



SCG 1887 HYBRID SILO MULTIMODAL TRANSPORT SYSTEM AND BULK STORAGE

Study and proposals for the industrial
sector **of sand logistics**

JULY 2025

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CONTENEDOR 20 PIES DE MEDIA ALTURA BUTTERFLY FLIGHT SYSTEM SCG 1887 – TIPO HALF HEIGHT APILABLES HIGH CUBE

SCG 1887 CORPORACIÓN
SOCIEDAD DE ACCIONES SIMPLIFICADAS

Principales características

- Optimiza costos de transporte de arena, reduciendo la cantidad de camiones requeridos para entregar las mismas cantidades de apuntalamiento.
- Reduce la tarifa plana de flete por viaje de ida y vuelta desde la carga hasta la ubicación de la explotación. Ahorrando hasta un 66 % en el comúnmente conocido "flete falso".
- Reemplaza camiones tolva por camiones convencionales.
- Elimina costos de espera y demora por su simple manipulación y estiba.
- Minimiza los desperdicios de material.
- Protege la salud y el ambiente mitigando ruido y polvo en suspensión.
- Solución innovadora para la gestión eficiente de arenas de fractura en sitio.
- Cumple con el servicio tipo Lumas Box de logística de última milla para abastecimiento de arenas.
- Es una solución tecnológica de desarrollo ciento por ciento NACIONAL.
- Reduce generación de desechos del transporte a través de bolsas.
- Carga superior.
- Totalmente hermético por lo cual garantiza respeto al medioambiente.
- Descarga manual o automática por gravedad.

SILO SCG 1887 de 6.058 x 2.600 x 1.448mm		
IT	DESCRIPCIÓN	MEDIDAS
1	ALTO DE SILO CONTENEDOR DE ARENA (Frac-Sand)	3.448,00
2	LARGO DE SILO CONTENEDOR DE ARENA (Frac-Sand)	6.058,00
3	ANCHO DE SILO CONTENEDOR DE ARENA (Frac-Sand)	2.438,00
4	ALTURA DE 2 SILOS CONTENEDOR DE ARENA (Frac-Sand) SOBRE CAMIÓN	2.886,00
5	TARA DE SILO CONTENEDOR DE ARENA (Frac-Sand)	2.875,35
6	CAPACIDAD DE SILO CONTENEDOR DE ARENA (Frac-Sand)	14,00
7	CARGA DE SILO CONTENEDOR DE ARENA (Frac-Sand) DE 20'	22,00
8	CARGA PORTACONTENEDORES CON DOS SILOS (Frac-Sand) DE 20'	44,00
9	ALTURA DE CARGA MÁXIMA PORTACONTENEDORES MERCOSUR	4.300,00
10	CARGA MÁX VACÍOS EN PORTACONTENEDORES DE 40' (Frac-Sand)	4,00
11	ALTURA DE CARGA DE DOS (2) SILO ARENA SOBRE PORTACONTENEDORES	4.126,00

Modelo con tapa hermética automatizada con patente internacional wimpo0

www.silocontenedorgranelero.com

ISO 9001 Patents for Humanity

Ministerio de Seguridad
Presidencia de la Nación
PREFECTURA NAVAL ARGENTINA

FONTAR





INTRODUCTION

The SCG 1887 system revolutionizes bulk transport logistics by using containers as permanent receptacles for the product, avoiding handling at every stage of transfer. This multimodal logistics model enables more efficient, safer and environmentally responsible operations, reducing operating times and costs associated with traditional transport.

The innovation lies in modifying standard maritime containers or manufacturing new purpose-built models for national and international trade, mainly for grains and bulk products. Thanks to its patented design, it allows a single loading and unloading operation throughout the logistics chain, ensuring full traceability of the contents.

The patent includes 36 design models for different uses and destinations in national and international loading and unloading operations.



