have ever seen! I have left cold water in the bottle, in my car, all day long in 125 degree weather in Dubai, UAE and to come out at the end of the day to find my water still cold? Unbelievable! We can't afford not to have one!"

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



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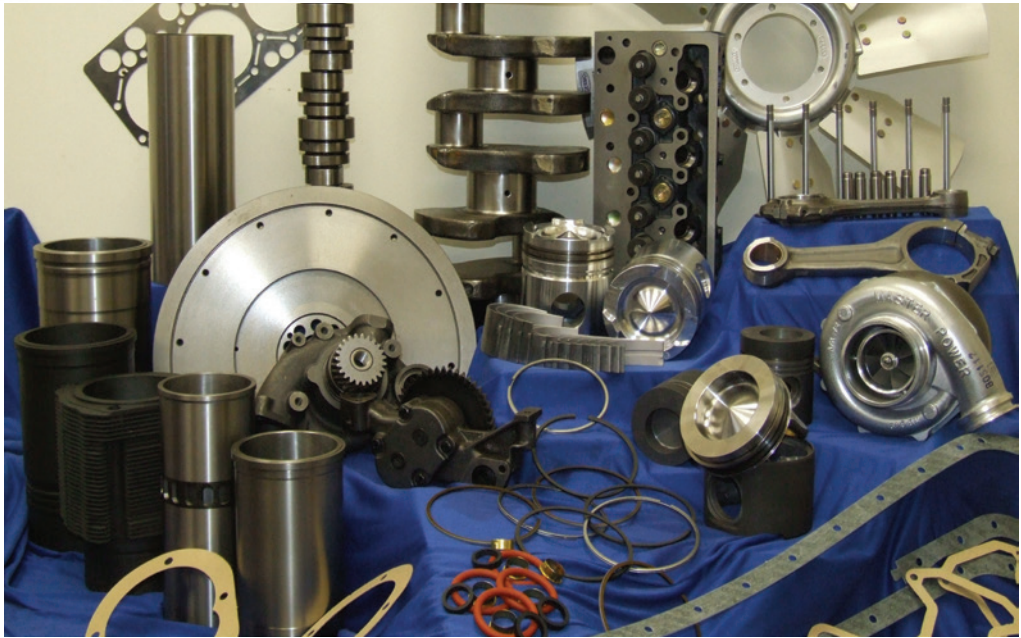
**Atlasware is distributed all over South Africa and can be found at various outdoor shops as well as independent resellers. Find us on Facebook & Instagram @AtlaswareSA.**

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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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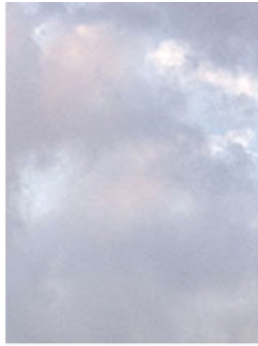
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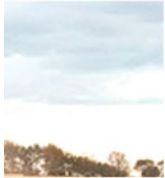
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# NULANDIS

## 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.

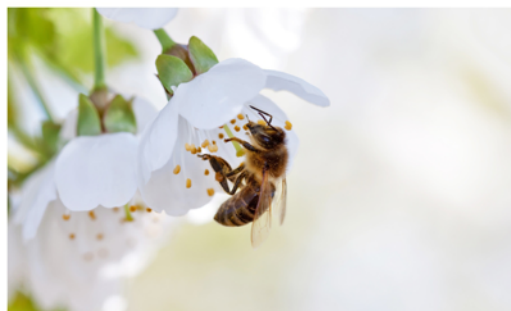
The Nulandis approach is to work hand in hand with the farmer to systematically address each point of influence in the growing of crops in a sustainable and responsible manner. Many of the tools and techniques simply unlock nature's potential and the genetic potential of the crop.



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.

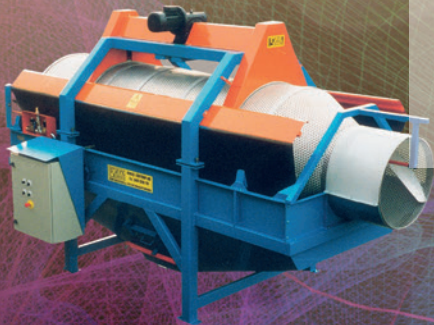
Nulandis Precision Sciences helps unlock a farming operations' full potential through the use of precision agricultural services to identify the most suitable soil for crop production and plan other operations around this. On existing farms, NPS first determines the cause of a particular problem and 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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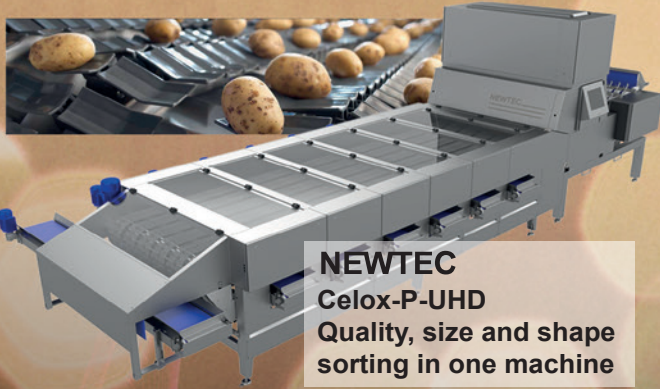


