

The drying of yellow mealworm

Yellow mealworm contains protein, fat, polysaccharides, and other organic macromolecular nutrients that also rich in phosphorus, potassium, iron, sodium, aluminum, and other trace elements. The protein content of dried powder per 100g of yellow mealworm larvae was between 48% and 54%, and the fat content was between 28% and 41%. Other such as vitamin E, and B1, B2 content is also higher, with higher nutrients. Because its protein content is higher than the general insect, it is also called protein insect. It can be used or made animal protein feed.

Yellow mealworm is fed with wheat bran and green vegetable leaf. Commonly, the moisture content of live insects is 70% or so. The moisture content after drying qualified should be less than 5%, convenient follow-up processing operation. If it facilitates drying, improves efficiency, and reduces energy consumption, it is better to stop feeding feed 12 hours before drying. When drying, microwave must be turned on with high power, so that insects can expand in an instant. In this way, the color is golden, the puffed individual is more extensive, and the appearance is beautiful. It indicates the power is appropriate if the sound of crackle insects after the live insects enter the machine box can hear. The drying temperature is set at 120°, and the drive device power of tunnel machine with 20kw conventional width controls at 10HZ, and increases the volume of exhausting moisture. The moisture of yellow mealworm is more significant, the humidity in the box is bigger when drying use microwave, the heat generated by absorbing microwave conduct to the box body. If air cooling equipment power overhead, the heat-insulating wool is needed at the top of the microwave system. The process of moisture-removal and heat-removal could not use a fan. The heat-removal process should use a fan alone to prevent the excess temperature of power supply and magnetron caused by conduct heat of box.

If the power is too low, not only drying swelling effect is not good, but also easy to cause yellow mealworm to turn to black. Yellow mealworm use microwave technology dry not only has good quality, but [microwave drying equipment](#) for yellow mealworm also has a bactericidal effect, which can be directly packaged and circulated or entered into deep processing procedures.