

ENCAPSULATOR LINE OF CANNABIS OIL SOFTGELS CAPSULES

ROMAN TSIBULSKY: Our company represents a market the technology and equipment for production of soft round seamless gelatin capsules. All kinds of vegetable Cannabis oils and many kinds of animal fat, can be placed inside a thin but strong gelatinous shell. Which reliably preserves the content for a long time. Our technology has no waste products and is the most efficient at cost of the finished products. If you have oil or animal fat, than getting our equipment and technology, you can easily produce around shaped capsules with diameter of one to ten millimeters.

PRESENTATION 2020



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ROMAN TSIBULSKY: You can also smoothly adjust the weight of the capsule to the required. Gelatinous shell can be painted in any color. To start up business, you need to have the desire to produce capsules and small premises. The specialist of our company will give you a detailed description of our equipment features, make recommendations on preparation of your premises, help with finding raw materials adjust equipment and train you to work on it. We send the equipment and delegate our specialists to customers all over the world.



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ROMAN TSIBULSKY: Our company offers equipment and technology for the production of soft seamless capsules. At present we have two capsules shell technologies, this is a classic gelatin technology and a new innovative technology of capsule shells made of plant material. We use a plant material called Agar-Agar for our capsules, this is an alga based material. The technology will be of interest in the production of capsules for the Eastern market, for the market of Arab countries for Muslims, vegans and vegetarians, and wherever the use of animal gelatin is not required. We present this technology on the global market, as we are the only company possessing such a technology.



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ROMAN TSIBULSKY: In addition to the technology we have developed an automated encapsulation line that allows producing these products. We have developed our automated line, which is entirely made of stainless steel, ensuring compliance with the GMP standard requirements. You can easily certify and validate such equipment at your production facility and use it to manufacture products of the same quality as the market leaders. Our compact automatic line is a unique offer. Today there is no analog equipment on the capsule market in terms of either cost or performance or uniqueness of the shell composition and material.



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ROMAN TSIBULSKY: We are the only company that has achieved it. Many important parts of our equipment have a European certificate, which is very important for customers from Europe, the USA, and Canada. We use a chinese-made reactor for gel production, but this is the only factory we have found in China that can produce equipment certified in Europe. The encapsulator itself is fully manufactured by our employees and our workers at the production facility in Minsk, Belarus. We carefully test each machine before sending it to customers. Thus guaranteeing workability of this equipment for 200%. Same as before any of our customers have the opportunity to invite our adjuster to visit their facility, within 5 days he will commission and set up the equipment train the personnel and give some advice and recommendations on how to use the equipment. I am very proud of the result that we have achieved together with my team.



TEAM CANNABIS OF PROFESSIONALS

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ROMAN TSIBULSKY: I will make a short presentation of our line in order to tell you about each unit and each part of the equipment in our automatic line. This is a heated tank with agitator in which we prepare the gel. Now I am pointing at an electric motor with blades installed inside, the motor is mixing the volume of gel that we are preparing with the blades. This heated tank with agitator has a water jacket and thermal protection, which helps to maintain the temperature so as not to heat the air in the room. The system of observation windows, lighting system. From our tank, the gel is pumped through special heating hoses to the tank in the encapsulator and through the return hose is returned back to our tank. This is done in order to maintain the high temperature of the gel inside our reactor at all times. We work with Agar-Agar that requires a temperature of more than plus 90 degrees Celsius. If there were only one heated hose, then the material inside would cool down and block the gel from moving. Therefore, we lift the material into the tank of the encapsulator using one hose and dump the excess gel back into our boiler via the second hose.



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ROMAN TSIBULSKY: All corners are rounded, ensuring easy cleaning and washing in accordance with GMP standards. Sealing of our chamber eliminates the ingress of all kinds of polluting particles. There is a thermal insulation material inside the chamber. It maintains a certain temperature. Now I will tell you about the design features of the GMP encapsulator. The top panel has a control system. There are temperature controls for transport oil, gel, and oil that is placed inside the capsule. Now the ambient temperature is shown, but when we program our encapsulator to work, we set the temperatures we want to work with. If your material, oil or animal fat, requires heating our tanks, which are located at the back of the encapsulator, also have a water jacket system, a water bath, which will warm up the materials. Now we use high-precision controls that allow adjusting the speed of material movement within our system. It means that special pumps regulate the feeding rate of the material that becomes the capsule shell and the material that is placed inside the capsules. This significantly enhances the dosing accuracy. Having set certain indicators on the devices today, you can run it in the same mode the next day and reproduce it all.



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ROMAN TSIBULSKY: The capsules move at a very high speed, more than 24 capsules per second and they seem invisible, but when we turn on the stroboscope, it gives us the opportunity to see how the capsules are formed. Now the capsule production is not in process, I'm just showing you how it works. You can also switch the lighting mode of the internal camera to see the entire process. Later we will make a video clip showing the equipment in operation. Rounded corners provide easy cleaning, which meets the GMP standard. Stainless steel is inside and outside. This material is suitable for the production of food and pharmaceutical products. You can easily obtain any permit to use this equipment at your facility. The bottom part of the chamber is for the transport oil cooling system. Inside there is a special box with a double wall, where the coolant is pumped by a pump and all the transport oil is cooled in this box. If necessary, this unit can be easily detached, drained, and cleaned inside. The inner corners of this box are also radial, which makes them easy to wash. I have just shown you the design of this container for transport oil cooling.



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ROMAN TSIBULSKY: Those who know our equipment and have seen previous designs will appreciate this technical solution. Thanks to special silicon reinforced hoses we get high quality products. They are easy to dismantle, they are very soft. Here, you see, I'm twisting them now. At the same time they are certified, they have a European certificate and we install them in our encapsulator. We us two tanks in our encapsulator. One is for the oil or fish oil that you want to fill in the capsule. The gel is in the other similar 18 liter tank. The system in the lid is designed in such a way that a continuous supply of gel or encapsulation material is provided to our tanks throughout the entire 24 hour operation of the equipment. It is worth mentioning the quality of this tank. It fully complies with GMP requirements. It has a semicircular bottom and a radius, which allow cleaning and washing these tanks inside and outside. Those who have seen our previous tanks will be agreeably surprised by the progress we have made in this respect. We have also made convenient side handles for removing and placing tanks filled with the gel and material up into our encapsulator. This is also very convenient and we have fulfilled the equest of our clients to make this process as convenient as possible.

Company - Soft Gel Capsules Technologies Co.Limited

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