PATENTS

- Hybrid silo for bulk storage and multimodal transport (PCT/IB2018/057655) (WO 2019/069235A1)
- Hermetic cover for top-loading containers (PCT/IB2018/057657) (WO 2019/069237A2)
- MERCOSUR registration No. AR102783 A1
- Trademark registration No. 3,262,697 with INPI

ALMACÉN

DE ALTA CAPACIDAD

ALMACÉN

DE ALTA CAPACIDAD

TECHO-TAPA
Sistema innovador de
apertura mecánica de
techo-tapa mediante uso
de equipo de trabajo tipo
E, accionando sistema
de tracción y deslizable sin
necesidad de ninguna de
manipulación de

ALMACÉN
DE ALTA CAPACIDAD

ALMACÉN
DE ALTA CAPACIDAD

**SILO CONTENEDOR
MULTIPROPOSITO
AUTOMATIZADO**

Primer contenedor diseñado con tecnología para transporte, almacenamiento y acopio de cargas, productos y mercancías a granel

**PRODUCT APPROVED BY
PUERTO ROSARIO TERMINAL**

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ESTRUCTURAS METALICAS
SOLUCIONES PARA EL SECTOR CONSTRUCCION
SCG

**SILO CONTENEDOR
MULTIPROPOSITO
AUTOMATIZADO**



TIEMPO
 Ahorra tiempo en la apertura de los silos de carga y descarga de todos los silos en un momento determinado a cualquier hora sin necesidad de esperar de los productores. Se especifican en tamaño y medida la capacidad según la demanda de los productores que abastecen.

OPTIMIZA Y MEJORA LAS CONDICIONES DE CONSERVACIÓN Y MANTENIMIENTO DE LOS PRODUCTOS AGRÍCOLAS



TECHO-TAPA
 Desde la producción a la apertura mecánica de la tapa mediante el uso de equipos de alta tecnología accionando sistema de cables y distribuidor sin utilización de ninguna de maquinaria.





PUERTAS LATERALES
 Descarga automatizada, con apertura y cierre, trabajo silencioso, que se acciona mediante un receptor sin cables instalado en el techo del silo, y por medio del sensor se acciona la descarga en el receptor de la zona de las escalas sin necesidad de ningún otro accesorio en la zona de recepción de cualquier parte del mundo.





LOGÍSTICA
 Producto perfectamente adaptado a los campos profundos en la logística y el control que conforman el futuro de la logística, smart storage, logistik y smart ports and terminals. Así a los de servicios de evaluación y comparación de los productos en el futuro de la logística de cada uno de los productos.

ADAPTABLE A NUEVAS TECNOLOGÍAS

- Internet
- Artificial Intelligence Artificial
- Extensores



REUTILIZACIÓN
 El sistema puede ser optimizado y reciclado en un 100% de los productos, nuevos o reformados, buenos usados, lo que permite reutilizar el valor.



DISPOSITIVOS
 Accede a través de medios para dispositivos móviles, tabletas o smartphones de acceso remoto a cualquier momento y lugar.



[illegible]

Innovative concept

The SCG 1887 container separates the load from the transport vehicle, avoiding “false freight” and enabling safe logistics operations.

- Significant reduction in unloading and handling times
- Better product preservation during transport
- Reduction of bulk material losses
- Adaptable to trucks, semi-trailers, road trains, wagons and barges without modifying loading/unloading systems.

Storage

- Lower transfer costs between different logistics modes.
- The product remains inside the container, avoiding quality or quantity losses.
- Eliminates investment in separate storage plants, as the equipment itself serves as a hermetic, stackable warehouse, generating major infrastructure savings.

OTHER USES



Trade

36 patented models allow multiple uses in trade and industry.

industry

River transport

On barges and ships, the hermetic container system prevents cargo losses and environmental contamination, enabling safe temporary storage and full traceability from origin to port and final national or international destination.

In ports it simplifies transfers between transport modes, allows automatic unloading into the ship hold and maintains cargo traceability.



