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Pecans Cracking & Shelling Production Line Quick Pecans Cracking Kernel Shell Separation





Hefei Zhongan Intelligent Vision Technology Co., Ltd.



HEFEI ZHONGAN

PROFESSIONAL MANUFACTURER
PECANS CRACKING SHELLING EQUIPMENT

Set Sailing to Create a new Era of Pecans Cracking Shelling & Sorting

Hefei Zhongan Intelligent Vision Technology Co., Ltd. is located in Hefei China. It is a national high-tech company specializing in R&D, production and sales of artificial intelligent sorting equipment. Our company owns an AI sorting equipment production base covering an area of 60,000 sq.m with more than 200 employees. Our annual output has exceeded 100 million. We focus on the AI sorting equipment industry, and have won honors of AKSTSPE (Anhui Key Science and Technology Special Project Enterprises), ASE (Anhui Software Enterprises), AADEoFUMTE (Anhui Application Demonstration Enterprises of First Unit Major Technical Equipment), AADEoICIP (Anhui Application Demonstration Enterprises of Information Consumption Innovation Product), HBDE (Hefei Big Data Enterprises), HHDGE (Hefei High-tech District Gazelle Enterprises). Meanwhile, our company attached great attention to product quality since its establishment, and passed Three System Certifications of QMS (Quality Management System), EMS (environmental management system) and OHMS (occupational health management system) in 2020.

Zhongan is a tech-oriented technology enterprise, it owns a R&D center, of which staff proportion hits 40% among the company, including more than 50 Doctors & Masters. Our R&D team has 20 years' experience in optical sorting section, dozens of long-term core tech members engaged in visual sorting, all of them is competent with rich practical experience and strong R&D, possessing core independent intellectual property rights in new technologies and new fields. By using new generation of deep self-learning system and FPGA fusion algorithm, through industrial grade ultra-HD digital cameras, materials are 360° rotational captured, and sorting simultaneously with multiple wanted discharges only one time after special computer data model processing. We have achieved nearly 100 intellectual properties so far.

Zhongan AI Sorting Robots with complete models have superior performance, which can meet different processing requirements from different type of companies. According to different sorting requirement, we are able to provide complete tailored production line. Our robots are widely used for sorting various Fruits (such as Apples, Oranges, Pears, Kiwis, Plums) and various Nuts & Dried Fruits (such as Dates, Chestnuts, Hazelnuts, Lotus, Walnuts, Pistachios). Our strict QMS guarantees the qualities of our products and services, which have been exported to many countries and regions around the world. In 2021, Zhongan successfully developed complete production lines for Walnuts/Pecans cracking & shelling processing, they are used to replace labor work and increase efficiency and yield, breaking foreign monopoly, realizing localization of cracking shelling processing equipment, and widely praised by our customers.

Company Culture

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Corporate Vision: focus on user experience's value, strive to be a leader in Al sorting

Company Philosophy: co-create a healthy ecological environment for the Internet of Things (IoT) with partners on basis of open and win-win platform

Company Purpose: user value oriented, satisfy user needs with excellent products and services

Company Spirit: dare to be the first, pursue excellence, and achieve the mission





Pecans Cracking Shelling Production Line

Dry Cracking Leading Tech

Advanced dry cracking process, high speed cracking Avoids issues of mildew and deterioration caused by soaking in water during wet cracking process



quick shell separation

pecans kernel shell, chopped kernels separated automatically



Effect Overview

- 01 Leading Dry Shelling Technology
- High output 24000 pecans each hour each set
- 03 Mechanical processing to achieve pecans mass production
- Pecan production line is labor saved, output and value added
- Breaking foreign monopoly, realized localization of pecans cracking shelling equipment

