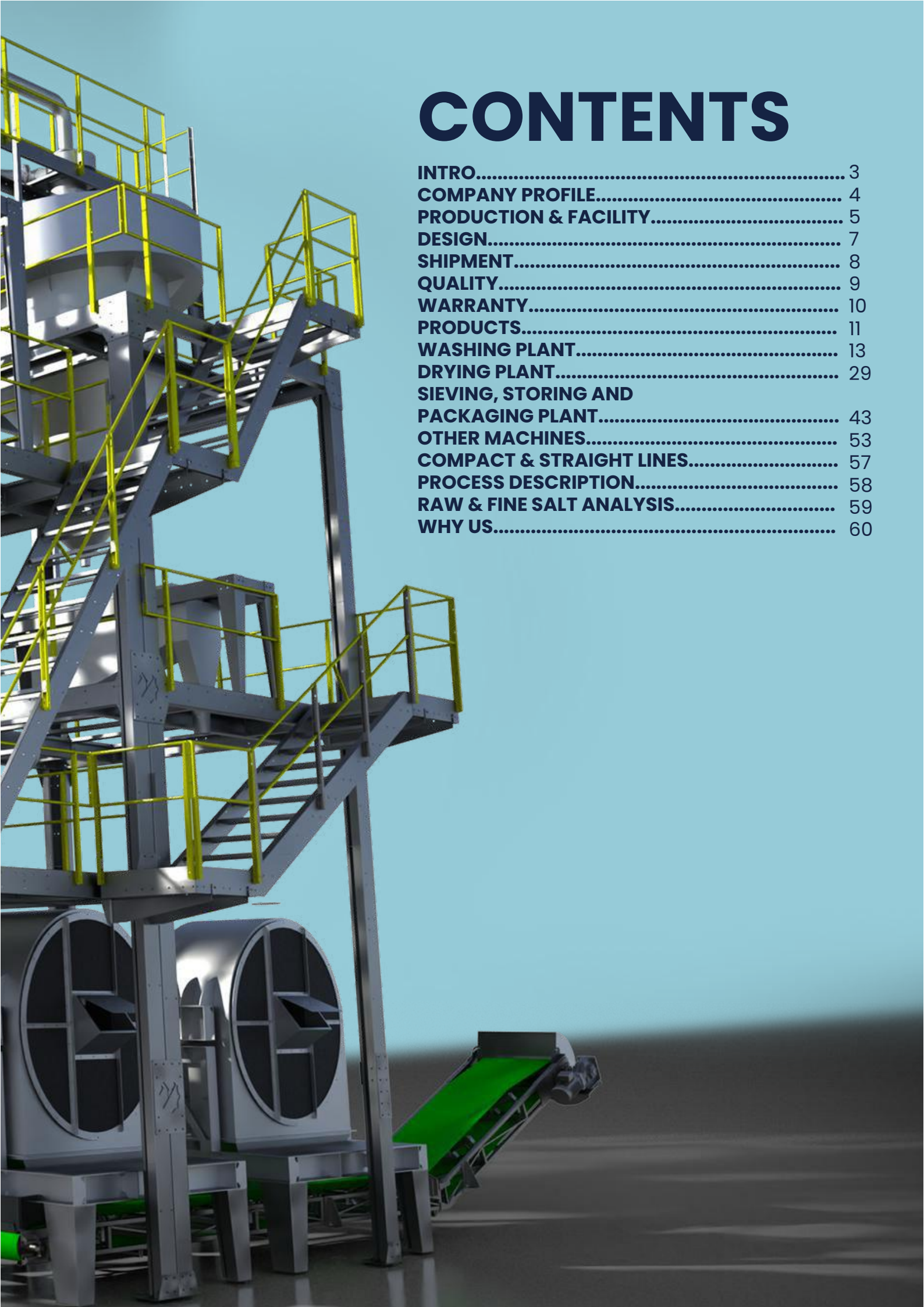


CATALOG

PROSALT
Like Pearls





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INTRO

A Message from the Founder

In 1984, I founded this company with a simple but determined vision: to do my job in salt machinery production with patience, integrity, and an unwavering commitment to quality.

Over the past 40 years, that vision has evolved into a global enterprise. What started as a local workshop is now a trusted name in the international salt industry—operating in more than 26 countries and processing over 60 million tons of salt annually with over 90 turnkey facilities.

Throughout this journey, we've held firmly to a few unshakable principles: hard work, honoring our word, and ensuring absolute customer satisfaction. These values have shaped not only our machines, but also the way we work with our partners and clients around the world.

At Prosalt®, we believe salt deserves to be processed with the same precision and care it brings to the industries it serves. Raw salt, while rich in sodium and chloride ions, carries impurities that can damage equipment, reduce efficiency, and disrupt production. Our goal has always been to transform that raw material into high-purity salt—reaching up to 99.97%—to meet the rigorous standards of modern industry.

We've come a long way, but the essence of our work remains the same. We design and deliver solutions that are built to last. And as we look toward the future, we remain committed to exceeding expectations, embracing innovation, and supporting every customer with the same care that brought us here.

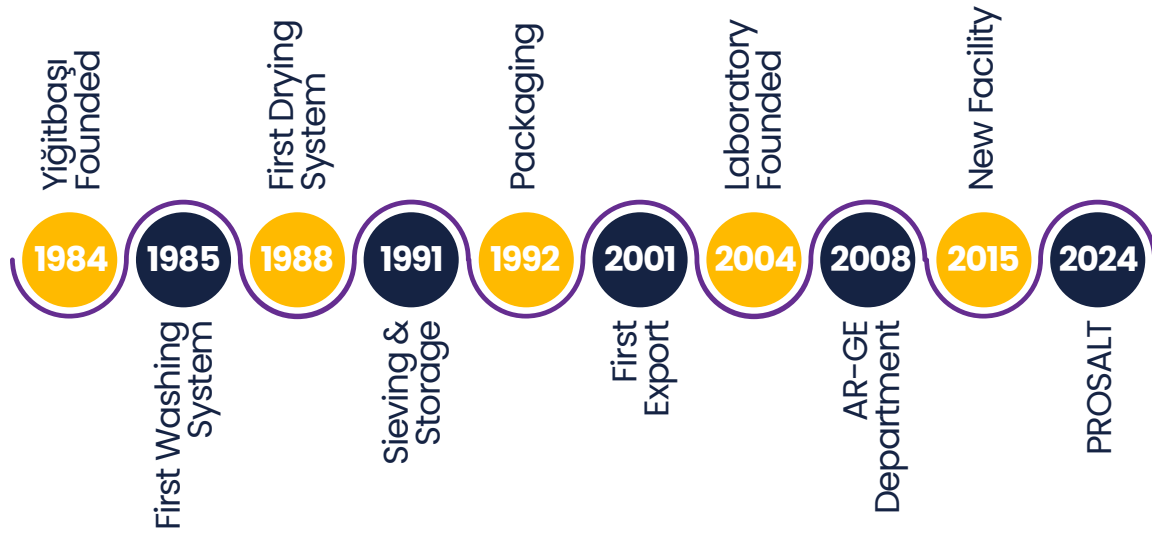
To all our colleagues, partners, and customers: thank you for your trust, support, and collaboration over the years. You've been a part of this journey—and together, we'll continue shaping the future of the salt industry.

Warm regards,

Kemal Yiğitbaşı

Founder of Yiğitbaşı Salt Machinery Corp

COMPANY PROFILE



Over 90 plants in more than 25 countries.



First Pusher Centrifuge produced with a capacity of 20 tons/hour in Türkiye.



First Conical Centrifuge produced with a capacity of 50 tons/hour in Türkiye.



First modern Salt Washing Plant established in Türkiye.



First company to develop the PCS® and PMS® compact & modular solutions for salt processing plants.

%60

TÜRKİYE MARKET SHARE

%65

EXPORT SHARE IN TOTAL PRODUCTION

60M TON

ANNUAL SALT PRODUCTION CAPACITY

12.000M²

PRODUCTION FACILITY

Core Values

CUSTOMER SATISFACTION

The satisfaction of our customers is at the center of our business. The success of our customers is our success.

QUALITY AND RELIABILITY

Quality and reliability are the foundation of our products and services. We constantly strive to maintain the highest quality standards and provide our customers with reliable products.

INNOVATION AND SUSTAINABLE IMPROVEMENT

Innovation is the key to continuous development and competitive advantage. We are continuously developing new ideas, adopting new technologies and improving our business processes.

COOPERATION AND RESPECT

Cooperation and respect form the basis of our relationships inside and outside the company. Cooperation and solidarity among our employees is the key to our success.

PRODUCTION & FACILITY



We operate with a core belief: engineering excellence begins with field experience and a solid foundation. That foundation is our modern production facility—equipped, efficient, and purpose-built for manufacturing high-quality salt processing machinery.

Modern Production Infrastructure

Our facility features state-of-the-art machinery and advanced systems tailored for high-efficiency, high-precision manufacturing. From CNC machining to laser welding, each step of our workflow is designed to ensure durability, reliability, and consistent output. The layout of our plant allows for both large-scale fabrication and small-batch customization.

Flexible Manufacturing Capabilities

Every project has its own requirements. Our modular production approach allows us to respond quickly to customer demands—whether it's producing multiple systems in parallel or adjusting to special configurations. We're equipped to handle diverse projects, from individual machines to complete turnkey plants, without compromising quality or delivery time.



Quality Control & Assurance

At PROSALT, quality is built into every stage of production. Our comprehensive quality control protocols cover material inspection, in-process monitoring, and final testing. Each product is evaluated against international standards to ensure safety, performance, and longevity in the field.

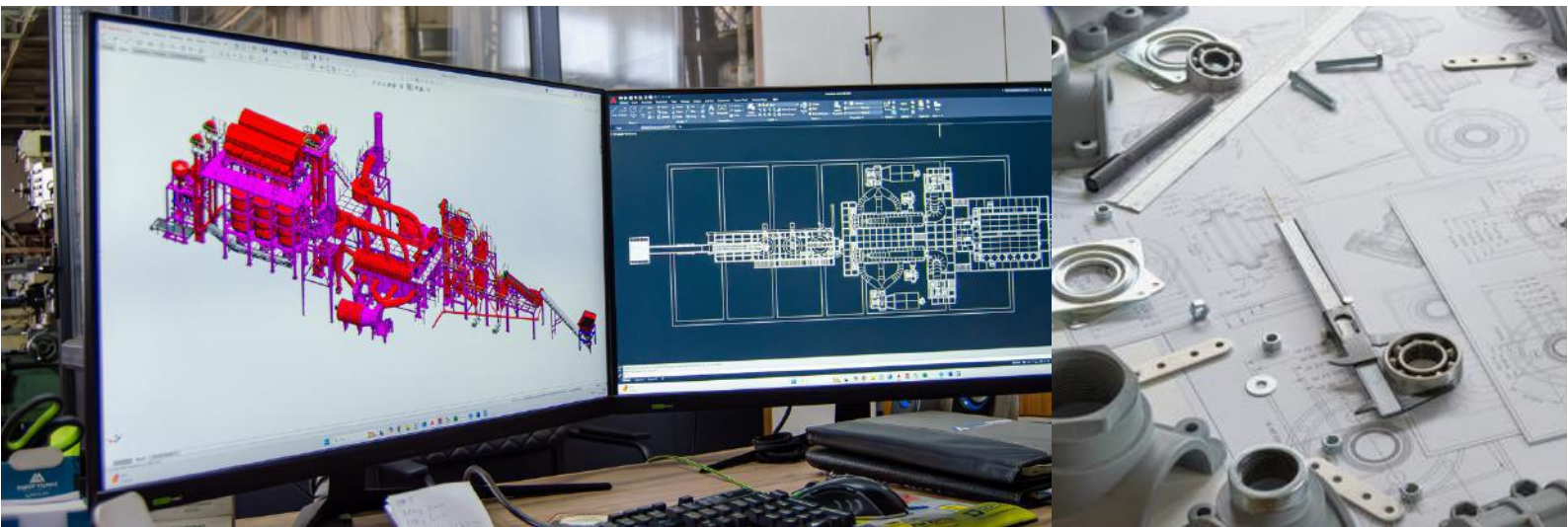
Environment Friendly Manufacturing

Sustainability is integral to our production philosophy. We adopt eco-friendly practices, including efficient energy use, waste minimization, and responsible resource management. Our goal is to reduce environmental impact while delivering world-class equipment—ensuring that our growth aligns with global sustainability goals.

Crafted for Confidence

Behind every PROSALT machine is a team of skilled professionals committed to precision and excellence. From the smallest welded component to the largest processing line, we manufacture with pride—knowing that our work supports critical industrial operations around the world.

DESIGN



Tailored Engineering for Every Project

Every facility begins with design—because non of salt operations are similar. Our design team collaborates closely with each customer to create custom solutions that match specific capacity, layout, and process requirements.

Whether it's adapting to limited space, integrating with existing infrastructure, or meeting high-volume production targets, our approach is always the same: understand the need, design the perfect fit, and deliver with precision.

All of our systems are engineered with 40 years of field experience, using advanced 3D modeling and simulation tools, enabling clear visualization and flawless execution. From initial concept to detailed technical drawings and realistic renders, we ensure every solution carries the hallmark of PROSALT quality—efficient, scalable, and built to perform.

Our commitment to design excellence is what turns ideas into reality—and plants into long-term success stories.

SHIPMENT



Packaged with Precision. Shipped Worldwide.

