

CHINA NUTS AND ROASTED SEEDS INDUSTRY

PHASE IV 2021 TOTAL EIGHTY-SIXTH ISSUE

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for roasted seeds and nuts**

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APPLICATION: DRYING SUNFLOWER SEEDS, WATERMELON SEEDS, PEANUTS, PUMPKIN SEEDS, CORN, WALNUTS, APRICOT KERNELS, MACADAMIA NUTS, PISTACHIOS, DAILY NUTS AND OTHER NUTS, FOOD, GRAIN, POTATO CHIPS ETC.

PRODUCTION UP 40%



THE CIRCULATING HOT AIR IS BLOW IN RIGHT LEFT UP DOWN. PARTITION TEMPERATURE, MULTI-PURPOSE DRYING.

DIRECT-FIRED DOUBLE-SIDED HOT AIR CIRCULATION MESH BELT DRYER

APPLICATION : DRYING OF SUNFLOWER SEEDS, WATERMELON SEEDS, PEANUTS, PUMPKIN SEEDS, PECANS, ALMONDS, DAILY NUTS AND OTHER NUTS, FOOD, GRAIN, POTATO CHIPS AND OTHER MATERIALS.

PRODUCTION UP 30%

ENERGY CONSUMPTION DOWN 40%



INTERMITTENT HOT AIR CIRCULATION DRYER

APPLICATION : DRYING SUNFLOWER SEEDS, WATERMELON SEEDS, PEANUT, PUMPKIN SEEDS, WALNUTS, FLAT WALNUTS, PECANS, MACADAMIA NUTS, DAILY NUTS ETC.

HOT AIR RECYCLING, SAVING ENERGY AND REDUCING CONSUMPTION

ENERGY CONSUMPTION DOWN 30%

MOISTURE EMISSION OUTDOORS EFFECTIVELY IMPROVE PRODUCTION ENVIRONMENT



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APPLICATION : ROASTING ORIGINALLY SUNFLOWER SEEDS, WATERMELON SEEDS, SHELLED PEANUTS, PEANUTS KERNELS, TRICHOSANTHES SEEDS, PUMPKIN SEEDS, HANGING MELON SEEDS, BEANS, GREEN BEANS, WALNUTS (KERNELS), CASHEW NUTS, ALMONDS ETC.

PRODUCTION UP 15%~20%

ENERGY CONSUMPTION DOWN 20%



PEELED SUNFLOWER SEEDS PRODUCTION LINE

APPLICATION : ROASTING PEELED SUNFLOWER SEEDS, PUMPKIN SEEDS, BOILED WATERMELON SEEDS, APRICOT KERNELS, PEANUTS, RICE, BARLEY, INDICA RICE, SESAME ETC TO BE ROASTED FOR A LONG TIME.



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每一袋含4种坚果+3种果干

1日装

净含量26克

每一袋含4种坚果+3种果干



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.

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www.chinanutexpo.com

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A HANDFUL OF NUTS AND ROASTED SEEDS
 A DAY IS GOOD FOR YOUR HEALTH

BRANDS

Thank you to the following CO organizers



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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. 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)

Category B: Enterprise Special Service: Carry out the special popularization (including pictures, interviews, popularization reports, etc.) in the specific consideration of the needs of the enterprise. Consult the staff of the Association for the specific details.

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)

Cover II: RMB 28,000 yuan/year (5000 yuan/issue); and Cover III: RMB 28,000 yuan/year (5000 yuan/issue)

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

Full Page Position of Copyright: RMB 25,000 Yuan/Year (4500 Yuan/Issue)

2. Rights and Interests in Consulting Services

All the aforesaid three categories may enjoy the following services: 1. Free 3 copies of magazines each issue throughout the year; 2. One page (A4) published in each issue throughout the year to popularize the colorful pages of the enterprises or products, or to popularize the latest scientific research achievements of the enterprise (raw material planting, nutrition, technology, equipment, additives, etc.) and the soft-text promotion of new products. 3. Other consulting services provided, such as the industrial standards, policies and regulations.

3. Production Requirements

Front Cover Size: 210*206mm (to set aside a reading guidance position);

Cover II/Cover III/Back cover/Inner page size: 210*285mm; precision requirements for four covers and inner pages: 300DPI; format requirements: JPG, PSD, TIF, EPS, AI; Leave 3mm around each to extend or expand.

II. Information Consulting Service for the English Electronic Magazine

1. Consulting Service Price

Category A: RMB 10,000/Page/Year for Single Page (6 Issues of Internal Pages + 1 Issue of the Journal) (2000 Yuan/Issue)

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

Category B: Enterprise Special Service: Carry out the special popularization (including pictures, interviews, popularization reports, etc.) in the specific consideration of the needs of the enterprise. Consult the staff of the Association for the specific details.

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

Front Cover: RMB 20000 yuan/year (no single issue); Back Cover: RMB 15000 yuan/year (3000 yuan/issue)

Cover II: RMB 10000 yuan/year (2000 yuan/issue); and Cover III: RMB 10000 yuan/year (2000 yuan/issue)

Full Page Position of English Contents: RMB 12000 yuan/year (2500 yuan/issue)

Full Page Position of Copyright: RMB 12000 Yuan/Year (2500 Yuan/Issue)

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KIDS SNACK MARKET BOOSTS

Labeling Health On
Products



As the segmented market of four vertical fields in infants and maternal market, children's food is praised by multiple parties increasingly, and the market scale is expanding. Qiu Yue, person in charge of Tmall snack food industry pointed out that the market capacity of children's food is over RMB600 billion, in which, the healthy snack demand is nearly RMB100 billion.

