



**8th Edition  
2023**

**Ternium Expoagro  
Award for  
Agro-industrial  
Innovation**

# THEY INNOVATED AND WON

DIGITAL CATALOG



[www.expoagro.com.ar/premio](http://www.expoagro.com.ar/premio)



ORGANIZERS





We are celebrating that for the past 16 years we have contributed to make visible the innovative spirit in Argentina. Our desire is to encourage those who dare to challenge their own limits, those who dedicate their efforts and intelligence to improve processes and create new products of significant impact on production in a sustainable way. Moreover, we are committed to collaborating with those who bring originality to food production in Argentina for the world.

This digital catalog presents the 2023 award-winning developments. We would like to thank their creators and all 43 participants from 6 provinces who have honored us by presenting their innovations. We are grateful to our Jury of Experts and the organizations they represent for their personal commitment and professional excellence.

We invite the entire agro-industrial community to register from April 2024 for the 9th edition of the **Ternium Expoagro Award for Agro-industrial Innovation**.

**CONTACT DETAILS:**  
**[premio@exponenciar.com.ar](mailto:premio@exponenciar.com.ar) / 11 6231 5244**





Gold Medal  
+ Mention  
Energy Efficiency



## HARVESTER BASED ON STRIPPER THRESHER HEAD

**G-FAS S.A.S.**

This harvester includes a stripper shearing system with a power module. The equipment has shown great efficiency compared to the conventional harvesting system.

### CATEGORY

Harvesting  
Machines

### STATUS

Final Scale



### BENEFITS

To the known advantages of the stripper system, this harvester adds simplicity of operation, elimination of tail losses, increased advance speed, and all this is done with less moving parts and lower maintenance requirements. It substantially reduces the carbon footprint, as measured by Carbon Group, and it also reduces fuel consumption by 35-50%.

**CONTACT DETAILS:** 011 3704 7208  
info@g-fas.com



## DEPTH CONTROL WHEEL FOR SOWING WITH BLADES

### WHEELSEM

#### CATEGORY

Planting  
Machines

#### STATUS

Close to  
Marketing



#### BENEFITS

A depth control wheel for seeders, equipped with flaps whose design prevents mud accumulation and blockages.

The wheel facilitates operations in complex soil conditions and abundant stubble, in all types of terrain.

It is especially valuable in modern seeders with more than 50 planting lines, providing efficiency, safety and planting quality to the farmer and also helping them save time.

**CONTACT DETAILS:** 341 593 6581  
larmoa79@gmail.com

Gold Medal  
+ Mention  
Substantial  
Improvement  
for Regional Crops



## SMART PORTABLE WAREHOUSE

### SILOPAPA

#### CATEGORY

Post-harvest

#### STATUS

Marketing



#### BENEFITS

Modular and detachable cell for potato storage and preservation. It is based on a forced ventilation system that works by suction of pure air, and is operated by an application.

Portable storage system with high energy efficiency.

It is a practical, effective and economical solution that makes it possible for the producer to store the production in the farm. The merchandise is correctly preserved thanks to the features of the ventilated chambers. In this way, better logistics and marketing conditions can be obtained.

**CONTACT DETAILS:** +54 9 2234 24 6837  
info@silopapa.com

Silver Medal  
+ Mention  
Good Agricultural  
Practices



## GRAIN EXTRACTOR WITH EJECTOR WINDER

**AGROINDUSTRIA  
Y SERVICIOS G y G. RICHIGER**

CATEGORY

Post-harvest

STATUS

Marketing



This model incorporates a bag winding system with disposable core carts to the extractor. Great compaction rolls can be obtained thanks to a longitudinal cut. This is done on a pair of rollers transversely mounted on their respective expandable structures on both sides of the machine.

Once the extraction process is finished, the two rolls obtained are high density and of cylindrical shape, facilitating handling.

BENEFITS

Transportation and collection processes are optimized, which facilitates logistics for recycling or final disposal, reducing environmental impact.

**CONTACT DETAILS:** 0800-888-1717  
ventas@richiger.com.ar



Silver Medal



## GRAIN CART EQUIPPED WITH 4-WHEEL STEERING SYSTEM

INDUSTRIAS METALURGICAS CESTARI

CATEGORY

Post-harvest

STATUS

Marketing



BENEFITS

Incorporation of steer wheels to a single hopper.

