



**ZHENGZHOU LERFORD MACHINERY EQUIPMENT CO.,LTD**

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## Quotation for KT Series Cocoa Bean Shell and Kernel Separator Machine

### Product Overview

This professional-grade cocoa bean shelling and peeling machine is designed specifically for cocoa processing plants and chocolate factories. It combines advanced mechanical crushing and pneumatic separation technology to efficiently remove the outer shell of cocoa beans while preserving the integrity of the cocoa kernels to the maximum extent possible. This equipment fully complies with international food hygiene standards and can be used in small, medium, and large factories, making it the ideal choice for obtaining high-purity cocoa kernels with minimal waste.

## Stainless Steel Cocoa Bean Hulling & Winnowing Machine





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## Key Features & Advantages?

**High Dehulling & Separation Rate (>99%):** Achieves uniform cracking and excellent peeling efficiency, delivering pristine cocoa nibs with minimal kernel waste.

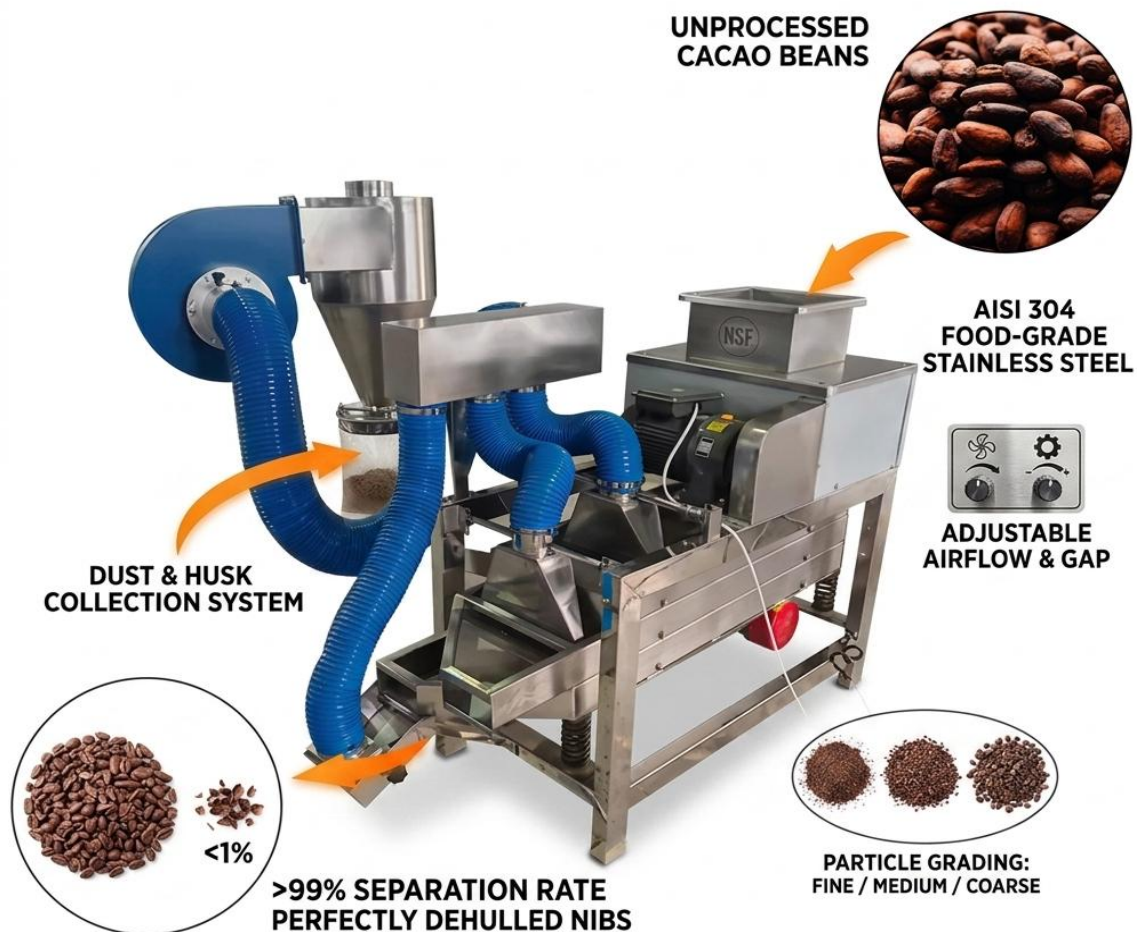
**Food-Grade Material Construction:** The upper and lower hoppers, outer shell, and all components in contact with food are made of high-quality stainless steel to comply with global food safety standards.