It's worth noting that compared with traditional candies, cookies and puffed food, the children's snack market not only more fits for kids in shapes and tastes, but also shows obvious nutritious functions and IP characteristics; while the new "diary snacks for children" and "organic snacks for children" in market are trusted by parents gradually.

Energize industrial increment with new products

Children's snacks started explosive growth from the middle of last year. Numerous enterprises swarmed into the market.

On June 19, "Xiaolu Lanlan", the subsidiary brand of Three Squirrels was put into operation officially, and launched about 50 SKU products to children's snacks market.

Be&Cherry also launched new products last year. The "Liffle Friend Tong An'an" 1.0 series aim to offer beneficiary supplementation to kids except meals. The products, by adding beneficiary nutrient elements and/or reducing oil, salt and sugar additives, are more suitable for children in nutrition value and added value.

Three Squirrels pointed out in annual report that Xiaolu Lanlan realized revenue of RMB 54.9493 million in 2020. According to 2020 annual performance report of Bestore, its subsidiary brand Xiao Shi Xian specialized in children's snacks

realized sales volume of RMB 295 million in the entire channel in 2020, accounting for 3.73% of total business revenue RMB7.894 billion. In Q1 of 2021, the sales volume of Bestore at children's snacks terminal exceeded RMB80 million, increasing 60% on year-on-year basis.

Rigid demands are obvious, and enterprises still need to develop

Insiders believe the market of children's snacks has vast growth space.

Current scale of children's food in online channel is relatively small, and the growing trend is obvious faster than overall market. According to 2020 Trend Insight of Online Children's Food Industry jointly released by Tmall Snacks and Alimama, the growth rate of sales volume of children's snacks is as triple times as that of overall market.

As the price is higher, consumers put forward requirements for product function promotion of children's snacks. That is way some children's snacks in market starts attracting consumers with highlights of high nutrition, zero additive and organic food, and tries to labeling "healthy" to their products.

Children's food market has rigid consumption demands, while the normalization, profession, brand-oriented and large scale development of the industry is improved gradually. However, Lai Yang, the Deputy General Manager of Beijing Association of Commercial Economics, believed domestic children's snacks enterprises still imitate each other, and develop their brands by following the trend, bringing loopholes for development. Zhu Danpeng said "the brand tone of domestic snacks enterprises still needs to be developed, and brand precipitation and accumulation is the key to win the future." 

CHANGE OR NOT

THE CHOICE OF PROFESSIONAL RETAILING INDUSTRY



Deep Changes Brought by 2020 COVID19 TO Chinese Retailing Market

1. The farther from consumers, the stronger the brand competitiveness will be! Be near from users, and layout near and medium business

We do not run a shop but run a business. Shops consider transactions, but the essence of shops is retailing, or business. In other words, the decisive power of retailing is the accessibility of users. The closer from users is, the more competitiveness of enterprises will be.

2. Rebuild “person-good-field” retailing, and speed up boundless retailing centering at user demands

“Person”: from consumers to members, and to public-praise

promoters;

“Goods”: services and experience;

“Fields”: instead of physical fields, create digital and wide-range field.

Four-new abilities enable progress of retailing industry

1. New mode of retailing: new business modes of customized retailing and “social community e-commerce- cluster e-commerce-commuity e-commerce”, create experience according to different user demands, and bulild free brands.

2. Rebuild new brand: the new generation retailing leaders shall pay attention to brand development and business logic matching, for instance, multiple times of brand image

INDUSTRY CHAIN PRODUCT

upgrading of Tmall and JD.

3. New combination of varieties: the basic-root logic is from changes of users. Before that, retailers need clarified and distinct orientation, and recombine orienting at people. For instance, Z-generation concerns emerging varieties, and fashionable brands and objects are more economical and fitable for users; for the new middle-class, variety upgrading is a good choice due to emphasis on family consumption and life quality; for the new aged generation, industrial

stimulation, and innovation in business mode and services are required. Different user groups have various demands for products.

4. ALL IN New Marketing is a revolution of efficiency and instruments. Enterprises are required to create whole-customers, whole-time, whole-field and whole-people marketing, and learn to catch data flow from public domain and import to private domain; motivate users in private domains, add user stickiness, and conclude sales natrually. 创新



Anysort Selects the Future based on Quality - World-leading Technology Innovation lightens the future

As the color-based selection is out of date, the age of quality-based selection is coming.

Diversified integration, intelligent selection



With the bionic eagle-eye four-color recognition technology, cloud image stop-speed smart picking, mass calculation technology, diversified image-fusion analysis technology, the Company realized recognition of materials with tiny color difference or tiny heterochrom through intelligent selection, and perfectly realized ultra-accurate classification and ultra-low



High-dimensional, holographic and intelligent shape selection



The high-dimensional, stereoscopic and holographic technology could senses shape characteristics of materials, and recognize smartly subtle shape difference. It opens the new horizon of intelligence, and starts the new age of shape selection.

Scan foreign matters internally and externally

We have high-dimensional and stereoscopic substance finger-print sensing technology, high-dimensional and holographic character fingerprint acquisition and analysis, accurate recognition and scanning endogenous and exogenous Class I, II and III foreign matters in materials, and realize extraordinary quality sorting and selection on technology.



Non-invasive sorting prevents from crushing or damage

The whole-process, comprehensive, and all-element non-invasive protection, intelligent perception technology and targeted guiding sorting could protect vulnerable and fragile materials, and improve one-time yield.



Intelligent perception, protecting high sorting yield



Smart same-chroma perception function could accurately recognize tiny difference of materials with the same chroma, protect the color for sorting.

Three strips, or large white edge



Rusty grains



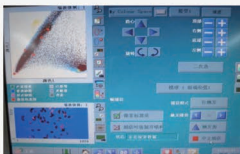
Small cracked skin



One-key intelligence, free grade control

Globally initiated **one-key cloud**

intelligence technology could intelligently recognize, analyze and compute impurities of materials and smartly regulate operating data so as to realize 100% random control instead of complex operation.