Pecan Raw Material



2nd 3rd Channel kernels



Pecan Cracking Effect



Chopped kernels

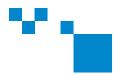


1st Channel Kernels



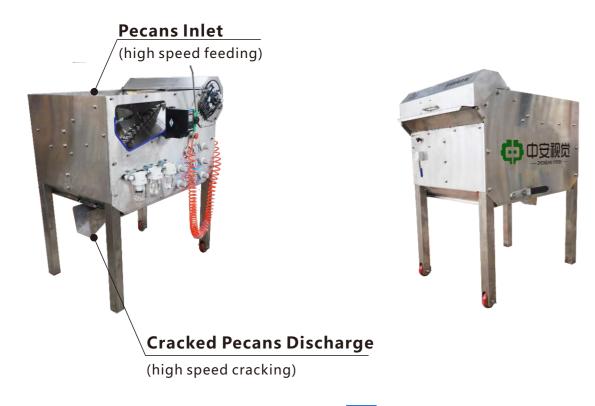
Pecan shells





Production Line Introduction

Pecans Cracking Module



Pecans Cracking Module Technical Parameters



Name	Power	Voltage	Air Pressure	Output (piece/h)	Dimension (LxWxH mm)	Weight (kg)
Cracking Module	0.5	380/50	0.5 <p<1.0< th=""><th>24,000</th><th>1130*750*1310</th><th>230</th></p<1.0<>	24,000	1130*750*1310	230

Remarks: The effect of the pecans production line is related to the pecans variety, kernel moisture, etc. Above data for reference only





Pecans Sheller Module



Pecans Sheller Module Technical Parameters

Name	Power	Voltage (V/Hz)	Process	Output (piece/h)	Dimension (LxWxH mm)	Weight
Sheller Module	1.2	220/50	Merchanical	100,000	2610*740*1100	800

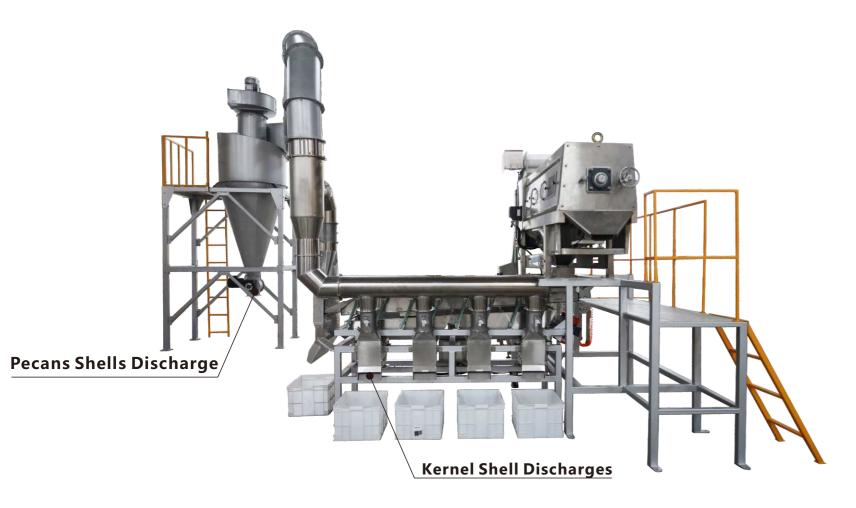
Remarks: The effect of the pecans production line is related to the pecans variety, kernel moisture, etc. Above data for reference only

Details





Kernel Shell Separator Module



Kernel Shell Separator Technical Parameters

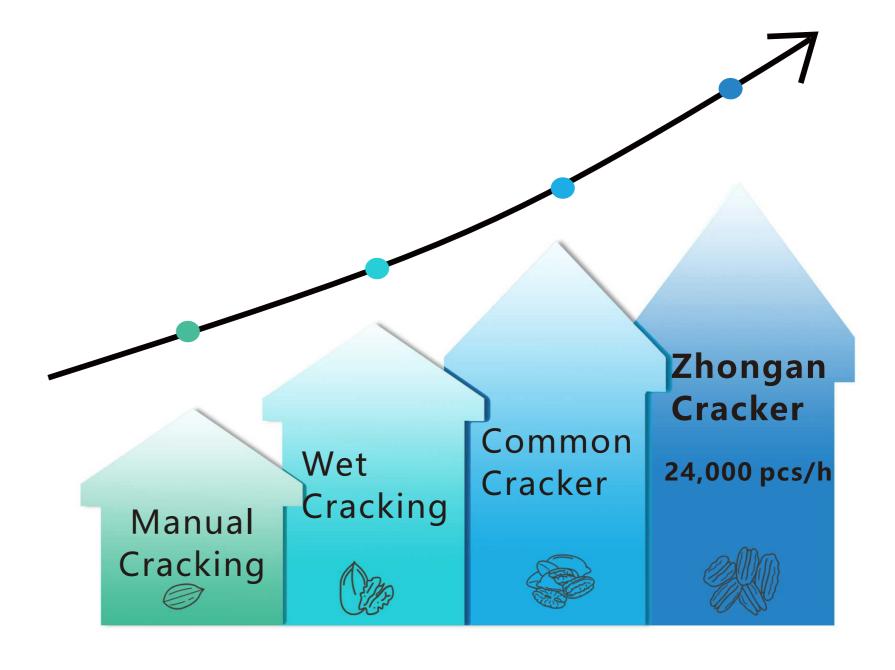
Name	Power	Voltage (V/Hz)	Process	Weight
Kernel Shell Separator	1.2	220/50	Merchanical	800







Output Advantages

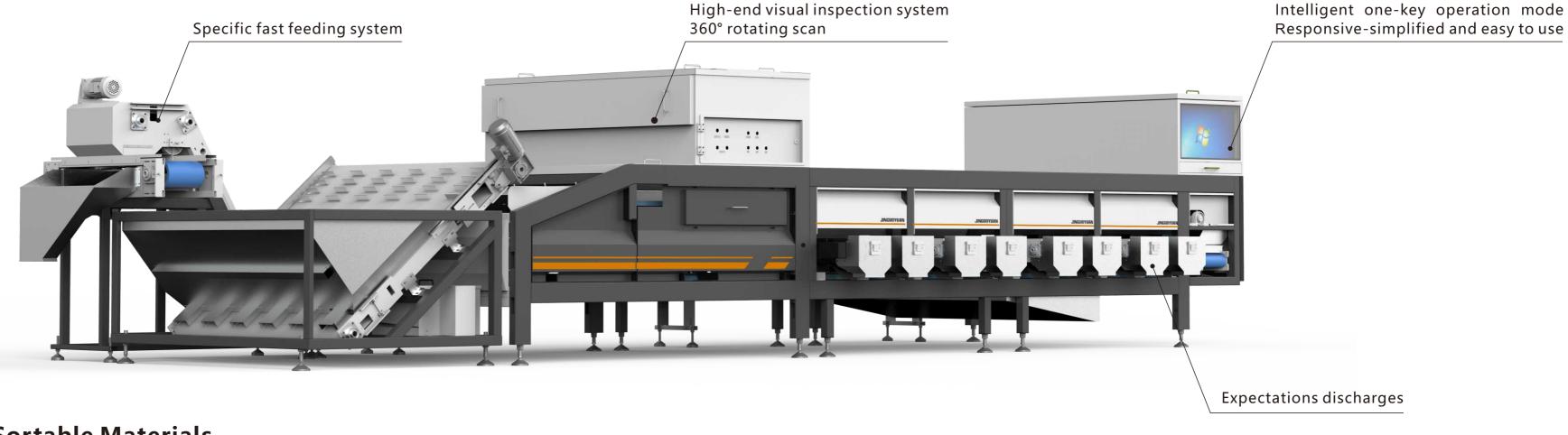






Roasted Seeds & Nuts **Wisdom Choice**

- Exclusive products customized according to actual needs
- Advanced with high efficiency, high precision, high output etc.





