**Advanced Cyclone Dust Collection System:** Equipped with a reliable suction fan and a specialized cyclone dust collector. The peeled skins and fine dust are cleanly drawn into the cyclone for centralized storage, keeping your workshop clean and eco-friendly.

**Precision Particle Grading (For Screen Models):** Models with an integrated vibrating screen split cracked materials into different particle sizes automatically, optimizing the airflow separation for each size category.

**Fully Adjustable Mechanics:** Operators can easily adjust both the air winnowing power and the clearance between the peeling rollers to accommodate different varieties and moisture levels of cocoa beans.

**Compact & Rugged Design:** Engineered with a compact layout and straightforward mechanics, ensuring ultra-stable performance, safe operation, and very low maintenance overheads.





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## Key components

This machine consists of peeling rollers, a fan, and a gravity separation unit. It has a simple and compact structure, is easy to operate, has stable performance, and is safe and reliable.

The entire machine body is made of 304 stainless steel.



peeling roller



Fan



Specific Gravity Separation Section

## Application

This machine is specifically engineered to crack, peel, and automatically sort roasted cocoa beans, separating the husks from the pure kernels with a >99% efficiency rate.

## working scenarios

**Bean-to-Bar Craft Chocolate Workshops:**  
Operates seamlessly as a standalone unit in boutique or small-to-medium-scale artisanal chocolate facilities, providing master chocolatiers with pure, shell-free cocoa nibs to protect the refined flavor of their premium products.





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**Industrial Chocolate Manufacturing Lines:**  
Positioned directly downstream from the continuous bean roaster and cooling bed, serving as the automated pre-treatment station before the clean cocoa nibs move into the grinding and mass-liquor milling stage.



**Cocoa Powder & Cocoa Butter Processing Plants:** Integrated into large-scale continuous processing lines (utilizing high-capacity configurations like the 300 KG/H KT-3 model) to handle bulk raw materials efficiently, ensuring zero husk contamination before oil pressing.



**Baking & Confectionery Ingredient Supply Chains:** Deployed in food factories to mass-produce premium, clean cocoa nibs destined for commercial bakery toppings, healthy snack inclusions, and retail packaging.



Whether you run your own small workshop or a factory involved in an industrial production chain (such as Industrial Chocolate Manufacturing Lines, Baking & Confectionery Ingredient Supply Chains, etc.), this machine is an indispensable tool for you.



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## Technical Specifications Table

Technical Parameters	Model: KT-4	Model: KT-3	Vertical Double-Fan Separator
Application Material	Roasted Cocoa Beans	Roasted Cocoa Beans	Cocoa Shell & Kernel Separation
Production Capacity	100 KG/H	300 KG/H	150 KG/H
Dehulling/Peeling Rate	> 99%	> 99%	High-Efficiency Sorting
Main Motor Power	0.75 KW	0.75 KW	-
Suction Fan Power	1.1 KW	1.5 KW	2.2 KW
Vibrating Screen Power	0.18 KW	0.18 KW	-
Standard Voltage	380V	380V	380V / 50Hz
Machine Dimensions	140 x 60 x 130 cm	160 x 70 x 140 cm	1.2 x 1.5 x 2.2 m
Suction Fan Dimensions	0.6 x 0.6 x 1.4 m	0.6 x 0.6 x 1.4 m	Integrated System
Equipment Weight	150 KG	200 KG	Approx. 150 KG
Material Build	Standard Carbon Frame	Food Contact: Stainless Steel Hoppers & Shell: Stainless Steel	Premium Structural Steel
<b>Exw Price(USD)</b>	<b>\$3309</b>	<b>\$4853(Three-layer screen)</b> <b>\$3970(one-layer screen)</b>	<b>\$1213</b>

## Structure & Working Principle

The system primarily consists of a feeding hopper, specialized peeling rollers, a negative-pressure winnowing fan, a grading vibrating screen (on specific models), and a cyclone dust collector.

