



## OUR PROJECTS





50 years of engineering applied to agro-industrial development, with projects completed and currently operating.

Image - Ilyichevsk Port - Odessa - Ukraine

HCSA traces its origins to the 1970s, when Estudio de Ingeniería Holmberg was incorporated as a corporation, consolidating more than four decades of experience in the development of agro-industrial, industrial, and port projects.

The company specializes in comprehensive project development, providing conceptual, basic, and detailed engineering services, construction management and supervision up to commissioning, as well as economic-financial consulting and feasibility studies. Its approach integrates technical analysis with economic evaluation, enabling the structuring of efficient, sustainable, and technically sound projects

The Company has developed extensive experience in the agro-industrial sector, including ports for solid and liquid bulks, grain and oilseed storage and conditioning plants, oil extraction plants, mills, feed plants, protein concentrate and textured soybean plants, poultry production, and meat processing facilities.

In addition to these specialties, it comprehensively develops the infrastructure associated with each project, including roads and access routes, electrical power systems, automation and control, fire protection systems, operational housing, and industrial utilities.

Fully operational facilities in Argentina, Ukraine, Brazil, Angola, and Paraguay demonstrate our capacity to manage complex projects. A range of consulting assignments in El Salvador, Malaysia (Port Klang), the Philippines (Subic Bay), and Bolivia have completed a significant international track record.

## Our team

We have a multidisciplinary team of professionals with extensive experience in engineering and project development, combining technical knowledge, strategic vision, and a commitment to excellence to ensure robust solutions and tangible results at every stage of the project.



Ing. Eugenio Holmberg  
President of HCSA



Ing. Carlos Barutta  
Vice President of HCSA



Ing. Jose Luis Gimenez  
Construction Area



Guillermo Acerbi  
Mechanical Area



Arq. Gimena Sainz  
Architecture Area

## Areas of Specialization

### BULK GRAIN HANDLING

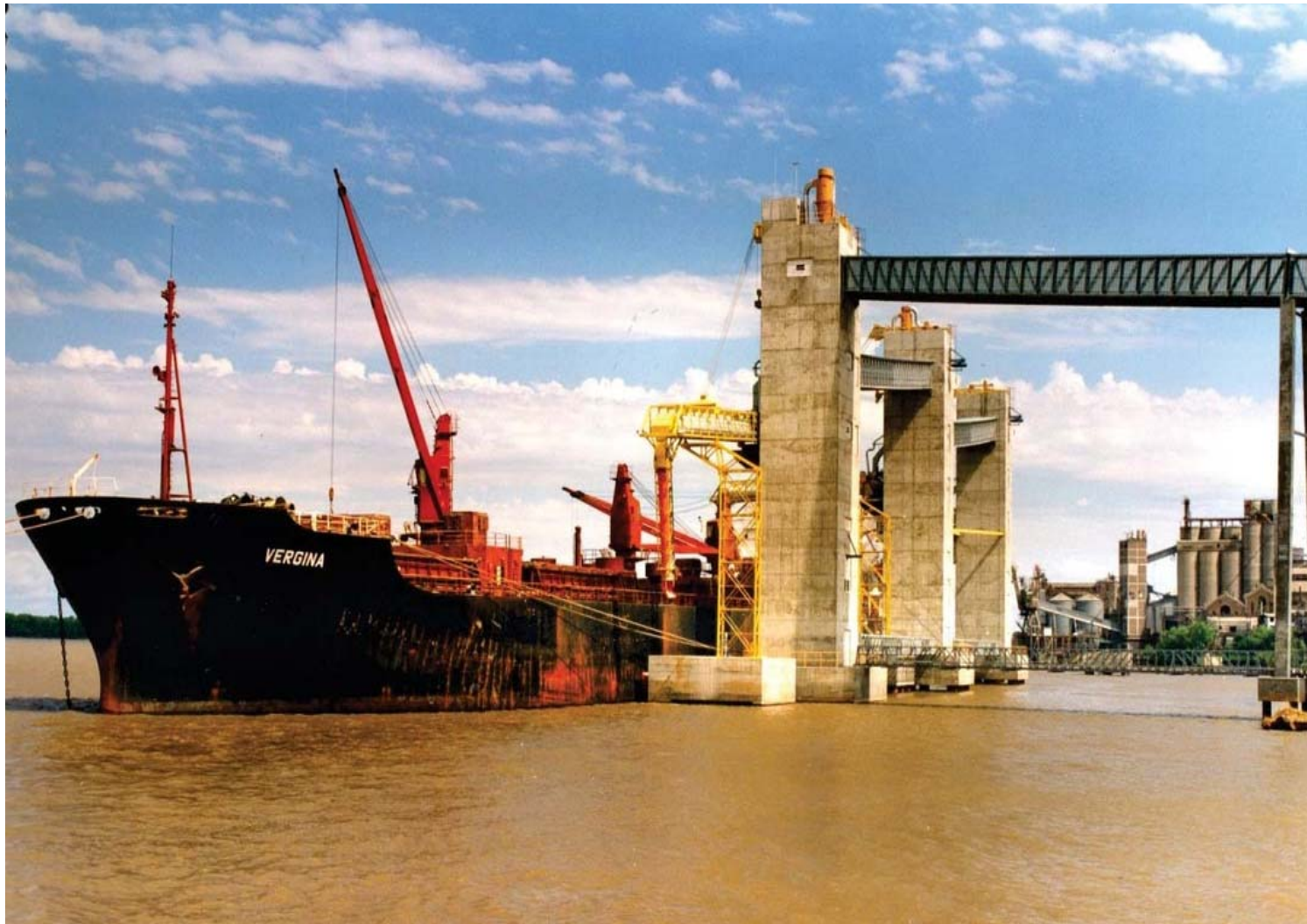
Storage  
Conditioning  
Seed cleaning and grading  
Truck and rail loading and unloading systems  
Special unloading systems

### PORTS

Comprehensive port facilities and works  
Loading and unloading of ocean-going vessels  
Loading and unloading of river barges  
Transfer facilities  
Operations with grain, liquid and solid fertilizers, and minerals

### INDUSTRIES

Fruit grading and packing  
Animal feed  
Oil extraction and refining  
Wheat milling  
Corn milling (milho)  
Rice milling  
Bulk transport systems  
Biodiesel  
Bioethanol  
Soy protein concentrate and texturizing



## Port Facilities

Our experience covers the design, planning, and management of complex port works, integrating technical, logistical, and operational aspects to ensure efficient, high-performance solutions.

We have designed and managed the construction of four ports from their earliest stages; they are now in operation, consolidating strong experience in developing strategic infrastructure for the agro-industrial sector.

### La Plata Cereal

Engineering, construction management, and commissioning of a grain, oil, and meal export port with a capacity of 2,000 Tn/H for grain and 700/1,000 Tn/H for oil, reaching an annual throughput of 1,500,000/2,000,000 Tn.

#### Clients

Andre & Cie

#### River Paraná

Argentina



### Transbulk Terminal

Import and export port

Engineering, construction management, and commissioning of a grain receiving and export port with a capacity of 1,000 Tn/H. Storage of 92,000 Tn and grain drying; rail and truck reception; infrastructure, power generation, automation, and civil works.

#### Client

Black Sea Industry

#### Country

Odessa, Ukraine



### Bahia Blanca Port Complex

Engineering, construction management, and commissioning of a grain export port with a capacity of 2,400 Tn/H; rail reception at 500 Tn/H; truck reception at 700 Tn/H; 90,000 Tn of storage.

Mechanization, dust extraction, automation, facilities, and infrastructure.