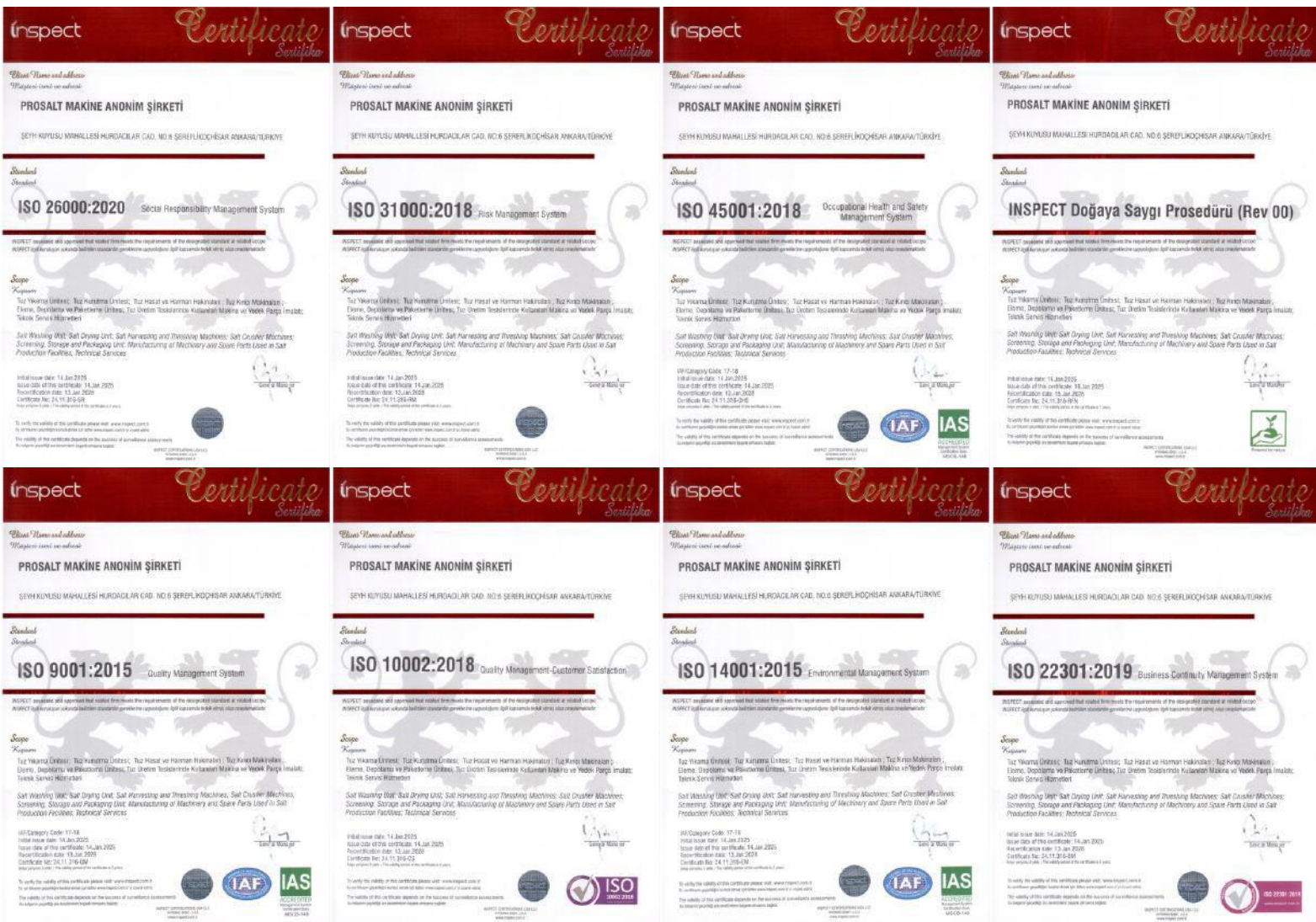
We ensure that every shipment reflects the same precision and care as our production. Each machine is carefully packed, labeled, and loaded for safe transport—whether it's a single unit or a complete turnkey facility.

We operate under EXW (Ex Works) terms, meaning customers arrange their own logistics and freight operations directly from our factory. However, our experienced team provides full support throughout the preparation process, including:

- Professional packaging and load optimization
- Container planning and coordination
- Technical loading supervision
- Export documentation support upon request

Our facility is equipped to handle both containerized and oversized equipment with ease. Over the years, we've successfully shipped to more than 25 countries across 5 continents, adapting to various shipping standards and client preferences. From factory floor to port, every shipment is handled with a focus on protection, timing, and traceability—ensuring our machinery arrives ready to perform.

QUALITY



Standards You Can Trust

At PROSALT, quality is at the core of everything we do with our 40 years of experience. Our operations are certified under leading international standards.

These certifications reflect our commitment to excellence—from engineering precision and safety to environmental responsibility and customer care.

Every machine we deliver is rigorously tested, fully traceable, and built to meet the highest global standards.

WARRANTY

Support That Lasts Beyond Delivery

Every PROSALT system comes with a comprehensive warranty, backed by our commitment to long-term performance and customer satisfaction.

Included With Every Project:

- **Warranty Coverage:** All machines are covered under PROSALT's standard warranty terms (details provided separately).
- **Plant Operation & Maintenance Manuals:** Delivered with each facility for seamless operation and upkeep.
- **Operator Training & Certification:** On-site or remote training for customer personnel, including official PROSALT certificates upon completion.
- **After-Sales Support:** Our team remains available to assist with technical questions, spare parts, and system optimization.
- **Periodic Maintenance Programs:** Optional service contracts to ensure plant longevity and minimize downtime.

With PROSALT, your investment is supported at every stage—from the first test run to years of dependable operation.





WASHING PLANT



WASHING PLANT



BEST WASHING, MAXIMUM PURITY!

PROSALT Washing Plant provides a comprehensive solution for raw salt processing facilities and ensures the highest purity with its special design. It is optimized for the removal of impurities in raw salt through our 40 years of experience and knowledge.

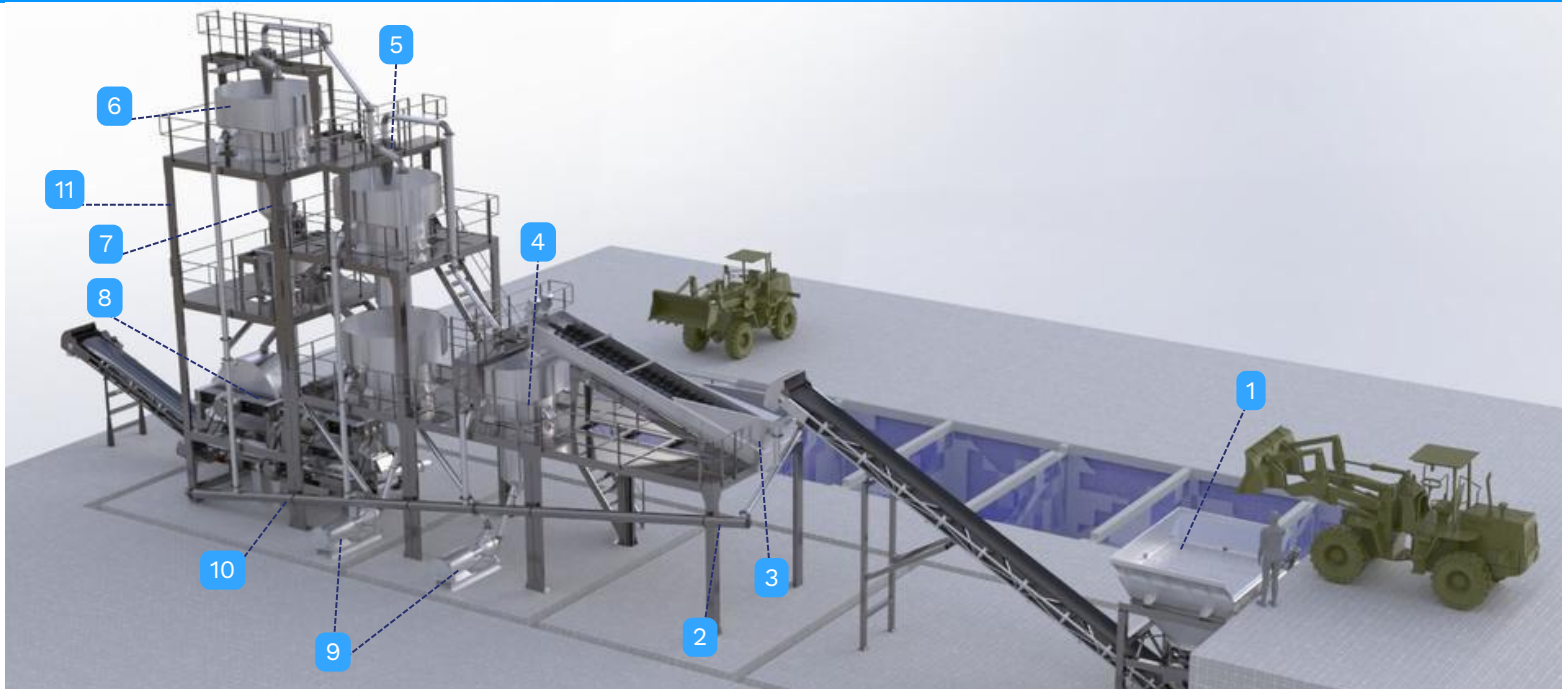
PROSALT achieves maximum purity by adapting traditional mechanical washing methods to a 5-stage cleaning system specially developed as a result of our R&D studies. In this way, while raw salt loss is minimized, the highest efficiency is achieved.

Each washing system is custom-engineered to meet the capacity and layout requirements of the client's facility. Thanks to its modular structure, it can be scaled, relocated, or integrated into existing lines with ease—making it a future-proof investment in salt processing.

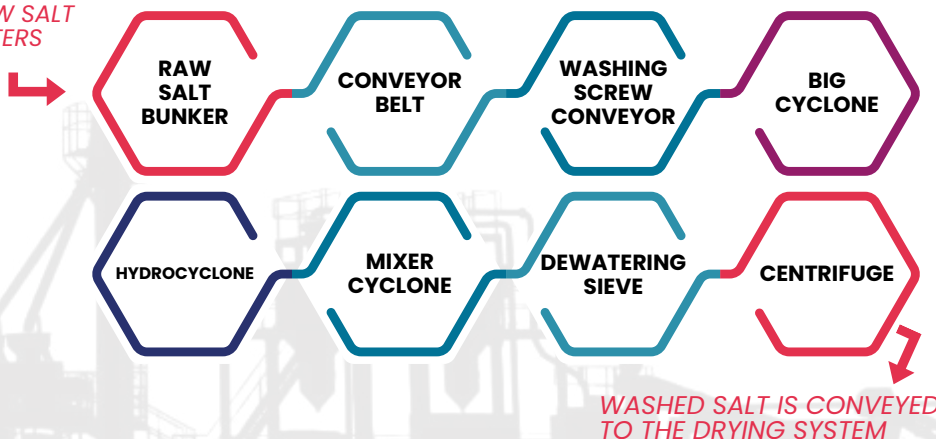


KEY FEATURES

- Washing with 5-stage special PROSALT design
- Providing highest purity
- Minimizing raw salt loss
- Eco-friendly closed circuit operating
- Reduces moisture content to 2%-2,4%
- Durable, modular and safe construction



RAW SALT ENTERS



SAMPLE FACILITY WORKFLOW LEGEND

1. RAW SALT BUNKER
2. CONVEYOR BELT
3. WASHING SCREW CONVEYOR
4. BIG CYCLONE
5. HYDROCYCLONE
6. MIXER CYCLONE
7. DEWATERING SIEVE
8. CENTRIFUGE
9. LAPA PUMPS
10. PIPES AND VALVES
11. PLATFORM

RAW SALT STORAGE BIN

1



TECHNICAL SPECIFICATIONS

UPPER RANGE DIMENSIONS	3000x2200 mm
SUPPORT LEGS	150x150 mm
SUPPORT LEGS LENGTH	2500 mm
BIN MATERIAL	AISI304L
BIN MATERIAL THICKNESS	3 mm

PROSALT Silos allows the raw salt to be sieved and fed continuously to the salt washing system. It offers many important advantages in terms of **uninterrupted and efficient progress of the production process**:



Special Design Vibration Mechanism

The storage discharges smoothly and eliminates the risk of clogging.



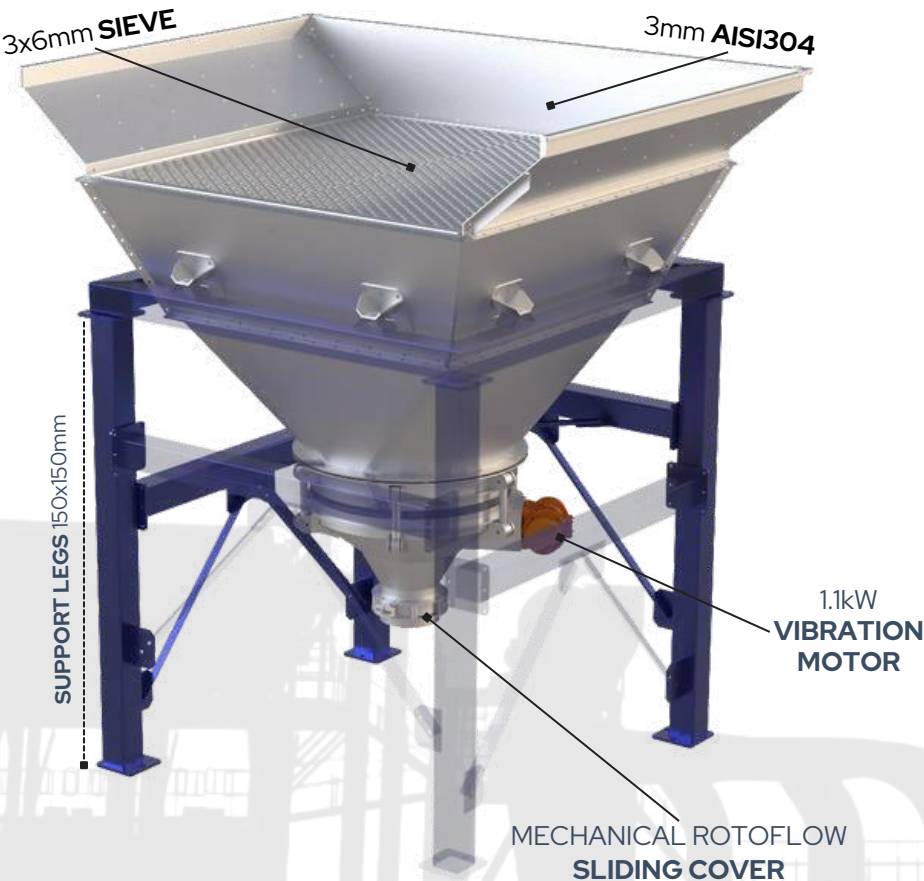
Mechanical Rotator

Allows for precise adjustment of the flow rate, enabling the washing process to occur at an optimal level.



Non-stop Production

Continuous feeding eliminates interruptions in the salt processing line. This increases production capacity and saves time.



SCREW CONVEYOR

PROSALT Screw Conveyor, which is **completely made of stainless steel**, performs the salt conveying process in a closed circuit. This innovative design eliminates contamination risks by preventing external substances reaching the system and pollution of the environment is also avoided. The screw provides many important advantages in salt processing facilities:



Closed Circuit Conveying

The storage discharges smoothly and eliminates the risk of clogging.



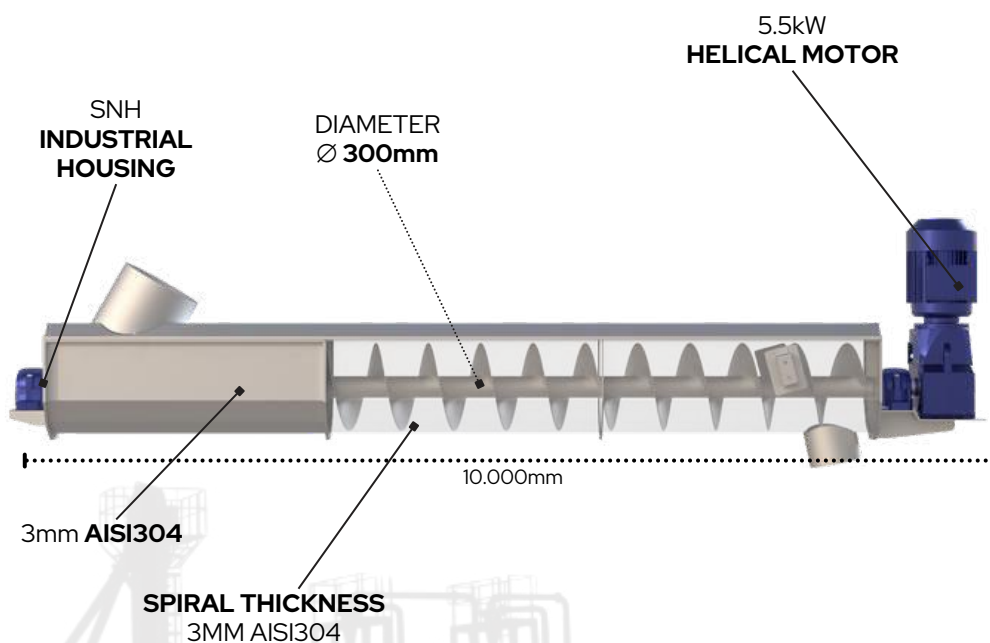
Prevents Ambient Pollution

Allows for precise adjustment of the flow rate, enabling the washing process to occur at an optimal level.



