

# CHINA NUTS AND ROASTED SEEDS INDUSTRY

PHASE II 2021 TOTAL EIGHTY-FOUR ISSUE

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**2021 The 15<sup>th</sup> on-line and off-line Food Exhibition for China Nuts and Roasted Seeds, Dried Fruits & Large Fair for Purchase & Supply**

**2021.4.16-18**

Binhu International  
Convention and Exhibition Center  
Hefei, Anhui Province

指导单位: 中国食品工业协会坚果炒货专业委员会  
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**Guided by:** Specialized Committee for Nuts and Roasted Seeds of China National Food Industry Association.

**Sponsored by:** Beijing Zhongjian Heguo Information Technology Service Co., Ltd.

"China Nut Scrambled"

"http://www.csnc.cn"

"www.chinanutexpo.com"

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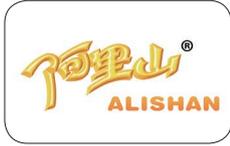
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# A Letter of Invitation for New English Electronic Edition of China Nuts And Roasted Seeds

China Nuts And Roasted Seeds is under the guidance of the Specialized Committee for Nuts and Roasted Seeds of China National Food Industry Association and sponsored by Beijing Zhongjian Heguo Information Technology Service Co., Ltd., <http://www.csnc.cn> and [www.chinanutexpo.com](http://www.chinanutexpo.com). It is currently the only domestic guiding journal for the nuts and roasted seeds industry. To make the world's nuts industry know more about China's nuts and roasted seeds industry, to integrate China's nuts industry into the global nut economic and trade integration, and to cooperate with the global peers for win-win results. To adapt to this new development trend, since April 2020, China Nuts And Roasted Seeds has added an English electronic version to serve as an exchange of information for nut enterprises, the industries and associations worldwide. We are sincerely soliciting contributions from domestic member enterprises, as well as domestic and foreign readers, professional scholars, and nuts and roasted seeds practitioners. The contents and scope of the contributions are concluded as follows:

- I. Popularize the performance and experience of the enterprise and its leaders (chairman and general manager) (please attach the working photos of the enterprise and leaders at the same time);
- II. Introduction to working attainment and experience: workshop management, technology, process, quality, quality management, product development, inspection and other working attainment and experience;
- III. Popularize the latest scientific research achievements of the enterprise (raw

material planting, nutrition, technology, equipment, additives, etc.) and the promotion of new products (in Chinese and English);

IV. Marketing experience and introduction: attainment and experience in warehousing, transportation, wholesale, product sampling, direct selling and terminal markets, business negotiation and contract signing, etc.

V. Solicit the information needed by the enterprise, such as the information consultation on raw material purchase, equipment purchase, talent recruitment, etc.

VI. Put forward the relevant suggestions and opinions to the Magazine;

VII. The members of the Magazine's expert panel shall provide 2-3 professional manuscripts each year, which may be prepared by themselves or recommended.

VIII. Manuscripts may be provided in both Chinese and English. Welcome to contribute and recommend your manuscript! Requirements for manuscript solicitation: manuscript shall be in the form of electronic document.

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Editorial Department of China Nuts And Roasted Seeds

## Information Consulting Service Table for China Nuts And Roasted Seeds in Chinese and English

The Chinese and English versions of China Nuts And Roasted Seeds also receive the information consulting services from relevant enterprises and associations at home and abroad. The specific contents are concluded as follows:

I. Information Consulting Service Charge for Chinese Version

1. Consulting Service Price

Category A: RMB 18,000/Page/Year for Single Page (6 Issues of Internal Pages + 1 Issue of the Journal)

RMB 35,000 Yuan/Year for Continuous Pages (6 Issues of Internal Pages + 1 Issue of the Journal)

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Category C: 4-Cover Services (Bimonthly, Six Issues a Year)

Front Cover: RMB 45,000 yuan/year (no single issue); Back Cover: RMB 38,000 yuan/year (8000 yuan/issue)

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Full Page Position of English Contents: RMB 25,000 yuan/year (4500 yuan/issue)

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II. Information Consulting Service for the English Electronic Magazine

1. Consulting Service Price

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RMB 15,000 Yuan/Year for Continuous Pages (6 Issues of Internal Pages + 1 Issue of the Journal) (3000 Yuan/Issue)

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# GREATLY DEVELOP INDEPENDENT R&D OF CHINA'S "SEED CHIP"

—Exclusive Interview of Zhang Yongping, Deputy Chairman of CNSA, Chief Sunflower Seedling Expert, Chairman of Sanrui Agritec Co., Ltd.



The 2020 Central Economic Working Conference proposed to focus on agricultural production, and one of key points in 2021 is to solve seeds and cultivated land problems. It is necessary to strengthen seed quality resource protection and utilization, strengthen seed bank development, respect science, strictly supervise, and push biological seed breeding industrialized application in order. Speaking of edible sunflower seed industry in China, people will firstly remind of Sanri Agritec, while as the agricultural “seed chip” of China, Sanri Agritec has been keeping independent innovation under guidance of “serve farmers, accomplish the company”, and it takes technological innovation as the primary development strategy, and takes the lead in scientific and technological investment scale, scientific staff strength and scientific achievement quality. Sanrui Agritec launched per mu benefit selection mechanism firstly in the city

in 2020, and started the nationwide sunflower seed plantation competition themed as “heroes based on per mu benefits” for three years with total bonus of RMB500,000. The editor exclusively interviewed Zhang Yongping, Chairman of Sanrui Agritec Co., Ltd. about that event.

Editor: Good morning Mr. Zhang. As we know, Sanrui Agritec held the competition of “Heroes based on Per Mu Benefits” in 2020. As a leading enterprise of edible sunflower seeds industry in China, please tell us your original intention of the event and results of the competition your expect.

Mr. Zhang: For years, as the leading enterprise of edible sunflower industry, Sanrui Agritec successfully led third industrial revolutions of edible sunflower in China, from variety hybridization in 2000, to variety quality in 2012 and to growing technology revolution at present. Through over 20 years’ development, the edible sunflower plantation area keeps increasing nationwide, and keeps at 8.5 million mu. However, many growing areas suffered circumstances such as growing worse varieties as quality ones, extensive plantation management, and serious insect pests and weeds, causing higher yield but low benefits and puzzles of many farmers, and seriously affecting healthy development of the industry.

We believe the event of “heroes based on per mu benefits” perfectly matches with current demands of sunflower seed industry for development, demands of farmers for higher income, and demands of enterprises for development. Sanrui Agritec will, in next 3 years, take the opportunity of this event, select 1000 farmers nationwide every years and offer high-quality variety and formulate scientific technical service solutions. Under the dual function of positive incentive and reversed pushing, it will thoroughly change the traditional

extensive plantation mode in China, and pay more attention to good quality, scientific, refined and intensive plantation so as to comprehensively improve plantation incomes and overall benefits of edible sunflower industry.

Editor: Sanrui Agritec is an enterprise valuing innovation. Could you tell us what you will do with innovation spirits this year?

Mr. Zhang: The rapid growth of sunflower industry in recent years is closely related to R&D, innovation of sunflower seeds, and control of core germplasm resources. To realize high quality development of sunflower industry, it is necessary to start from high-quality development and efficient yield of seed engineering and technical research and development. In this year and next 3~5 years, Sanrui Agritec will continue to comprehensively strengthen technological innovation and R&D under guidance of three development strategies including technological innovation, targeted services and brand development.

Editor: Thank you so much, Mr. Zhang. As the executive chairman of China Nuts and Seeds Industry Development League Sunflower League, please give us some suggestions about work plan of the league in 2021 and later years, and tell us your expectations!

