



Introduction of CDUID and cashew processing equipments

Dear Esteemed Customers,

Thanks for your inquiry regarding our cashew nuts processing project.

Firstly, we will introduce our company CDUIC to you.

CDUIC has about 20 years experience to design and manufacture small scale agriculture machinery and tools, for example rice mill, grain grinding machine and corn thresher.

We started to do cashew nuts processing equipments business since 2009, although not long time, we have sold to many countries that China, India, Indonesia, Cambodia, Myanmar, Thailand, Brazil, Nicaragua, Morocco, Egypt, western countries and eastern countries. Some clients list will given below.

About the equipments specification:

Generally speaking, our equipments are semi-automatic type and most suitable for small and medium scale cashew nuts processing plants. Especially suitable for African countries.

The flow chart for cashew nuts processing industry as:

(1)raw cashew nuts size grading → (2)Steaming(40-60minutes processing 200-300kgs/batch,100 °C) → (3)raw cashew nuts drying(can sundry in tropic zone) →(4)shelling(automatic & manual) →(5)shell & kernel separation →(6)kernel drying (40-60 minutes, with temperature 60-80 °C) →(7)humidify →(8)peeling(automatic & manual) →(9)kernel sorting(grade/quality sorting and color sorting) →(10)vacuum packing

The main equipments in processing line introduction:

GRADING MACHINE: Because the raw cashew nuts size is different and our shelling machine can processing one size nuts per batch, we need grade the raw nuts before using our automatic shelling machine. Our raw nuts grading machine can classify 4-5 grades depending on the size, just feed the raw nuts by manual, then can automatic grade.

AUTOMATIC SHELLING MACHINE MODEL UI-C20: This shelling machine is our latest design and produce machine, has better performance than our old model,



CHENGDU UNITED INDUSTRIAL CO.,LTD.

Add: Tianfu Ave. Hi-Tech Zone, Chengdu, Sichuan, P.R.China610000

www.cashew-sheller.com

From: Michael Young

sales@cashew-sheller.com

Tel: 0086 18628092212

which is also our main product. Shelling section also is one of the most important part is cashew processing industry. Our automatic shelling machine has advantages of small space needed, light weight, easy to move, easy operate, easy repair also high efficiency.

Capacity: about 80-100kgs/h(raw cashew nuts) or about 270-300 raw nuts per minute.

Shelling ratio: >93%

Ratio of unbroken kernel: >95%

The shelling ratio and unbroken ratio depending on the raw nuts quality and pre-processing skill, for example, if the raw nut is black color and external form is anomalous, then shelling ratio will reduced, also if steaming step and raw nuts drying step doing not enough, also can affect shelling ratio, if not do the raw nuts size grade step or the shelling blade adjust not good, can affect unbroken ratio. The processing skill needs workers many times test then can gain the best processing skill to guarantee high shelling and unbroken rate.

Before shelling, the operators need to adjust the shelling blade to suit raw nuts difference, then keep one blade gap to processing one grade size nut per batch. This step can make sure high shelling ratio and low broken ratio.

MANUAL CASHEW SHELLING MACHINE: This manual type shelling machine fully by manual shelling, no need electricity power or air offer. This machine can be used together with our automatic shelling machine, if some nuts can not be shelled by automatic machine, then can use the manual type, also is there is no electricity power, can use this manual machine.

SHELL & KERNEL SEPARATION MACHINE: This machine's function is to separate shelled kernel and out shell automatically, also can separate unshelled kernel and broken kernel. This separation machine's construction has two parts- vibrating screen and rolling axis. The screen parts can almost 95% screen the shelled kernel and out shell automatically. The rolling axis can 93%-95% to separate broken kernel and unshelled raw nuts.

AUTMATIC PEELING MACHINE: This machine has three parts included. This section is also one of the most important step in cashew processing industry.

(1) Peeling machine: need manual feeding and peeling automatically.

Capacity: 50kgs/h(shelled kernel)

Peeling ratio: 85-90%

Unbroken ratio: 90% around

Generally speaking, the effect depending on pre-processing skill- drying kernel processing, the more dried, the peeling result better. Also the peeling time set more long, the peeling ratio more higher but broken ratio also more higher, opposite, the peeling time set more shorter, the peeling ratio more lower but the unbroken ratio more lower. So also needs the operator test much time, then get the best record.

(2) Cashew kernel grading machine: running roller design, to separate the broken peeled kernel, whole kernel and un-peeled kernel after peeling machine by manual, this section needs about 2-3 workers, it is useful to improve peeling effect and save production time.



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(3) 7.5kw air compressor, a necessary equipment working with peeling machine, which supply the air pressure to the peeling machine to achieve peeling work.

QUALITY SORTING AND COLOR SORTING SECTION: We supply the sorting table, means sort by manual, the clients also can use special sorting machine, also we can supply the color sorting machine if clients need, for most small and medium cashew processing plants, no need this machine.

In short, CDUIC cashew nuts processing equipments main advantages are:

- Low cost, the best choice for small and medium scale factories and cashew processing starters.
- Easy operate and maintenance, lost cost after sale repair.
- Flexible using, can be used even in workshop also can be used in whole line processing factories, take shelling machines as an example, if one shelling machine break down, then can run another one, each machine work separately. This not like large scale machine, if break down, maybe whole processing line will stop.
- Easy install, most of machines are full assembled before shipping, the users can directly run without any install, can reduce the installing cost.
- No need strict layout design, each machine can work separately, because not fully automatic type, there is no transmission belt or vibrate to connect each machines, can put them easily. Also easy to move them.
- Plants space needed is small, if 1000kgs/h raw nuts, only needs 400-500 m² size plants enough.

Parts of the clients list:

- **CEMYA TRADE,NIG. LTD** 3 AGARD STREET, SABO, YABA, LAGOS, NEGIRAL
TEL: 00234 8033571210 (Shelling machine, peeling machine, separating machine, 500kgs/h line).

- **GRUPO COMERC E AGRO INDUST INTANHA** INTANHA,BISSAU,GUINEA-BISSAU
TEL: +2456725662 (16 units shelling machines and 3 units peeling machines)

- **SOBERY** 22 BP 1483 ABIDJAN 22, Ivory Coast Tel: +225 22 43 11 96 FAX:
+225 22 43 11 96 (26 units shelling machines).

- **CASA UNITY PRODUCTION** Djibelor, Ziguinchor,SENEGAL, Tel: +221 77 338
94 24 (1 boiler, 8 shelling machines, 4 peeling machines, 1 drying machine, 8 peeling & sorting tables)



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Our Indian customer's factory view





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Our domestic customer factory view



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