#### Client

LDC Louis Dreyfus Commodities

#### Country

Argentina



### Quequen Fertilizer Port

Import and export port

Engineering, construction management, and commissioning of a fertilizer unloading port with a capacity of 700 Tn/H; solid fertilizer storage cell of 50,000 Tn; UAN and TSA tanks totaling 10,800 m3; and truck loading at 450 Tn/H

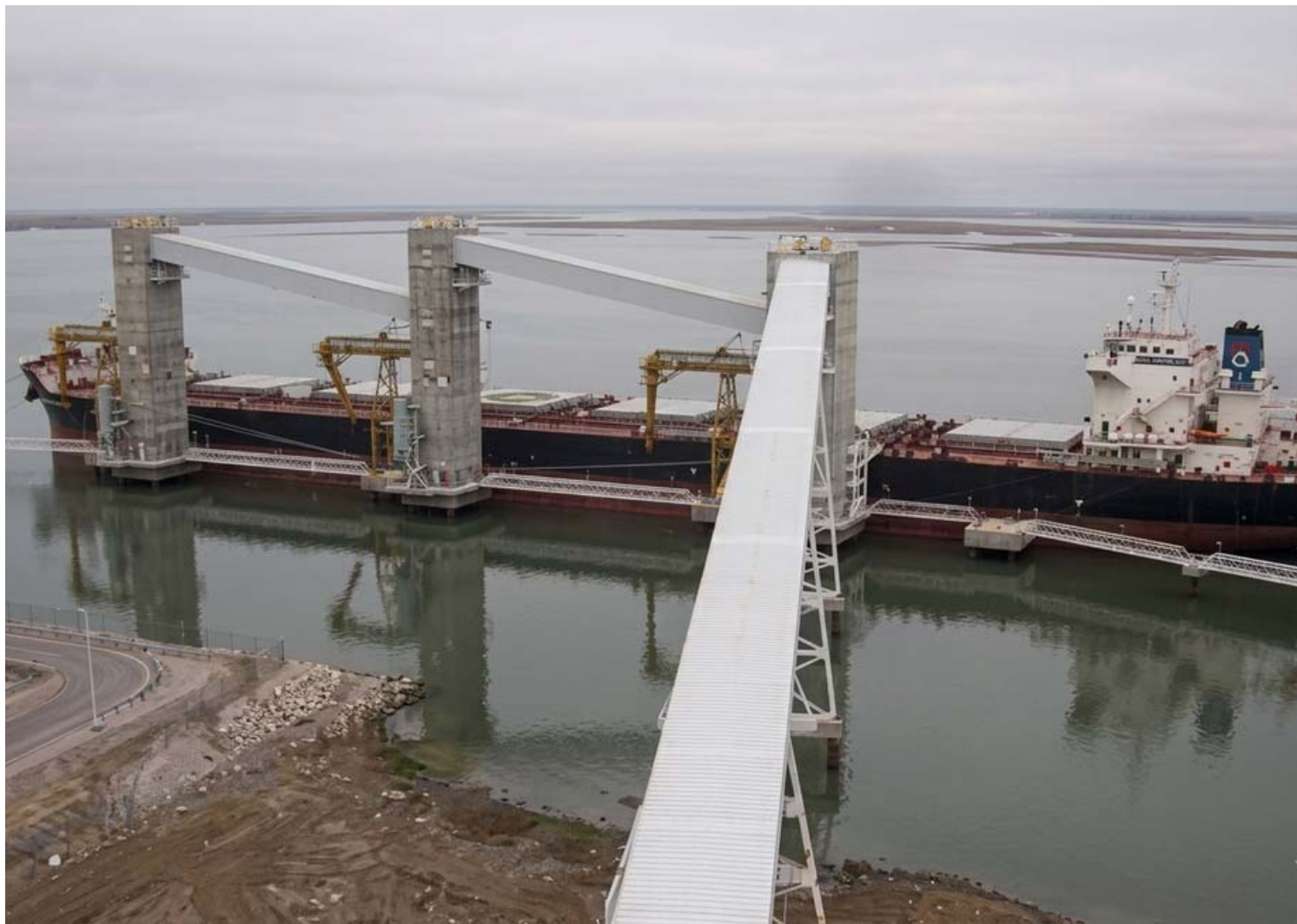
Mechanization, infrastructure, power generation, automation, and civil works.

#### Client

Pier Doce S.A.  
Glencore Argentina

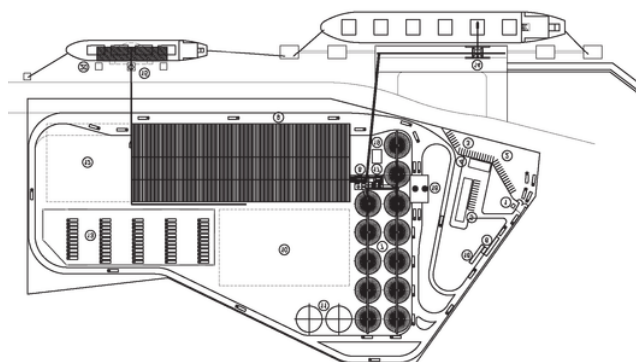
#### Country

Argentina



We have experience in the reconstruction and modernization (revamping) of port facilities, as well as in the development of numerous feasibility studies and executive projects that, for various reasons, were not implemented.

We have also carried out technical audits, valuations, and studies related to industrial safety at operating ports, providing tools for the optimization, assessment, and improvement of existing facilities.



### Malaysia Port

Technical and economic feasibility study, conceptual and basic engineering

**Client**  
Confidential

**Country**  
Malaysia

### Nueva Palmira Port.

Review of explosion-protection systems, dust extraction, and the industrial safety plan.

**Client**  
TGU

**Country**  
Uruguay



### Diamante Port

Engineering, construction management, and commissioning of the port remodeling and expansion, with 35,000 Tn of storage, truck reception, grain loading at 600 Tn/H, and infrastructure

**Client**  
Compañía Continental S.A

**Country**  
Argentina

### Ingeniero White Port - Bahía Blanca

In 1985, Silo 5 at the Port of Bahía Blanca exploded. The destruction was nearly total, extending from the Reception area to the Maritime Shipping terminal. HCSA managed the Consortium and was responsible for the reconstruction project of the 'Corel' Consortium. This project was funded and audited by the World Bank.



### Paranagua Port

Engineering, construction management, and commissioning

**Client**  
Andre & Cie

**Country**  
Brasil



Solvent extraction building, meal desolventizer, etc.

# Oilseed Processing Complex

We develop comprehensive agro-industrial projects, covering conceptual, basic, and detailed engineering, tender engineering, procurement management, construction management up to commissioning.

Our track record includes the design, optimization, and assessment of oil extraction plants (sunflower, soybean) and bioethanol plants, delivering solutions that maximize operational efficiency and investment returns.



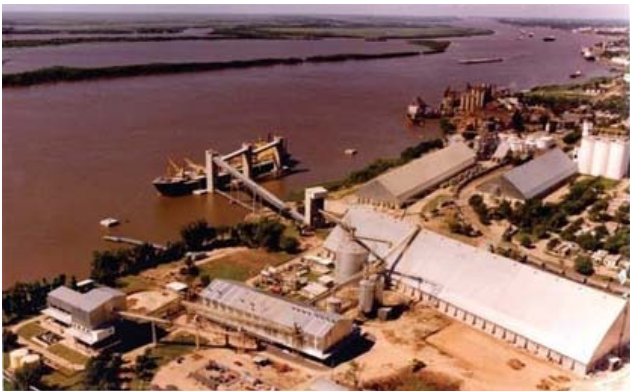
## Black Sea Industries

### Soybean and Sunflower Oil Extraction Plant

Engineering, construction management, and commissioning of a soybean oil extraction plant with a capacity of 2,000 Tn/D and sunflower oil extraction at 1,500 Tn/D

Equipment, mechanization, automation, facilities, and infrastructure

| Client               | Country         |
|----------------------|-----------------|
| Black Sea Industries | Ucrania, Odessa |