Mr. Zhang: In 2019, the league and Sanrui Agritec acquired the right to host 2024 International Sunflower Conference. In this year and next 3 years, we

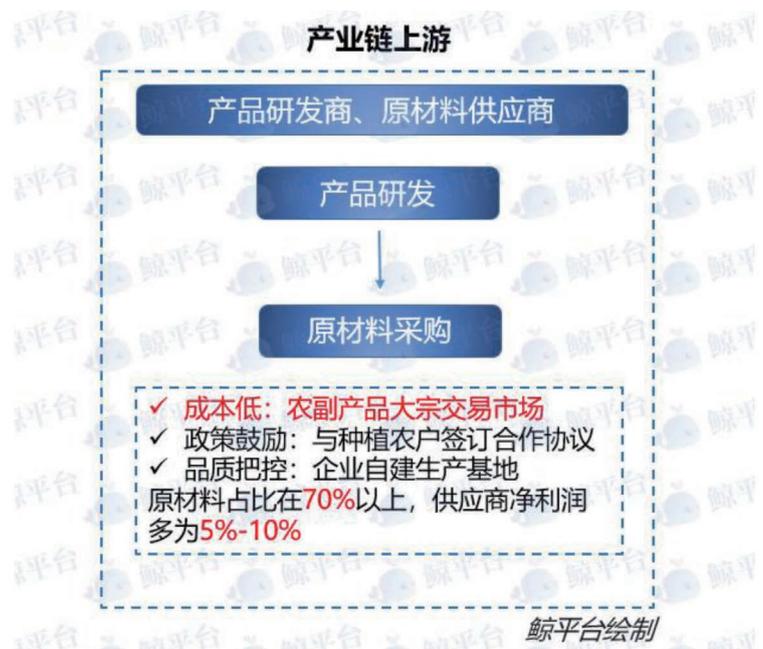
will comprehensive connect with superior resources of the Conference, trace advanced achievements of international and domestic industrial development, improve innovative innovation system development, and speed up the transfer progress of world sunflower industry center to China; we should finish “China Sunflower City Construction Project” based on high standard, including reform and expansion of Sunflower College, construction of Academician Workstation, modernized sunflower processing center, sunflower warehouse and logistics center, and international sunflower conference center; realize upgrading and high-standard layout from source to terminal of sunflower industry, further enhance exchange and cooperation of international sunflower industries through sunflowers, and build world sunflower industry center centering at Hetao, China to drive higher leap if sunflower industry in China. 



# ANALYSIS ON UPSTREAM MIDSTREAM AND DOWNSTREAM *of* SNACK FOOD INDUSTRY IN CHINA

## Analysis on upstream of snack food industry in China

The upstream participants of China's snack food industrial chain are product developers and raw material suppliers. In product R&D link, enterprises shall consider implementation possibility of technology, and design products based on cognition about consumers, market prediction and brand orientation. In view of cost, the main form of snack food manufacturers to acquire raw materials is purchasing from agricultural products and byproducts bulk trade market at present. Take BeStore as an example. The raw material supplier of BeStore cooperates with jujube growers in Huanghua, Hebei Province, who grow raw jujubes, and send to production base of BeStore for processing. The "Enterprise+ Farmers" mode can not only reduce market risks of the growers industry, improve incomes of farmers, but also provide abundant raw material reservoir, realizing win-win cooperation.



### Analysis on midstream of snack food industry in China

The midstream entities of China's snack food industrial chain are snack food manufacturers. Their gross rates at mostly at 30%-50%. Take Yuanzu, Zhouheya, Toly Bread, BeStore, Juewei duck necks and Three Squirrels as examples. During 2016 and 2018, average gross interest rate of aforesaid enterprises is 30%-50%. In the aspect of production, the snack food industry has two modes of self built production line and OEM. When production process is complex, OEM cost is high, and meanwhile product sales volume is large and profits are high, the profit space of self-built production line is larger. In current stage, BeStore, Laiyifen and Three Squirrels adopt OEM, while ChaCha adopts independent production mode. According to China Lianhe Credit Rating, the net profit ratio of Chacha is maintained at 10%, while of the channel-based Three Squirrels is below 5%. The net profit ratio of newly launched product as driven by scale effect by manufacturers with independent production will be improved continuously, while channel-based OEM enterprises are still in growth period; the costs will erode net profits during that period, and net interest rate is in a lower level.



### 产业链下游



### Analysis on downstream of snack food industry in China

The downstream of snack food industry in China involves marketing channels and consumers. According to statistics of retail amount, the market share of modern retail channel and traditional retail channel in 2018 is respectively 34.9% and 38.9%, while of e-commerce channel is only 10%. In the future, as offline channels go to low-tier cities and rural markets, and Chinese residents cultivate online shopping habits, the market share of traditional retail channels and e-commerce channels will increase to 40% and 18% from 38.9% and 10%. In the consumption end, the young generation, female consumers and white collars will be key objects for snack food enterprises; markets in low-tier cities will be the key direction for market expansion of snack food enterprises. 医 学 网

# CHANGES OF GLOBAL NUTS TRADE IN EPIDEMIC



What are the changes of global nuts trade after outbreak of COVID-19 epidemic?

## **Walnut**

The walnut production in California is expanding. According to data of USDA, the expected crop yield is 780,000t, increasing 19% than that in the previous year. Michelle Connelly, Executive Director of California Walnuts Board, said the growth is caused by new growing area and higher productivity.

## **Pecan**

The shelled pecans yield is declined slightly, decreasing 5%; while the shelled inventory is increasing 60% than that in last August. The season ends with a larger inventory, processing and shelling personnel will enter new season with a larger inventory.

## **Pistachio**

The pistachio yield in USA this year may exceed 1 billion pounds. During COVID-19 epidemic, the international reference price of pistachio keeps stable; US pistachios enjoy higher quality and consistency. They have higher advantages than that in Iran and Turkey in addition to

strict food safety control.

## **Almond**

California almonds delivery created a new record in July, reaching 119.8 million pounds. Although in the past year, due to complexity and global destruction of COVID-19, the shipment of California almonds created the historical high record for five consecutive months. Data of USDA shows the almonds yield in the USA this year will soar 20%, reaching the new record of 3 billion pounds (about 1361 kiloton). California is the largest producing area of almonds, accounting for 80% of global yield.

## **Cashew**

The Due to good harvest of cashew nuts in California and lower demands in this year, the supply of nuts exceeds demand on market, and the price slumped. The price of cashew dropped 10%.

## **Hazelnut**

Hazel nuts are growing globally. Over 99% hazel nuts in the USA are grown in Oregon. People predicts that the per unit area yield of hazel nuts in this year will be high due to more trees and good growing conditions.

## **Iran**

### **Pistachio**

The Chairman of Iran Dry Fruits Exporters Association said compared to the last year, the pistachio yield in the country this year (by March 20, 2021) will increase 55,000t.

## **Turkey**

### **Hazelnut**

Turkey is the world's largest hazel nuts producing country and exporter. Its yield is accounting for 70% of global yield, and export volume accounts for 75%.

## **Pistachio**

According to official prediction, the pistachio yield in Turkey is 250,000 metric ton.

## **Australia**

### **Macadamia**

The macadamia nuts in Bundaberg, Australia are accounting for over 40% of total yield in Australia. The yield is large this year.

## **Almond**

The yield in 2019/20 is expected to increase 13,000 metric ton. In the future years, the yield increased will be exported mostly; the closing inventory will increase with increase of yield.

## **India**

### **Cashew**

As COVID-19 impacted consumption amount in Vietnam, India may benefit from global original cashew nut price recession. India at present meets over 60% of cashew nut processing demands by importing raw cashew from African countries. M.D. of Kalbavi Cashews said India may process and consume more cashew nuts in the long run.

## **Georgia**

### **Hazelnuts**

Georgia will harvest about 50,000t high quality hazel nuts this year according to prediction. 



# R&D OF FOUR-COLOR RAISINS

—Anhui True Love Food Co., Ltd.



Raisin is one of the favorite dry fruit products of consumers due to good taste, rich nutrition and low price. Raisins are suitable for all people. In former market, raisins are mostly sold in bulk or bags with various qualities. The variety is single, and market price competition is fierce. The main mode is price competition eliminating low quality products. The brands are more, and no primary brand is formed. With increase of consumer's consumption ability, and growth of their demands for high quality and new varieties, it is urgent to develop brand new raisin products with high quality and good place of origin guarantee. The market potential is vast.