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Charge time:  
**22 min!**



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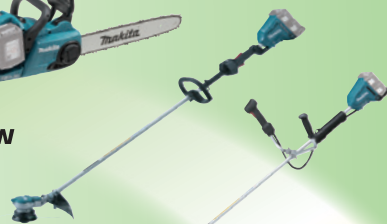
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Petrol models

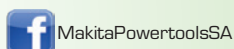


**CORDLESS HEDGE TRIMMER**  
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## PLANNING A FARM SYSTEM

The demands of farming are never ending. The risks are high. You need grain system solutions that maximize productivity and minimize downtime. We, GSI are driven to provide top-of-the-line products that will protect, condition and move the grain you work so hard to produce.

When planning an on-farm grain storage system, one of the most important steps is taking into account the location, accessibility and future expansion. You should always assume there will be growth in yield and capacity and that means that having a well-thought out plan that factors in growth and future technology changes is key. When choosing a location for your farm system, access to easy travel routes is essential. In an ideal situation, your system would be located right off a state highway, with access to diesel and three phase power and still in close proximity to your fields.

A highway will allow you to haul grain year-round without any road restrictions. If there isn't a highway nearby, it is not a deal breaker; just know that more road restrictions can occur, hindering your ability to haul grain. Three phase power is ideal because it allows you to operate much larger machines and motors. For smaller farm systems, single phase might work, but understand that as your farm system gets bigger, you will need more power and single-phase power might not be strong enough to supply it.

Having a farm system near your field will reduce transportation time and fuel cost. Ultimately, it can lead to a cut in number of trucks you need.

When planning a farm system, you should assume that there will be growth in yield and capacity; always plan on expanding, and leave space for additional bins.

When your capacity increases, plan on adding a higher capacity dryer or more in the future.

Do not assume that your wet holding capacity will always be adequate. Once you start drying more grain, an increase in your wet bushel storage capacity will be a necessity. Create a traffic pattern for separate dumping and loading stations to

increase efficiency. Being able to load and unload grain simultaneously will decrease your total harvest time, thus saving you money.

The different types of grain you plan on storing will determine the number of bins you'll need. If you are storing three types of grain, even though the grain sizes will vary, you will still need at least three bins. If you want to limit risk, do not put all of your grain in one tank. For example, if you have 5000mt of maize, don't put it all in one bin. Instead, invest in two or three smaller bins. If some of the maize spoils you will only lose a fraction of your harvest as opposed to all of it.

A proper Drying system is a must. Choosing a system that can provide high quality grain at harvest capacity and allows harvest in a reasonable time is more important than ever. A dryer is the critical component in securing the correct moisture content for storage.

Choose the drying system to match your farms needs. Future expansion of both drying, cleaning and wet storage must be a part of the initial design.

Remember, drying to the proper moisture is key to safe storage. Storage life is affected by grain temperature but grain moisture is still the primary determinant for storage life. With maize, 15% grain moisture is ideal to store until June, 14% to next fall, and 13% for longer storage.

A storage system is of little value if proper sanitation and loading practices are not followed. Make sure you know your rate of return. There are specialized ROI (Return on Investment) tools to help you and your banker understand what income will be from storing and drying grain. The location of your farm system plays a factor in determining your ROI, i.e. access to diesel and availability of hard roads can improve your return rate.

When building your farm system, always make sure you have a well thought out plan anticipating growth and future technology changes. A poor designed farm system can be as harmful as not having one at all.