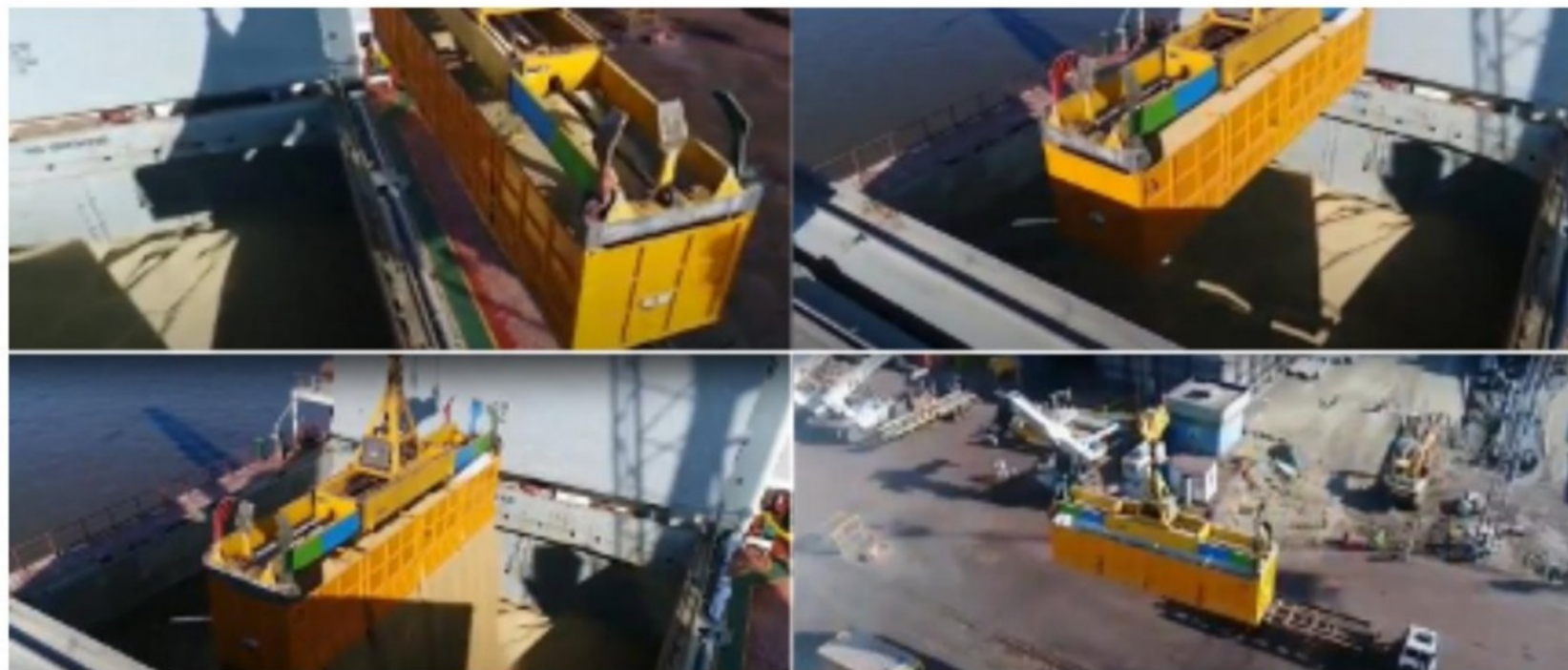
Road transport

On trucks it enables automated loading and unloading without tipping platforms, reducing unloading times by up to twelve times and lowering occupational risks.



Rail transport

By adapting existing wagons or manufacturing new ones, the system improves safety and post-unloading times.



APPLICATIONS BY SECTOR

01 Agroindustry

Transport and storage of grains, seeds, fruit and fertilizers.

02 Mining industry

Logistics for minerals, sand, lime, cement, coal, lithium and more.

03 Oil and gas

Frac sand and support materials for hydraulic stimulation.

04 Environment

Safe containment and transport of hazardous materials without emissions.

05 Food industry

Products such as sugar, flour, coffee, lemons, pellets and more.

06 General trade

The modular floor allows bulk transport and rapid conversion to a flat floor for return loads on pallets.

ADVANTAGES BY CATEGORY

Environment

- Sealed unit with no dust emissions or product exposure.
- Resistant to extreme weather without wetting the load.
- Better handling of hazardous substances in ports.
- Allows simultaneous storage of different product types.

de forma simultánea.

Productivity

- Separates transport from the load.
- Reduces duplication of logistics operations.
- Immediately operational, reusable and amortizable.
- Reduces cost by about one third compared with conventional systems.

Safety

- Requires fewer personnel for operation.
- Full automation without risk exposure.
- Greater control and less human error.

Profitability and business

- Applicable to agroindustry, mining, ports and logistics companies.
- Reduces "false freight" and transfer costs.
- Significantly improves operating profitability.
- Compatible with temporary or permanent storage systems.