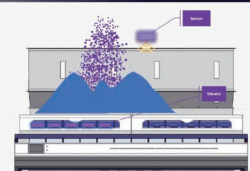


At present, most enterprises in the same industry in market adopt photo-based sorting, which has complex setting and changeable materials. The requirement for people's control is high. The equipment can be run under the mode of "30%-machine and 70%-operator".

Production line follow-up, and flexible feeding

Production line follow-up

According to real-time feeding situations of processing line, the machine automatically detects yield, and correct output setting parameters of the sorter.



Flexible feeding 2.0

It could regulate rapidly and balance vibration parameters of each unit and feeding consistency to avoid concentrated vibrating feeding of the unit.

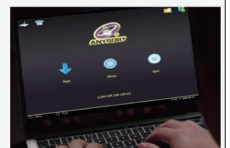
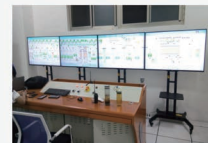
Smart spray valve, intelligent detection

Smart suitable regulation in cooperation with multi-dimensional image fusion positioning and analysis technology could intelligently realize accurate control of the removed materials through the mode of **one-to-one, one-to-many, many-to-one, many-to-many**; the carryover is ultra low, and gas consumption is ultra low. **Smartly detecting and warning spray valve operating frequency and failure status**, the spray valve operation life and status are both under control.



Spray valve detecting module system

Cloud intelligent control, unmanned operation





内容 CONTENT

- 1 Consumer demand upgrading of nuts and roasted seeds products
- 2 Know the natural food ingredient --- YE
- 3 YE helps nuts and roasted seeds upgrading



发展生物科技 创新健康生活
Focus on Yeast Biotechnology Innovate for Healthy Life



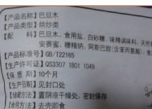
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Focus on Yeast Biotechnology Innovate for Healthy Life

1 Consumer demand upgrading of nuts and roasted seeds products



In recent years, as flavors and new tastes of nuts and roasted seeds are more, consumers have more choices.

Except fragrance characteristics, taste is an important factor to judge flavor of nuts and roasted seeds
Sweetening agent matching --- salty-sweet cooperation
Overall taste coordination --- restricting bitterness of original nuts
More natural freshness --- richer aftertaste



Yeast extract helps nuts and roasted seeds meet higher expectations of consumers: nature, nutrition, healthiness, flavor



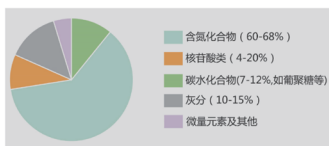
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2 Know the natural food ingredient --- YE

1. Main components of YE

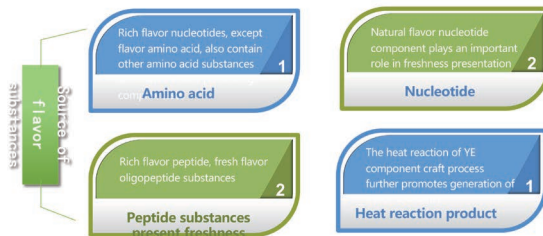


YE is rich in multi-amino acids, polypeptide, flavor nucleotides, Vitamin B, and free from cholesterol and saturated fatty acid.



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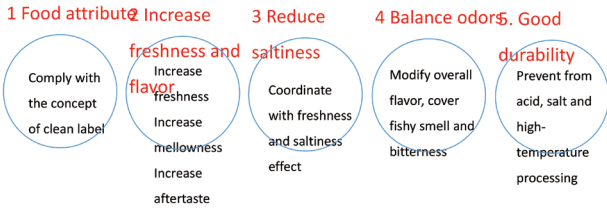
2. Source of YE flavor substances



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INDUSTRY CHAIN ACCESSORIES

3. Five characteristics of YE



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3 YE helps nuts and roasted seeds upgrading

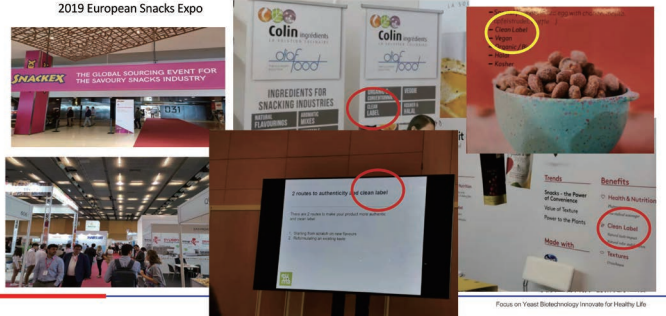
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Fast Biotechnology Innovate for Healthy Life

- Clean label--- more popular idea upgrading

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Develop Biotechnology Innovate for Healthy Life

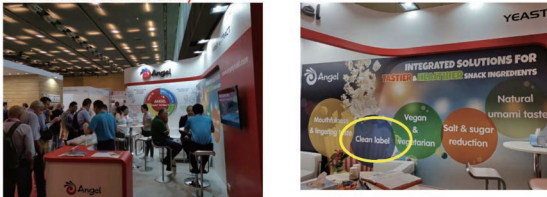
- Clean label--- snack food (including nuts and roasted seeds)

2019 European Snacks Expo



Focus on Yeast Biotechnology Innovate for Healthy Life

- Clean label--- snack food (including nuts and roasted seeds)



YE is highly recognized in European and American market, and universally applied to replacing freshener such as MSG, playing the role of clean label

发展生物科技 创新健康生活
Develop Biotechnology Innovate for Healthy Life

- Clean label--- Cases of YE application



Clean label is not only for original taste but upgrading of seasoning technology.