Product introduction:

## I. Professional field

The four-color raisins project belongs to independent development project in snack food field, and the product is of high quality.

## II. Main contents and characteristics of R&D

R&D of product packing material: adopt square transparent PET seal can; the opening is sealed with aluminum foil by laminating, and covered by PET cap. The can is small and portable; it is suitable for travel, trip, office and many other consumption scenes;

R&D of product storage and transportation performance: PET seal can is convenient for product storage and difficult to deform. It shows better quality and better fresh preservation effect; the PET cap is convenient for secondary storage after opening;

R&D of product packing design: The overall transparent PET can is visible and clear to see good quality of products inside. The products are colorful, and product label has fresh color, which is vivid and fashionable, complying with aesthetic idea of main stream young consumers.

R&D of product ingredient and process: Select raisin products with Xinjiang Turpan geographical indication, where is a high-quality producing area; the annual sunshine duration is 2912.3h-3062.5h and annual sunshine percentage is 65%-69%. Select the first grade quality products with full grain, good color and total sugar content  $\geq 65\%$ ; good taste and water content 12%-15%, slight sweetness and sour. Green raisins, red raisins, yellow raisins and blackcurrant are selected with scientific proportion. The varieties are richer, colors are various, meeting

diversified demands of consumers. The four kinds of raisins all adopt water washing process to effectively remove impurities and rotten ones and guarantee safety and health; the taste is perfect and the products are better to look.

## III. Promotion and application

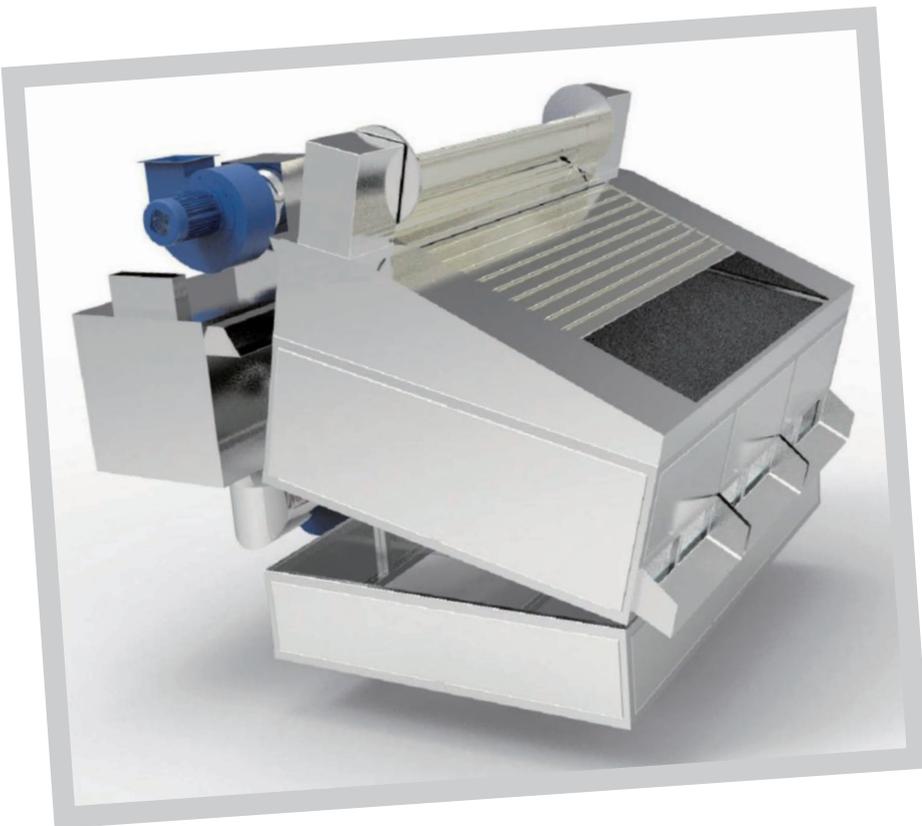
Since the project was put into market, 160g four-color raisin product has attracted attentions of consumers, and realized over ten thousand cans sales every month through more than 30 e-commerce platforms. Afterwards, we launched two strengths of 250g and 106g, in which the former matches with sales characteristics of Pinduoduo, and keeps stable on the top of raisin brands on Pinduoduo platform due to its efforts in product, price, brand and channels.

Innovation and space for improvement

1. The transparent PET seal can, instead of common plastic bags, is portable and visible;
2. The raw materials are selected from high-quality producing area, and the products are with Xinjiang Turpan geographical indication;
3. Green raisins, red raisins, yellow raisins and blackcurrant are mixed according to proportion of 2:2:1:1; the proportion is scientific, nutrition is complementary and colors are well arranged;
4. The raisins adopt water washing process to remove impurities and rotten ones, improve taste and enhance sense of experience of consumers. 

# SINGLE-LAYER CIRCULATING AIR DRYING MACHINE

—Linyi Lanshan District Feilong Food Machinery Co., Ltd.



During traditional drying process, to avoid damage in shell nuts roasting (such as thin-shelled walnut drying), many manufacturers continuously apply single-layer drying machine. However, the consumption is large, and equipment is outdated. Thus, we manufacture the single-layer drying machine with circulating air to guarantee original process and use the machine cyclically so as to reduce energy consumption and save production costs.

This equipment is a brand new upgrading and integration based on current production process; the brand new upgrading of single-layer circulating air drying machine in structure and internal parts greatly improves heat utilization rate, fast temperature rise and low loss. It is equipped with some automatic control systems to consist a set of intelligent single-layer drying machine. It is featured in low energy consumption, diversified drying and low loss.

## Function characteristics and contents of scientific technology Pros:

1. Materials for drying are diversified.
2. The box is small, and suitable for any workshop; with hydraulic mandrel, the discharge is more convenient.
3. Dehydration effect is even, and drying time and temperature control scope is extensive.
4. The real-time hot air circulating loop cooperates with new air arrangement structure could guarantee even and consistent temperature and humidity of all materials inside the case.
5. The heat supply mode with separated hot air circulating loop and tidal drainage loop is adopted with independent tidal drainage outlet. It is particularly suitable for materials for long time drying and materials with low humidity.
6. The tidal discharge volume will be controlled automatically according to inside humidity; the lower the material humidity is, and the lower the gas consumption will be.
7. Operating principle: The complete set control system of the drying machine is: full automatic control could take combustible gas or liquid as heat source; uses high speed fan to drive heated air to drying chamber; the tidal discharge fan will discharge humidity according to internal humidity automatically. The tidal discharge volume will be controlled

automatically according to inside humidity; the lower the material humidity is, and the lower the gas consumption will be; the internal humidity is reduced, finally forming circulating air drying loop.