Efficient Conveying

Continuous feeding eliminates interruptions in the salt processing line. This increases production capacity and saves time.



2



TECHNICAL SPECIFICATIONS

TOTAL LENGTH	10.000 mm
SPIRAL TYPE	Ø76 inner billet, AISI 304 stainless steel
SPIRAL OUTER DIAMETER	300 mm
SPIRAL SHEET THICKNESS	3 mm
HOUSING SHEET THICKNESS	3 mm
MOTOR	4 kW Helical

SORTING CONVEYOR BELT

3



PROSALT Sorting Conveyor Belt is designed to remove plastic, iron particles and other impurities that are mixed into the raw salt. This system significantly improves the purity and product quality of salt processing.



High Level Purification

The storage discharges smoothly and eliminates the risk of clogging.



High Quality Salt

Allows for precise adjustment of the flow rate, enabling the washing process to occur at an optimal level.



Scan this QR Code to view the Sorting Conveyor Belt at your venue with our latest AR technology.



TECHNICAL SPECIFICATIONS

TOTAL LENGTH 6,000 mm

SPIRAL TYPE Ø114 inner billet, AISI 304 stainless steel

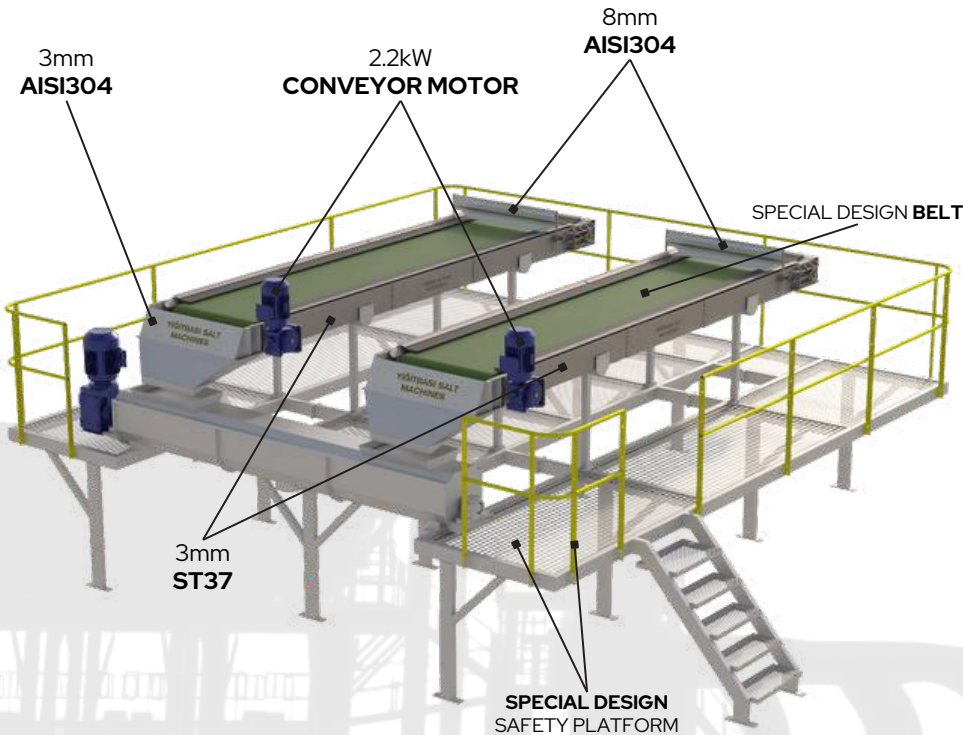
SPIRAL OUTER DIAMETER 450 mm

SPIRAL SHEET THICKNESS 3 mm

HOUSING SHEET THICKNESS 5 mm

FRAME MATERIAL 3 mm AISI 304 & 3 mm ST37

MOTOR 7.5 kW Helical



WASHING SCREW CONVEYOR

PROSALT Washing Screw Conveyor is a custom-engineered machine to clean dust and similar impurities from the raw salt. Through the washing process carried out by high pressure water spraying method, the salt process becomes more pure and high quality.



Higher Purity

The storage discharges smoothly and eliminates the risk of clogging.



Durable Design

Allows for precise adjustment of the flow rate, enabling the washing process to occur at an optimal level.



Increased Productivity

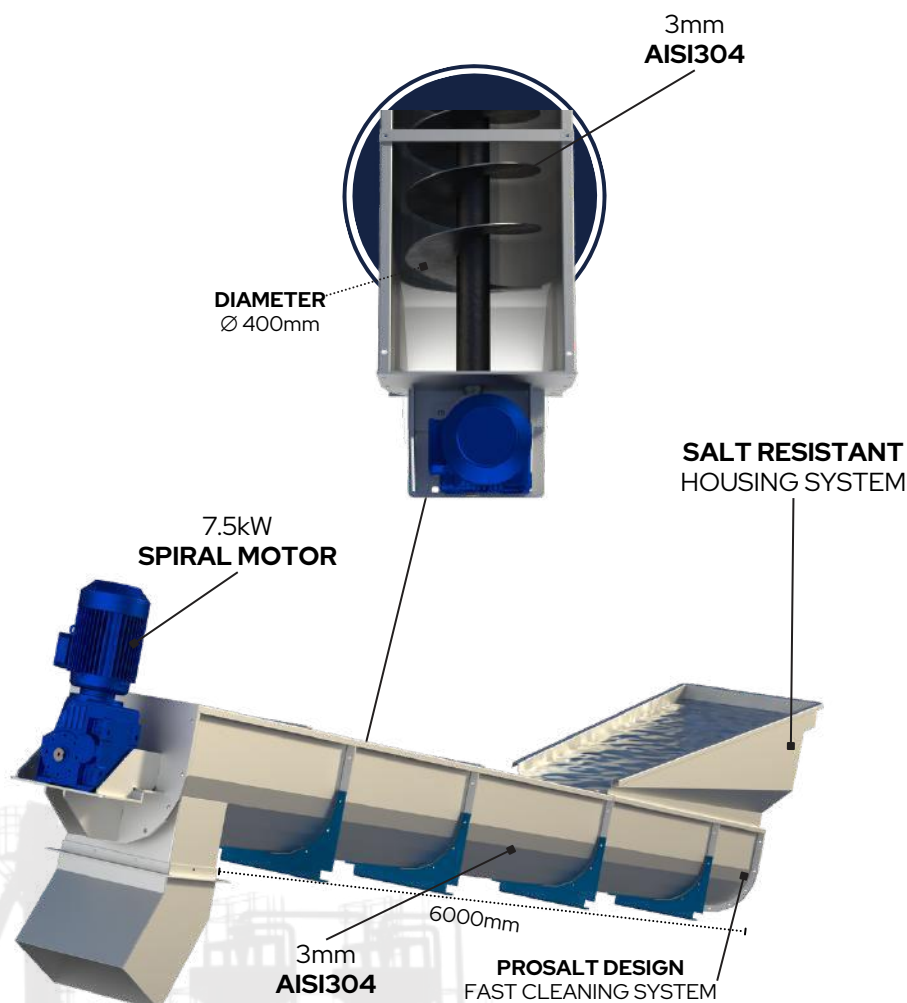
Continuous feeding eliminates interruptions in the salt processing line. This increases production capacity and saves time.

4



TECHNICAL SPECIFICATIONS

TOTAL LENGTH	6,000 mm
SPIRAL TYPE	Ø114 inner billet, AISI 304L stainless steel
SPIRAL OUTER DIAMETER	450 mm
SPIRAL SHEET THICKNESS	4 mm
HOUSING SHEET THICKNESS	10 mm
HOUSING MATERIAL	3 mm AISI 304 & Salt-Resistant / 3 mm AISI 304 (visible in render)
MOTOR	7.5 kW Helical



MIXER CYCLONE

5

PROSALT Mixer Cyclone is specifically designed to remove the remaining impurities by homogeneously mixing with a rotating mechanism. This system allows you to achieve high product quality in salt processing.



Homogeneous Mixing

Impurities are evenly distributed and cleaned by the rotating mechanism.

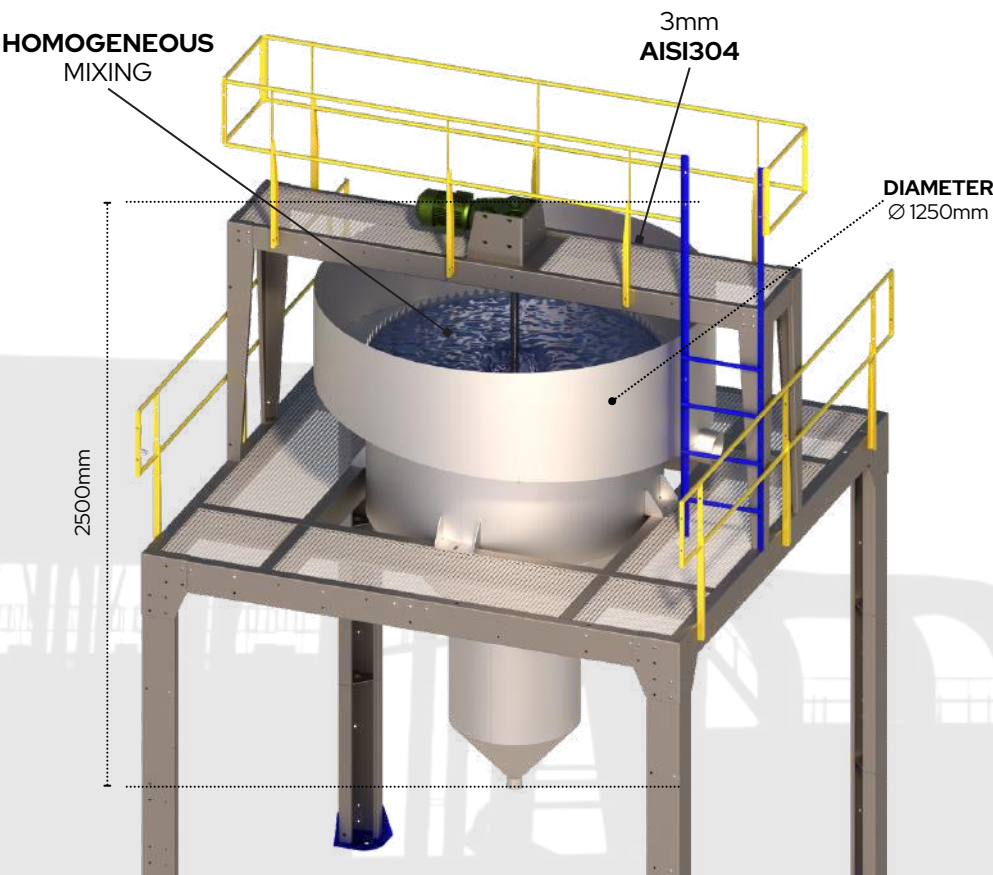


Scan this QR Code to view the Mixer Cyclone at your venue with our latest AR technology.



TECHNICAL SPECIFICATIONS

CYCLONE DIAMETER	Ø 2,300 mm
CYCLONE HEIGHT	3,165 mm
MATERIAL	AISI 304L, 3 mm stainless steel
MIXING SYSTEM	Homogeneous Mixing
MOTOR	3 kW



As the final stage of the washing plant, the PROSALT Big Cyclone plays a critical role in achieving the highest salt purity. This powerful separator efficiently separates larger salt particles from the salt solution, improving the quality of the final product.



Increased Product Quality

More pure salt leads to a better taste, better consistency and suitability for various applications in the food and chemical industries.



Scan this QR Code to view the Big Cyclone at your venue with our latest AR technology.



HOMOGENEOUS MIXING

3mm AISI304

DIAMETER
Ø 1250mm

2500mm

PROSALT SPECIAL DESIGN

LEVEL DETECTION WINDOWS

TECHNICAL SPECIFICATIONS

CYCLONE DIAMETER Ø 2,300 mm

CYCLONE HEIGHT 3,100 mm

MATERIAL AISI 304L, 3 mm stainless steel

MIXING SYSTEM Homogeneous Mixing

RECYCLED WATER EXIT DIAMETER Ø 139 mm

HYDRO CYCLONE

7

PROSALT Hydro Cyclone is designed to improve the quality and purity of the final product by acting as a density-based separator.



Elimination of Heavy Impurities

When a brine mixture containing impurities such as sand, clay particles or other dense substances enters the hydrocyclone, centrifugal force expels these heavy impurities.



Pure Salt Provides Higher Efficiency

The salt solution, free of impurities, flows more smoothly through your facility. This saves time by reducing blockages and speeding up the processing flow.