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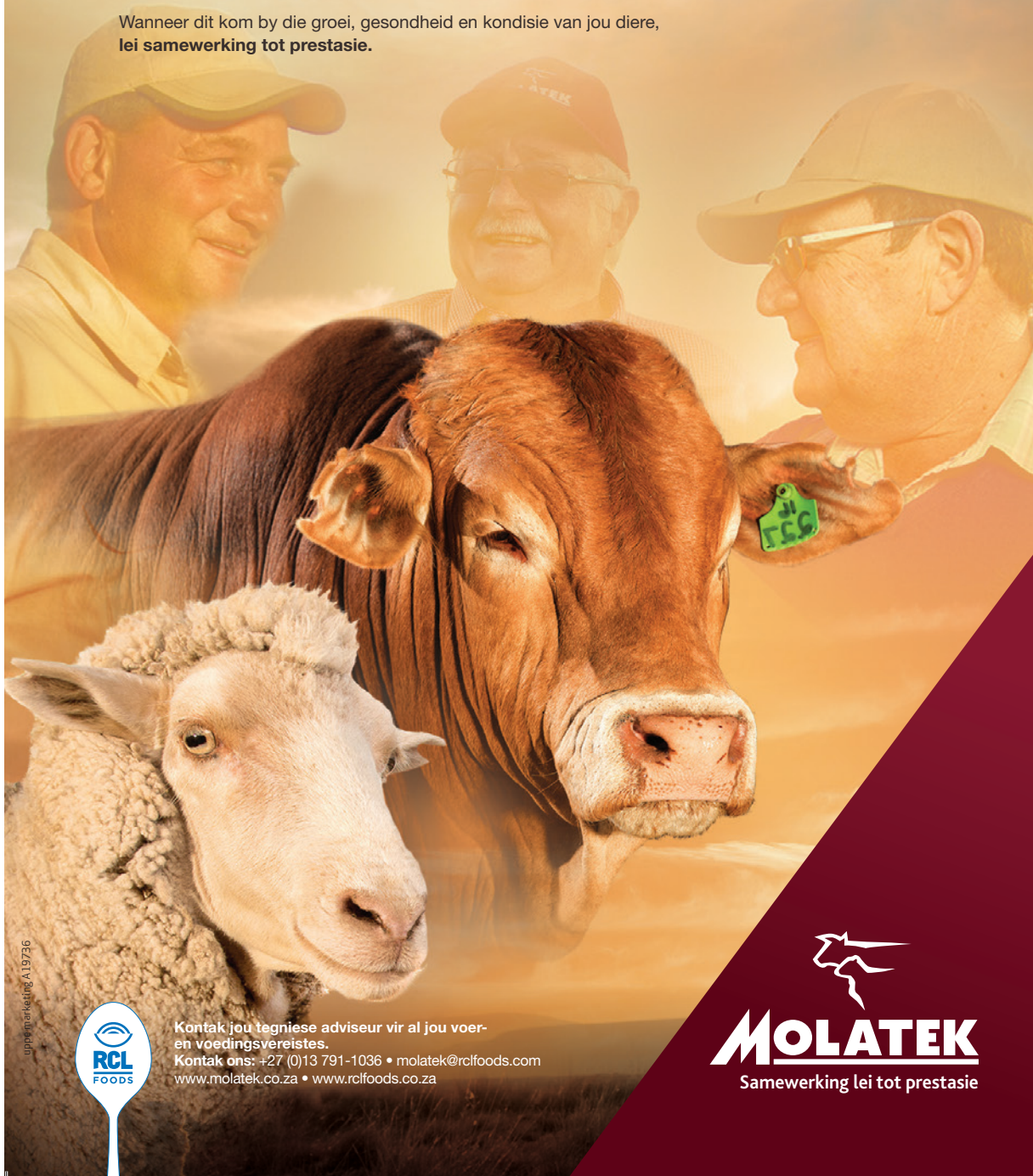


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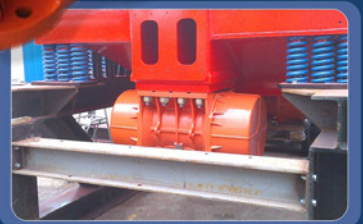
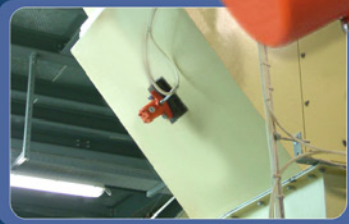
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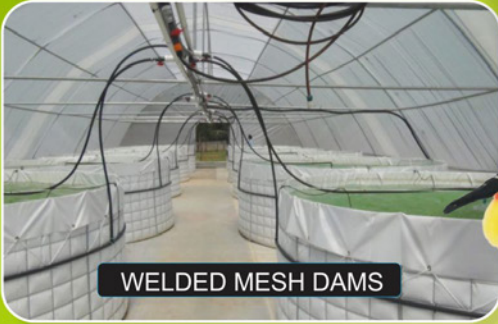


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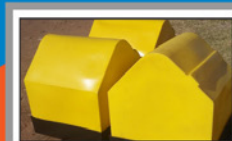
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The structures are fully galvanized and have a life expectancy in excess of 20 years. Our dams are made from flat steel panels with stiffening rings at the top and bottom and in between as necessary. They have a more pleasing appearance and much better 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:

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A division of Master Plastics Group

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



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# 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.