The solution leads to a significant reduction of the rotation angle of the unit. This addition improves stability and safety during the transfer and when performing maneuvers inside and outside the harvest lot. At the same time, it reduces the treading of crops avoiding grain losses by crushing.

CONTACT DETAILS: 02473 43-049

Silver Medal



## AUTONOMOUS SYSTEM OF MEASUREMENT AND CALCULATION FOR SEEDS AND FERTILIZERS

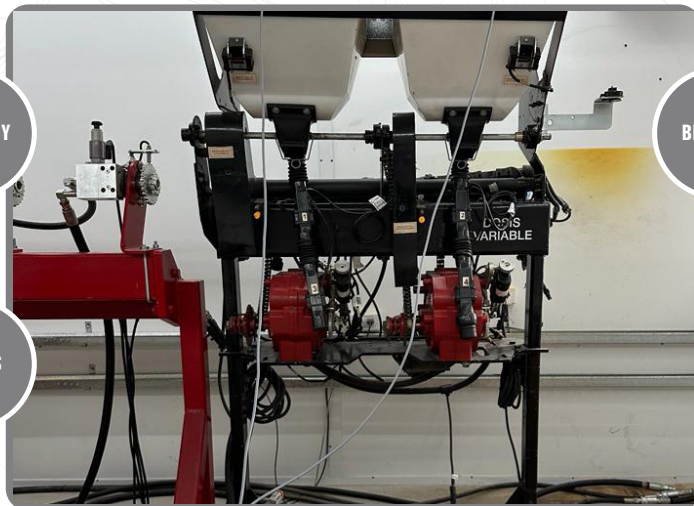
LEAF AGROTRONIC

CATEGORY

Planting  
Machines

STATUS

Marketing



BENEFITS

Electronic system of measurement and calculation of autonomy for sowing. With monitoring of up to 4 different products of seeds and solid fertilizers. Suitable for various machines, crops and conditions.

The system facilitates real-time monitoring of the hopper load level for up to four products simultaneously. This technology minimizes downtime associated with refills. It leads to efficient supplies management with significant waste reduction, and contributes to the decrease of soil compaction by avoiding unnecessary displacements. It has a positive impact on soil health, reduces fuel consumption, and makes it possible for a single operator to perform the task.

**CONTACT DETAILS:** 3471 49019  
[administracion@leafagrotronics.com](mailto:administracion@leafagrotronics.com)





## DISCHARGE TUBE SAFE DRIVE SYSTEM

INDUSTRIAS METALURGICAS CESTARI  
Y MARINELLI TECHNOLOGY

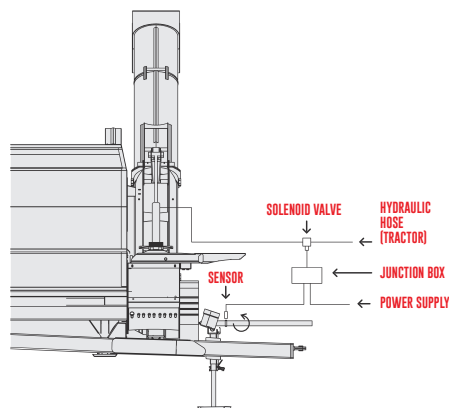
### CATEGORY

Post-harvest

### STATUS

Marketing

### discharge tube safe drive ▼



### BENEFITS

The system prevents the opening and closing of the discharge tube of the hopper while the cardanic bar is in motion by means of an electro-hydraulic system.

With this new development, it is possible to prevent breaks in the discharge system of the hopper associated with users' incorrect operation. This results in greater unit availability for harvesting and grain movements.

CONTACT DETAILS: 02473 43-049

Bronze Medal



## LINE-TO-LINE CUTTING SYSTEM FOR MECHANICAL TRANSMISSION SEEDERS

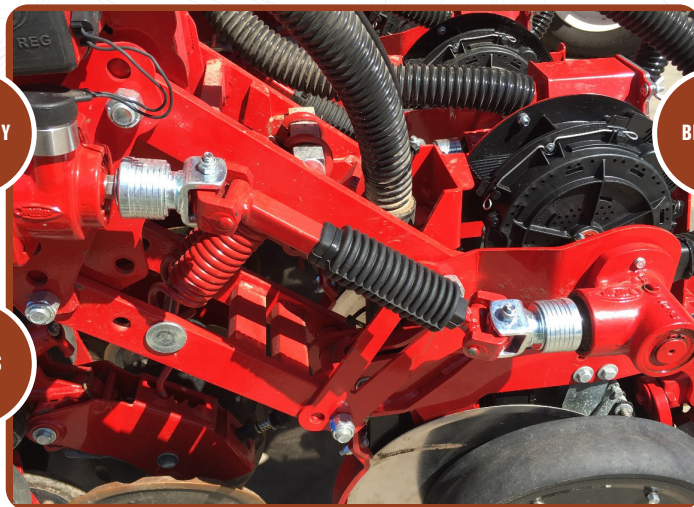
LEAF, CRUCIANELLI Y ORIPON

CATEGORY

Planting  
Machines

STATUS

Initial Stage



BENEFITS

Line-to-line electromechanical cutting system adaptable to seeders with mechanical transmission.

It is highly affordable and adaptable for users of mechanical transmission seeders. It represents a significant improvement in terms of efficiency and productivity. It can be implemented without major modifications to the existing equipment. There is no need to purchase additional electric engines to start the system.

The line-to-line cutting system can be effectively combined with other innovations, such as variable seed and fertilizer dosing, to further optimize the planting process and crop management.

**CONTACT DETAILS:** 3471 490195  
[administracion@leafagrotronics.com](mailto:administracion@leafagrotronics.com)

**Bronze Medal  
+ Mention  
Energy Efficiency**



## MOBILE SOLAR IRRIGATION

### GREEN VALLEY SOLAR

#### CATEGORY

Renewable  
Energies and  
Energy Efficiency

#### STATUS

Marketing



#### BENEFITS

First large-scale commercial mobile irrigation system that uses solar panels as an energy source to maintain constant pressure and flow.

This system completely replaces different types of non-renewable energy with stand-alone solar generation, and makes it possible to install an irrigation equipment where there are no energy sources available. It offers lower operating costs per watered mm, and can be easily moved.

**CONTACT DETAILS: 0408 533 918**



## Special Mention Alternative Systems for Pest Control

### ELECTRICAL WEED CONTROL

AGRITECH

#### CATEGORY

Plant Protection

#### STATUS

Marketing



The equipment provides a physical method for weed control by generating, transforming, controlling and subsequently transmitting electricity that circulates through the plants.

#### BENEFITS

The device makes it possible to control weeds without affecting the micro and mesofauna or removing the soil, reducing the risks associated with water and/or wind erosion, and preserving soil structure. It can be employed in lots or areas affected by resistant and/or tolerant weeds.

**CONTACT DETAILS:** 358 482 7560  
pedroignaciotorre@gmail.com

## SELF-TRANSPORTING AIR DRILL SEEDER

**AGROMETAL**

CATEGORY

Planting  
Machines

STATUS

Marketing



BENEFITS

With a very outstanding industrial design, and harmonious lines in the hopper and in the seeding trains holder bar, this seeder offers unalterable sowing quality and work capacity.

Having an innovative folding system, this seeder can be self-transported in only 3.9 meters wide, without resigning the hoppers autonomy. Its working width is 13 meters, and its transport wheels do not step on the sown ground. Thanks to the unit design, it can be transported in a single trailer.

**CONTACT DETAILS:** 3468-471311  
ventas@agrometal.com

## IDENTIFICATION OF VARIETIES AND PHYSICAL QUALITY OF GRAINS BY ARTIFICIAL INTELLIGENCE

MOQ

CATEGORY

Post-harvest

STATUS

Marketing



The equipment improves the precision with which the quality of the grains is determined.

BENEFITS

It reduces identification time, mitigating environmental impact by eliminating the use of chemicals, making an important contribution to ensuring food safety.

**CONTACT DETAILS:** 11 3686-4640  
fmh@zoomagri.com



## Special Mention New Business Models

# VELOSOFIA

## PLANTIUM

CATEGORY

Planting  
Machines

STATUS

Marketing



Integral rental service of planters with Plantium technology. It includes delivery and expert support services. Training, technical assistance and agronomic advice are provided to ensure the proper operation of the planter and to obtain the best results. A complete report with detailed information of the work performed is issued at the end of the rental period.

BENEFITS

The model facilitates access to a comprehensive high-tech precision package, taking into account the financial constraints of the market.

**CONTACT DETAILS:** +54 (340) 047 4199  
info@plantium.com



## EXPOAGRO

**Expoagro** is the most important agro-industrial exhibition in the region and is the capital of agribusiness in Argentina. The exhibition is organized by Exponenciar S.A., a company integrated by the Argentine newspapers Clarín and La Nación.