As high-end snack food, nuts have endorsement effect of nature and health for consumers, and need more natural freshening raw ingredients.

发展生物科技 创新健康生活
Fast Biotechnology Innovate for Healthy Life

1. YE has been gradually used in nuts and roasted seeds



发展生物科技 创新健康生活
Fast Biotechnology Innovate for Healthy Life



The *Different* Peanuts



Search Good
SEARCH

[Search for good things with heart]

Good things can be acquired with heart. Crossing mountains, rivers and fields along thousands of miles, Search for the best things. We finally find the natural products in Yunnan, i.e., colorful wildland peanuts.



Cherish Good
CHERISH

[A good judge for best products]

There are plenty of good things in the world for people who cherish them. The colorful wildland peanuts are the time-honored variety of Dai nationality. We try to recover the optimal growth environment. To hold the essence of the good products.



Awe Good
AWES

[Follow the nature with the heart of awe]

Colorful Wildland believes, nature is the best creator, and cultivates all things. We insist on pure natural cultivation and make the plant in subtropical valley and mountainous area cultivate with rich red sand soil, to harvest the really good food.



Produce Good
PRODUCE

[Produce goods things with original intention]

From 50mu, 500mu, 5000mu to 50000mu, and from Dai people to people all around the world, Colorful Wildland cooperates with experts from all universities and institutions to optimize and pilot; Through concentrated studies for years, we work hard and make steady progress to produce best products.

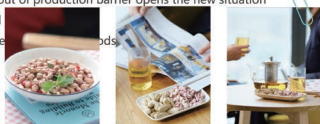


Carry forward Good
CARRY FORWARD

[Carry forward goods things through layout in the entire industrial chain]

[Share good products with more people]

Colorful Wildland believes the good products must be sustainable, and it has built a standard whole-industry chain for colorful wildland peanuts. With whole-process strict control of seed source, base, harvest, cleaning, processing, warehousing, logistics, sales, after-sales, brand and marketing, we boost marketing, brand-oriented and industrialized products development. Colorful Wildland believes one should not enjoy good products alone but share with people. The breakout of production barrier opens the new situation of Colorful Wildland. Make more products.



Distinctive

Colorful wildland peanuts have purple-striae skin due to anthocyanin. The peanuts have various nutrient elements such as amino acid, protein, dietary fiber, calcium, iron, zinc and selenium. They are more nutritious than common peanuts. We insist on natural drying in the sun free from stoving, and follow natural growth, zero-pollution and zero-additive processing. Offer sweet and fine taste to Colorful Wildland peanuts.



Colorful wildland peanuts, naturally sweet

含植物蛋白
Vegetable proteins

含膳食纤维
Dietary fiber

含花青素
Anthocyanin

甜润生津
Sweetness

The shell pattern is distinct, and the nut skin is purple-striae due to anthocyanin.



Seed source with Dai characteristics in Yunnan

- The variety was found in Menglian the earliest which is an old variety that locals planted for generations;
- Highly praised by Dai royalty, the variety was once protected by Dai Palace.
- Combining industry, universities and research institutions, we enlarged plantation area and realized industrialization.

The self-built base provides fresh products directly

- Standard management of the self-built base guarantees stable and controllable quality;
- Establish strict supervision mechanism by regularly applying whole-process professional training about plantation;
- Strictly select seed source, purify and cultivate seeds in combination with modernized agricultural technology to ceaselessly optimize seed sources;
- Guarantee complete growth period and natural growth;
- Direct supply of fresh product from the base could reduce loss in peanut nutrition and taste.

Strict control of entire industrial chain quality

- Integrate seedling, plantation, R&D, processing and sales, and entire process is controllable;
- Carry out product classification according to standard product control process in the entire industrial chain including standard plantation, harvest, acceptance selection, processing, production and delivery.

Plant in subtropical zone

- The variety of colorful wildland peanut is special and more suitable to plant in subtropical zone;
- The subtropical zone has sufficient heat and precipitation, complete natural ecology, and no pollution.

Recover natural sweetness with natural method

- Clean sand, soil and impurities with clean water;
- Insist on natural drying in the sun free from stoving;
- Follow natural, zero-pollution and zero-additive processing




Product introduction

PRODUCT

Yunnan Daiyu Agriculture Technology Co., Ltd. now has sufficient and stable raw material source of colorful wildland peanuts, including fresh peanuts, dried shelled peanuts, roasted peanuts and peanut kernels for catering.



Colorful wildland peanuts- raw materials



Fresh

Rapid delivery of fresh products directly from the base
Better taste and richer nutrition



Sun dried

High-quality fresh peanuts dried in the sun
Keep original taste after careful selection



Peanut

Supplier of boutique supermarket and well-known chain catering brands



Roasted

Fragrant but not dried after being roasted in gentle heat
Crispy and delicious, good as snacks

Current Status and Development Orientation of China Macadamia Seeds Industry

Guangxi Association of Nuts
Guangxi South Subtropical Agricultural Science
Research Institute