TECHNICAL SPECIFICATIONS

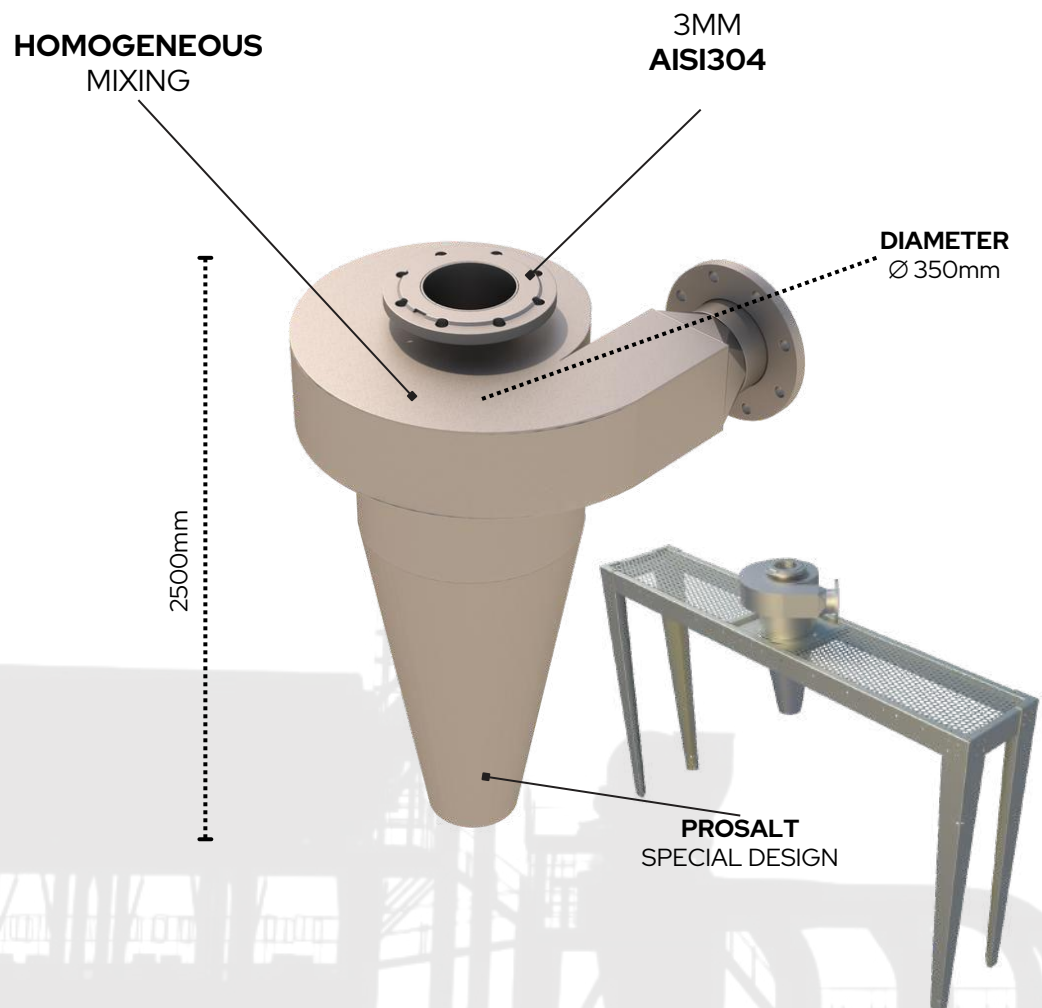
CYCLONE DIAMETER 350 mm

CYCLONE HEIGHT (ACTUAL) 1,000 mm

MATERIAL AISI 304L, 3 mm stainless steel

INLET PORT DIAMETER Ø 139 mm

OUTLET PORT DIAMETER Ø 139 mm



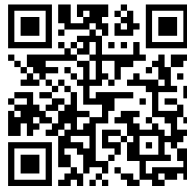
DEWATERING SIEVE

PROSALT Dewatering Sieve is a special screen for separating washed salt from water in salt processing systems. This innovative solution recovers most of the salt particles that would otherwise be lost with water, significantly increasing production efficiency and profitability.



Minimizes Salt Loss

By its PROSALT special design, Dewatering Sieve minimizes salt loss from the process, increasing efficiency and profitability.



Scan this QR Code to view the Dewatering Sieve at your venue with our latest AR technology.



8



TECHNICAL SPECIFICATIONS

LENGTH 1,600 mm

WIDTH 610 mm

SCREEN SPACING 0.2 mm

MATERIAL AISI 304L, 3 mm stainless steel

CENTRIFUGE

9



PROSALT Centrifuge is a custom-engineered machine to prepare washed and cleaned salt ready for processing. This innovative product, with its specially designed baskets and high-speed rotating mechanism, reduces the moisture content of the salt down to 2%-2.4%, making it ideal for drying.



Low Moisture Ratio

The PROSALT Centrifuge provides excellent dewatering by reducing the moisture content of the salt. This prevents the salt from clumping.



Homogeneous Dewatering

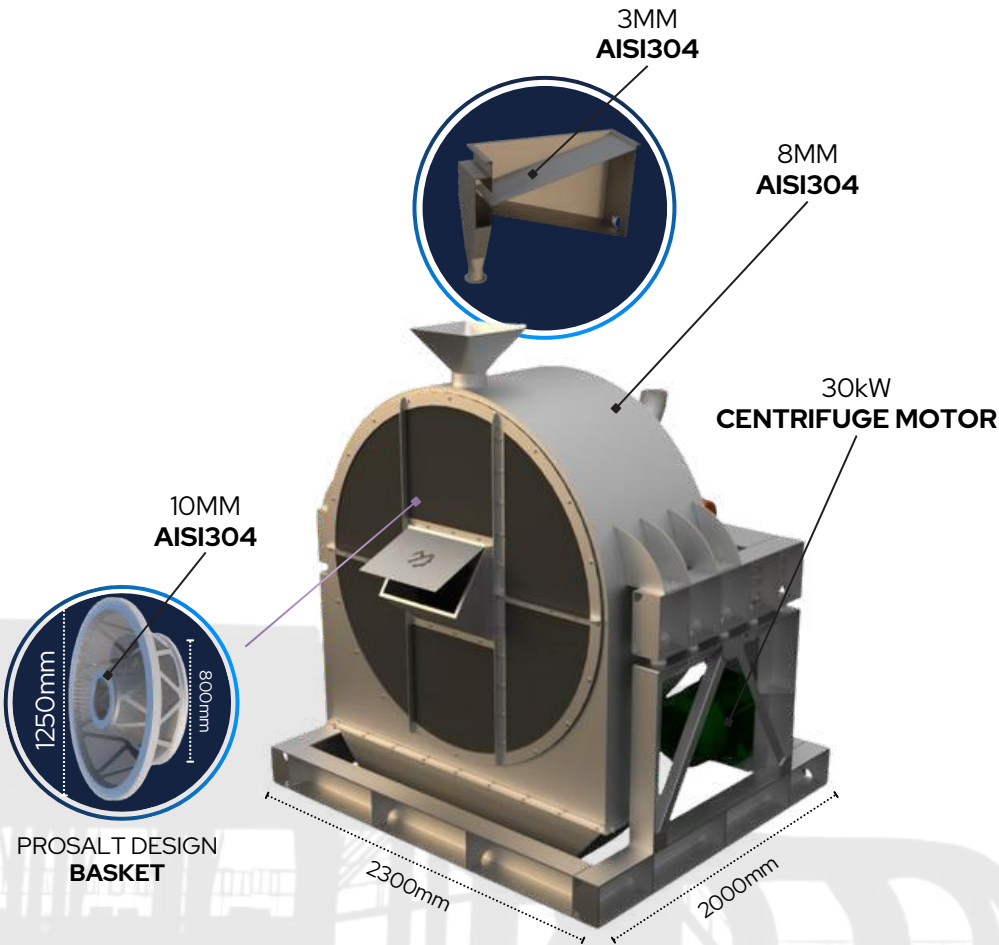
It homogeneously separates the salt from the water in the salt solution and reduces it to the ideal moisture content. This improves the quality and consistency of your final product.

Scan this QR Code to view the Centrifuge at your venue with our latest AR technology.



TECHNICAL SPECIFICATIONS

DIMENSIONS	2,300 × 2,550 × 2,000 mm
CONTACT MATERIAL	All salt-contact parts made of AISI 304 stainless steel
BASKET TYPE	Double Basket with AISI 304 Sieves
OUTER BASKET DIAMETER	745 mm
INNER BASKET DIAMETER	665 mm
MOTOR	22 kW



PUSHER CENTRIFUGE

The PROSALT Pusher Centrifuge is engineered to efficiently reduce salt moisture levels to as low as 2.5–3%, delivering continuous, high-capacity performance for salt washing and refining systems. Built with double AISI304L stainless steel baskets, it ensures long-term resistance against corrosion, vibration, and high centrifugal forces.

Ideal for large-scale operations, this centrifuge operates with minimal maintenance and maximum reliability—even under demanding process conditions.



Double-Basket System



Corrosion-Resistant Build



Low Moisture Output

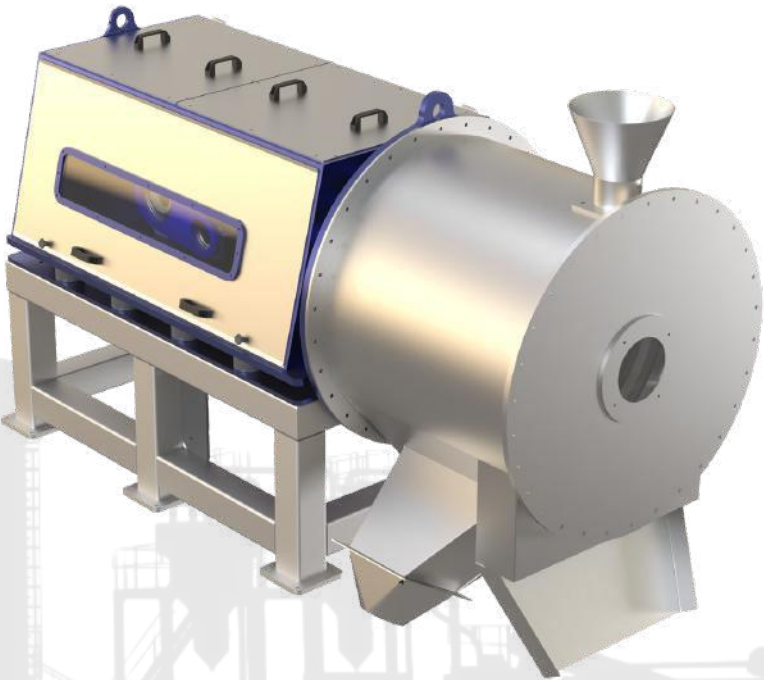


Heavy-Duty Performance

10



Scan this QR Code to view the Pusher Centrifuge at your venue with our latest AR technology.



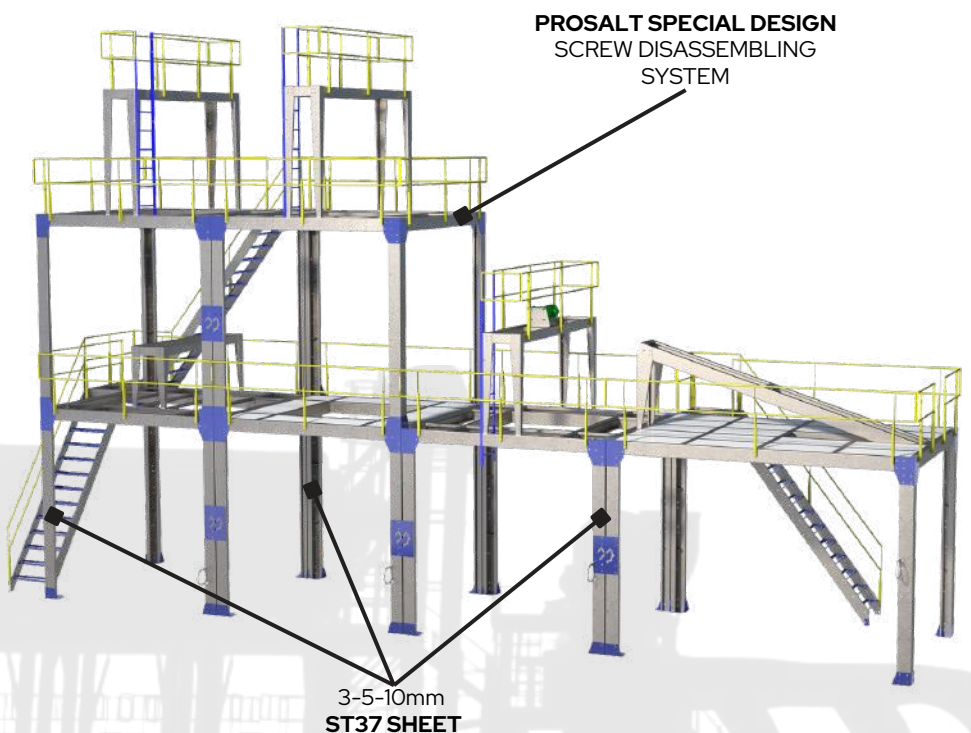
TECHNICAL SPECIFICATIONS

DIMENSIONS	2640 × 1180 × 1700 mm
CONTACT MATERIAL	AISI 304L Stainless Steel
OUTER BASKET DIAMETER	745 mm (AISI 304L SS)
INNER BASKET DIAMETER	665 mm (AISI 304L SS)
CENTRIFUGE MOTOR	22 kW
PUSHER MOTOR	5.5 kW
HYDRAULIC OIL MOTOR	1.1 kW



TECHNICAL SPECIFICATIONS

MATERIAL	A-Quality ST-37 Sheet (3-10 mm thickness)
STRUCTURE TYPE	Modular, Detachable System
WALKWAYS	CTP Grid Walkways
COATING	Two coats epoxy primer + two coats acrylic paint



Salt Washing Plant's platform is an innovative solution for organized and durable washing operations. With its modular and removable system, it can be easily transported and installed wherever you need it. This adds flexibility and efficiency to your processing line.



Organized and Durable

The robust and durable construction guarantees years of reliable use.



Modular System

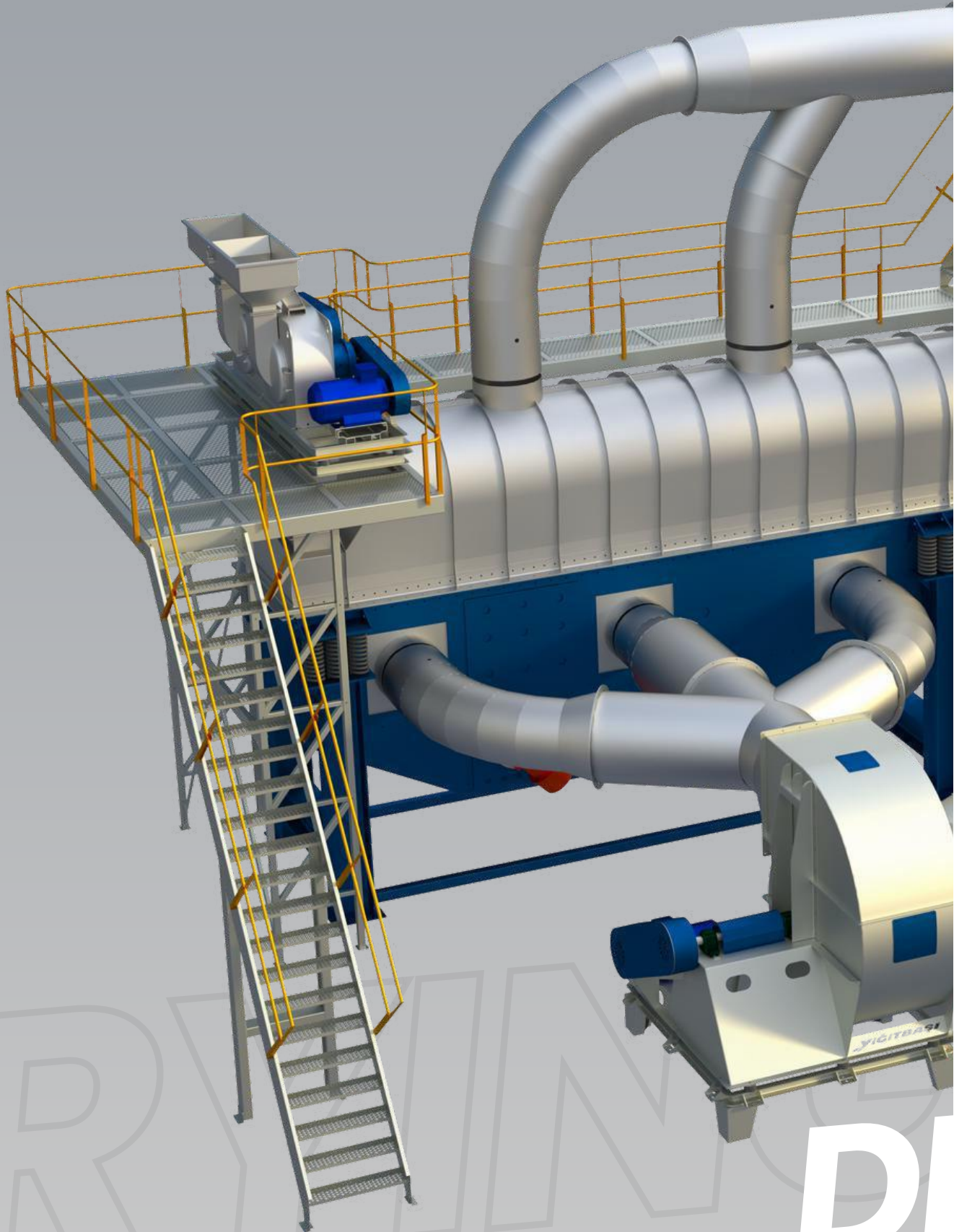
It can be easily transported and installed as needed. When you need to relocate your production line, you can easily disassemble and reassemble the platform.



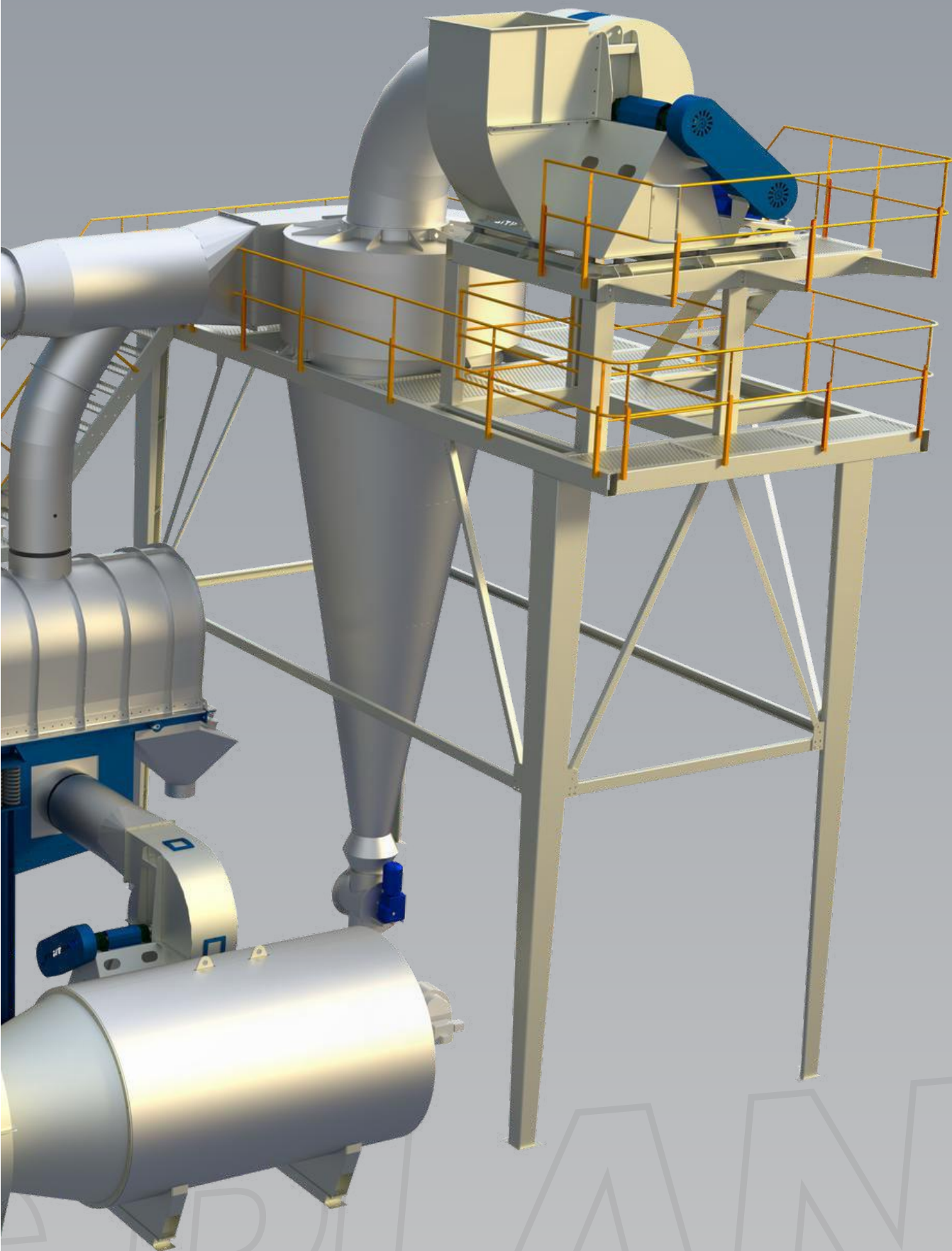
Fully Modular Construction

No welding is required for platform installation. This significantly reduces installation time and cost.



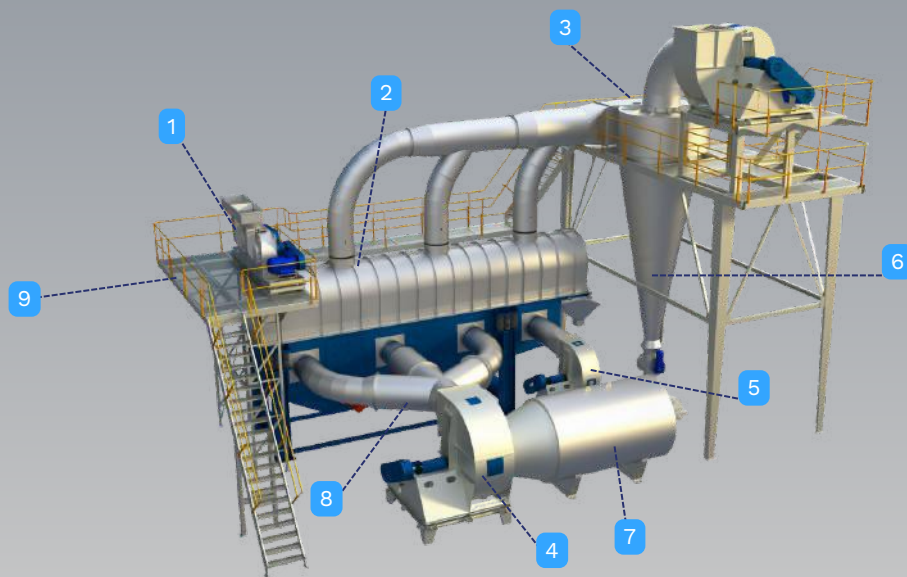


DRYING
DI



DRYING PLANT

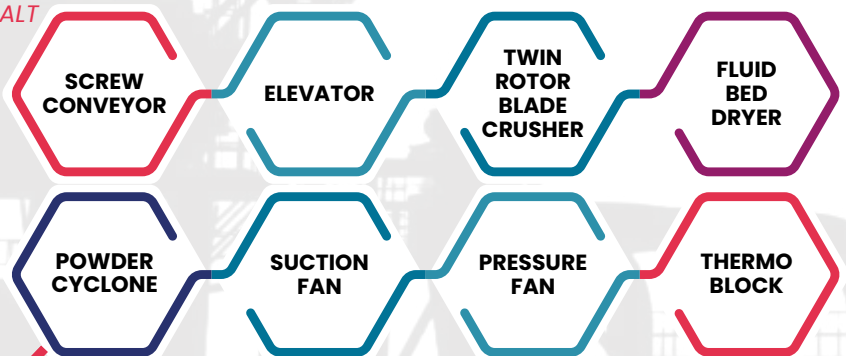
DRYING PLANT



SAMPLE FACILITY WORKFLOW LEGEND

1. TWIN CRUSHER
2. FLUID BED DRYER
3. SUCTION FAN
4. PRESSURE FAN
5. SHOCKING FAN
6. POWDER CYCLONE
7. THERMOBLOCK
8. CHIMNEY PIPES
9. PLATFORM

WASHED SALT
ENTERS





KEY FEATURES

- Specially designed vibration mechanism on the dryer.
- Isolated thermoblock saving 12% to 16% on gas consumption.
- Low operational cost.
- Unique salt powder collection system.
- Eco-friendly closed-circuit operation.
- Reduces moisture content to 0.001%–0.002%.

DRY, PURE, PROSALT.

Experience the privilege!

While we ensure efficient and effective salt processing with advanced technologies, we guarantee consistent, high-quality products with our 40 years of experience.

Our high-tech drying plant is specially designed to achieve the optimal drying process with minimal energy consumption. With the isolated structure of the thermoblock, you will save 12% to 16% on total gas consumption.

The improved PROSALT technology will collect the salt powder from the dryer, ensuring a standardized final product.

The eco-friendly nature of our machines gives you the privilege of producing the finest refined salt at the lowest operational cost.

ROTOR BLADE CRUSHER

1



PROSALT® Rotor Blade Crusher is a durable, high-performance piece of equipment integrated into the Drying Plant. It is designed to reduce salt to the desired size during the processing.

Featuring patented specially designed crushing blades and a double-stage sizing system, the PROSALT® Rotor Blade Crusher sizes the salt to uniform particles, resulting in a homogeneous product. This improves the quality and consistency of the final product.

Whether you're optimizing or upgrading your plant, this machine is designed to deliver reliable performance.



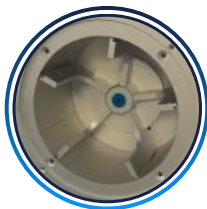
Homogeneous Sizing



High Capacity



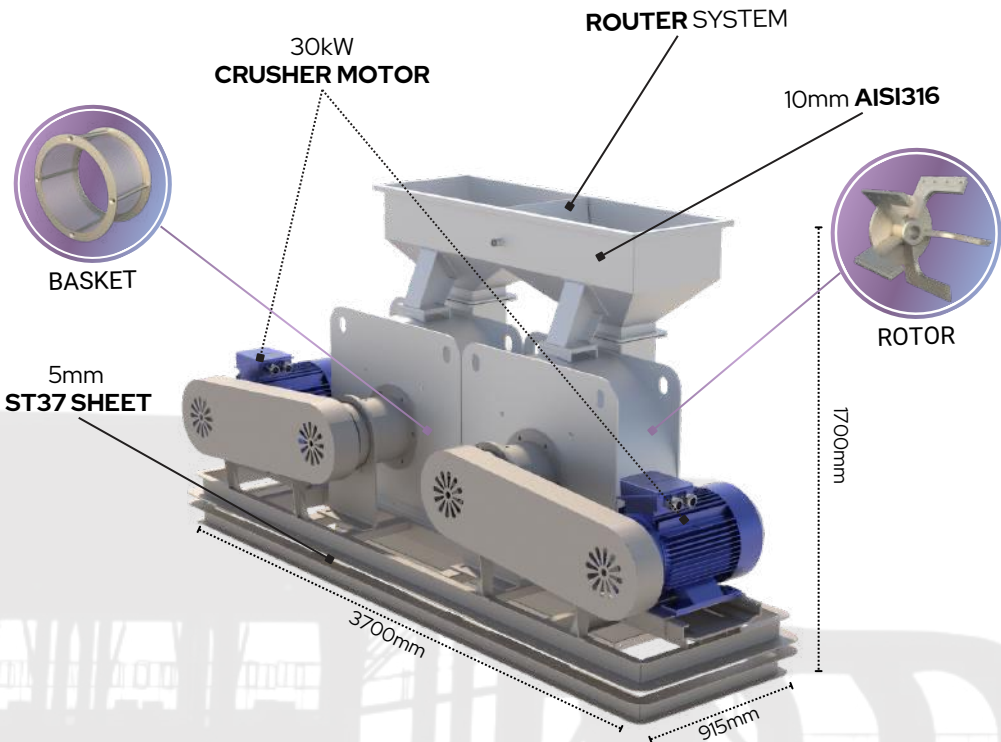
EASILY REMOVABLE
ROTORS



REVERSIBLE &
REPLACABLE
ROTOR BLADES

TECHNICAL SPECIFICATIONS

DIMENSIONS	2000X1000X350mm
CHASSIS MATERIAL	5mm ST-37 Steel
BODY MATERIAL	A quality AISI304SS
BASKET DIAMETER	600mm
BLADES	5+5
BLADE DIMENSIONS	40X10X292MM
ROTOR SPEED	1450 RPM
MACHINE WEIGHT	1,500 KG



FLUID BED DRYER

PROSALT Fluid Bed Dryer is a high-performance equipment specifically designed to dry salt crystals evenly and quickly. Regarding its features of even and specific air circulation, it ensures the most effective dehumidification and quality improvement of the salt.



Equal and Fast Drying

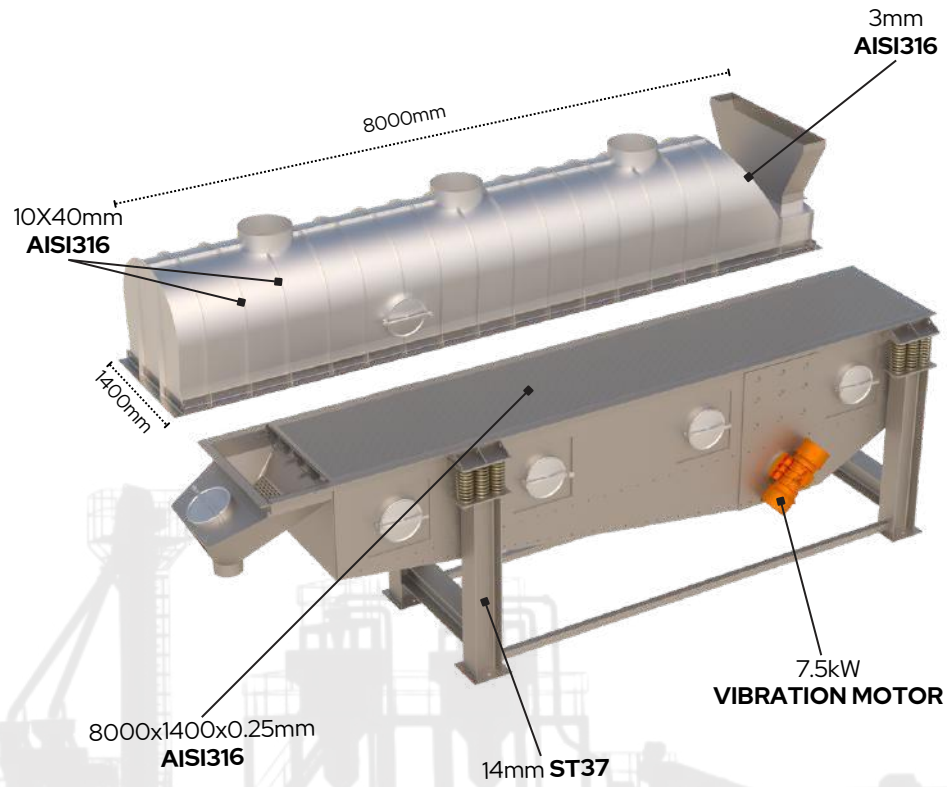
2

Scan this QR Code to view the Fluid Bed Dryer at your venue with our latest AR technology.