It takes place every year in a stable site next to the highway, in the city of San Nicolás, province of Buenos Aires, in the heart of the wet Pampas. Thousands of visitors from Argentina and the world participate in the mega meeting where the latest technology in agricultural machinery, livestock, supplies and services is presented.

**Expoagro** marks the thematic agenda of the year for its great call of all the players of the agro-industrial community, who for four days get together in an environment especially suitable for business and networking. [www.expoagro.com.ar](http://www.expoagro.com.ar)

## TERNIUM

**Ternium** is a leading steel producer in Latin America. It manufactures and processes a wide range of steel products and serves markets in the Americas through its integrated production system and extensive distribution network.

**Ternium** is the largest steel manufacturer in Argentina and supplies sectors such as construction, automotive, auto parts, packaging, agricultural

machinery and household appliances.

The production centers of San Nicolás, Ramallo, Rosario, San Luis, Canning, Florencio Varela, Haedo and Ensenada operate with the highest technology, and permanent investments are made to maintain their international standards of competitiveness, and thus supply a wide variety of customers with quality products tailored to their needs. [www.ternium.com.ar](http://www.ternium.com.ar)

## GERMAN AGRICULTURAL SOCIETY. DLG.

The **German Society of Agriculture (DLG)** organizes Agritechnica, the largest machinery exhibition in the world, and the Agritechnica Neuheiten Award for Innovation, which has been held for more than 40 years. DLG has been co-creator of the Ternium Award, and two DLG experts participate as members of the jury who supervises the selection of the most innovative candidates.

Founded in 1885, it is a leader in the agricultural and food sector in Germany, with more than 26,500 members and 230 employees. DLG's mission is to promote technical and scientific progress in the agricultural and food sector.



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## JURY OF EXPERTS



**GABRIEL A. TINGHITELLA**  
AACREA



**SERGIO MARINELLI**  
FACMA



**LUIS NEGRUCHI**  
AAPRESID



**ROBERTO DEL CASTAGNER**  
UNRC



**HECTOR HUERGO**  
CLARÍN RURAL



**ALEJANDRO BONACCI**  
UNC



**MANUEL GARCÍA SOLÁ**  
CONICET



**JUAN GODOY VALDIVIESO**  
UNC



**TELMO PALANCAR**  
UNLP



**ALEJANDRO CLÉRICO**  
FUNDACIÓN CIDETER



**MARCELO AMADO**  
FAUBA



**PABLO PETIT**  
UNC



**HERNÁN FERRARI**  
INTA



**MARIANO PALERMO**  
INVAP



**JUAN RAGGIO**  
ASESOR



**THILO KEUNECKE**  
DLG



**TOMAS RADEMACHER**  
UNIVERSIDAD DE BINGEN



**SILVIO ZÚRZOLO**  
UIA



## THE FOLLOWING ORGANIZATIONS SUPPORT ARGENTINE AGRO-INDUSTRIAL DEVELOPMENT

**AAPRESID.** Argentine Association of Producers in Direct Sowing

**CACF.** Argentine Chamber of Forage Contractors

**CAFMA.** Argentine Chamber of Agricultural Machinery Manufacturers

**CLARIN RURAL**

**CONICET.** National Scientific and Technical Research Council

**CREA.** Argentine Regional Consortium of Agricultural Experimentation

**FAUBA.** Faculty of Agronomy of the National University of Buenos Aires

**FH BINGEN**

**CIDETER FOUNDATION**

**INTA.** National Agricultural Technology Institute

**INTI.** National Industrial Technology Institute

**INVAP.** State-owned applied research company

**FACMA.** Argentine Federation of Agricultural Machinery Contractors

**LA NACIÓN**

**MAGRIBA.** Agricultural Machinery of the Province of Buenos Aires

**UIA.** Argentine Industrial Union

**NATIONAL UNIVERSITY OF CORDOBA, FACULTY OF AGRICULTURAL SCIENCES**

**NATIONAL UNIVERSITY OF RÍO CUARTO**

**NATIONAL UNIVERSITY OF LA PLATA, FACULTY OF AGRICULTURAL AND FORESTRY SCIENCES**



Fachhochschule Bingen  
University of Applied Sciences



LA NACION



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Y VETERINARIA  
UNIVERSIDAD NACIONAL  
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Facultad de  
Ciencias Agrarias  
y Forestales



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DE LA PLATA