PlusNet/Geotex has achieved high levels of business with its well proven reputation for quality and service and maintains the ISO 9001:2015 quality standard. This ISO 9001 quality management system will always be endorsed, now and in the future.

## Agricultural and Decorative Net

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.

## Business

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'

initiatives, the wide range of PlusNet netting offers the client great opportunities at the best possible price.

## Mini Net Tunnels

Mini Tunnels are the quickest hassle-free infrastructure available when endeavouring to open a micro agricultural business. Net tunnels are the ideal portable, affordable do-it-yourself infrastructure for instant shade for your livestock or small gardening business. Shade tunnels come in various sizes and are simple to assemble.

## PlusNets' Promise

PlusNet is more than just a shade net manufacturing company. We offer a wide range of functional netting to protect what is important to you. If we don't have what you need in stock, we shall schedule your order and make it up for you!



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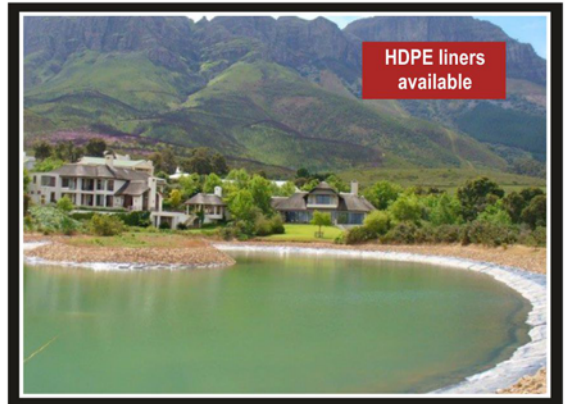
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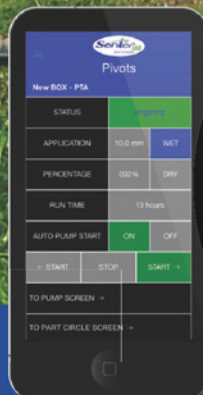
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Die SENTER360 spilpunt wat sedert 1994 in Suid-Afrika ontwerp en vervaardig word, is bekend vir sy uitmuntende kwaliteit en sterkte bo industrie-standaarde. Vir meer as vyf-en-twintig jaar is ons al deel van die besproeiingsbedryf. Ons het groeiende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

SENTER360 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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# Satellite broadband internet

Reliable Internet, no matter where you live!



- Reliable, Fast internet connectivity anywhere in SA
- Fast Internet for browsing, e-mail, whatsapp and social media
- Cost effective, Fast and Reliable connections
- Unlimited, Capped or Fully Uncapped Options available at download speeds up to 35 Mbps
- Solutions that support VOIP and Streaming applications
- No Daily limits or Daily Fair Usage Policies
- Quick installation time lines
- Paratus SA also provides MPLS, Fibre and Licensed Wireless Solutions

## JUST LAUNCHED!!

### NEW MAX UNLIMITED - HIGHSPEED CONSUMER SATELLITE INTERNET

Three options available:

Up to 5 Mbps, 10 Mbps and 20 Mbps Download Speeds  
20/6 Max Unlimited @ R 1999-00\* per Month (VAT incl.)  
Fast Enough to support Streaming Services

\*excludes hardware, travel, installation | \*Terms and conditions Apply



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## RELIABLE, ALWAYS-ON INTERNET CONNECTIVITY

How crucial is your internet connectivity to you?

Access to reliable, always-on, internet is becoming more of a necessity than a basic requirement. There are many local terrestrial alternatives available, whose costs are low, but cannot provide the required reliability, due to current and future load shedding, as well as vandalism and theft.

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.



CONTACT PARATUS SA FOR MORE INFORMATION ON HOW YOU CAN BENEFIT FROM BEING RELIABLY CONNECTED:  
012 940 0660 OR VISIT [WWW.MAXWELL.CO.ZA](http://WWW.MAXWELL.CO.ZA)

# GEVORDERDE TEGNOLOGIE

Ons stel 'n nuwe standaard vir Boorgatsilinders en Vlotterkleppe

Alle produkte word van  
Vlekvrye Staal vervaardig

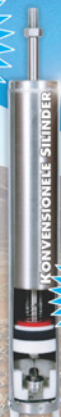


Missie:

"Verbind om waarde toe te voeg tot landbou deur gehalte produkte te verskeaf vir elke toepassing."



GEEN FORSKOP!



VOETKLEP GEEN ONDERHOUD



GEEN SKROEFDRAAD KOPPELINGS



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MAXI-FLOAT



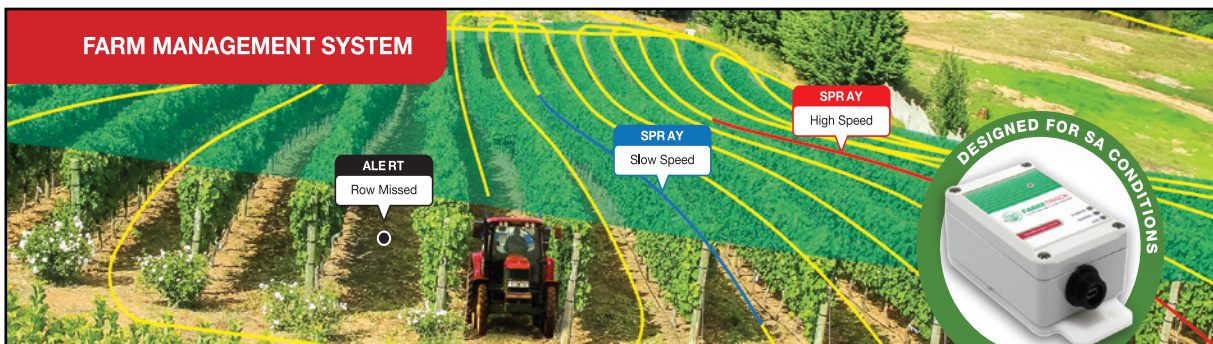
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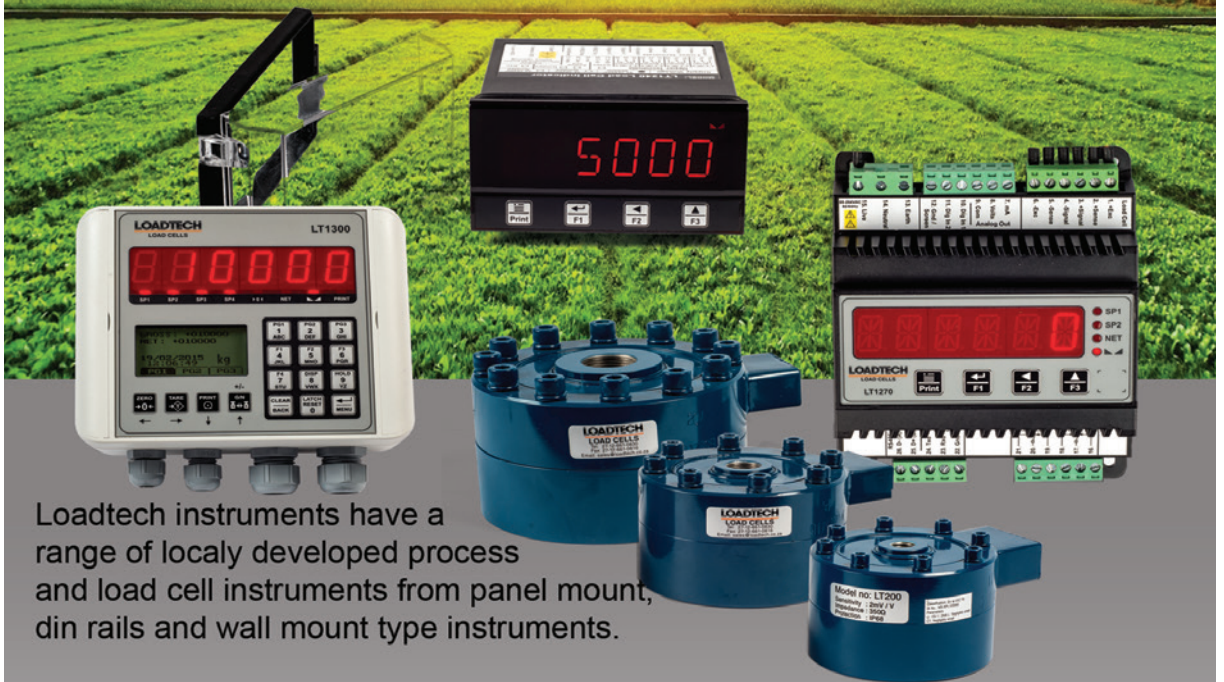
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# LOADTECH LEADS IN SUPPLYING QUALITY WEIGHING COMPONENTS

## OUR VALUES:

### **HONESTY, INTEGRITY, FAIRNESS, RESPECT!**

Loadtech is one of the best-known manufacturers and suppliers of load cells in Southern Africa. When it comes to specialized weighing solutions, the company has over 50 years collective experience. Founded in 1987, Loadtech Load Cells has firmly established its reputation as a leader in quality load cell manufacturing.