Chestnuts Chestnut Kernels Pistachios

Walnuts

Macadamias

Hazelnuts

Lotus

Pecans

Almonds

Ginkgos

Brazil Nuts

Pili Nuts



X-ray Sorting Module

Empty Shrunken Pecans, Metal Removal



Technical Parameters

Model JSDX5T-HT JSDX6	2880*1360	JSDX8	JSF6				
	2880*1360		JSF6				
		÷2242					
2880*1360*2343 (2343=2008 hosts+335 lights)	2880*1360*2343 (2343=2008 hosts+335 lights)		2880*1360*2343 (2343=2008 hosts+335 lights)				
X-ray output	350W (max)						
Conveyor speed	10-120 m/min						
Output 50-5000 kg 50-5000 kg	50-7000 kg	50-7000 kg	50-5000 kg				
Conveyor belt width 710	710		710				
Total power < 3kW	< 3kW		< 3.5kW				
Power supply Host AC	Host AC220 single phase Ac220						
HMI 17 in	17 inch LCD touch screen						
X-ray leakage up to	up to European standards						
Protection Transmis	Transmission part IP54 , other IP53						
Environment requirements Ambient temperature 0 -40, re	s Ambient temperature 0 -40, relative humidity 30-85 % without condensation						
Best detection accuracy 0.3 mm Stainless ste	0.3 mm Stainless steel ball, 0.2 *2 mm stainless steel wire						
Case material 3	304 stainless steel						

Remarks: X-ray module is outsourced, above data for reference only

Empty Shrunken Pecans Removal Effect

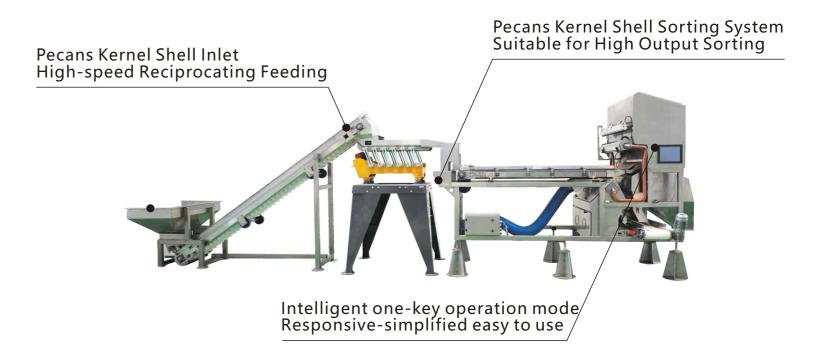






Multi Spectral Crawler Module

High Speed Kernel Shell Separation



Separation Module Technical Parameters

No.	Output (t/h)	Kernel rate	Bring out ratio	Power (kW)	Weight (kg)	Air consumption (m3/min)	Dimension (LxWxH mm)
K320I-S	0.3~0.6	>99.8%	>500: 1	3.9	970	0.5~1	5306*1315*2408
K640I-S		>99.8%		5.8			5306*1635*2408
K960I-S	0.5~1	>99.8%	>500: 1	7.9	1500	1.5~2	5306*1955*2408

Remarks: kernel shell separation module is a purchased product, above is the test of 10% impurities in walnut kernels. Differences may occur in output and kernel rate from different walnut types. Above data for reference only.

Customer Cases >>



Customer Cases

























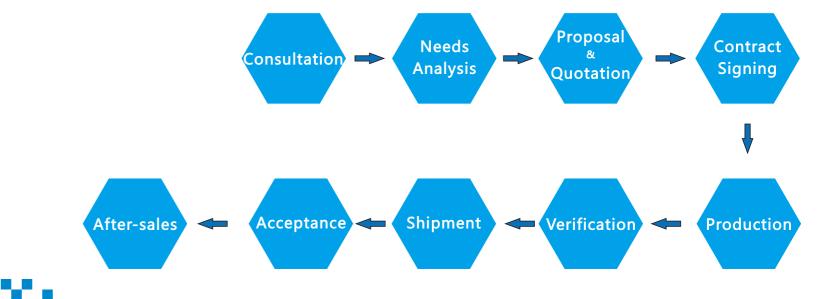








Business Procedures



Business Partners







































唐山金栗贸易 鹤山市东源食品

Company Horons >>

3A Enterprise Certificates













Software Test Certificates











Computer Software Copyrights



Software Certificates









Invention Patents













Utility Model Patent Certificates













Management System Certificates







Anhui Science & Technology Major Special Project



Other Honors Certificates