### Type A: Standard Winnowing Model (Gravity Separation)

**Uniform Feeding:** Cocoa beans are loaded into the storage hopper for steady, continuous feeding.

**Roller Cracking & Peeling:** The beans drop into the peeling section, where rollers rub and crack open the outer shells smoothly.

**Air Winnowing Separation:** A powerful suction fan generates negative pressure, lifting the lightweight cocoa hulls away and drawing them into the external cyclone collector.

**Clean Discharging:** The clean, pure cocoa nibs travel downward and flow out via the dedicated product discharge chute.

### Type B: Advanced Grading & Screening Model

**Uniform Feeding:** Cocoa beans enter smoothly through the main feeding hopper.

**Roller Cracking & Peeling:** The outer shells are cracked open cleanly by the specialized rolling mechanisms.

**Vibrating Screening:** The mixed material lands on a reciprocating vibrating screen, sorting the particles into distinct



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sizes.

Multi-Channel Winnowing: Targeted suction airflows draw different sizes of lightweight shells out of the mixture and transport them directly into the external cyclone bucket.

Pure Nibs Output: Fully separated, uniform cocoa nibs discharge effortlessly via the collection chutes.

**Dehulling Roller Clearance Adjustment**

**Dehulling Roller Clearance Adjustment**

**Sieve Screen Attachment**

Item	Part Name	Material	Qty	Note
1	Main Frame Structure	Welded tube	10	
2	Dehulling Unit Housing	Mistert flow	3	
3	Dehulling Rollers	Shaft: shafts	3	
4	Upper Inlet Hopper	Flow control	2	
5	Bottom Outlet Hopper	Setori flen	3	
6	Motor and Gearbox Assembly	Drive train	1	
7	Main Electrical Control Panel	Wiring/in	1	
8	Cyclons Dust Collector	Dust Caust	1	
9	Cyclons Dust Collector	Selam flow	1	
10	Blue Flexible Suction Hoses	Clam	1	
11	Blower Unit	Impslor	2	
11	Vibrating Sieve Assembly	Sievs	1	
12	Springs	Sievs	1	
13	Spring	Shest	1	

SHANDONG ANQIU DONGXIN FOOD MACHINERY FACTORY  
 MECHANICAL DRAWING: Kt-3 COCOA BEAN DEHULLER & WINNOWER  
 Manufacturer: AN-China Contact: anquidongxin.com  
 Contact: 012-885-8371 E-mail: shandong@dongxin.cn

Factory



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## Duty after death

### Feedback

Have a nice weekend. 下午2:25 ✓ 评价对象 评分&评论

Hello,  
Thanks you!  
Last week we took the shelling mact from the port. Thanks a lot to all your team for good cooperation and supp  
Success to all!! Have a good weeke

订单号: 034-200-151510 最近更新时间: 2017-05-07 23:51

office from today,any questions or needs about our machine,contact me without any hesitation,Best regards for all of your family. 10:48 ✓

Good morning Susan nice holiday all the best for you and ur family the Golden Machinery is the best Machines all over the world

Very impressive ! Great Quality and Fast shipn parts very quick and in great condition. 4 days alia , it is a remarkable record . Happy to d Gaston

Us Best regards from me 🌸🌸🌸🌸🌸 10:23

We are brother between Indonesia and China 下午7:33 ✓

I really appreciate you without doing any business you are so good friend 下午7:35

can find the point and open Any questions or help,conta

yes if we need buy any machine we only choose your machine

My son and his dad 10:44 ✓

I really enjoy with machine 🌟🌟🌟 10:44 ✓

约如发货 收货后质量保障

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## Customer visits

			
<b>aARMENIA</b>	<b>Tanzania</b>	<b>Côte d'Ivoire</b>	<b>Germany</b>
			
<b>Congo</b>	<b>Cameroon</b>	<b>South Africa</b>	<b>Ethiopia</b>
			
<b>Thailand</b>	<b>Uzbekistan</b>	<b>India</b>	<b>Ghana</b>



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## 14.Our Certification:

