CONALT®

CONSUME FOR HEALTH

FACTORY INTRODUCTION

2019


CONALT®
CONSUME FOR HEALTH

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1. About CONALT

CONALT was founded in 2019 by leading experts in the industry in the UK and Turkey. The company is active in the production, import and export of all types and varieties of nutritional supplements and cosmetics. Operating in accordance with the UK's high quality standards, CONALT aims to facilitate access to general health worldwide. CONALT aims to create a strong brand in the global market by producing original, innovative, high quality products at FDA and GMP standards. In order to make a difference in the sector, the company has adopted the principles of sustainability, continuous improvement and innovation and h a s accepted these values as the cornerstones of its business processes. CONALT aims to be the leader in the sector with continuous development and innovative solutions and aims to contribute to health both locally and globally.

2. Our Vision

Since its foundation, CONALT, together with its team of experts, has been a major player in the food supplements and cosmetics sector. The company has obtained many licences in these fields and has developed a wide range of products. Thanks to its innovative approach and high quality production standards, CONALT has established a solid position not only in the domestic market but also in international markets. Today, it is taking firm steps towards becoming a global brand with exports to many countries.

In line with increasing market demand and growth strategies, CONALT identified the need for a larger production facility in 2021 and accelerated its investments in this direction. In 2022, CONALT put into operation its modern production facility built on a total area of 2,200 square metres in Ümraniye district of Istanbul, significantly increasing its production capacity. This new facility is notable not only for its technological infrastructure and large production capacity, but also for the company's commitment to creating employment. Increasing the labour force in the production facility has contributed to economic development at regional and national level.

CONALT continues to grow by increasing its influence in international markets day by day. Thanks to its expanding market network and investments in its production facility, it has successfully increased its annual production capacity and export volume to targeted levels. These strategic steps of the company continue to add value to both the local economy and the international business world.

3. Our Mission

At CONALT, our mission is to maximise the health of our customers by providing reliable, innovative and high quality supplements that support healthy living and enhance quality of life. Each of our products is developed based on scientifically-backed formulations and operates in compliance with the stringent quality standards of the United Kingdom, with the overarching aim of facilitating global access to better general health. Our goal is to enable not only individuals but also societies to live healthier lives, and to play an inspiring leadership role in doing so. With a focus on continuous improvement, innovation and customer satisfaction, our main goal is to promote a healthy lifestyle globally.

4. Infrastructure Systems

4.1 Ventilation and Humidity Control

In our company, there are 2 advanced technology air handling units in order to keep the temperature, pressure and humidity values of the production areas at ideal conditions. G4, F7, F9 and HEPA filters are used in these plants, and thanks to this system, the air circulating in the production areas is provided as clean air completely purified from particles. Thus, production processes are carried out in a hygienic and controlled environment.

This advanced air conditioning system takes the safety of the products under control at the highest level and guarantees that the production processes are carried out under the most favourable conditions. In addition, the maintenance of air conditioning and air handling units is carried out by the technical team at regular intervals and all operations are recorded in detail. This approach reflects a meticulous management approach that aims to increase production quality in a sustainable manner.

4.2 Deionised (DI) Water System

In our company, Reverz Osmosis DI (Deionised) water system with advanced technology is used to keep the purity and hygiene of the water used in production processes at the highest level. This system completely eliminates the risk of microbiological reproduction by ensuring continuous movement of water and makes the mains water suitable for high purity production. In the system, components such as sand filter, activated carbon, resin, membrane, mixbed and 2 UV lamps are used together to purify the water from harmful particles and unwanted components. The DI water obtained in this way meets the most reliable and clean water standard used in production processes provides.

The quality of the system is regularly checked by quality control personnel with samples taken daily and all analysis results are recorded. In addition, the maintenance and cleaning operations of the system are carried out carefully by the technical team at certain periods, so that the performance of the system is constantly kept at the highest level. The Reverz Osmosis DI water system not only ensures the safety of the water used in production, but also guarantees that the production processes comply with hygiene standards. This system serves as one of the cornerstones of our company's quality-orientated production approach.

4.3 Sterilisation With Ozone

Ozone plays a critical role in the production area thanks to its strong antimicrobial properties. It provides comprehensive disinfection by neutralising bacteria, viruses, fungi and spores without leaving harmful residues. In this way, ozone is used to clean both water and air in our facility. Ozone effectively destroys microorganisms in the production area, minimising the risk of cross-contamination and creating a hygienic, aseptic environment.

The sterilisation provided by the system not only ensures the safety of the products, but also increases the quality by preventing the growth of unwanted microorganisms in the production process. Regular use of ozone contributes to keeping health and safety standards high in production areas, thus contributing to the production of high quality and safe products. In addition, the environmentally friendly nature of ozone minimises environmental impacts as it leaves no chemical residue. This comprehensive disinfection method makes production processes more efficient and reliable.

4.4 Hygienic Room System

In our facility, where the concentration of airborne particles is kept under control by continuous measurements, parameters such as temperature, humidity, pressure, air flow lines are carefully monitored. This ensures an environment where particle entry, proliferation and retention are minimised. Our production areas are equipped with special rooms where other variables are kept under control as required. These rooms are optimised to ensure hygienic and safe production processes.

In addition, in line with the importance we attach to health and hygiene standards, the floors are covered with special materials that do not retain water and prevent the formation of bacteria. These materials both facilitate cleaning processes and ensure that production areas are always sterile and safe. This meticulous approach is an important step towards the production of high quality products as well as protecting the health of our employees and the environment.

4.5 Equipment and Protective Clothing

In order to prevent human-induced contamination in our production areas, it has become mandatory for our employees to wear antistatic overalls. This practice aims to keep the hygiene standards in our production areas at the highest level and to maintain product quality uninterruptedly. Antistatic overalls prevent the accumulation of static electricity and minimise the effect of external factors, especially in sensitive production processes. In addition, these overalls protect the cleanliness of the environment by preventing the transport of dust and particles from the bodies of the employees to the production areas.

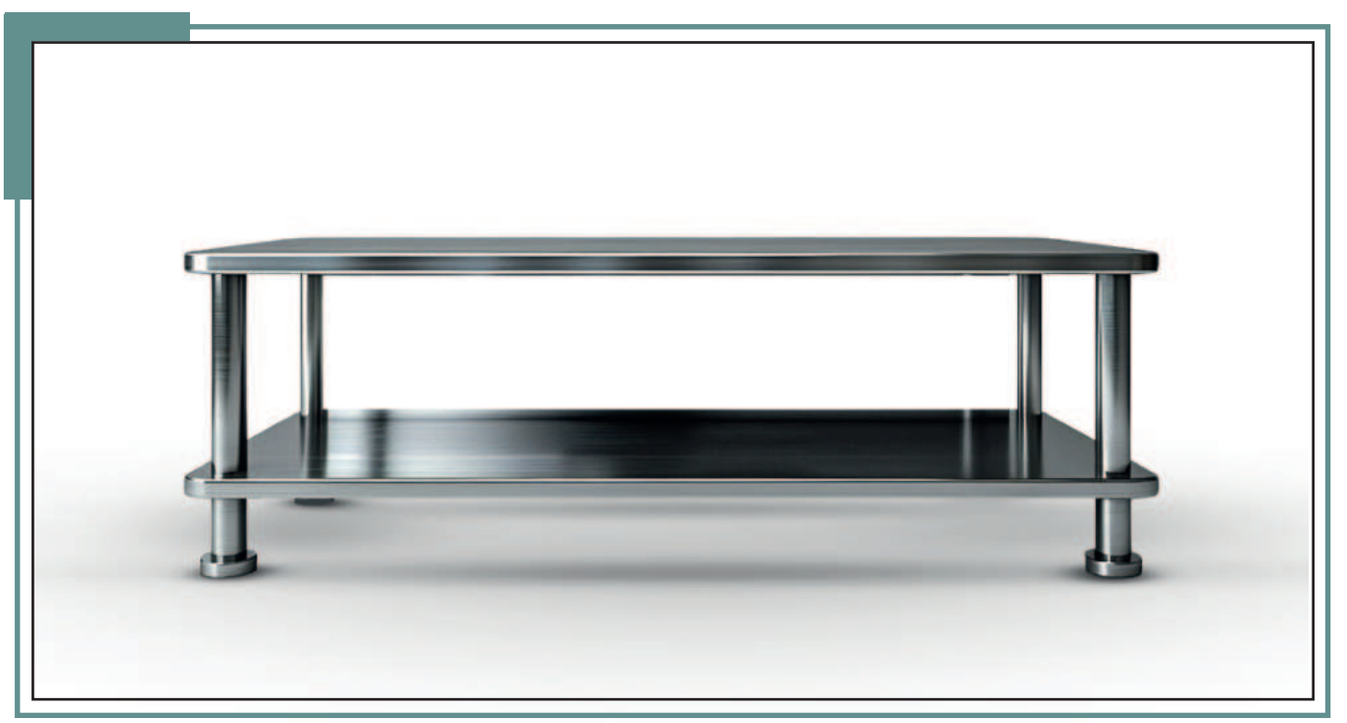
These hygienic measures ensure that microorganisms and contaminants in production areas are kept under control. The great importance attached to the personal hygiene of our employees ensures that all production processes are carried out safely and in accordance with high quality standards. Hygienic working conditions enhance the safety of our products and ensure full compliance with UK quality standards. This not only guarantees the quality of the products, but also serves our aim of protecting consumer health.

The wearing of antistatic overalls by our employees also allows each stage in the production process to be carried out more efficiently and safely. All these rigorous practices help us to realise the goal of zero contamination in our production areas and guarantee the production of high quality products.

4.6 Stainless Materials

At CONALT, we prefer durable and reliable materials for our equipment to maintain high standards in production and achieve the best results. In this context, the advantages offered by 304 and 316 stainless steel are an indispensable part of our production processes. Both types of steel have high corrosion resistance and provide long-lasting use in humid and acidic environments. Thanks to their smooth surfaces, they offer a hygienic environment and significantly improve food safety by reducing the risk of bacteria retention. In addition, these materials are resistant to high temperatures, allowing safe use in sterilisation processes. 316 stainless steel, on the other hand, provides extra protection against salt water and chemicals, showing superior performance especially in harsh conditions.

Therefore, the use of 304 and 316 stainless steel is critical for quality and safety. It both increases efficiency in our production processes and guarantees the safety and longevity of our products. This meticulous material selection h e l p s us to ensure the highest quality and safest conditions in the production process.



5. Weighing Room

Sampling and weighing processes, which are the initial process of a product, are carried out with an automatic labelling system integrated into the ERP system. This system ensures that the process is completed in a fully controlled manner without exceeding the product recipes and limit ranges. This ensures accuracy and quality assurance at every step. Weighing processes are carried out in humidity-controlled rooms, and everything is carried out under specific conditions and meticulously.

After each weighing process, the equipment used is cleaned in accordance with hygiene standards. The weighed products are carefully packed in food-grade PE bags and placed on product pallets. After this stage, the production supervisor and weighing supervisor check the raw materials on the pallet and ensure that the entire process is completed correctly. This regular and meticulous control mechanism ensures the highest level of product quality and safety.

5.1 Formulation and Weighing Applications

Preventing Operator-Related Errors in Weighing

Thanks to the weighing system that can work integrated with the ERP system to ensure traceability and prevent operator-induced errors in weighing rooms, we guarantee the quality of our products by weighing the correct product, correct batch numbers and correct quantities.

Raw Materials

Prescriptions

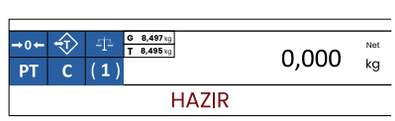
Users

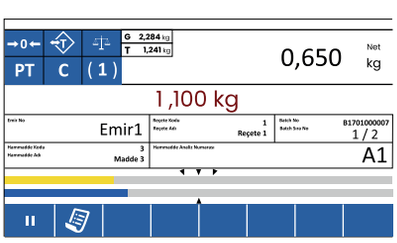
Reports

Work Orders

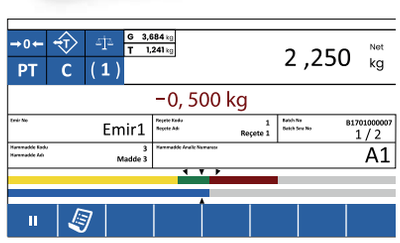
Raw material to be weighed is accessed by order selection

EADY message appears when the station connection with the PC is established

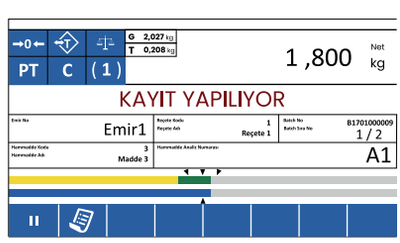




Operator starts to perform the weighing process with the help of both weight and bar graph.

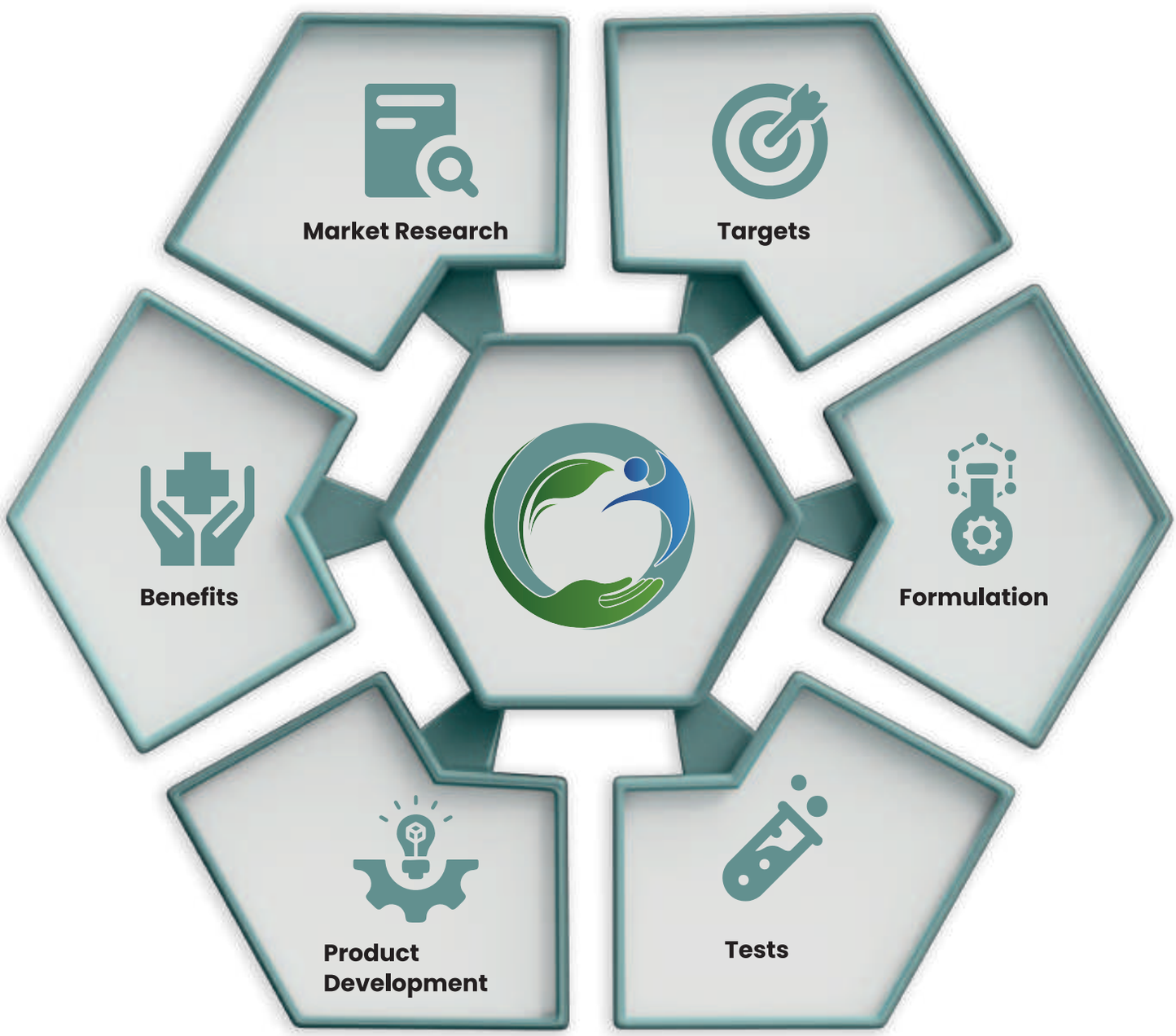


If it is outside the given tolerances, the system does not give approval and waits for the weight value to be entered within the tolerance.



When the correct values are reached, the recording process is done, the label is printed and the next raw material, if any, is passed to the next raw material.

6. R&D


Market Research
Targets
Benefits
Formulation
Product Development
Tests

6.1 R&D

This infographic highlights the key stages of a product development process and the importance of each stage. Each step plays a critical role in achieving success and requires a careful and rigorous approach at every stage of the process. The logo at the centre symbolises our company's focus on health and wellbeing, while also representing our holistic view of the process. The logo symbolises that all stages are interconnected and work in harmony.

Elements in the Graphic:

Market Research: Identifying suitable markets for the product and analysing market needs is the first step in the product development process. This stage is critical for recognising the right target audience and determining the most appropriate strategies for the success of the product.

Objectives: The objectives and success criteria determined in the product development process constitute the road map of the process. This stage provides a clear definition of the main objectives and success criteria that will guide the project.

Formulation: The correct and effective combination of the components of the product directly affects the quality and effectiveness of the product. This stage must be carried out extremely carefully to ensure that the product is safe and beneficial.

Testing: Various tests to ensure the effectiveness and safety of products are an essential step in the development process. These tests determine whether the product complies with all quality standards before it is placed on the market.

Product Development: This process, which enables the creation of innovative and high quality products, is the stage following research and testing. At this stage, meticulous efforts are made to ensure that the product reaches the end user in the most efficient and effective way.

Benefits: The benefits and advantages of the product to the end user are the ultimate goal of the product development process. This stage provides a concrete definition of the value and contribution of the product when it meets the market.

Conclusion: A comprehensive overview of each stage of the product development process, demonstrating how each stage is managed in accordance with our company's quality and safety standards. Each stage reflects not only our aim to produce high quality products, but also to maximise customer satisfaction.

6.2 R&D

In our R&D centre, in-depth studies are carried out on food supplements and cosmetic products based on market needs research with our expert team. By identifying the ever-changing market dynamics and consumer demands, we develop innovative and sustainable solutions based on scientific foundations. We design our new products by closely following the developments in the sector and taking into account the current market needs.

Our formulation processes start with a meticulous literature review and source evaluation, thus we produce reliable products supported by scientific findings.
In the development of our products, every stage is carefully supervised to ensure full compliance with legislation and to keep quality and safety standards at the highest level. In addition, the efficacy and safety of our products are continuously verified through scientific research and tests, and compliance with all quality criteria is ensured before they are put on the market.

In this way, in our product development processes in the field of food supplements and cosmetics, with the combination of innovation and scientific verification, we both reinforce our leading position in the sector and offer our consumers the safest and most effective products.

6.3 R&D

After the formulation studies are completed, pilot scale production is carried out in our R&D laboratory. At this stage, physical, chemical, microbiological and stability tests are performed to determine the quality parameters of the products. Each test provides precise data on the safety, efficacy and durability of the products, ensuring that the products comply with all required quality standards before they are placed on the market.

We aim to provide our users with the most effective and accurate products. In this direction, we continuously improve our products and production processes based on experimental studies and test results. Each stage is meticulously managed to achieve our high quality and performance targets, thus providing our customers with safe and superior quality products.

7. Machines

7.1 Stability Cabinet

The stability cabinet in our R&D laboratory is a specialised device used to test the efficacy, safety and quality of products throughout their shelf life. This cabinet allows us to assess how products perform under different environmental conditions by precisely controlling specific temperature, humidity and light levels in the indoor environment. Stability tests are carried out with various test methods such as accelerated, long-term and actual use conditions to measure the durability of the products.

Our modern stability cabinet continuously monitors and records the internal environmental data, ensuring the accuracy and reliability of the tests. As an integral part of the R&D and quality control processes in food supplement production, the safety and efficacy of the products are kept under control. This cabinet is critical for maintaining the quality of the products throughout their shelf life, ensuring that the products meet the highest quality standards at every stage.

7.2 Cubic Powder Mixer

After the formulation studies are completed, pilot scale production is carried out in our R&D laboratory. At this stage, physical, chemical, microbiological and stability tests are performed to determine the quality parameters of the products. Each test provides precise data on the safety, efficacy and durability of the products, ensuring that the products comply with all required quality standards before they are placed on the market.

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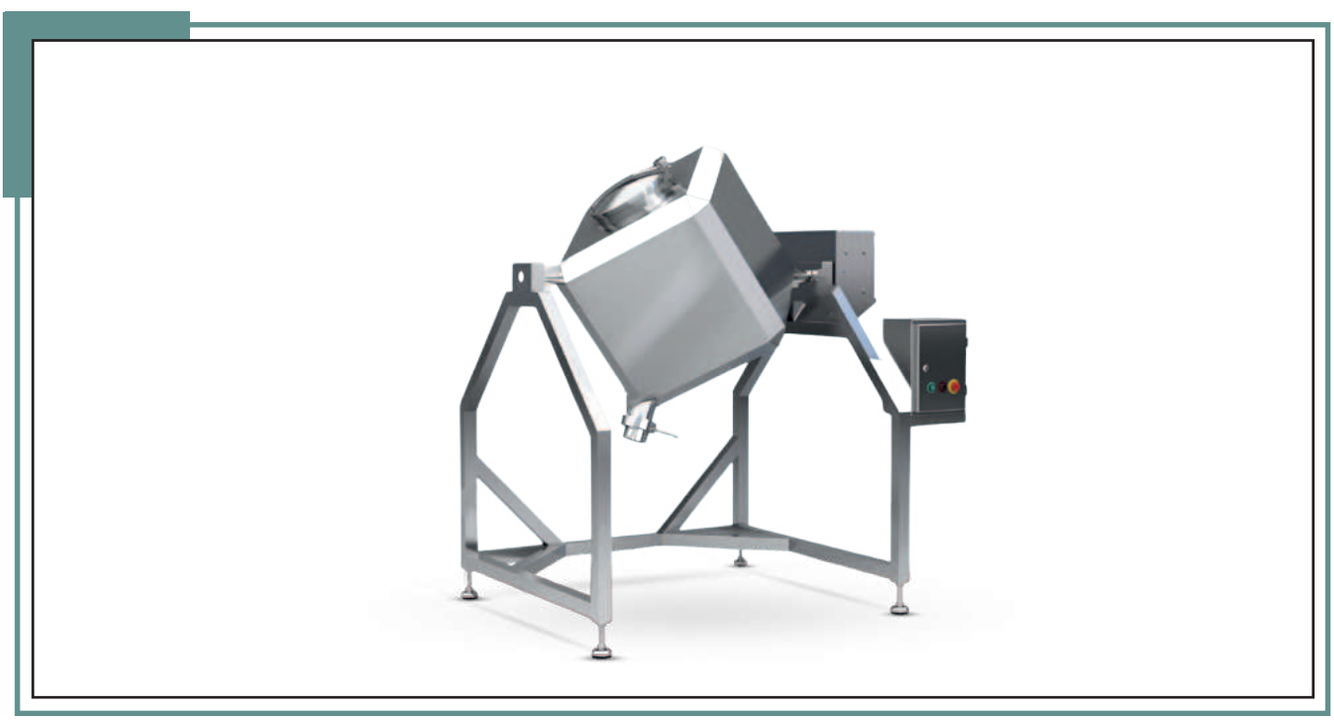

7.3 Capsule Filling Machine

Our capsule filling machine belongs to the French origin Capsugel brand and only capsules of the same brand are used. In our line, capsules can be filled in four different sizes: 1, 0, 00 and 000. Our semi-automatic capsule filling line is suitable for both vegetable and gelatine capsules. During the production process, the amount of capsules in each filling is meticulously controlled by the production operator and double-checked every half hour by the quality control personnel.

In order to deliver our products to consumers at the highest quality, capsules whose weight is outside the specified spectrum are automatically eliminated. In this way, only products that comply with quality standards pass through the production line and reach the end user. These meticulous controls in the capsule filling process guarantee the continuity and safety of product quality.

7.4 Blister Packaging Machine

Our blister packaging machine plays a critical role in the primary packaging of our capsule, tablet and softgel products. This system makes the product packaging more airtight and moisture and light proof. These properties maintain the quality and efficacy of the products and extend their shelf life. In addition, the robust and protective structure of the packaging ensures that the products are safely stored without being affected by external factors.

In order to ensure that our products reach the end user in perfect condition, optical inspection is carried out during each blister packaging process. The optical inspection ensures that the products are visually free from any defects, damage or packaging errors. This rigorous inspection not only improves product quality, but also aims to provide the consumer with the highest level of safety and satisfaction. In this way, our products are checked for quality and safety at every stage before they are presented to the consumer and packaged perfectly.

7.5 Capsule Selecting and Polishing Machine

Our capsule selection and polishing machine carries out the weight control of the products as well as the polishing process. During the production process, products with unsuitable weight are automatically detected and separated, so that only products with the correct weight proceed in the process. The products in the appropriate weight continue for the polishing process. In the polishing process,anti-bacterial silicone bristle cleaning brushes are used, which ensures hygienic cleaning. Furthermore, its anti-bacterial filter and stainless steel body ensure complete hygiene in all production stages and guarantee the safety of the products.

Thanks to these features, the capsule selecting and polishing machine not only improves the quality of the products, but also contributes to the creation of a hygienic working environment. Thus, the highest hygiene standards are maintained in production processes.

7.6 Tablet Printing Machine

Our tablet press machine operates in the form of D type 20 stations and produces with high efficiency. After the product mixing process is completed and approval is received from the quality control department, the product is fed to the tablet press machine. Before the pressing process starts, the tablets are meticulously checked by the quality control personnel and the operator and subjected to hardness, friability (fracture resistance) and dispersion tests. These tests are performed to determine whether the tablets comply with the quality standards. When conformity is ensured, the tablet printing process is started and analyses continue every half hour, so that the production process is constantly monitored.

All surfaces of our tablet press are made of stainless steel, which provides a significant advantage in terms of hygiene and durability. Furthermore, at the end of each process, all parts in direct contact with the product are disassembled and thoroughly cleaned. This cleaning process helps to maintain a consistently high level of hygiene in the production environment and ensures the safety of the products.

7.7 Sleeve Line

In our factory, we have a special sleeve line where we apply body sleeve and safety band process. The products, whose filling and primary packaging are completed, are then taken to the packaging line and sleeved under suitable temperature conditions and without damaging the products. This process improves quality by protecting the products from external factors and offers a safe packaging. After the bottle filling process is completed, body sleeve or safety tape is applied to protect the products. Then, the boxing process begins and each product is packed securely and moves to the next stage.

Product-specific information, such as serial number and expiry date, is carefully checked by the quality control team and labelled correctly. This verification process is essential to facilitate the traceability of products and to ensure compliance with quality standards.
At the end of the packaging process, parcel labels are affixed to the completed parcels and the products are placed on pallets and made ready for delivery to the warehouse.

This process is meticulously followed to ensure safe and organised storage, handling and shipment of products. Each stage is carried out in accordance with high hygiene standards and quality control procedures, thus guaranteeing the quality of the final products.

7.8 Liquid Manufacturing Tank

In our production facility, there are four different capacity liquid production tanks: 150 kg, 250 kg, 500 kg and 1000 kg. These tanks are designed with 316L stainless steel material in order to ensure accurate and high quality production. In these tanks, which are equipped with agitator, homogeniser, scraper, shredder and heating features, the required amount of water is drawn from our water system. Tank the amount of water taken is measured by verifying the amount of water taken with the loadcell sensors on the feet.

After the production process is completed, the products are sent to the quality control l aboratory as samples. Analyses performed by the quality control team confirm the conformity of the product. When the approval of conformity is received, the product is transferred to the liquid filling machine through the automatic feeding unit without contact with people and air. In this way, the production process is continued under hygienic conditions and with high efficiency.

7.9 Liquid Filling Line

In our liquid filling line, double nozzle filling is performed in a closed process. In this process, nitrogen filling, capping, closing and labelling operations are carried out through an integrated line system. In the labelling stage, information such as serial number and expiry date (SKT) are printed automatically.

In our filling line, the filling volumes are made accurate and standardised by using Festo pistons of German origin. Labelling process is carried out with Herma labelling machine, also of German origin. In this way, correct labelling of the products and compliance with high quality standards are ensured.

During filling, the density, pH value and quantity of the products are meticulously monitored by the production operator and the quality control team, checking every half hour. These controls are of great importance to guarantee the quality of the products and to accurately supervise every stage of the production process.

7.10 Counting Filling Machine

In our line where tablet/capsule counting, cap fastening, cap tightening, induction and labelling processes are carried out in line, all processes are carried out fully automatically, It is monitored in a 100% controlled manner. Thanks to this system, every stage in the production line is carried out in full compliance with quality and safety standards.

In our 1000 bottles/hour capacity line, each process is followed by a double check by the quality control team and the machine operator. This double control mechanism guarantees that possible errors are prevented and the products are at the highest quality level. Thus, the safety and quality of the products are kept at the maximum level by ensuring meticulous control at every stage of the production process.

7.11 Kulp Filling Machine

As CONALT, we produce at high standards with the Kulp filling machine in our factory. Our machine takes the product from a 30 litre funnel with standard or level system control according to the need and makes the filling process efficient. Thanks to its high surface smoothness and argon welding technology, the risk of bacterial growth and contamination on the surface of the machine is minimised.

The filling range from 15 ml to 150 ml adapts to different product needs, while precise filling between 5 ml and 50 ml can be made with the optional optional filling piston. This machine, which has a filling capacity of 1500 containers per hour, increases our production efficiency and contributes to maintaining our quality and safety standards. Thus, each filling process is carried out with the highest accuracy and the quality of our products is assured.

7.12 Sachet Filling Machine

Our sachet line is a specialised production line for the packaging of powder and liquid products into sachets (bags), ensuring high productivity and hygiene standards in the process. The inlet unit of the line transmits the products to the filling line using feeding systems for powder products and pumps for liquids. This system is designed to be suitable for both product types and the filling process is carried out precisely.

The filling machine ensures that the product is filled into the sachets in the exact and correct quantity, so that each pack guarantees the targeted quality and quantity. The sachet forming unit forms the sachets using the appropriate packaging materials, then the sealing unit seals the open parts of the sachets so that the products are protected from external factors.

The quality control phase meticulously checks whether the packs and filling processes comply with the set standards. At this stage, each sachet is visually and functionally inspected and subjected to quality assurance processes. Finally, the packaged sachets are ready to be placed on the market and prepared for safe storage or shipment.

This sachet line maximises customer satisfaction by ensuring high quality and safe packaging of our products.

8. Warehouse

In order to store raw materials and packages in a correct and healthy environment, we have a storage area of 100 pallets with a ventilation system. In order to keep the products healthy and clean, ozone treatment is applied in our storage areas. We also have humidity controlled storage areas specially designed for moisture sensitive materials. In order to ensure stock control and quality production processes, barcode reader is used in our warehouse system. In this way, the weighing process and warehouse control are error-free and It is carried out in a 100% controlled manner. Likewise, stock control and shipment processes of finished products are also monitored with the barcode system, ensuring full control without any margin of error. This system increases efficiency and accuracy at every stage of our production and logistics processes.

9. Export

The products exported in our company are carefully palletised and transported under the most appropriate conditions. In order to avoid any problems during the shipment process of the products, refrigerated shipment is preferred and the products are transported safely under temperature control. We consider our overseas customers not only as commercial buyers but also as our business partners and establish a strong relationship of co-operation and trust at every stage. As a result of this understanding, we not only ensure that our products reach their intended destinations, but also carefully monitor their impact on end users and their comments. We believe that this attentive approach to our business partners and end consumers plays a major role in our exports, which average 250,000 bottles per month. In the coming period, we aim to increase the number of export countries and the number of bottles exported, and we plan to further strengthen our effectiveness in the global market.

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