Whether your requirement is for custom weighing systems, applications such as force measurement, centre of gravity determination or crane weighing systems, Loadtech will provide an innovative and economical solution, staying by your side long after the sale.

Loadtech Load Cells has an accredited explosion protection rating on various locally manufactured load cells.

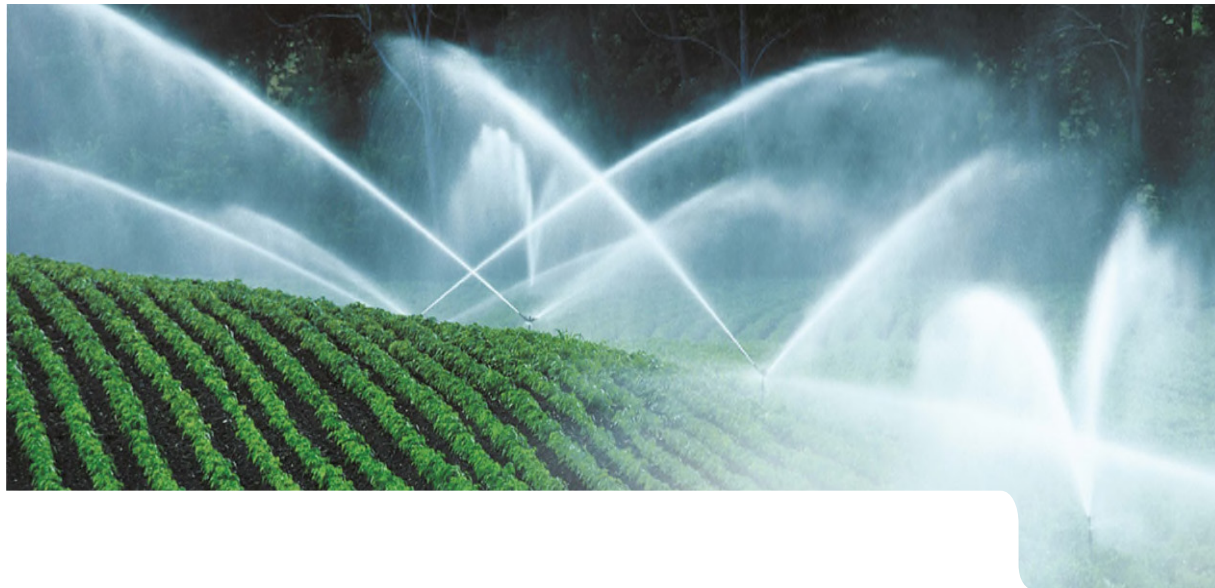
Technical application assistance with regard to your specific needs, and attention to detail are unmatched in the industry.

The combination of own manufacture, and the extensive range of products from Vishay transducers, Vigia, Datum and Nobel, allows Loadtech Load Cells an unequalled degree of flexibility in offering weighing solutions.

Loadtech products range from robust industrial load cells, to the highest accuracy commercial load cells. The range extends from 300g to 500 ton with accuracies from 0.2% to 0.03%, most of which are available from stock. Where standard load cells are not suitable, special load cells, or force sensors are designed and manufactured to fit your specific needs.

**We have the solution... Use the phone – it's quicker!**  
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**E-mail: [sales@loadtech.co.za](mailto:sales@loadtech.co.za)**





## **When every drop counts – KSB water pumps is what you need.**

Irrigation pumps are used to pump water from a lower to a higher level from which the water then flows through channels to the fields requiring irrigation (lift operation) or to raise it to the required pressure head so that it can be sprayed on the fields via piping systems (sprinkling). The heads involved range from approx. 1 m for normal lift operation to 40 m for sprinkling. In special cases, heads exceeding 100 m may be required.

The flow rate varies according to the area to be irrigated, the nature of the soil, the type of crop cultivated and the climate. A quantity of 1 to 2 litres per second and hectare can be assumed as a rough value for orientation.