## La Plata Cereal

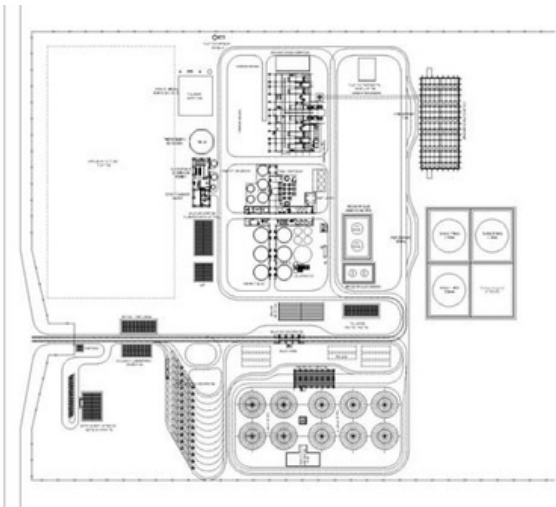
Soybean and sunflower oil solvent extraction plant. Engineering, construction management, and commissioning project; extraction capacity of 4,000 Tn/D for soybean and sunflower oil; rail reception at 300/600 Tn/hH and truck reception at 700/1,000 Tn/h. Equipment, mechanization, automation, facilities, and infrastructure

| Client      | Country   |
|-------------|-----------|
| Andre & Cie | Argentina |

## Oil Extraction Plant

Process and Assembly Audit for the 6,000 Tn/day Oil Extraction Plant

| Client                      | Country   |
|-----------------------------|-----------|
| AGD Aceitera General Deheza | Argentina |



## Bioethanol Plant

Technical, economic, and logistical feasibility study aimed at identifying the optimal location for the plant, evaluating key factors such as the availability and proximity of raw materials, access and logistics, infrastructure and services, environmental conditions, regulatory aspects, and associated costs.

| Client  | Country   |
|---------|-----------|
| Private | Argentina |



## Milling and Animal Feed Plants

We carry out projects related to wheat and corn milling, as well as animal feed plants, integrating engineering solutions tailored to the needs of each client and the agri-food industry.

Our experience covers facilities for product reception, storage, milling, dosing, mixing, and dispatch, incorporating criteria for operational efficiency, automation, quality, and process optimization.

Each project is conceived comprehensively, addressing both industrial processes and the infrastructure and services required to ensure reliable, safe, and sustainable operations.

### Quisenga Agro-industrial Hub II

Agricultural: Development of a 10,000-hectare irrigated farm for corn and bean cultivation.

Industrial: 2 Tn/H bean grading plant, 5,000 Tn storage, infrastructure, administrative and service buildings, infrastructure, employee housing, and operational staff training.

**Client**

Alcaal

**Country**

Angola



### Cubal Agro-industrial Hub

Located in Benguela Province, the project was developed in 2011 and comprised two main areas:

Agricultural: Development of a 15,000-hectare farm for corn and bean cultivation, supported by a comprehensive technical training and assistance program for local farmers.

**Client**

Incatema

**Country**

Angola

### Quisenga Agro-industrial Hub I

Agricultural: Development of a 30,000-hectare farm for corn and bean cultivation.

Industrial: 50 Tn/day corn mill, 4,500 Tn storage plant, mill and input buildings, administrative and service buildings, 400 m2 employee housing, and operational staff training.

**Client**

Globaltec

**Country**

Angola



### Poultry Feed Plant

Milling production capacity of 40 Tn/h; 7,000 Tn storage plant for soybeans, corn, and soybean meal; truck scale; 500 m2 industrial building for milling and big-bag storage; pellet dispatch and infrastructure.

**Client**

Avex S.A.

**Country**

Argentina



## Liquid and Solid Fertilizers

We have experience in developing projects related to the storage, handling, and distribution of liquid and solid fertilizers, providing comprehensive solutions tailored to each client and market.

Our services range from feasibility studies and process engineering to the development of industrial facilities, storage systems, logistics terminals, and mixing and dispatch plants, integrating criteria for operational efficiency, safety, and environmental sustainability.

Our extensive experience in the sector allows us to undertake projects of varying scale and complexity, accompanying our clients through every stage, from initial planning up to commissioning of the facilities.