INDUSTRY CHAIN **PLANT**


Report

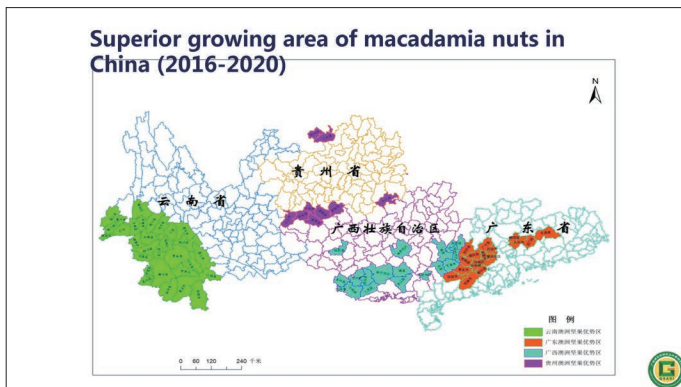
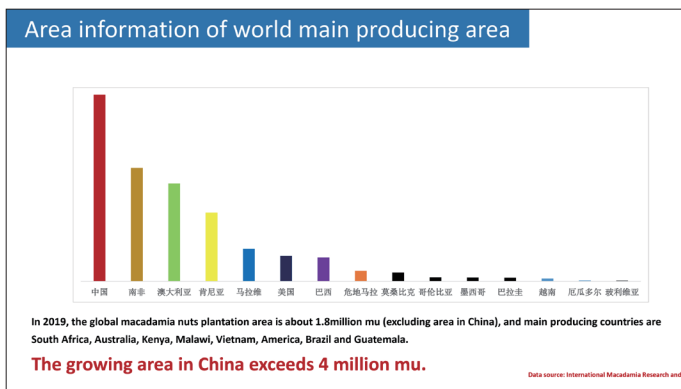
I. Background

II. Development Status of China Macadamia Growers-Industry

III. Problems of China Macadamia Seeds Industry

IV. Development Orientation of China Macadamia Seed Industry





II. Development Status of China Macadamia Growers Industry


Introduction and development process of macadamia nuts

- Introduce to Taipei Botanical Garden as specimen in 1910;
- Introduce from Hawaii to Guangzhou by former Lingnan University in 1940;
- Introduce 9 varieties from Australia to Guangdong and Guangxi in 1979;
- Introduce from Guangdong to Yunnan in 1981;
- Introduce 4 and 10 varieties from Hawaii and Australia in 1988 and 1992 respectively;
- Apply commercial plantation in Guangxi, Yunnan and Guangdong from 1990s, and start introducing overseas varieties in large amount;
- China started large-area promotion from 2009.




I. Background

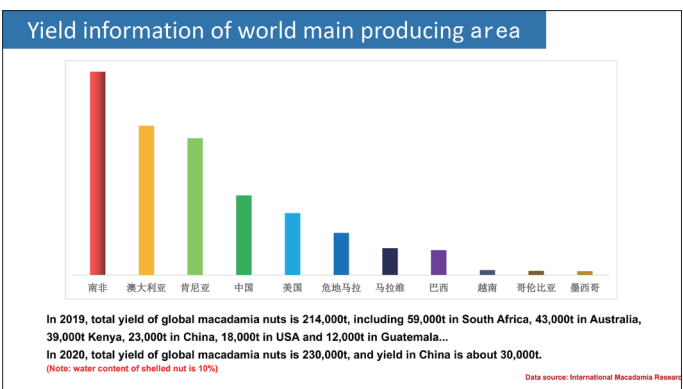
Macadamia integrifolia, macadamia nuts, belongs to Proteaceae, including about 60 categories and 1500 varieties, in which, macadamia nuts have 22 varieties. Most varieties are not edible due to small kernel, bitter taste and cyanohydrin glycosides content; there are only two varieties for commercial cultivation (smooth shell and coarse shell). For rich nutrition, macadamia nuts are known as "Queen of Dry Fruits". At present, the plantation area of macadamia nuts in China reaches 4 million mu.



Macadamia nuts are known as "Queen of Dry Fruits"

No.	Name	No.	Name
1	<i>Macadamia affinis</i> Capuron	12	<i>M. laevis</i> F. M. Bailey
2	<i>M. angustifolia</i> Viret	13	<i>M. minor</i> F. M. Bailey
3	<i>M. clausenensis</i> C. L. Gross & B. H. Han	14	<i>M. nana</i> (Gaill.) Viret
4	<i>M. coccinea</i> J. A. McDonald & J. A. McDonald	15	<i>M. parvifolia</i> (F. M. Bailey) F. M. Bailey
5	<i>M. francii</i> (Gaill.) Steiner	16	<i>M. ramosa</i> (Viret) Steiner
6	<i>M. grandis</i> C. L. Gross & B. H. Han	17	<i>M. tereticaulis</i> F. M. Bailey
7	<i>M. hecotea</i> (Bailey) Steiner	18	<i>M. tetraepala</i> L. A. S. Johnson
8	<i>M. hillebrandii</i> Steiner	19	<i>M. verticillata</i> F. M. Bailey ex Benth
9	<i>M. integrifolia</i> Steiner & Benth	20	<i>M. virens</i> (Thunberg & Guss.) Steiner
10	<i>M. jensenii</i> C. L. Gross & F. H. Weston	21	<i>M. whelanii</i> (F. M. Bailey) F. M. Bailey
11	<i>M. leptophylla</i> (Gaill.) Viret	22	<i>M. yunnanensis</i> (F. M. Bailey) Benth

Directory of World Macadamia Genus



Main varieties cultivated and planted in various countries

At present, there are over 540 macadamia nuts varieties cultivated by all countries. Main countries and regions are USA (from 1934), Australia (from 1948), South Africa, Kenya, New Zealand and China. Most varieties are from Hawaii ones.