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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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# **SUB SAHARA POWER DISTRIBUTORS STRIVES TO PROVIDE YOU WITH THE BEST QUALITY PRODUCTS AND SERVICES**

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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## **WE SPECIALISE IN:**

**ALTERNATORS**

**BATTERIES**

**FUEL CLEANING**

**GENERATORS**

**FUEL MANAGEMENT**



**[WWW.SSPD.CO.ZA](http://WWW.SSPD.CO.ZA)**

For any queries please contact Andrew Scharneck: +27 (0) 11 493 0773/4 or email their marketing team at: [info@sspd.co.za](mailto:info@sspd.co.za) | [marketing@sspd.co.za](mailto:marketing@sspd.co.za)

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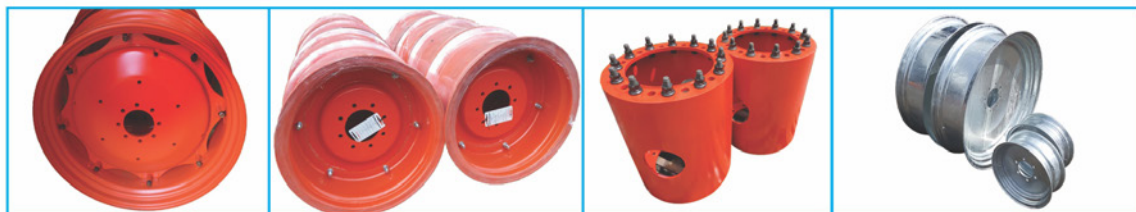
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# YOUR ADVENTURE STARTS HERE



**opposite lock**  
4WD & Vehicle Accessories



### PIAK NON LOOP BAR

Designed for fitment with no bumper cut if applicable to the vehicle. Fitted with either LED or Halogen fog lamp. Multi fold wing design including taper for optimum strength & approach angle.



## PREMIUM SOLUTION FOR YOUR OFF-ROAD REQUIREMENTS



### TUNGSTEN WINCHES

Textured UV and corrosion resistant finish, completely waterproof, corrosion resistant hardware and fittings, heavy duty sealed high amperage contactor controller and multi segmented cam activated brake.



### WIZERD

A one-stop-shop for Suzuki off-road vehicles customizations. Best known for work on the Suzuki Jimny and the Suzuki Grand Vitara.



### OUTBACK 4WD INTERIOR

Outback 4WD interior roof consoles are made to be a part of the vehicle and not apart from it. The product includes LED reading lights and a drop down locker box for storage. 2-way radio inserts are available for non standard DIN size radios.



### LIGHTFORCE DRIVING LIGHTS

Australian designed and manufactured Lightforce has built a formidable reputation as a global leader in innovative design and excellence in the manufacture of high performance and durable driving lighting systems.





## BULL BAR

- Be protected with a LAS Bull bar.
- Unique grill angled Cato strap design.
- Includes fog lights for low light conditions.
- LED indicator and park lights for extended lifespan.
- Bull Bar corner under plates and centre plate as standard.
- Winch compatible up to 12000lbs low profile winch.
- Increases your vehicles approach angle.
- Round jacking point (also assists in self recovery)
- 10mm dual recovery points for a safe recovery.
- Light and grill protection.
- Spotlight wiring holes predrilled to have your spotlights fitted neatly.

## UNDERBODY PROTECTION

LAS Bash plates are made out of 3mm Domex 550 steel. They are E Coated for longer protection against rust. A grey powder coating is added to finish it off. The LAS Bash is lighter than your everyday 4-5mm mild steel bash plate. The 3mm Domex 550 has the same strength as 5mm mild steel bash plates, but weighs significantly less. Apart from the sump guard, LA Sport makes a wide variety of underbody protection and is a one-stop-shop for all 4x4 needs.



## PROFENDER SUSPENSION

LAS Profender twin tube shocks are designed with a big piston and a big shaft that provides excellent performance suited for heavy duty use. The perfect specification allows the driver to enjoy a more comfortable and improved ride.



## SNORKEL

- First Full Replacement snorkel.
- All our Snorkels are made from LLDPE (Linear Low-Density Polyethylene) ready for the harsh African sun and bush
- Increases wading depth
- Increases air filter lifespan with a higher intake
- A must for the serious overlander
- Available for the V6 and V8 70 Series



## LIFTING KITS

LAS Pro Leveling Available for: Toyota Hilux Revo and Vigo, Fortuner, Ford T6.

The Wheel spacer is a device that fits between the wheel and the hub to increase the vehicle wheel track width. By increasing or widening the track of your vehicle, the road holding characteristics improves drastically due to an improvement of the vehicle's centre of gravity.



FOR MORE INFO AND STORE ENQUIRIES

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# FIT YOUR LAND CRUISER WITH A 3.0L D4D ENGINE!