TECHNICAL SPECIFICATIONS

DIMENSIONS	9640x4550x2170 mm
SIEVE	1450x8000 mm
ENTER HUMIDITY	4% to 5% by weight
DRYER SCREEN	0.30 Micron AISI316 SS
DRYER SIEVE SUPPORT BLADES	10x40mm AISI304L SS
INLET AIR TEMPERATURE	180-200°C
OUTLER AIR TEMPERATURE	40-50°C
EXIT HUMIDITY	Max 0.20%



SUCTION FAN

3

PROSALT Suction Fan is designed to optimize the drying process by removing the excess moisture generated during the drying process with its powerful motor and specially designed suction fan blades. The resulting consistent airflow contributes to high quality salt production.



Optimized Drying



Clean and Healthy Working Environment



Scan this QR Code to view the Suction Fan at your venue with our latest AR technology.



TECHNICAL SPECIFICATIONS

FAN OUTLET PORT	900 × 900 mm
FAN SUCTION DIAMETER	1,150 mm
AIR PRESSURE CAPACITY	64,000 m³/h
FAN MOTOR	55 kW
BODY MATERIAL	ST-37
FRAME THICKNESS	6 mm ST-37

**PROSALT
SPECIAL DESIGN
POWER SUPPLY**

900X900mm

CHASIS 5mm
ST37

55kW
FAN MOTOR

AISI316

PROSALT Pressure Fan is designed to effectively circulate hot air inside the dryer with its powerful motor and special design pusher fan wings. It provides efficient and widespread hot air intake, speeding up the drying process and saving energy.



Fast Drying



Energy Saving

4

Scan this QR Code to view the Pressure Fan at your venue with our latest AR technology.



TECHNICAL SPECIFICATIONS

FAN OUTLET PORT 900 × 900 mm

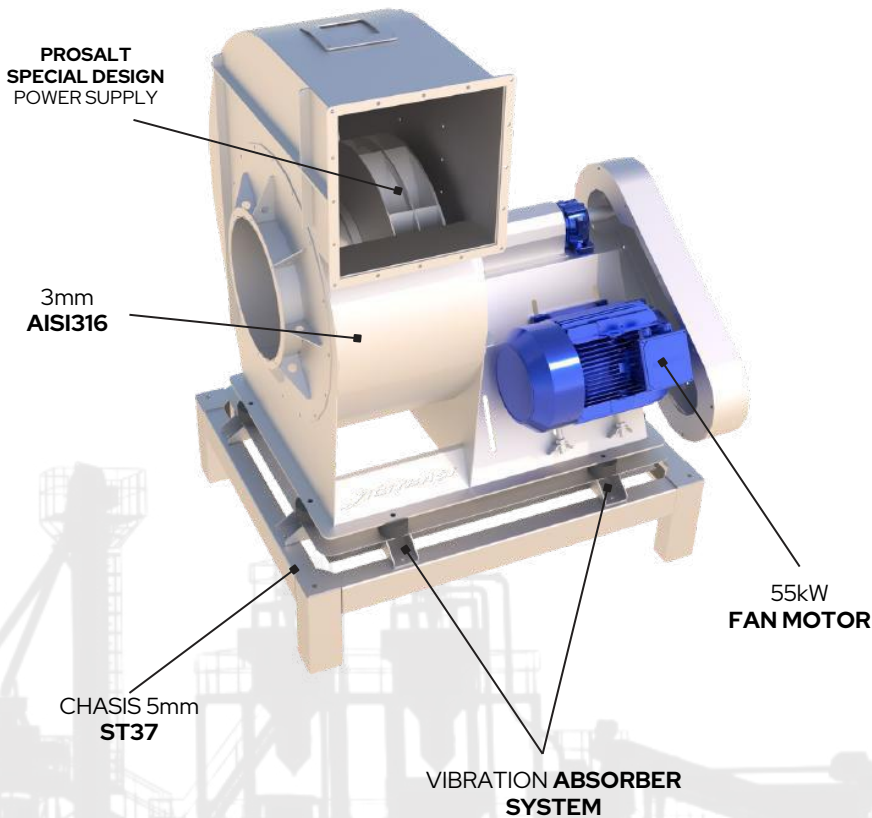
FAN SUCTION DIAMETER 1,150 mm

AIR PRESSURE CAPACITY 64,000 m³/h

FAN MOTOR 55 kW

BODY MATERIAL ST-37

FRAME THICKNESS 6 mm ST-37



SHOCKING FAN

5

PROSALT Shocking Fan is specially designed to ensure that the salt leaving the dryer is gradually brought down to ambient temperature. This process minimizes the risk of salt cracking and breakage, improving the quality and consistency of the final product. The PROSALT Shocking Fan has special wings and a powerful motor for even and efficient circulation of the air.



Improves Salt Quality



Increases Productivity



Scan this QR Code to view the Shocking Fan at your venue with our latest AR technology.



TECHNICAL SPECIFICATIONS

FAN OUTLET PORT	900 × 900 mm
AIR PRESSURE CAPACITY	64,000 m³/h
FAN MOTOR	55 kW
BODY MATERIAL	ST-37
FRAME THICKNESS	6 mm ST-37

PROSALT
SPECIAL DESIGN
POWER SUPPLY

3mm
AISI316

CHASIS 5mm
ST37

VIBRATION ABSORBER
SYSTEM

18kW
FAN MOTOR

PROSALT Chimneys are designed to safely and efficiently exhaust gases generated during the salt processing. With their robust stainless steel bodies, they facilitate air flow, ensuring that the salt production process runs smoothly and safely.



Safe Exhaust Gas Discharge



Efficient Air Flow



Durable

6

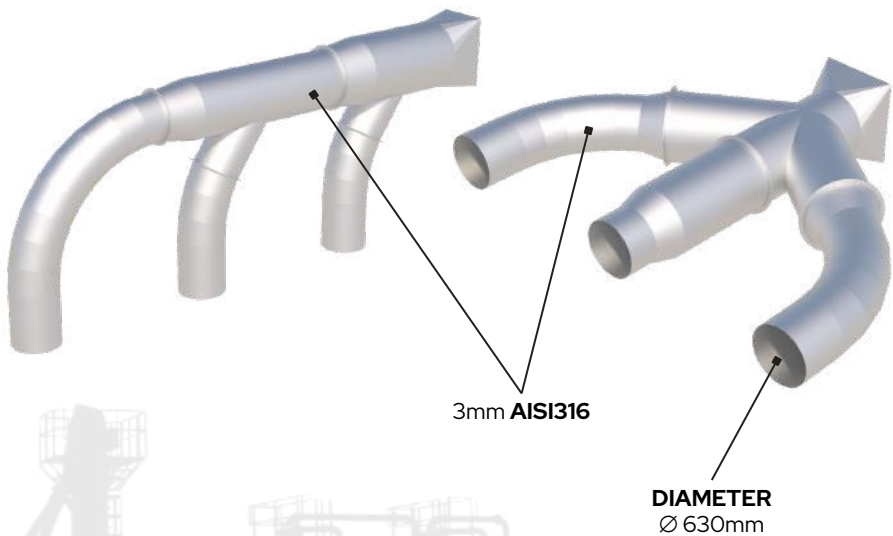


TECHNICAL
SPECIFICATIONS

PIPE
DIAMETER Ø 630mm

MATERIAL AISI 304 Stainless
Steel

WALL
THICKNESS 3 mm



THERMO BLOCK

7

Developed by PROSALT, the Thermoblock is a high-performance heating unit integrated into industrial salt drying systems. It is engineered to provide consistent, efficient, and controlled heating for salt crystals as part of the drying process – ensuring optimal moisture reduction and product consistency.

By delivering homogeneous heat distribution through specially designed directional plates, the Thermoblock eliminates temperature fluctuations that could compromise product quality. Its robust construction and tailored internal insulation system allow for maximum heat retention and energy efficiency.



Precise and Stable Heating



Homogeneous Heat Transfer



Robust Insulation



Process Optimization



TECHNICAL SPECIFICATIONS

DIMENSIONS 4850X2850X1920mm

MACHINE WEIGHT ≈2,150 KG

BODY MATERIAL Inner: AISI 310SS
Outer: AISI 304SS

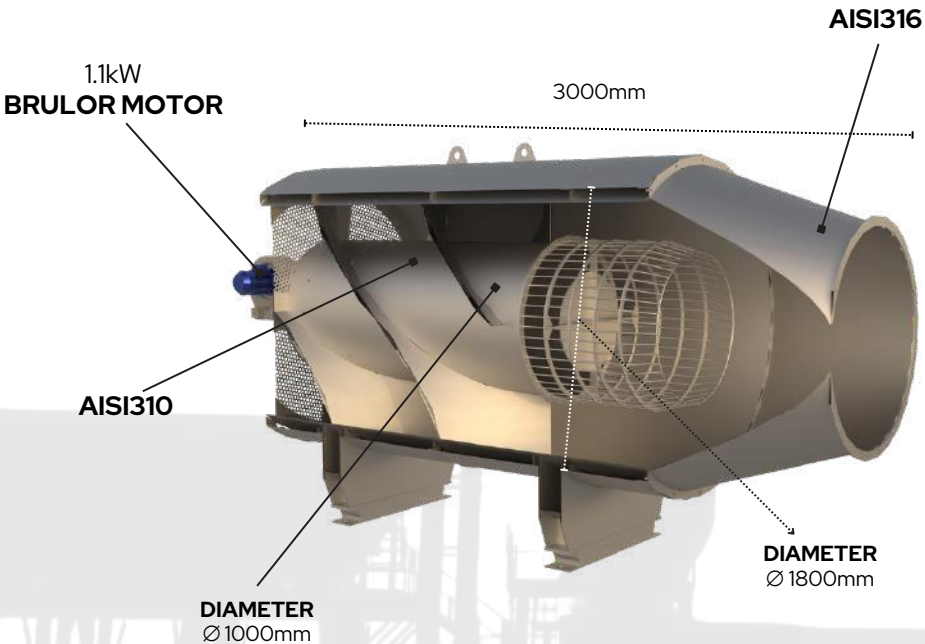
BODY DIAMETER Outer: Ø1920 mm
Inner: Ø1000 mm

INSULATION Rock wool insulation

HEATING SYSTEM Burner-based

OPERATING TEMPERATURE 180°C – 220°C

BRULOR MOTOR 1.1kW



PROSALT Powder Cyclone is designed to remove the smallest particles and salt powders from the system during the processing. By providing effective air circulation, it captures even the smallest salt particles and the system air is exhausted through chimneys.

The PROSALT Air Lock System improves the efficiency of the salt processing by removing the smallest salt particles accumulated in the powder cyclone. It prevents sticking of the powder cyclone by separating the salt particles with the air flow and minimizes salt loss.

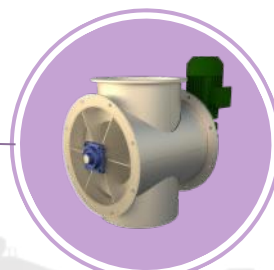
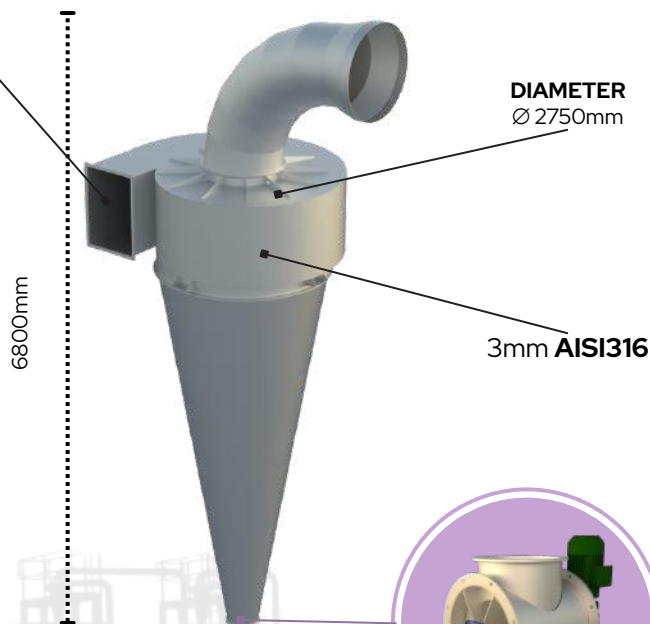


Captures Powdered Salts



Minimizes Salt Loss

DIAMETER
Ø 1000X700mm



AIR LOCK SYSTEM

8



TECHNICAL SPECIFICATIONS

INLET OPENING DIMENSIONS	1,000 × 700 mm
CYCLONE HEIGHT	6,750 mm
OUTLET DIAMETER	Ø 950 mm
BODY DIAMETER	Ø 2750 mm
MATERIAL	3 mm A-Quality AISI 316 Stainless Steel
DISCHARGE SYSTEM	Air Lock System

PROSALT Salt Drying Plant's platform is an innovative solution for organized and durable washing operations. With its modular and removable system, it can be easily transported and installed wherever you need it. This adds flexibility and efficiency to your processing line.



Organized and Durable

The robust and durable construction guarantees years of reliable use.



Modular System

It can be easily transported and installed as needed. When you need to relocate your production line, you can easily disassemble and reassemble the platform.



Fully Modular Construction

No welding is required for platform installation. This significantly reduces installation time and cost.