344

Main varieties in USA

344, 246, 333, 660, 508, 788, 741, 294, 816, 790, 800, 900



A16

Main varieties in Australia

A16, OC, A4, A38, H2, A203, 246, 741, 344



桂一

Main varieties in China

344, OC, A16, 246, 741, 788, 508, 660, Guire No.1, South Asia No.3



695

Main varieties in South Africa

695, 344, 793, 788, H2



H2


Varities in other countries

Hall, Kambuz, Yonik, GT1


Variety breeding process of macadamia nuts in China

Breeding experiments are carried out in three stages:


- (1) Select and carry out regional experiments on varieties introduced overseas from 1987 to 2004;
- (2) Carry out seedling selection, cross breeding, chemical mutagenesis and radiation breeding from 2005;



Chemical mutagenesis



Physical mutagenesis



Cross mutagenesis

Some photos are from Yunnan

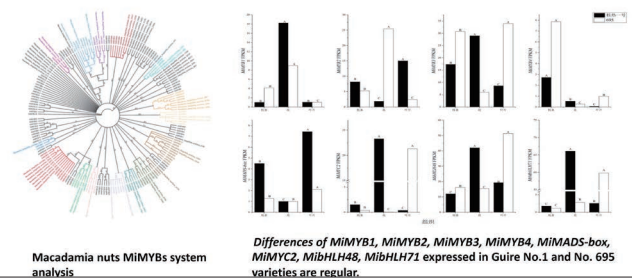
Germplasm resources collection and new germplasm cultivation

China has collected and saved over 300 macadamia nut germplasm resources, cultivated more than 100 peculiar seeds through cross breeding, radiation mutagenesis and chemical mutagenesis, and formulated relevant industrial standards, laying the foundation for macadamia nuts breeding.



Dig up outstanding genes

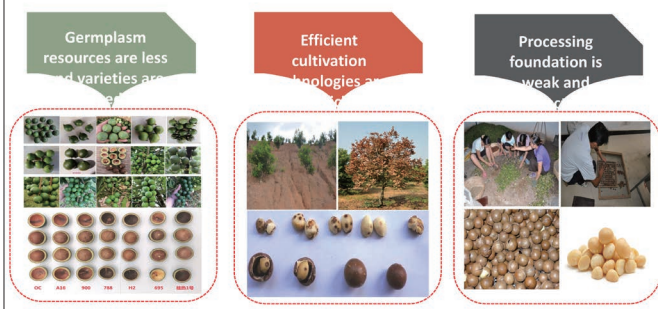
Blossom, fruit setting and drought, molecular mechanism research formed by macadamia nuts quality and drought resistance performance is expanded.



Macadamia nuts MIMYBs system analysis

Differences of MIMYB1, MIMYB2, MIMYB3, MIMYB4, MIMADS-box, MIMYC2, MibHLH48, MibHLH71 expressed in Guire No.1 and No. 695 varieties are regular.

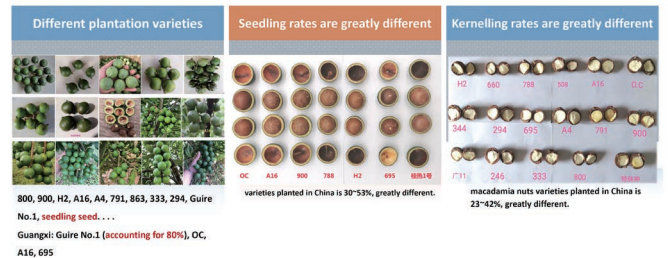
III. Development Problems of China Macadamia Growers Industry



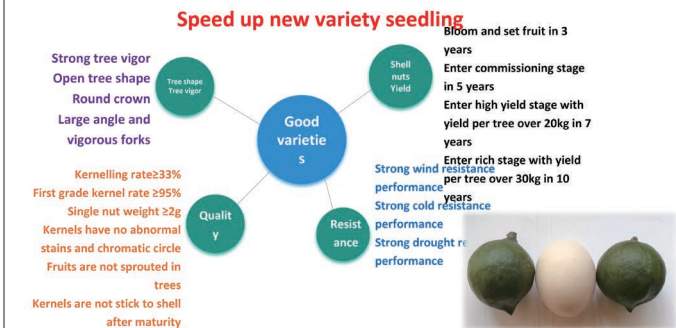
Less germplasm resources, late and long seedling time

China introduced nearly 100 varieties from foreign countries, which were putting to market directly without pilot, including large amount of seedling.

No high yield and good quality in large area!



IV. Development Orientation of China Macadamia Growing Industry



Seedling industry problems and suggestions

- | Problems | Suggestions |
|---|---|
| <ul style="list-style-type: none"> ● Lack long-term steady scientific fund support ● Lack specific germplasm resources ● Large field test of varieties is difficult ● Variety right protection system is not perfect ● Lack recognition of important character genetic development rules | <ul style="list-style-type: none"> ● Enlarge fund input dominated by the government and supported by enterprises ● Germplasm innovation: establish germplasm resource exchange mechanism ● Encourage scientific research institutions and enterprises to actively participate in variety test ● Formulate DUS guideline: perfect variety right protection system ● Pay attention to study on important character genetic development rules |
- Objective: to realize localization of international nuts!**

Ukraine Sunflower Seed Oil Export Is Expected to Reduce in 2020/21

Data of Ukraine Ministry of Economy shows the sunflower seed oil export of Ukraine in the remaining months (from September to next August) of 2020/21 season may slump.

According to the data, as the major sunflower seed exporter in the world, Ukraine may export 1.575 million ton sunflower seed oil from May to August. The number in the same period of the previous year is 2.149 million ton.

The month with the largest amount of reduction is May; the export volume may drop to 400,000t, lower than 639,000t in the same period of the previous year.



Coarse Cashew Import of Vietnam Increases 300% YoY in the First Four Months of 2021



Data of Statistics Bureau shows in the first four months of 2021 the import amount and value of coarse cashew nuts in Vietnam respectively reached 1.2 million ton and USD1.9 billion, increasing 300% and 323.5% respectively.

According to current import speed, the import amount of coarse cashew in Vietnam in 2021 may be higher than the 1.8 million ton predicted by Vietnam Cashew Nuts Association.

Cambodia is the largest coarse cashew supply market of Vietnam, accounting to 60% of total import amount of the country. In the first four months, the coarse cashew nut import amount of Vietnam from African markets such as Tanzania, the Ivory Coast, Ghana, and Nigeria.