### Fertilizer Plant

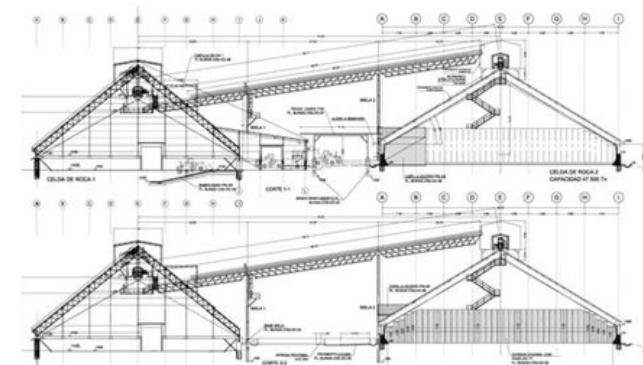
PIER12, formed by GLENCORE, ACA & Fernandez Candia, between 2018 and 2020, the project design and construction management were carried out for the liquid and solid fertilizer storage plant, liquid and solid fertilizer unloading berth, and bulk fertilizer dispatch. Storage cell of 50,000 Tn; tanks (UAN and TSA) totaling 11,000 m3.

**Client**

Pier Doce

**Country**

Argentina



### Ramallo Plant

Project design and supervision for the revamping and mechanization of the phosphate rock storage cells.

Modification of vessel unloading by implementing a bypass to dispatch trucks without passing through the storage cell

**Client**

Bunge

**Country**

Argentina

### Campana Plant

Survey, project design, and construction management for commissioning the sulfur storage cell.

**Client**

Bunge

**Country**

Argentina



### Alecy Plant

Project design and construction management for the solid fertilizer storage, processing, bagging, and distribution plant for La Plata Cereal, now Bunge.

**Client**

La Plata Cereal.

**Country**

Argentina



## Seed Classification and Storage

HCSA develops seed classification and storage plant projects, integrating engineering solutions focused on ensuring product quality, operational efficiency, and preservation.

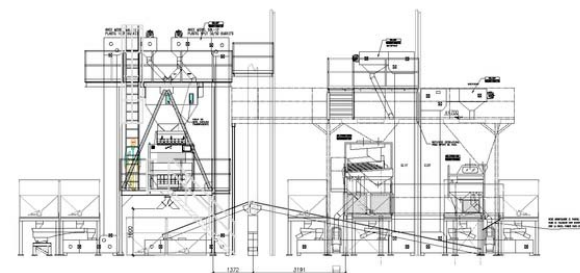
Our experience covers the design of facilities for seed reception, cleaning, grading, color sorting, treatment, storage, and dispatch, adapted to each client's production and technology requirements. Every project is developed with criteria for functionality, automation, safety, and logistical optimization.

### Planta Fundadora. Rojas, Argentina

Integrate a color and specific gravity sorting system into Monsanto's existing main seed treatment line

**Client**  
Monsanto Argentina

**Country**  
Argentina



### Popcorn Seed Grading Plant

- Grading: 7/8 Tn/h
- Popcorn drying silos: 10,750 Tn
- Truck reception

**Client**  
Agouranga

**Country**  
Argentina



### Seed grading and distribution plant for export to the USA

Grading at 20 Tn/h, with planned expansion to 40 Tn/h; bulk reception at 180 Tn/h  
Silo storage: 4,000 Tn  
Ear dryer, dehusker and sheller; dump platform

**Client**  
Satus Ager

**Country**  
Argentina

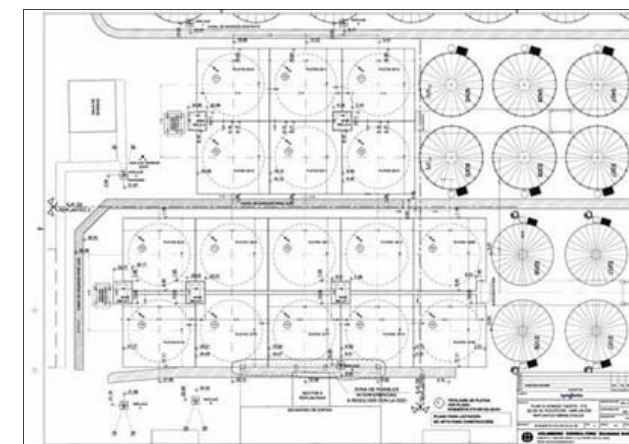


### Soybean, Sorghum, Pea, and Chickpea Grading Plant

- Grading: 5 Tn/h
- Storage: 8,000 Tn
- Truck reception
- Color grading
- Bagging