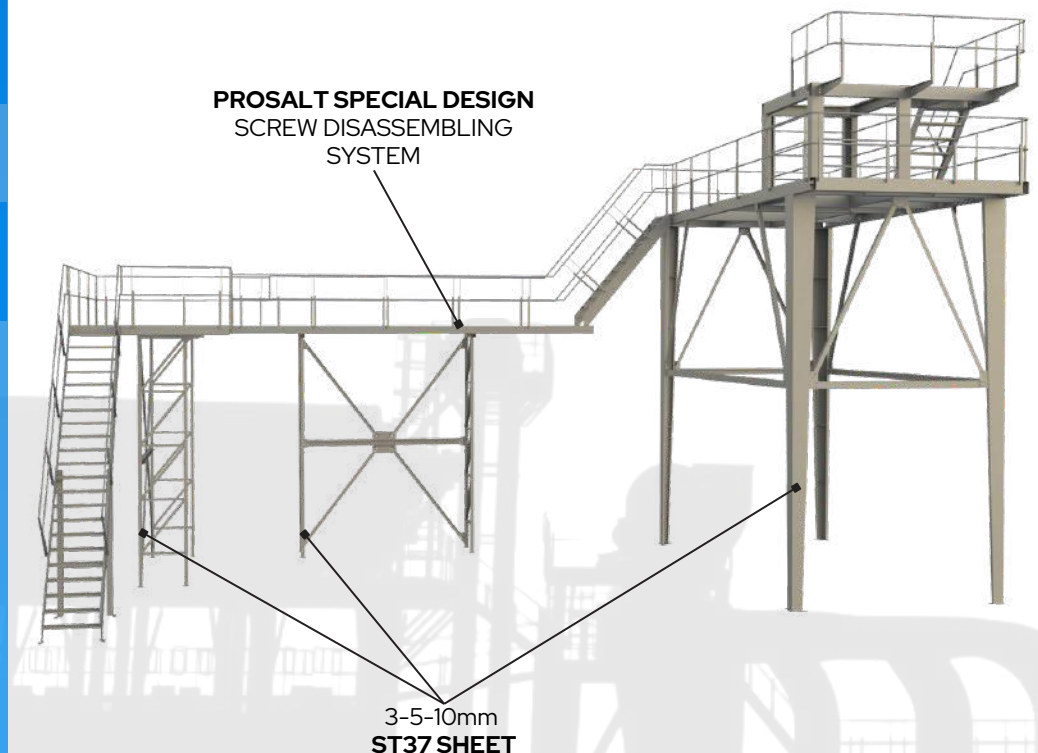
TECHNICAL SPECIFICATIONS

MATERIAL A-Quality ST-37 Sheet (3-10 mm thickness)

STRUCTURE TYPE Modular, Detachable System

WALKWAYS CTP Grid Walkways

COATING Two coats epoxy primer + two coats acrylic paint



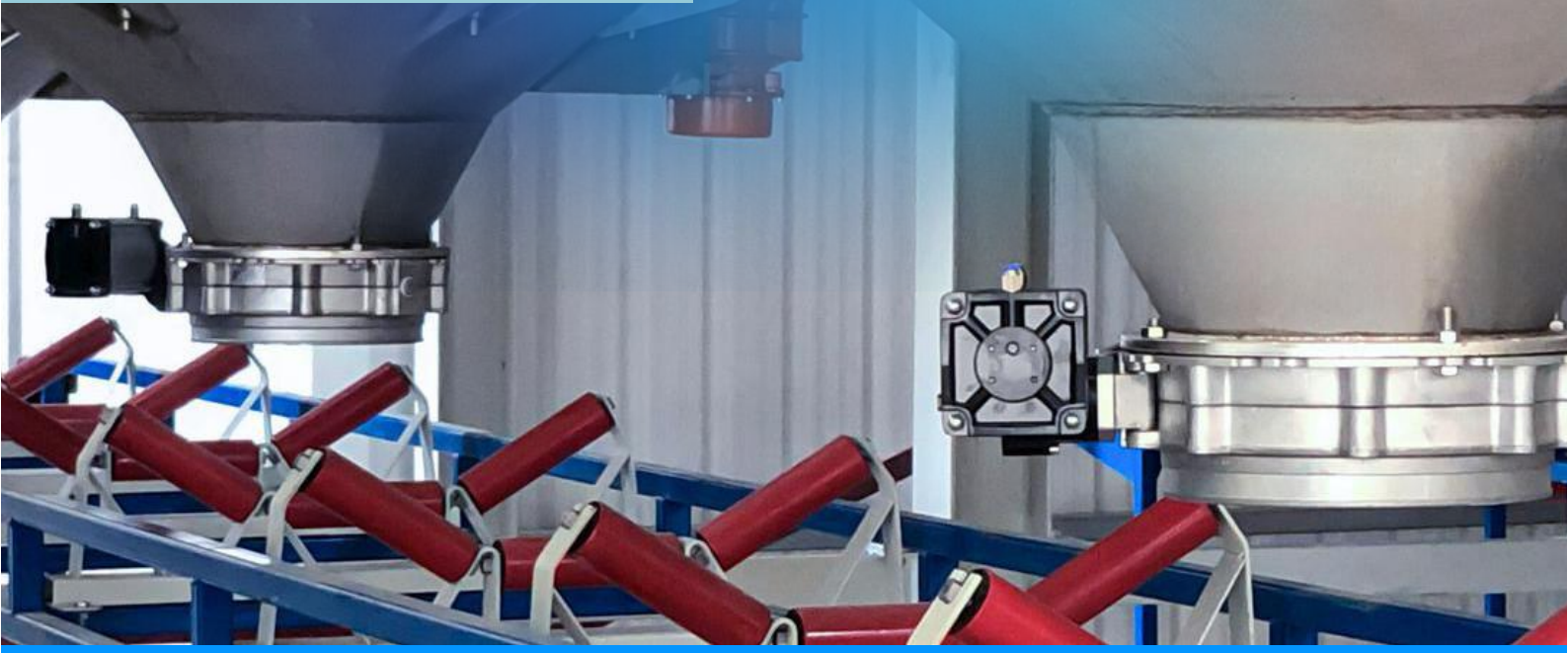


SIEVING, STORAGE & PACKAGING PLANT





SIEVING, STORING & PACKAGING PLANT



UNIQUE PROCESSING

The PROSALT Sieving, Storing, and Packaging Plant provides an integrated solution to your final processing needs.

Our specially designed cylindrical sieve allows you to obtain 7 different sizes of final products. These products are then stocked separately in silos, enabling continued packaging without the need to stop during maintenance and repairs. The closed-circuit processing ensures an eco-friendly and clean environment.

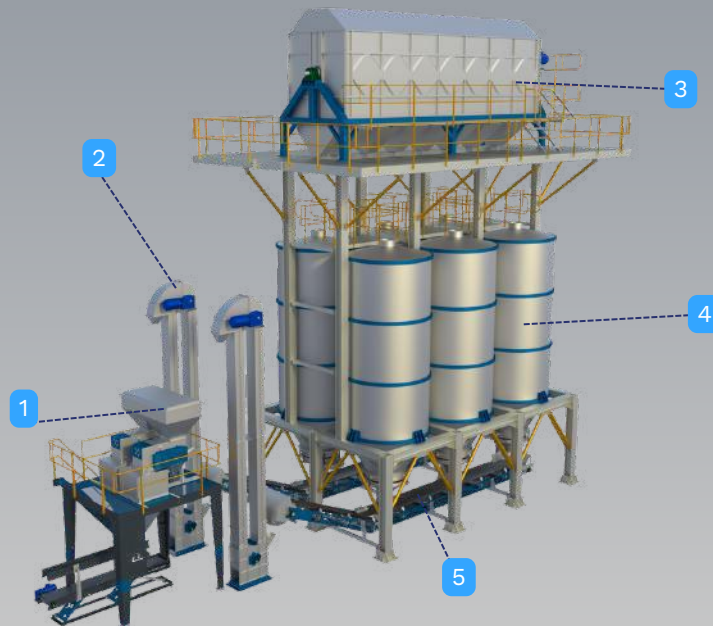
PROSALT-designed packaging machines offer the capability to package your final product beyond your production capacity.

The system is fully modular and scalable—whether for compact facilities or high-throughput operations. It can be customized to match your plant layout, automation level, and packaging format requirements, delivering both flexibility and future readiness.



KEY FEATURES

- Provides an integrated solution to finalizing needs.
- Offers 7 different size separations on one cylindrical sieve.
- Opportunity to stock separately.
- No need to stop during maintenance & repair times.
- Prevents ambient pollution.
- Packaging over the production capacity.



DRIED
SALT
ENTERS

SCREW
CONVEYOR

ELEVATOR

ROTARY
SIEVE

STOCKING
SILOS

PRODUCT

PACKAGING
MACHINE

ELEVATOR

CONVEYOR
BELT

SAMPLE FACILITY WORKFLOW LEGEND

1. PACKAGING MACHINE
2. ELEVATOR
3. CYLINDER SIEVE
4. STORAGE SILOS
5. CONVEYOR BELT

ROTARY SIEVE

1

PROSALT Rotary Screen is a key component of the Screening, Storage and Packaging Plant and is specifically designed to separate salt crystals by size during the process. With its custom-engineered design, the screen ensures a smooth transfer of salt particles to the storage silos, enhancing production efficiency.



Precise Sizing



Smooth Transfer



Scan this QR Code to view the Rotary Sieve at your venue with our latest AR technology.



TECHNICAL SPECIFICATIONS

TOTAL SIEVE LENGTH 9,200 mm

SIEVE DRUM DIAMETER 1,860 mm

SIEVE DRUM LENGTH 7,450 mm

NUMBER OF COMPARTMENTS 7 + 1 Sieve Compartments

MATERIAL AISI 304 Stainless Steel

SIEVE MOTOR 7.5 kW



STOCKING SILOS

PROSALT Storage Silos are specially designed for hygienic and safe storage of processed salt. With their stainless steel bodies, the salt is protected from external contaminants and moisture, preserving the freshness and quality of the product for a long time.



Hygienic Storage



Engineered for Endurance

Scan this QR Code to view the Stocking Silos at your venue with our latest AR technology.



2



TECHNICAL SPECIFICATIONS

SILO WIDTH 2,150 mm

SILO HEIGHT 5,500 mm

MATERIAL AISI 304, 3 mm
Stainless Steel

**PLATFORM
STRUCTURE** HEA 200-240
Profile

PACKAGING MACHINE

3



Fast Packaging



Automatic Packaging



Precise Measurement



Different Package Types



Scan this QR Code to view the Packaging Machine at your venue with our latest AR technology.



TECHNICAL SPECIFICATIONS

MATERIAL	AISI 304, 3 mm Stainless Steel
WEIGHING SYSTEM	Double Weighed System
CONTROL SYSTEM	PLC-Based Weight Control
25 KG BAGGING CAPACITY	16-18 bags per minute
50 KG BAGGING CAPACITY	10-14 bags per minute



CONVEYOR BELT

PROSALT Conveyor Belt is designed to convey processed salt from storage silos to the packaging unit without any problems. Due to its modular structure and various belt options, it easily and efficiently performs all the conveying and transfer operations required for the salt processing.



Stainless Conveying

With its durable and smooth surface, it allows salt to be carried without spilling or sticking. This minimizes product loss during the process.



Efficient Transfer

Due to its modular construction, the PROSALT Conveyor Belt can be installed in various lengths and inclinations. This increases the fluidity and efficiency of the process by easily transferring salt between different levels.

Scan this QR Code to view the Conveyor Belt at your venue with our latest AR technology.



4



TECHNICAL SPECIFICATIONS

CONVEYOR BELT LENGTH	9,000 mm
BELT STRUCTURE	4 Layers, 10 mm Thickness
CHASSIS PROFILE	40 × 40 × 4 mm Box Profile
DRUM DIAMETER	210 mm
MOTOR	5.5 kW

ELEVATOR

5

PROSALT Elevator is a specially designed system for the reliable and efficient vertical conveying of salt. This system is made of stainless steel and has a specially developed bearing and housing for long life and durability.



Safe Conveying



Efficient Operation



Lasting



Easy Maintenance

TECHNICAL SPECIFICATIONS

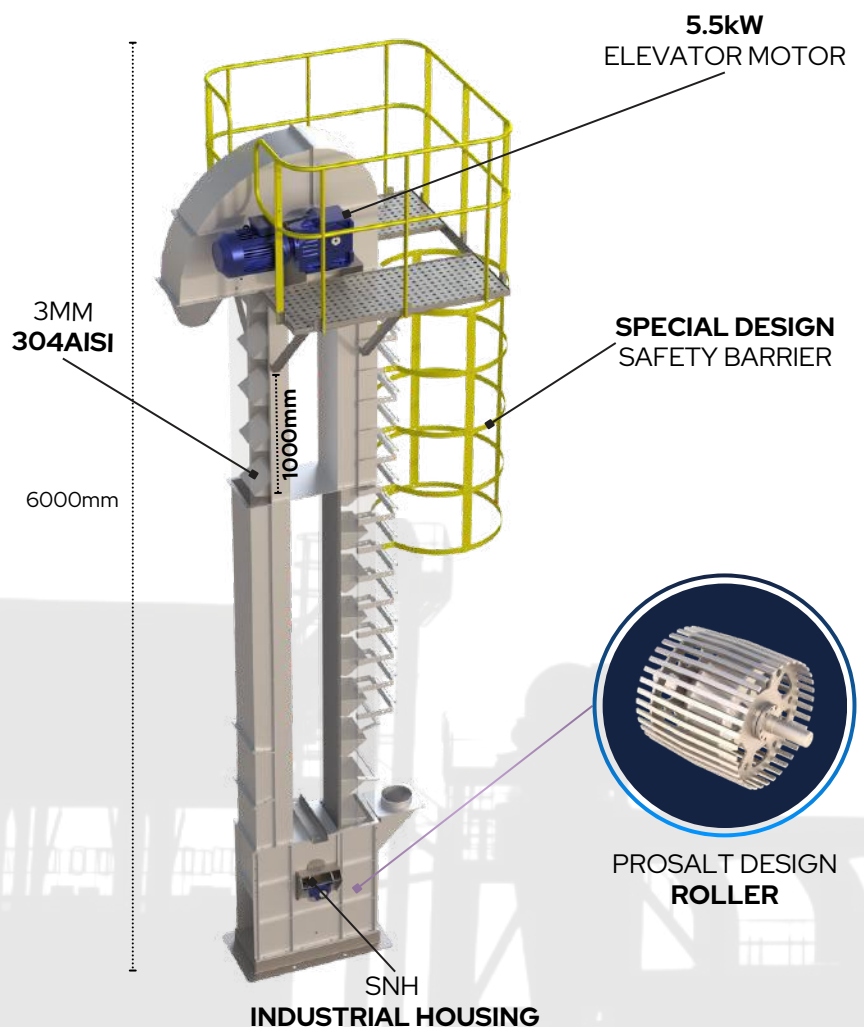
UPPER RANGE DIMENSIONS 3000x2200 mm

SUPPORT LEGS 150x150 mm

SUPPORT LEGS LENGTH 2500 mm

BIN MATERIAL AISI304L

BIN MATERIAL THICKNESS 3 mm



PROSALT Packaging Platform is an innovative solution for organized and durable washing operations. With its modular and removable system, it can be easily transported and installed wherever you need it. This adds flexibility and efficiency to your processing line.



Organized and Durable

The robust and durable construction guarantees years of reliable use.



Modular System

It can be easily transported and installed as needed. When you need to relocate your production line, you can easily disassemble and reassemble the platform.



Fully Modular Construction

No welding is required for platform installation. This significantly reduces installation time and cost.

**PROSALT SPECIAL DESIGN
SCREW DISASSEMBLING
SYSTEM**



3-5-10mm
ST37 SHEET

6



**TECHNICAL
SPECIFICATIONS**

MATERIAL	A-Quality ST-37 Sheet (3-10 mm thickness)
STRUCTURE TYPE	Modular, Detachable System
WALKWAYS	CTP Grid Walkways
COATING	Two coats epoxy primer + two coats acrylic paint

OTHER



MACHINES



SALT STOCKPILE MACHINE

5



Efficient Salt Stockpiling with Mobility and Power

PROSALT’s Salt Stockpile Machine is a high-capacity mobile solution designed for seamless salt harvesting, stockpiling, and transfer. With a robust tracked base and integrated conveyor system, this machine enables direct salt collection from the field and efficient stacking—ensuring maximum throughput and minimal material loss.

Whether you’re transferring salt from harvesting areas to trucks or creating high-volume stockpiles, this machine is built for versatility, ease of use, and long-term durability in corrosive environments.



**Integrated
Conveyor Boom**



Tracked Chassis



High Throughput



Operator-Friendly



**Corrosion
Resistant**



Self-Powered System

TECHNICAL SPECIFICATIONS



BIG BAG PACKAGING MACHINE

6

Heavy-Duty Packaging for Industrial Salt Applications

Engineered by PROSALT, the Big Bag Packaging Machine offers a reliable and efficient solution for filling large-capacity salt bags used in industrial storage, handling, and transport.

The system features a rugged steel frame, precision weighing control, and a reinforced bag suspension unit to ensure stable, accurate, and clean filling of 1,000 to 2,000 kg bags. Its adjustable spout and dust-minimizing design allow seamless operation across different salt grades and particle sizes.