Russian Experts Commented on Influence of Soybean Export Tariff Adjustment

According to the draft of government decree formulated by Economic Development Department of Russia, the export tax rate of Russian soybeans from July 1, 2021 to Aug.21, 2022 will be reduced from 30% and no less than 165Euro/t at present to 20% and no less than USD100/t. The Department explained that the soybean yield of Russia is unable to fully meet domestic market demand. The new measure will “prevent rise of food consumption price” and “keep domestic market balance of oilseeds and processed products”.

Ilyichev, the Vice Minister, said the new tariff measures considered opinions of soybean manufacturers in far east area, which help keep soybean export ability in that area.



Zambia Corn Yield Is Expected to Increase 7%

Micheal Katambo, the Minister of Zambia Department of Agriculture said the corn yield of 2020/2021 sales season will be increased to 362.02 metric ton from 338.75 metric ton in the previous season, increasing 7%. The harvest attributes to subsidy of FISP implemented by the government, adequate precipitation and favorable agricultural operation mode. Katambo also said except corns, the soybean yield is expected to increase from 29.69 metric ton from the previous seas to 41.11 metric ton, increasing 38%. The soybean yield this year is the highest record of Zambia in the history.



Canada Plans to Revise MRL of Three Pesticides in Some Food

On May 13, 2021, Health Canada released No. PMRL2021-11, PMRL2021-12 and PMRL2021-13 Notices, PMRA plans to revise maximum residual limit of pendimethalin, Oxathiapiprolin and metalaxyl in some food. Specific revisions are as follows

Pesticide	Food	MRL to be revised (ppm)
<u>Pendimethalin</u>	Celery	0. 2
<u>Oxathiapiprolin</u>	Tree nuts (crops group 14-11)	0. 01
<u>Metalaxyl</u>	Tree nuts (crops group 14-11, except almonds, <u>Juglans nigra</u> and English walnut)	0. 5

It is known that the comment period of exposure draft is from May 13, 2021 to July 27, 2021.

US Pecans Export Increased 19% YoY

Recently, US Pecan Growers Association released the latest market report. Report shows pecans export from September 2020 to March 2021 increased 19% on year-on-year basis.

As of March this year, the pecan growers, shellers and agents in America have accumulatively exported 78.5 million pounds pecans, 14.8 million more than that in the previous year. In global market, the Asian market increased 41.33% on year-on-year basis. China is the country with the largest growth in Asian market. Demands from the Chinese market are the main driving force in Asian region. Export to Korea also increased because of local promoting activities of US Pecan Growers Association.

Pecan Exports					
	2020	2021			
	Sept-March	Sept-March		% Change	Qty Change
Africa	88,440	93,629		5.54%	5,189
Asia	22,369,856	38,130,577		41.33%	15,760,721
Australia / Oceanic	88,800	4,200		-2014.29%	-84,600
Europe	20,850,620	20,655,180		-0.95%	-195,440
Middle East	3,563,500	6,379,520		44.14%	2,816,020
North America	16,635,381	13,126,992		-26.73%	-3,508,389
South America	24,600	110,880		77.81%	86,280
Total Exports	63,621,197	78,500,978		18.95%	14,879,781

US pecans export situations from Sept.2020 to March, 2021

US pecans exported to the Middle East was improved, increasing 44% on year-on-year basis. As of March this year, exporters exported 6.3 million pounds pecans to the Middle East. The number in the same period of last year is 3.5 million pounds.

Currently, the shipment of pecans in the season is still optimistic. According to the latest report, the overall shipment of pecans in the season will increase 27%, export amount will increase 19%, and domestic pecans consumption in USA will increase 32%.

ROK Plans to Apply Zero Tariff to Imported Edible Corns from April 23

It is reported by Korean media on April 20 that the government passed “Amendment to Regulations on Tariff Quota (President Decree)” through voting on state affairs conference. The document regulates to reduce imported edible corns from 3% to 0% before the end of this year. The amendment will be applicable from the date of release (April 23, 2021 as expected) to import declarants, and regulates to finish zero-tariff import of 128t edible corns before the end of this year.



According to modern nutriology, chestnuts are rich in unsaturated fatty acid and mineral substance which have favorable effect on anti-aging and blocking chronic diseases. Based on diet experience in China for thousands of years, chestnuts have obvious dietary therapy for kidney, spleen and stomach. The raw chestnuts are particularly good for strong kidney and feet. The cold winter is the traditional time in China to tonify kidney, and chestnuts are one indispensable food. Some cuisines cooked with chestnuts are introduced below.

Braised Chinese cabbage with chestnuts

1. Cut the Chinese cabbage along the center into strips. Remove the shells of chestnuts and cut in halves.
2. Steam the Chinese cabbage, or boil it with hot water; then put to plate.
3. Pour oil and heat it, put minced scallion and ginger, put rice wine, and add light soy sauce, salt, soup-stock and sugar; put chestnuts and Chinese cabbage, and boil with low fire; add water starch, stir-fry and spray sesame oil before finishing the dish.

Chinese cabbage is popular among people due to the anti-cancer effect; the simple recipe with chestnuts could enhance immunity, tonify kidney and warm the stomach in the season of Slight Cold.

Chestnuts and Red Dates Porridge

1. Prepare chestnuts, red dates and rice.
2. Clean the rice and pour to earthenware pot; add proper clean water, boil with big fire and stew with low fire for 10min.
3. Add chestnuts, boil with big fire and stew with low fire for 20min.
4. Add red dates and boil for another 10min.
5. Fill the bowl with the cooked chestnuts and red dates porridge, and eat when it is warm.