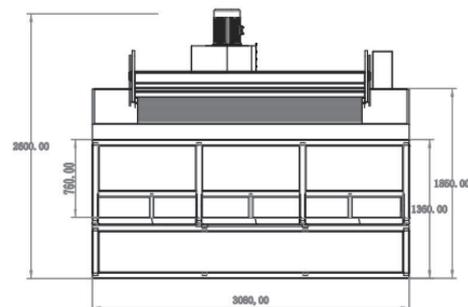
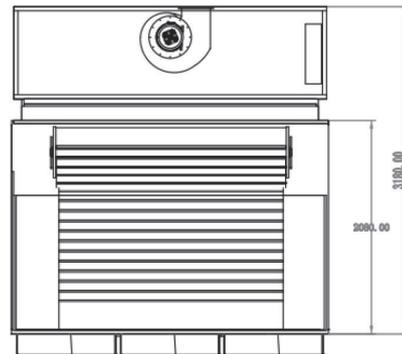
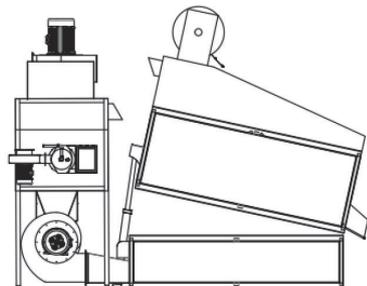
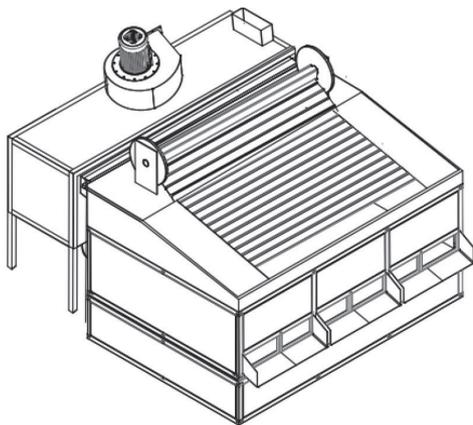
## Aspects for improvement

The drying machine adds a part of circulating equipment to make the equipment wider and higher so that production space of some clients is not enough. Therefore, we strive to revise and particularly customize the machine according to requirements of clients.

Comprehensive comparison to domestic and overseas similar studies and similar technologies at present

Take peanuts and walnuts drying as example. We provide the following data:

	Average energy consumption of peanut drying	Average energy consumption of walnuts drying	Temperature control mode
Traditional single-layer drying machine	Averagely 9--11m <sup>3</sup>	Averagely 9--11m <sup>3</sup>	Manual
Circulating air single-layer drying machine	Averagely 6--8m <sup>3</sup>	Averagely 6--8m <sup>3</sup>	Automatic



# APPLICATION OF ANTIMICROBIAL AGENT OF PLANT ORIGIN TO SUNFLOWER SEEDS BRINE

**O**n order to extend use cycle of sunflower seed brine, reduce brine discharge, and reach the purpose of energy conservation and emission reduction, the project of applying natural antimicrobial agent to sunflower seed brine was studied in 2019 to restrict microbial growth in brine by natural components extracted from plants, guarantee brine will not be deteriorated during storage, and meet conditions for production so as to extend brine storage period and add brine use frequency. The research findings of the project can not only reduce production costs, improve economic benefits but also reduce sewage discharge and use of materials and gas to realize energy conservation and consumption reduction.

Main acting components of antimicrobial agent of plant origin are: cinnamon oil, mandarin oil, lemon oil, rosemary with carrier of food emulsifying agent.

Antibacterial mechanism:

“defense” - disturbing normal physiological function of cytomembrane; “digestive system” - disturbing proceeding of a series of biochemical reaction such as cytoplasm, organelle and enzymatic activity; “upgrading” - disturbing normal editing of cell nucleus, DNA and RNA, and protein maintaining life will not be synthesized.

Safety: the raw material is from plants edible for people for long, and complies with requirements regarding flavor for food in GB 30616; there is no restriction

for concentration added, and it will not endanger human cells. The low addition concentration complies with natural, safe, and reliable requirement for anticorrosion. The entire test and application process experience three stages: small scale test, pilot scale test, and trial-production to confirm the application.

During the test, pH value maintains at 4.3-4.9; although flavor may be lowered in sensory aspect, there is no abnormality. Finally, according to the small-scale test results, the project preliminarily judges antimicrobial agent of plant origin has certain antiseptic and antimicrobial function to sunflower seed brine. Thus, the project decided to use FL06291 antimicrobial agent of plant origin to carry out workshop pilot-scale test.

After four times of pilot scale tests passed, the workshop commissioning will be carried out. The object is brown sugar and sea salt brine. Appraisal for sunflower seed products is organized, and flavor acceptance rate is over 90%.

The model of antimicrobial agent of plant origin finally applied is: mixed flavor essence (NJFPS32229070, Zhuhai Nature Journey Biotechnology Co., LTD.)

Usage: 0.08% of brine

Innovative points and aspects for improvement: The antimicrobial agent of plant origin is applied to sunflower seed brine for the first time by virtue of its restriction for microbial growth and certain antiseptic function; it could



extend storage period of the brine under normal temperature and normal operating environment; the operation is simple, healthy, environmental, and effective.

However, there some aspects to be improved: the current model of antimicrobial agent of plant origin can be only suitable for sunflower seed products with low flavor identification degree--brown sugar and sea salt flavor, caramel flavor, and five spices flavor. The products with high flavor identification degrees, such as honey pecan flavor, ginger juice and brown sugar flavor, and citronella-lemon flavor are easy to be affected by flavor component of antimicrobial agent of plant origin, weaken or eliminate the characteristic flavor; thus, it is necessary to cooperate with developers of the antimicrobial agent, discuss influence of weakening or eliminating antimicrobial agent of plant origin on product flavor, and extensively apply to sunflower seed products with various flavors. 

**BREEDING AND INDUSTRIAL  
APPLICATION OF HIGH-YIELD  
HIGH-QUALITY AND DISEASE-  
RESISTANT HYBRID  
EDIBLE SUNFLOWER SH363**



**S**unflower is the main economic crop in Inner Mongolia, with annual planting area of 5.5 million mu, accounting for about 60% of total edible sunflower planting area in China. In the core area, Bayan Nur, the edible sunflower planting area reaches 4.2million mu in 2016, accounting for 40% of nationwide planting area. About 40% of citywide farmers' economic income is from sunflower plantation, and over 60% in individual area, about one third of total value of agricultural output in the entire city. Sunflower industry plays an active promoting role in income increase of farmers and herdsmen, agricultural efficiency enhancement, rural economic development, social stability and economic prosperity in Inner Mongolia Autonomous Region.

Finish technological innovation

1. Adopt marker-assisted selection (MAS) technology to speed up new variety breeding.
2. Dig up and innovatively use germplasm resources with genetic diversity;
3. The products are of high quality, good commercial performance, and in leading level among similar products. The crude protein content and crude fat content are higher than other similar varieties and the product becomes the optimal raw material for high-end original taste roasted nuts and seeds recognized at home and abroad after its launching due to rich nutrition. Particularly its characteristic of crunchy and inviting seeds always top other varieties.
4. High yield, stable production and extensive adaptivity; SH363 is a medium and late maturing variety with high quality and yield, and could meet different market demands.
5. Independent intellectual property variety R&D and variety specific DNA fingerprints; SH363 provides scientific and technological support for maximum



economic benefits of high quality variety and healthy development of edible sunflower industry.

6. It established an efficient and scientific cultivation mode.

Technical development status and trend at home and abroad

Internationally: in current stage, the modern seeds industry has developed to the biotechnology age. Massive application of biotechnology (cell engineering and gene engineering) offers larger depth and better purpose of sunflower germplasm resources development and evaluation. New variety cultivation speeds up, and the period shortens from about 10 years former to 3-5 years.

In China: The edible sunflower hybrid breeding reformed in China in breeding technology after hybridization and

quality-oriented technological revolution. The independently developed edible sunflower varieties could almost completely replace imported ones.

Achievements

Relying on excellent performance of high-quality sunflower new varieties in actual agricultural production, and intellectual property promotion, the national sunflower hybrid market share is increased from 25% to over 70%. Sunflower industry plays an active promoting role in income increase of farmers and herdsmen, agricultural efficiency enhancement, rural economic development, social stability and economic prosperity in Inner Mongolia Autonomous Region, and has made a vast contribution to sustainable and healthy development of sunflower industry in China. 

# PLANTATION AREAS OF PISTACHIO

## IN CHINA AND PLANTATION SITUATIONS



Pistachio is a common nuts in our daily life. The small and tasty nuts are necessity for family reunion and gathering during holidays. However, many people are reluctant to buy pistachios due to high price.

Pistachio looks similar to ginkgo. So, many people take ginkgo nut as pistachio by mistake.

Where are the pistachios planting in China on earth?