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Compañía

- **Innovative modified floor to facilitate gravity unloading.**

- Roof with special tarpaulin cover, tamper-proof hermetic lid or hinged folding roof.

- Replaces tipper trucks with conventional trucks.

- **Eliminates waiting and delay costs thanks to simple handling and stowage.**

- Minimizes material waste.

- Protects health and the handling/storage environment by reducing noise and airborne dust.

- **Manual or automatic gravity unloading, with truck or wagon kept in horizontal position.**

- Container stackability conditions and IMDG BK2 certifications.

- Hermeticity in conditions comparable to international BK2 and BK1 standards.



- Minimizes the impact of false freight compared with tipper-body systems.

- Eliminates waste generated by transport using bags.

- Patented system.

HALF-HEIGHT SAND CONTAINER - YPF SYSTEM
 HALF-HEIGHT SAND CONTAINER - SCG 1887



YPF PROPRIETARY PATENT



NATIONAL AND INTERNATIONAL PATENT

Sand silo height (Frac-Sand) 1.433	Sand silo height (Frac-Sand) 1.448	m
Sand silo length (Frac-Sand) 6.058	Sand silo length (Frac-Sand) 6.058	m
Sand silo width (Frac-Sand) 2.438	Sand silo width (Frac-Sand) 2.438	m
Height of 2 silos on truck 2.866	Height of 2 silos on truck 2.896	m
Container tare 2.120	Container tare 2.676 t	t
Container sand capacity 21.00	Container sand capacity 15.00	m³

Loaded silo weight 27 t Loaded silo weight 22.40 t

Container carrier load, 2 silos 54 t Container carrier load, 2 silos 44.80 t

Maximum MERCOSUR load height 4.300 m Maximum MERCOSUR load height 4.300 m

Max. empty 20 ft silos 4 units Max. empty 20 ft silos 4 units

Loading height of 2 silos 4.096 m Loading height of 2 silos 4.126 m

Unloading system
Rear door with equipment support

Average unloading time 7 min Average unloading time 20 sec

INTERNATIONAL PUBLICATION UNDER THE PATENT COOPERATION TREATY (PCT)

World Intellectual Property Organization
International Bureau - International publication No.

WO 2019/069235 A1

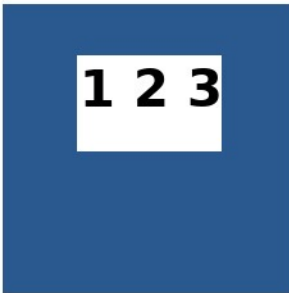
THREE KEY POINTS

We believe sand transport logistics will continue to evolve toward greater efficiency, while still requiring significant investments and implementation time.



Multimodal

Regardless of how investments evolve, the equipment can be used in every logistics model and can start operating immediately.



Hermetic storage

No separate storage plant is required. If desired, the equipment can begin operating immediately while plant investments are being developed.



Environmental impact

Because it is hermetic, the system can leave the origin under the required conditions and reach the final destination without transfers, volatile losses or disposable bulk bags requiring treatment.

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que dar tratamiento.



SCG 1887 HYBRID SILO MULTIMODAL TRANSPORT SYSTEM AND BULK STORAGE



- Main features**
- Mixed container / tipper system
 - Patented design for controlled and safe unloading
 - Robust high-strength steel structure
 - Hydraulic or manual side doors for efficient unloading
 - Reduced loading and unloading times
 - Compatible with maritime, road and rail transport
 - Ideal for grains, minerals, sand and other bulk products
 - Longer service life and lower environmental impact



Model with side doors
for controlled unloading.

UTILITY MODEL PATENTS

MU-2020-4770 / 20-06-0978-00	Colombia
MU-2020-4771 / 20-06-0979-00	Colombia
MU-2020-4772 / 20-06-0980-00	Colombia
MU-2020-4773 / 20-06-0981-00	Colombia
MU-2020-4774 / 20-06-0982-00	Colombia
MU-2020-6050 / 20-07-1196-00	Colombia
MU-2020-6046 / 20-07-1192-00	Colombia
MU-2020-6047 / 20-07-1193-00	Colombia
MU-2020-6049 / 20-07-1195-00	Colombia

SDF · BULK SILO CONTAINER

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Commercial representation in Europe

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Owner - SDF

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