Equipped with operator-friendly controls and safety mechanisms, the machine easily integrates into larger process lines—making it ideal for continuous, high-volume salt production.



Durable Structure



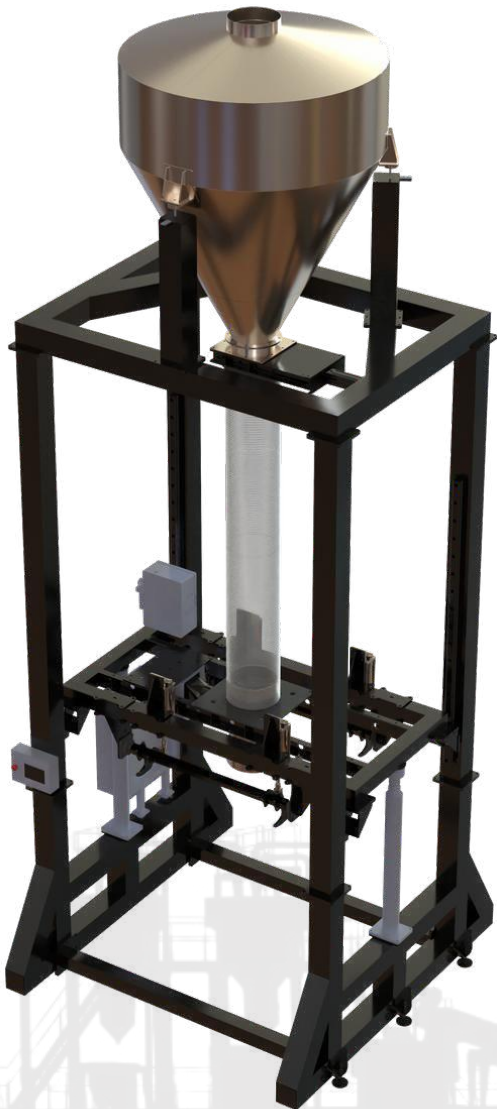
**Precision Weighing
with PLC System**



**Low-Dust, Clean
Filling Process**



**Compatible with
1,000–2,000 kg Bags**



TECHNICAL SPECIFICATIONS

MATERIAL	AISI 304, 3 mm Stainless Steel
WEIGHING SYSTEM	Double Weighed System
CONTROL SYSTEM	PLC-Based Weight Control
BAGGING CAPACITY	1250 kg
OUTPUT RATE	20–25 Big Bags per Hour

VIBRATING BLOCK SEPARATOR SIEVE

5



TECHNICAL SPECIFICATIONS

DIMENSIONS	3750X4580X4000mm
MACHINE WEIGHT	≈4,250 KG
CHASSIS MATERIAL	IPE200
BODY MATERIAL	A quality AISI304SS
SILO VOLUME	10m³
MOTOR	5,5kW x2

Smart Sieving Solution for Smooth Flow and Process Safety

Developed by PROSALT, the Vibrating Block Separator Sieve is designed to eliminate oversized salt blocks that can disrupt production flow and damage downstream equipment. Positioned at the inlet of the line, this system acts as a proactive barrier—ensuring that only properly sized material enters the process.

Operating with high-frequency vibration, the sieve efficiently detects and separates hard lumps, preventing blockages in critical components such as screw conveyors, belts, and dryers. The result: uninterrupted production, protected equipment, and consistent product quality.



Durable Structure



High Efficiency
Vibration System



Easy to Integrate



Custom Tailored



SALT BLOCK CRUSHER

Heavy-Duty Crushing for Salt Blocks

The PROSALT Salt Block Crusher is engineered to break down hardened salt blocks and lumps with precision and power. Featuring a robust rotor with 38 blades and a wide Ø400 mm diameter, this machine ensures uninterrupted flow into your downstream systems.

Built with an AISI304 stainless steel hopper and ST-37 steel frame, it offers exceptional durability even under harsh industrial conditions. Its compact structure and powerful 7.5 kW motor make it ideal for high-performance crushing in limited space environments.

Whether integrated into a new line or retrofitted into an existing one, the Salt Block Crusher delivers consistent particle size, reliable operation, and long-term structural integrity.



Robust Rotor Design



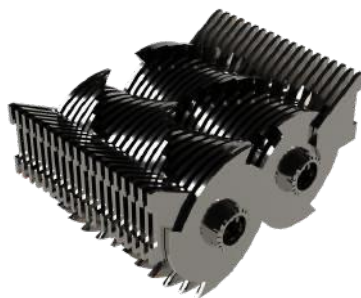
Corrosion-Resistant Hopper



Compact & Powerful



Efficient Crushing



6



TECHNICAL SPECIFICATIONS

DIMENSIONS 1250X1250X2450mm

MACHINE WEIGHT ≈1,150 KG

CHASSIS MATERIAL 5mm ST-37 Steel

BODY MATERIAL A quality AISI304SS

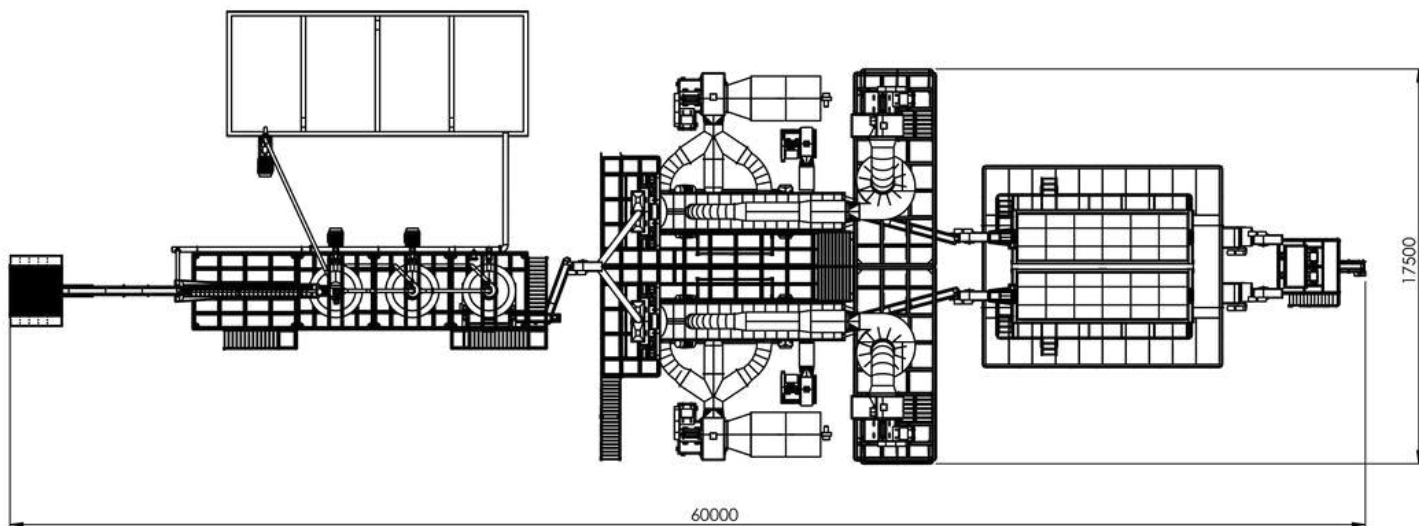
SILO VOLUME 0.3m³

BLADES 38

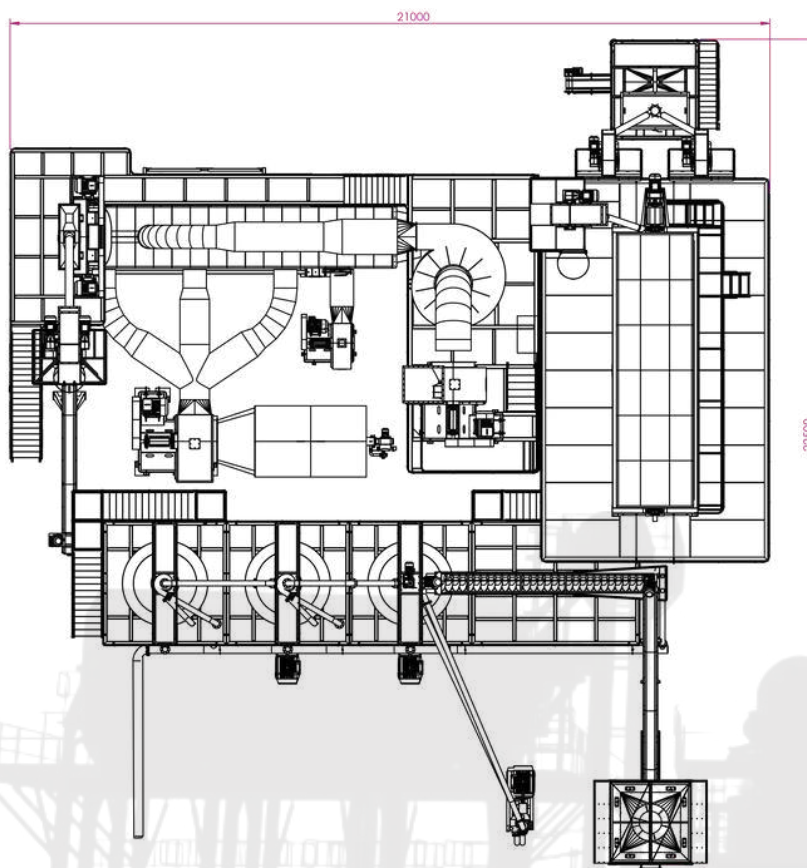
BLADE DIAMETER ø400

MOTOR 7,5kW

COMPACT AND STRAIGHT LINES

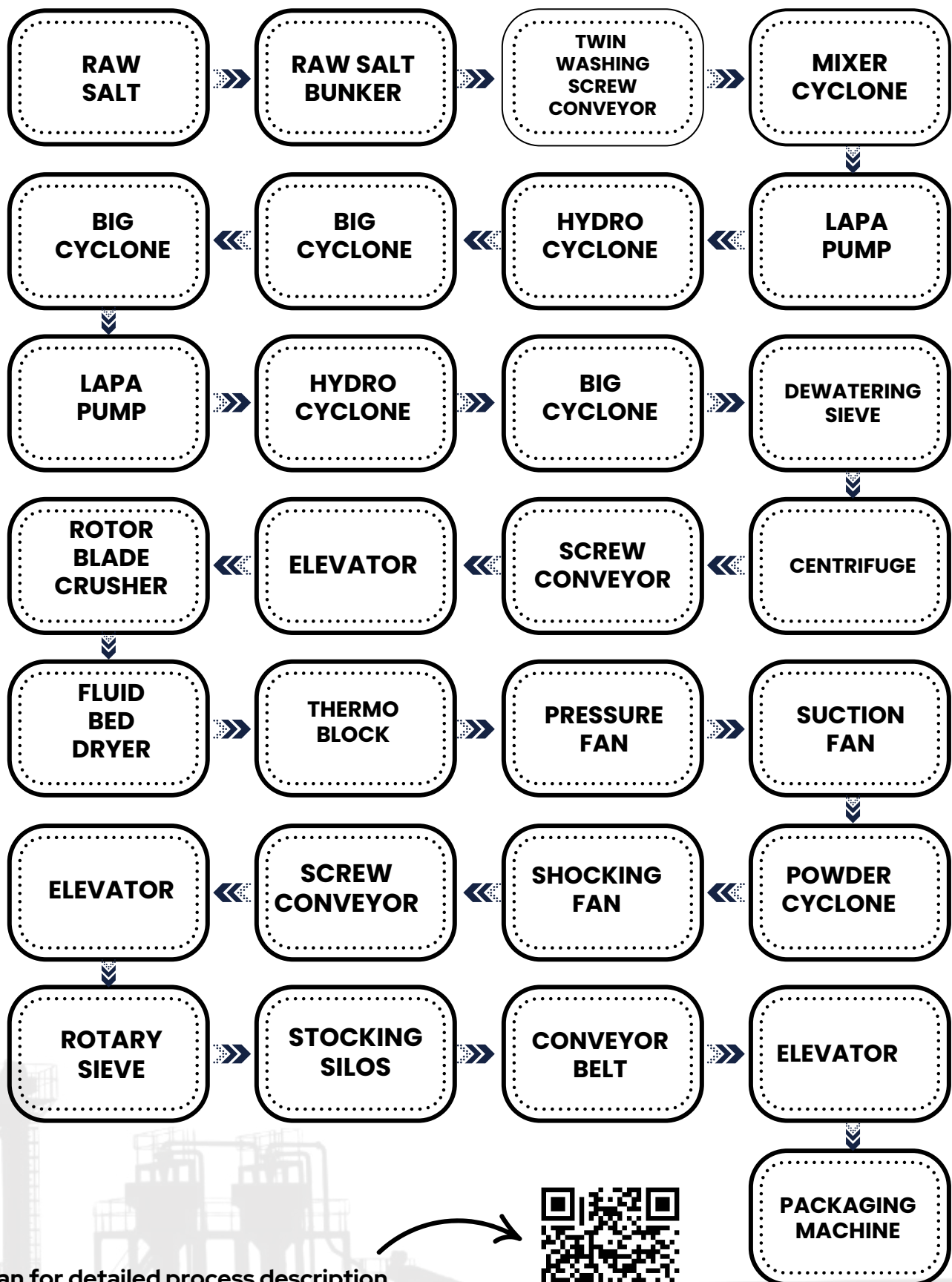


Technical drawing of a straight processing line



Technical drawing of a compact processing line

PROCESS FLOWSHEET



Scan for detailed process description



RAW & FINE SALT ANALYSIS

Raw Salt Analysis

Parameter	Result	Max
Moisture (%)	2.7	–
pH (10% solution)	6.7	–
Color	White	–
Water-insoluble matter (%)	0.018	–
NaCl content (%)	98.7	–
Sulfate (SO ₄)	7410 ppm	Max 0.75%
Calcium (Ca)	2435 ppm	Max 0.25%
Magnesium (Mg)	338 ppm	Max 0.039%

PROSALT  **PUREFECTION**

Fine Salt Analysis

Parameter	Result	Max
Color	White	–
NaCl content (%)	99.4	–
Water-insoluble matter (%)	0.012	–
Sulfate (SO ₄)	1210 ppm	Max 0.12%
Calcium (Ca)	359 ppm	Max 0.036%
Magnesium (Mg)	169 ppm	Max 0.017%



WHY US?

What Sets the PROSALT® System Apart?

- ✓ Backed by 40+ years of expertise
- ✓ 99% purity minimum – Without chemicals
- ✓ Low moisture (2.5–3%) – Ready for market
- ✓ Minimal salt loss – Smarter washing, no pre-crushing
- ✓ Modular and compact – Fits in just 25x20 meters
- ✓ Efficient and sustainable – Brine recycling and low energy use

We've designed this process to give you the most value,
lowest waste, and highest product quality
– all in a plant that's efficient, relocatable, and built to last.



BRINE TO PUREFECTION

PROSALT, as the new brand of Yiğitbaşı Salt Machinery Corporation, sets a new standard in raw salt production process with 40 years of experience and expertise. Our commitment to customer satisfaction remains paramount as we strive to exceed expectations.



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