The place of origin of pistachio is Iran, and now pistachio trees are distributed in Italy, France, Greece, Turkey, Syria, Afghanistan, and Iraq, as well as California, USA. Russia and Xinjiang

of China have extensively cultivated pistachio trees.

At present, the main producing area in China could yield over 300kg, which could be processed to 75-100kg dry fruits after shelling and drying; in other words, the per mu yield could reach RMB6,000-10,000; the economic benefits are favorable. It is a project with extremely high economic value in current rural plantation industry, and suitable for northwest China.

However, the overall plantation amount of pistachio in China is not large. In the main producing area, Xinjiang, the plantation area in 2016 is about 10ha., which is improved in recent years but

overall amount is still not large. Many nuts depend on import.

According to market selling price, the price fluctuation in recent years is small. It means, China has not produce pistachio in large amount, and depends on import mostly.

At present, Iran is the world's largest pistachio exporter, and exports 93,000t every year. America as the later comer surpasses the former. America pays attention to pistachio pollution prevention. Like other oil crops, pistachio is easy to suffer pollution of aspergillus flavus. The poisonous aflatoxin generated after pollution could lead to cancers such as liver cancer. In order to produce the safest and best pistachios, America does not apply pesticide and chemical fertilizer during plantation.

To guarantee freshness of pistachio, they fully adopt mechanical operation from picking up to processing within 24h. Water content of pistachio nuts during processing is controlled strictly, and will be reduced from 45% to 12% in 2h, and reduced to 5% before warehousing. In this way, it could effectively avoid poisonous aflatoxin generation. According to standards formulated by USDA, they also test water content residual amount, and could provide grade A and the fastest pistachio nuts to consumers. 

# ChaCha

## 每日一坚果

### ChaCha Daily Nuts

# Keep Fresh with Key Tech

## As fresh as just peeled

China National Science and  
Technology Progress Award



Certificate No:2017-J-211-2-01-D03

掌握关键保鲜技术



30日装  
内含30袋  
净含量780克

坚果刚剥壳般的美味

荣获国家科学技术进步奖

无添加  
坚果不添加蔗糖、色素

巴旦木 腰果 蓝莓  
美国/澳洲 柬埔寨 智利  
土耳其 中国新疆 加拿大

榛子 核桃 黑加仑  
土耳其 中国新疆 加拿大 葡萄干  
乌兹别克 高坦

每一袋含4种坚果+3种果干

· 图片仅供参考



## **2020 Macadamia Nuts Yield Exceeds Expectation**



Australian Macadamia Society (AMS) announced recently that macadamia nuts yield reached

46,900, exceeding the predicted yield in 2020 and reaching a peak value in the industry based on 3.5% water-content and unshelled amount (50,300t, based on 10% water content).

The actual harvest is higher than original prediction. Another reason for high yield is many new macadamia trees are planted in Clarence Valley (New South Wales) and Bundaberg (Queensland), which affect production in this season.

All growing producing areas show good performance in this season. The harvest in Northern Rivers, New South Wales is far better than expectation partly because of strong performance of mature orchard in this area.

## **Development Status of 2020 Global Cashew Industry**

Global cashew nut yield shows fluctuant rising trend as a whole. The yield in 2019 is 3.9607million ton. Global cashew nut producing areas are Ivory Coast, India and Vietnam. The overall supply of cashew nut (unshelled) in China falls short of demand. Global cashew nut yield is fluctuant during 2009-2019. The global cashew nut yield in 2019 is 3.9607million ton, reducing 3% on year-on-year basis.

Global cashew nut producing areas are mainly Africa, Asia and America. Total cashew nut yield shows fluctuant rising trend as a whole in Africa and Asia during 2009 and 2019. The yield in America is declining. The cashew nut yield in Africa in 2019 is 2.334 million ton, in Asia is 1.478 million ton and in America is 151,000t.



## **Price of Russian Sunflower Seeds and Sunflower Seed Oil May Soar**



Russia is facing the risk of lean harvest of sunflower seed, which may probably lead to soaring price of relevant products. Analysts predict that as affected by droughts in Spring and Summer, the predicted oil seed harvest this year is 11.8million ton, decreasing 23% on year-on-year basis. The income in the south and Ciscaucasian area of Russia will be reduced to 3.3 million ton, nearly one third less than that in the previous year. Soon, oil seed price may soar. The average price of sunflower seed in Russia in the previous week is RUB22,500, which may increase at least 20% in the future.

Earlier, the Ministry of Economic Development of Russia proposed to collect 20% tariff against sunflower seed exported from Russia from February to August 2021. The tariff shall be no lower than 80Euro per ton (the current tariff rate is 6.5%, no lower than 9.75Euro per ton). As predicted by the Ministry, the sunflower seed processing capacity in Russia in 2024 will be increased to 22.7 million ton.

## The Netherlands Invested USD-250Mln in Cashew Nuts Industry in Binh Phuoc, Vietnam



Mekong Cooperation EUROPE BV (MCE) and AVP talked in a forum about cashew nut industry investment project under circular economy pattern with leaders of Binh Phuoc the other day.

Thanh Binh Nguyen, MCE General Manager disclosed that MCE and AVP will invest nearly USD250million in cashew nuts industry in Binh Phuoc Province. The cashew tree research and development pilot zone and cashew nut processing factory to be built cover an area of 200ha.

The raw material zone investment and development project covers an area of 200,000 ha., and the investment amount is USD124 million. Total investment of cashew nut production and export cashew shell oil refinement project is USD81 million. The annual yield of cashew nut manufacturer reaches 168750t, annual yield of cashew shell oil refinement factory is 118125t, and yield of cashew shell residue manufacturer is 118125t.

Meanwhile, a cashew nut R&D Center will be build in Deliu Town, Budeng County, Binh Phuoc Province.

## US Peanuts Export Grows Rapidly

From January to October, 2020, total export volume of US peanuts is 544,406 metric ton, valuing USD626 million. The export volume



increased 32% compared to the same period in the previous year, and export amount increased 12%. In 2020, China is still the major export destination of US peanuts, accounting for nearly half of all peanuts export of the USA. Compared to that in the same period of 2019, total shipment to China (mainly farmers' inventory) increased 328%, and value adding 228%. The export to Canada increased 1% while export to Mexico reduced 4%; the export to Europe dropped 58%, while to Japan dropped 23% on year-on-year basis. At last, the shipment to other regions of the world dropped 3%.

Raw peanut kernels are main export products of the USA; the export volume is 244,977t, dropping nearly 10% that that in the previous year. The shelled peanuts including raw materials used in squeezing oil follow behind. As of October 2020, the shipment reached 235258t, increasing 237% that that in the previous year. The peanut butter export is 32604t, decreasing 5% that the previous year; the peanut products export is 16091t, increasing 8%. So far, the total export volume of shelled peanuts is 13095t, dropping 8% on year-on-year basis in 2019.

## Nigeria Cashew Nuts Export is Potential

As reported by Nigerian media, the Nigerian cashew nuts belong to one of the 13 products encouraged to export. According to statistical data of State Statistics Bureau in the first quarter, the cashew nut export of Nigeria in the first quarter is reduced.

Nigeria is the eighth largest cashew nut producers in Africa. Main reason restricting development of Nigerian cashew industry is insufficient processing capacity. Nigeria only processed 10% cashew nuts, and others will be sold at low price. From 2017 to 2019, the cashew nut export volume in Nigeria accumulatively exceeded 122 billion naira (converting to USD 320 million).