People often eat too much hot and geasy food in cold winter. Those who concern health preservation will eat porridge at that time. Porridge can not only warm stomach, tonify spleen, but also warm intestines. So people are not easy to fall ill next spring. The porridge is made with red dates and chestnuts which could tonify liver and kidney, and suitable for people who oversue their eyes and always sit still. It can help people to catch the good opportunity for kidney tonifying in winter. 冬季进补

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1.Stabilize blood glucose

Eating a handful of peanuts in the morning could help stabilize the blood glucose of the day because peanuts

may ease absorption of carbohydrate.

2. Clean blood vessel and protect heart

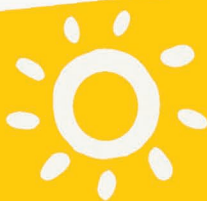
The unsaturated fatty acid in peanuts may resolve cholesterol in liver to bile acid and promote excretion so as to lower cholesterol content in blood and prevent from atherosclerosis.

3. Eliminate sour regurgitation



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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.

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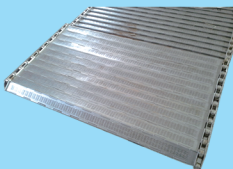


Stainless steel three-layer chain plate air drying cooling line

ACCESSORIES AREA



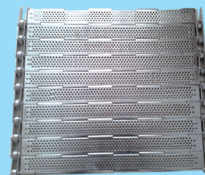
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Chain plate
(HOLE 0.9x20)



Sprocket wheel



Chain plate
(HOLE 3mm)



Chain plate
(HOLE 8mm)



Chain

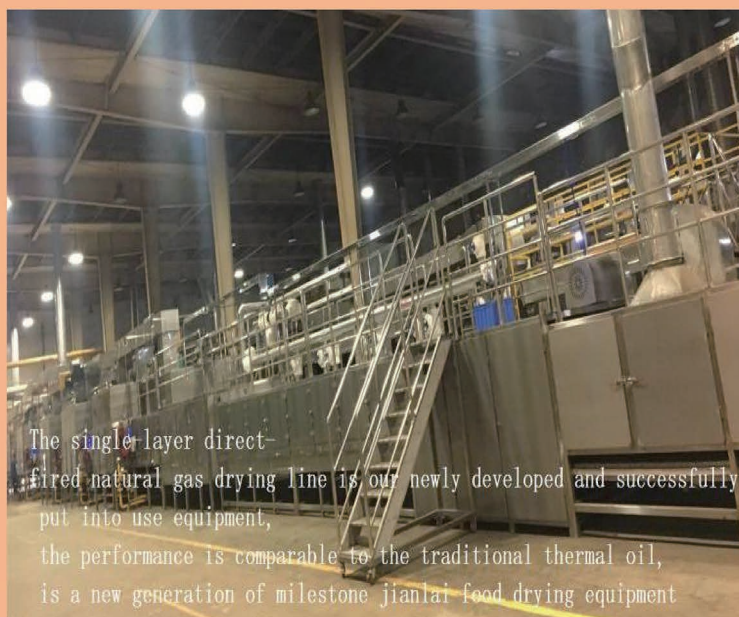
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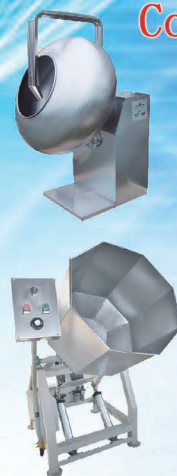
COMPANY: HEFEI THE PROSPEROUS NUTS MACHINERY MANUFACTURING CO.,LTD

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

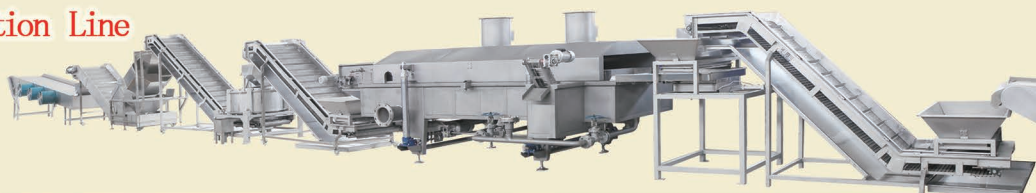
Coated Nut Processing Line



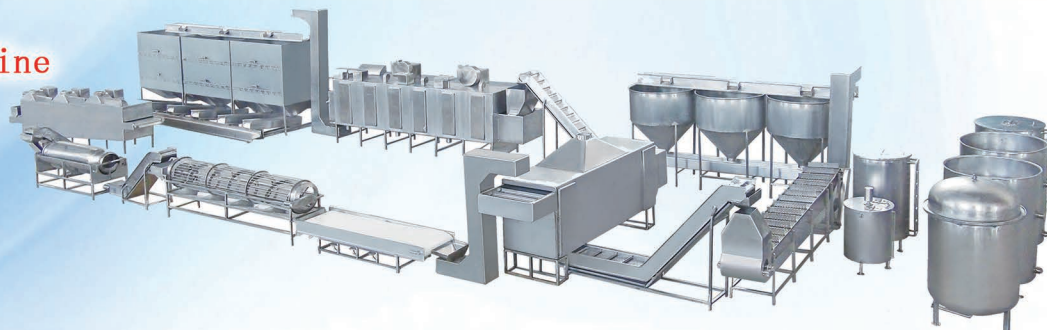
Coated Nuts Roasting Line



Net Belt Continuous Frying Production Line



Nut Roasting Production Line





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

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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



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JIANGSU ALISHAN FOOD CO.,LTD

SUZHOU KOUSHUIWA FOOD CO.,LTD

SHANDONG TAISHAN SUNRISE FOOD CO.,LTD

SHANDONG XIANGSHAN FOOD CO.,LTD

... ..

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

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Truss
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R70-C type

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