**Client**  
Agouranga

**Country**  
Argentina



### Venado Tuerto Plant

Project design and supervision for the expansion of the corn seed storage facility

- 10 seed silos of 200 Tn
- 6 seed silos of 300 Tn.
- Mechanization

**Client**  
Syngenta

**Country**  
Argentina



## Storage, Drying, and Cleaning Plant

60 plants built (Argentina, Brazil, Uruguay, Chile, Paraguay)

Over the last 50 years, approximately 60 storage plants have been developed, along with many grain handling and processing projects, with a total capacity of 1,500,000 Tn.

Our clients include private companies as well as government agencies, such as:

National Grain Board: 9 storage and conditioning plants were completed under a World Bank financial program, as well as 20 storage plants of 100,000 Tn each.

Argentina's Ministry of Public Works: Remodeling of "Silo 5" at Bahía Blanca Port after an explosion (dust explosion).

World Bank financial program: expansion of the Bahía Blanca grain export port (as partner), with 200,000 Tn of storage and 5,000 Tn through our vessel loading system (2 vessels simultaneously).

### Cleaning, Drying, and Storage Plant

- Storage: 16,500 Tn
- Rail loading: 300 Tn/h
- Truck reception: 150 Tn/h -
- Truck unloading: 200 Tn/h

The current owner is Los Grobo

#### Client

Los Silos del 13 de Abril

#### Country

Argentina



### Santa Cecilia Plant

- Storage capacity: 22,000 Tn
- Truck reception: 300 Tn/H
- Drying capacity: 240 Tn/H
- Automation
- Infrastructure

#### Client

Kamir

#### Country

Uruguay

### Planta Santa Monica 10.000Tn



### Agobos Plant 8,500 Tn



### Planta María Teresa 3.000Tn



### Agouranga Plant 12,000 Tn





## INDUSTRY

We develop industrial projects linked to the agri-food chain, covering the transformation, processing, and conditioning of agricultural and livestock products.

Our experience includes poultry slaughter and processing plants, fruit grading and packing, production of soybean protein concentrates and texturates, and other industrial facilities focused on adding value to primary production.

Each project integrates engineering, processes, logistics, and infrastructure, with a focus on operational efficiency, product quality, and sustainable operations.

### Poultry Slaughterhouse

The facility includes a 7,200 m<sup>2</sup> processing building and a slaughter line with a capacity of 8,000 birds per hour. It also has an industrial and sewage effluent treatment plant with a capacity of 1,200 m<sup>3</sup>/day, medium- and low-temperature cold rooms, a rendering plant, and the infrastructure required for its operation.

#### Client

Avex S.A.

#### Country

Argentina



### Stone Fruit and Citrus Grading, Storage, and Packing Plant

The facility includes a 6,500 m<sup>2</sup> grading and packing building, 180,000 kg cold tunnels, and storage rooms for 260,000 kg of fruit. It has a citrus grading line with a capacity of 12,500 kg/h and peach grading lines at 7,500 kg/h, complemented by the infrastructure required for its operation.

#### Client

Estancias de Alsina S.A.

#### Country

Argentina



### Inmix

Soybean Protein Concentrate and Texturate Facility

#### Client

Inmix S.A.

#### Country

Argentina



### Tucuman Plant

The facility is a plant for the production of concrete additives and special cements, equipped with a cement mixer with a capacity of 2,000 kg/h, a mixing tower, and a storage tank, complemented by the infrastructure required for its operation.

#### Client

SaintGobain Productos para la Construcción S.A.

#### Country

Argentina

**HCSA**

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