**每天一把坚果瓜子,有益健康**  
A Handful Of Nuts And Roasted Seeds A Day Is Good For Your Health

**2020年9.17中国坚果健康周开幕式**  
**2020年度全国坚果炒货行业理事(扩大)会**  
Opening Ceremony of 2020 Sept. 17 China Nuts Health Week & ;  
Enlarged Council Conference of China Nuts and Roasted Seeds Indu

指导：中国食品工业协会坚果炒货专业委员会 主办：北京中坚合果信息技术服务有限公司  
组织：9.17中国坚果健康周组委会 承办：安徽真心食品有限公司

协办：      

线上合作： 



## EXHIBITION INTRODUCTION

All relevant enterprise units:  
The 15th Online and offline China Nuts and Roasted Seeds Industry Exhibition 2021 is scheduled to be held in Hefei, Anhui Province, P.R.C., from April 16 to 18, 2020. The exhibition covers an area of 53,000m<sup>2</sup> and the number of online and offline participants is expected to exceed 100 million. It is an international grand gathering with the largest scale, the largest number of participants, a wide range of information, timeliness and authority in the whole industry chain of nut speculation throughout the world. We hereby sincerely invite the colleagues at home and abroad and people from all walks of the life to come together for win-win cooperation and common development.









**Guidance Unit:** The Specialized Committee for Nuts and Roasted Seeds of China National Food Industry Association

**Organizational Unit:** Organizing the Committee of China Nuts and Roasted Seeds Industry Exhibition

**Organized by:** Beijing ZhongJian Heguo Information Technology Service Co Ltd

**Hosted by:** Anhui Zhongshe International Exhibition Co Ltd  
[www.ChinaNutExpo.com](http://www.ChinaNutExpo.com)

**Co - organizer:** China Nuts and Seeds Industrial Development Alliance  
[www.csnc.cn](http://www.csnc.cn)  
China Nut Scrambled Magazine - Relevant Provincial and Municipal Nut and Roasted Seeds Association

**Exhibition Time:** April 16-18, 2021 (April 14-15, arrange exhibitions)

**Exhibition Venue:** Anhui Binhu International Convention and Exhibition Center, Hefei (Southwest Corner of the Intersection of Luzhou Avenue and Jinxiu Avenue in Hefei Binhu New District)

## Exhibition Area Layouts

1 Well-known and Special new Food exhibition area

2 Nuts and Roasted Seeds Food exhibition area

3 Dried Fruit, Preserved Fruit exhibition area

4 International Nut Food exhibition area

5 Private brand exhibition (OEM) area

6 Nut Scrambled Food Ingredients exhibition area

7 Color sorting equipment exhibition area

8 Packaging Material exhibition area

9 Nuts and Roasted Seeds Food machinery exhibition area

10 Nuts and Roasted Seeds Food packaging machinery exhibition area

## Meetings and related activities during the exhibition

**April 15: Full-day meeting will be held concurrently at one main venue and four sub-venue.**

1. Authority issued Economic Operation Report of Nationwide Roasted Seeds and Nuts Industry from 2020 to 2021;
2. Authority to issue 2020-2021 Nuts and Roasted Seeds Market Analysis Forecast Release Report in Global and China;
3. China Nuts and Roasted Seeds Industry Development Alliance authoritative release ——2020-2021 peanut, sunflower seeds, watermelon seeds, walnuts, apricot kernel, pine seeds, pistachio, pecan, almonds, macadamia and so on raw materials, product analysis and prediction report;
4. Press conference on machinery and equipment, new additive products, new technology and new accessories for nuts and roasted seeds in 2021;
5. 2021 National annual meeting of nuts and roasted seeds industry, recognition of advanced, analysis of industry hot spots, pain points, difficulties, to discuss the development of the industry.

Note: the specific time and content of the above activities will be notified.

## ASSOCIATION WORK

Participating in “the 15th online and offline China Nuts and Roasted Seeds Industry Exhibition” Will Give You the Opportunity to Gain

### 1. Exhibitors:

**Offline:**The Company collected and supplied at least 100,000 domestic and foreign distributors, buyers and domestic and foreign large chain stores to discuss and expand market share. It will promote the popularity of the corporate brands and products at home and abroad.

**Online:** Firstly, during the exhibition, you can participate in the live broadcast activity of taking goods together with the head e-commerce platform and famous web celebrity; All offline activities are live broadcast and promoted on the world's largest nut fry exhibition website, public account, small program, WeChat and other online media. At the same time, Exhibitors can also free of charge in the China Nuts and Roasted Seeds Industry Exhibition ([www.ChinaNutExpo.com](http://www.ChinaNutExpo.com)) to publish an online exhibition information to cooperate with publicity; Secondly, through the major Media throughout the country, industry self-media wide publicity, it is estimated that more than 1 million people through live watching the exhibition, to learn about live exhibitors, exhibits information and trading results.



### 2. Buyers:

**Offline:** You can negotiate with hundreds of the suppliers to purchase the products you need. Thousands of products of nuts and roasted seeds display on site come from 20 countries and regions throughout the world, with the most varieties and categories in the world and high quality and safety traceable.

**Online:** More than 1,000 exhibitors set up exhibitions in the world's largest China Nuts and Roasted Seeds Industry Exhibition Network online exhibition 24 hours, anytime, anywhere to negotiate with exhibitors.



### 3 Attend the Expo:

(1) Keep the abreast of the raw materials, processing, market conditions and information of nuts and roasted seeds in approximately 20 countries and regions.

(2) The priority will be given to understanding the latest information and authoritative data with the national food safety regulatory agencies, Chinese and foreign experts and peers, leading way! Grasp the latest information of domestic and foreign markets and the whole industrial chain, and help the enterprises to develop continuously and safeguard their legitimate rights and interests;

(3) The world's largest on-line live broadcast of China's nuts and roasted seeds allows the exhibitors, buyers and participating enterprises to have more comprehensive and lasting experience and effects. More content and details may be discovered at [www.ChinaNutExpo.com](http://www.ChinaNutExpo.com).

(4) Publicity effect: the world's largest China Nuts and Roasted Seeds Industry Exhibition Network, combined with the official account and the media has been preheated in a comprehensive way. It has launched a full range of three-dimensional publicity, with a daily push of over 8 million. At the same time, through the head e-commerce platform, well-known network celebrities live with goods, multi-dimensional exhibition, exhibitors and exhibits for a comprehensive display, widely attracted the attention of the industry;

## 展世界坚果 享合作共赢



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# NUTRITION *of* CASHEW



## 1. Improve disease resistance ability

Cashew have rich high-quality protein. People who frequency eating cashew nuts can strengthen the body's immunity, improve disease resistance ability and build up appetite. Besides, cashew nuts have abundant grease, and are not suitable to eat excessively.

## 2. Relax the bowels and expel toxin

The large amount of natural grease in cashew can not only help treat constipation, but also maintain beauty, keep young, and remove spots.

## 3. Promote lactation

Many women lactate little after labor, and cannot meet demands of infants. At that time, offer the laying-in women some cashew to effectively promote lactation.

## 4. Protect eyes

Cashew have rich Vitamin a and natural carotene. Both of the two substances could improve functions of retina, and prevent retina lesion. They could ease asthenopia and prevent from night blindness. 

# HOW TO EAT MACADAMIA: NINE DELICIOUS DISHES WITH MACADAMIA



## **1. Directly eat**

## **2. Macadamia nut porridge**

You can directly eat macadamia nuts, and also cook it to porridge, which is a good way to eat.

## **3. Caramel macadamia nuts**

## **4. Macadamia nut ball**

The macadamia nuts taste good. They can be made to ball biscuits and wrapped with candy paper. They not only look cute, but are portable and convenient to replenish energy.

## **5. Chicken pineapple macadamia salad**

## **6. Macadamia ice cream**

## **7. Macadamia toast**

## **8. Macadamia coco crisp chips**



As important elements of parties, food and wines are unnecessary. During holidays, we'd better use pistachio to make some simple and delicious snacks for wine. Nail your parties easily.

### **Lettuce cup with seafood and pistachio**

#### **Ingredients:**

shrimp meat, scallop meat, shallot, chufa, carrot, US pistachio, lettuce, oyster oil, sesame oil, corn starch, salt, white pepper, oil and soup-stock

#### **Procedures:**

1. Wash shrimp meat, scallop meat, and slice scallop meat;
2. Take a clean bowl, put suitable amount of corn starch, salt, white pepper and edible oil, mix evenly, and put the processed shrimp meat and scallop slices; mix evenly, place still for 30min, and make them tasty;
3. After wash the shallot, chufa and carrot, chop the shallot, peel and slice chufa and carrot;
4. Take a bowl, mix corn starch and water;
5. Take a clean pot, burn it hot and

pour oil; later, put the seafood prepared to stir-fry; take out after 70% cooked;

6. Add some oil to the pot according to situations, and put shallot, chufa and carrot to stir-fry; after the carrot changed color, add seafood, and pour soup-stock, oyster oil, sesame oil and starch water; stir-fry to make the sauce even and thick; add shelled pistachio to fry evenly and the dish is ready! Put the food fried on a piece of lettuce, and roll up to eat. 蔬果炒货

# SNACKS FOR WINE IN HOLIDAYS WITH PISTACHIO



## Happy time with Bailian

Fujian Bailian Industry Co., Ltd. was founded in 1980s and experienced a high speed growth in 1990s. High holding the philosophy of quality, honesty, efficiency and stability, the company has grown from a trading company into a industrial and trading enterprise that engages in food development, production, sales, real estate investment and high-end property management.

Speaking of food, we specialize in producing leisure food of nuts and roasted seeds, conserved fruit, meat products, etc. With a variety of selection, distinctive favor and high quality, our products receive great welcome from customers. "Bailian melon seeds", as our main product, enjoys good reputation and market share within and beyond Fujian province.

In recent years, our company has been expanding in the northern agricultural park. The move would change the managerial pattern of the company by raw material processing to raw material production. At the same time, following the strategy of "strengthening the primary business and developing appropriately in multi industries", our Company entered the fields of real estate, property, finance, etc. Bailian Group of industry layout will gradually appear.

Our Company will continue to adhere to the business concepts of "people-oriented and keep improving" to enhance communication with all ranks of society to achieve sincere cooperation and mutual development.



**Fujian Bailian Industry Co., Ltd.**

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Phone number: 0591-83315111 83315198

# Chen Lin Foods

## Focus on Roasted seeds and nuts for twenty years



Pecan Flavored seeds (5kg)



Caramel flavored seeds (5kg)



Beater seeds (5kg)



Xinjiang thin-shell Walnut (2.5kg)



Boiled Seeds (5kg)



Vanilla flavored seeds (5kg)



Xinjiang thin-shell Walnut  
(2.5kg Weighing in bulk)



Pumpkin seeds (5kg)



The first grade Apricot Almond (5kg)

**Professional supplier: wholesalers, e-commerce,  
sub-packaging manufacturers**  
**Looking forward to your joining!**

Investment Hotline : 0575-87691788 18358557636 18758517771 13905858276

Website : <http://www.chenlinfood.com>





KOUSHUIWA

# Happy Snack!



Hotline:  
**4000-817-517**  
SUZHOU KOUSHUIWA FOOD CO. LTD

# BIG MELON SEEDS



SUNFLOWER SEEDS

原味瓜子就选三胖蛋



三胖蛋食品旗舰店



SERVICE HOTLINE

4000 181 333



NANKO  
南科

迈 犇

# 坚果仁

Nut kernel

草本 奶味

Herbaceous Milk flavor

草本提取物是植物浓缩精华，与多种甜味剂科学组合，协同作用，拥有独特的香甜，坚果营养丰富，天然的保健品，三者巧妙融合，无法抗拒。源于自然，精于工夫，“养”取天然之坚果，“津”取天地之草本，南科草本系列产品，坚果高端品质的保证。

Herbal extraction is a concentrated essence of plant aromatic substances. It works in synergy with a variety of sweeteners and has a unique natural sweet taste. Nuts are rich in nutrients and are natural health products. The three of them are cleverly combined and irresistible. Originating from nature, improving from hard work. Nourishment from natural nuts while flavour from herbs. Nanko Herbal series of products, guaranteeing the high-end quality of nuts.

草本甜味剂系列

Herbal sweetener series

草本调味料系列

Herbal sauces series

抗氧化护色系列

Autoxidation and color-protection series

技术支持 Technical support

中国农大功能食品与果蔬加工新技术研究室  
New Technology Research Office of functional food and fruit and vegetable processing, China Agricultural University  
南昌大学食品学院  
School of food science, Nanchang University

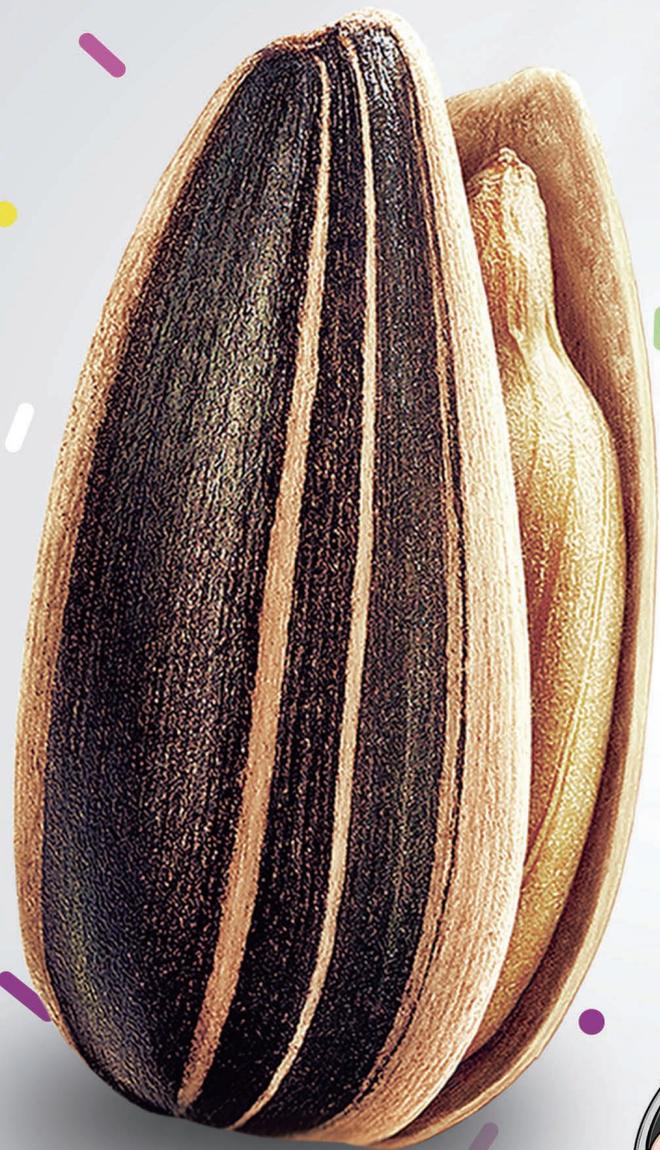


中国坚果炒货协会  
理事单位



MULTIPLE FLAVORS  
YOU MAY NOT KNOW  
THE TONGUE WILL FALL IN LOVE

# SHATU FOOD SHATU MELON SEEDS



SHANDONG SHATU FOOD INDUSTRY CO., LTD. WAS  
FOUNDED ON AUGUST 8, 1988. IT IS A JOINT-STOCK  
PRIVATE ENTERPRISE. IT IS A SPECIALIZED ENTERPRISE  
THAT PRODUCES, PROCESSES AND SELLS ROASTED  
FOOD. THE COMPANY IS LOCATED IN HEZECITY,  
SHANDONG PROVINCE, THE BEAUTIFUL HOMETOWN  
OF PEONY. THE HEAD OFFICE COVERS AN AREA OF  
MORE THAN 300 MU, WITH FIXED ASSETS OF MORE  
THAN 100 MILLION YUAN AND TOTAL ASSETS OF 1  
BILLION YUAN.

TO MEET SHUATU FOOD AND NEVER FORGET WHEN  
YOU ARE EATING IT. SANDY SOIL FOOD WILL GO  
ADHERE TO THE IDEA OF DOING WELL IN PRODUCTS  
AND SERVICES, NEVER FORGET TO START ITS MISSION  
TO CLIMB TO THE TOP LEVEL ON QUALITY.