THE N1 4X4 D4D CONVERSION CONSISTS OF:



## D4D Engine

- ✓ Compression Test
- ✓ New Water Pump Timing Belt Kit
- ✓ Injectors Checked
- ✓ New Fan Belt
- ✓ Standard Turbo
- ✓ Front Mount Inter-cooler Kit
- ✓ Low Mileage Engine (60 000km - 100 000km)

## D4D Conversion also includes

- ✓ New Custom Built Harness
- ✓ New MOTEC ECU
- ✓ New Gearbox Adaptor Plate
- ✓ New Clutch Kit
- ✓ Diff Ratio (4.3 to 3.9)
- ✓ New DE GRAAFS S/Steel Exhaust System (76mm)
- ✓ All labour (in our **RMI** Certified Workshop)

N1 4X4's 1500m<sup>2</sup> **RMI** Certified Workshop can also provide you with ongoing services at 10 000 km intervals.



6 Months **RMI** warranty on workmanship. This D4D Conversion includes all aspects of the Engine as well as full Fuel and Lubrication Service. A Comprehensive Assessment of your Land Cruiser is available on request and is not included in the D4D conversion.

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# OPSOEK NA LAND CRUISER PARTE?



[www.N14x4.co.za](http://www.N14x4.co.za)

N1 4x4 is een van Suid-Afrika se grootste verskaffers van nuwe, herboude en gebruikte onderdele.

Ons verskaf onderdele, veringstelsels, toebehore, herboude enjins, ratkaste en ewenaars, asook eksklusiewe handelsmerkklere, -skoene en egte leerprodukte. N1 4x4 bied verder goeie kwaliteit Land Cruiser bakwerkvervangingspanele teen bekostigbare pryse aan.

Ons eksklusiewe handelsmerkklerereeks het iets vir die hele gesin. Daar is 'n hele paar nuwe toevoegings tot die reeks hierdie jaar: Vir die kinders is daar pette, ma en dogter kan wegstap met dieselfde pienk vellies en pa kan dieselfde soort pet dra as die Cruiser-reeks

waarin hy rondrits. Kyk gerus op ons webwerf vir aanlyn bestellings: [www.N14x4.co.za](http://www.N14x4.co.za)

N1 4X4 is bekend vir die vervaardiging van gespesialiseerde mynvoertuie asook wildbesigtigings voertuie en spog met 'n ten volle toegeruste RMI-gesertifiseerde werkwinkel waar jy herstelwerk, onderhoud en herbouings kan laat doen.

Kom maak gerus 'n draai by enige van ons twee takke en geniet 'n warm koppie koffie. Ons hooftak is geleë langs die N1 snelweg in Pyramid en ons ander tak in Montana, Pretoria.

Ons hooftak huisves 'n Land Cruiser museum wat bestaan uit die '20, '40, '42, '45 en '55 reekse. Hierdie ou modelle is baie gewild onder Land Cruiser geesdriftiges vir herstelwerk en om weer nuwe lewe in jou Cruiser te blaas.

By N1 4x4 hou ons 'n groot verskeidenheid onderdele aan vir die herstel van jou Land Cruiser. Die verkoopsvertegenwoordigers is kundiges op hulle gebied met jare se ervaring wat gereed staan met advies en wenke om die herbou van jou Cruiser pynloos te maak.

**KONTAK ONS GERUS VIR ENIGE NAVRAE!**

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**ONTHOU! N1 4X4 IS JOU LAND CRUISER EN TOYOTA 4WD  
EENSTOPWINKEL VIR ONDERDELE EN MEER!**

# Piket

## Implemente



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## NO TILL DEKGEWAS FYNSAAD PLANTERS

- Modelle: 6-Ry / 8-Ry / 10-Ry / 14-Ry / 16-Ry / 20-Ry
- 3-Kompartement saad, fynsaad & kunsmis kis
- Plant van dekgewas in wingerde & vrugteboorde of weiding op suiwel & vee plase



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



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



NO TILL: PLANT IN  
GEVESTIGDE WEIDING



MAKLIK & VINNIGE  
KALBRASIE

## EKONOMIESE NO TILL MIELIEPLANTERS

- Modelle: 1-Ry / 2-Ry / 3-Ry / 4-Ry / 5-Ry / 6-Ry
- Bestaan uit 'n 3-kompartement saadkis vir aanwending van fynsaad, saad & kunsmis
- Gebruik: Mielies, bone & klein graansoorte
- Ekonomies



EKONOMIES



GEBRUIK: MIELIES,  
BONE & KLEIN  
GRAANSOORTE



VERSTELBARE  
DIEPTE BEHEER



NO TILL: PLANT IN  
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