## STIR FRIED NUTS



Manufacturer: Shandong Shatu Food Industry Co., Ltd  
Address: Jiamei Road, Shatu Town, Mudan District, Heze City, China  
Tel: 0530-5771168 Fax: 0530-5776118  
Website: [www.shatufood.com](http://www.shatufood.com)





# NINGJINXIAN TIANHUA MESH BELT MACHINERY CO., LTD



Natural wind multi-layer air drying assembly line



Hot air multilayer drying line



Multilayer natural cooler



Multi layer fan cooler



Chain plate multilayer dryer



Flavor machine



Drawer chain conveyor



White PVC with skirt elevator

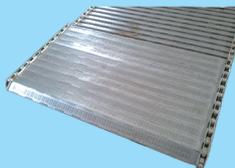


Stainless steel three-layer chain plate air drying cooling line

## ACCESSORIES AREA



Dryer chain plate



Chain plate (HOLE 0.9x20)



Sprocket wheel



Chain plate (HOLE 3mm)



Chain plate (HOLE 8mm)



Chain

ADD: Daqi Industry Zone, Changjiang Road West, Ningjin, Shandong, China

Hunting Line: +86-534-5533388 Fax: +86-534-5533777

China Free Service And Sales Line: 400-6703677

Foreign Trade Department: +86-13465188444 (Mr. Cao)  
+86-18853431444 (Mr. Shi)

Website: [www.tianhuagy.com](http://www.tianhuagy.com)  
[www.tianhuajixie.com](http://www.tianhuajixie.com)

E-mail: [thgy@tianhuagy.com](mailto:thgy@tianhuagy.com)



To be a century old enterprise and build an international brand

Consumer satisfaction unit of Shandong Province  
Executive director unit of Dezhou Private Enterprise Association



**Micro-pressure cooker**  
To save energy, Steam can be centrally treated, PLC integrated control, Suitable for cooking sunflower seeds.



**Natural gas three-layer dryer**  
(heat source optional: heat conducting oil, steam)  
Apply for: sunflower seeds, large and medium-sized watermelon seeds, red slices, pistachios, cashews, almonds, walnuts and other nuts drying  
24H capacity: 10T, 15T, 20T, 25T  
Advantages: environmental protection, low energy consumption, automation, simple operation



**Large gas wok**  
(heat source optional: diesel, heat conduction)  
Suitable for: sunflower seeds, watermelon seeds, pumpkin seeds, beans, peanuts and other Fried



The single-layer direct-fired natural gas drying line is our newly developed and successfully put into use equipment, the performance is comparable to the traditional thermal oil, is a new generation of milestone jiantai food drying equipment

The company web site: [www.hfkesai.com](http://www.hfkesai.com)    [www.kesaijixie.cn](http://www.kesaijixie.cn)

The phone: 13956003685    Telephone and fax: 0551-63523130    68891687

COMPANY: HEFEI THE PROSPEROUS NUTS MACHINERY MANUFACTURING CO.,LTD

Address: nanfang road, shangpai area, feixi jingkai district, hefei city, anhui province



Yantai Maoyuan Food Machinery Manufacturing Co., Ltd. established in 1995, is a professional food machinery manufacturer, we are specialized in the machinery of peanut, other nuts, roasted seed.

### Coated Nut Processing Line



### Coated Nuts Roasting Line



### Net Belt Continuous Frying Production Line



### Nut Roasting Production Line



Yantai Maoyuan Food Machinery Manufacturing Co., Ltd.

Tel: 0086-535-6117136 Web: [www.peanutmachinery.com](http://www.peanutmachinery.com) E-mail: [mypsjx@163.com](mailto:mypsjx@163.com)



# 安徽省恒康机械制造有限公司

ANHUI HENGKANG MACHINERY MANUFACTURE CO.,LTD

中国食品工业协会坚果炒货专业委员会常务理事单位  
Executive director unit of the Specialized Committee for Nuts and Roasted Seeds of  
China National Food Industry Association

**DXDM型系列折边袋制袋包装机**  
DXDM TYPE AUTOMATIC VERTICAL PACKING MACHINE



**HKC型系列半自动称量机组**  
HKC-II SEMI-AUTOMATIC WEIGHING MACHINE



**HKD-II型水平给袋式自动包装机**  
HKD-II TYPE AUTOMATIC HORIZONTAL PACKING MACHINE



## CUSTOMERS:

- QIAQIA FOOD CO.,LTD
- DAHAODA FOOD CO.,LTD
- HAOXIANGNI JUJUBE CO.,LTD.
- ANHUI YANZHIFANG FOOD CO.,LTD
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- SHANDONG XIANGSHAN FOOD CO.,LTD

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ADDRESS: NEW AND HIGH TECHNOLOGY DEVELOPMENT ZONE, HEFEI, ANHUI, CHINA

E-MAIL: koyo@koyopack.com

Website: http://www.koyopack.com

TEL: +86-551-65321111 65325555 65329999

FAX: +86-551-65322158 65329999

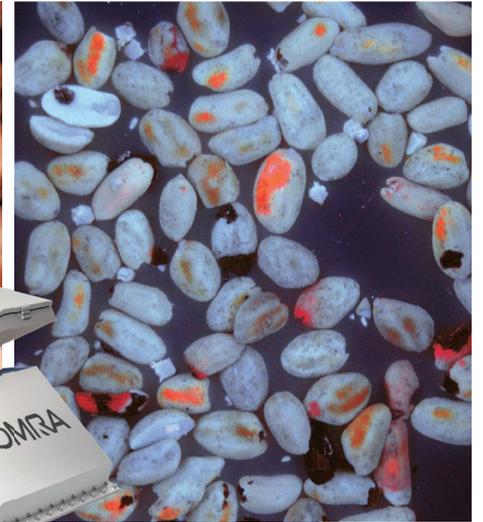


# SUNFLOWER SEEDS



Sunshine .  
Taste





# NIMBUS BSI+, INCREASED QUALITY IN FOOD SORTING

Nimbus BSI+ is an advanced optical sorting solution combining various sorting technologies for the nut industry. The unique BSI technology detects objects by biometric characteristics and the Detox technology offers aflatoxin detection for nuts. TOMRA Food understands what it means to maximize your return on investment.

For more than 40 years, TOMRA Food designs and manufactures sensor-based sorting machines and integrated post-harvest solutions for the food industry, using the world's most advanced grading, sorting, peeling and analytical technology.

创新无止境 · 术业有专攻  
There is no limit to innovation



# 传统工艺的守护者

Guardian of traditional crafts

XINGTAI TIANYUANXING FOOD EQUIPMENT CO., LTD



## WALNUT PRODUCTION LINE

**Truss walnut production line is the exclusive invention of tianyuanxing.**

**Achieve minimum drop from cleaning to opening.**

**Bottom discharging is adopted for green and baking.**

**The design of submersible flavor and rotary drainage is only to minimize the damage rate.**

### SERIES PRODUCTS CAN BE PROCESSED

Sunflower seed, gourd seed, pumpkin seed, watermelon seed, peanut, peanut, broad bean, pea, black bean, soybean, chickpea, black sesame, white sesame, red pepper, cucumber seed, walnut, bigengguo, padanmu, xiaweigu, pistachio, cashew nut and other nuts.

#### PEELING SERIES COOKING SERIES

Truss  
Feeding of cooking chain plate

#### PEELING SERIES

Walnut production line  
R70-C type

#### DRYING SERIES

Honeycomb drying line luxury version  
Honeycomb drying line ordinary version  
Multistage drying line

#### FRIED MACHINE SERIES

Fried machine 600  
Original peanut frying machine  
Tianyuanxing bean frying machine

Service hotline: 400-0319-806

Sales Hotline: 188-3343-6907 188-3343-9573 188-3343-2330

Address: 318 Niuweihe street, Renze Economic Development Zone, Xingtai City



TIANYUAN STAR



FOOD EQUIPMENT