

Product Name : COMMERCIAL JUICER-20K CRUSHER CERTIFIED

Model No : ANGELCM-020KCA



**Angel**

User's guide of Angel Commercial Juicer

- Please read the instructions carefully to use the product properly and protect against any risk.
- Please keep the user's guide where it is easily accessible.

Angel Juicer Synonymous with
A Health Guardian
We will be your reliable
Partner for success.



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Caution may be classified into 'danger', 'warning', or 'caution'.

Precautions of Safety



Danger



Warning



Caution



Do not plug the power cord or operate the switch with wet hands.
It may cause fire or electric shock.



Avoid contact with the inner part of control box or motor.
It may cause electric shock or damage to the product.



Do not put the main body (motor, control box) in water or any other liquid.
Be careful not to let liquid or other foreign materials into the switch.



Make certain that the power cord is plugged into the outlet correctly.
It may cause electric shock or damage to the product.



NOT FOR USE BY CHILDREN! Keep out of the reach of children.
It may cause injury or damage should children touch inadvertently or tip over.



Do not let the juicer idle for over 5 seconds.
It may cause damage to the product(Twin gear).



Do not use the product should power cord or cable be damaged or outlet get loose.
It may cause fire, electric shock, or injury.



Do not use with the unauthorized modification or disassembly.
It may cause fire, electric shock, or damage.



Do not put fingers into feeding chute.
It may cause injury or accident.



Do not let any foreign materials, e.g. metal and stone, into feeding chute.
It may cause a fatal error or damage to the product.



Take caution not to let necktie, long necklace and scarf get into the running machine.
It may cause injury, accident or damage to the product.

Caution may be classified into 'danger', 'warning', or 'caution'.

Precautions of Safety



Danger



Warning



Caution



When putting ingredients into feeding chute, do not use any objects(chopstick, spoon, hard object, etc.) other than wooden stick.

It may cause injury or damage.



Place the product on secured, flat surface.

It may cause injury or accident, damage.



Do not apply too much force or heat to the product.

It may cause electric shock, destruction, fire.



Stop operation immediately should the unit produce unusual sound, overheating, or smoke and contact customer service you purchased from.

It may cause electric shock, destruction, fire.



Never move the main body, disassemble or mount the parts while the juicer is in operation.

It may cause injury or failure. Make sure the product stops and power cord is unplugged in the first place.



Unplug from outlet when not in use.

It may cause injury, electric shock or fire.



Do not implement any misbehavior by bending forcibly, tying or placing power cord near hot materials.

The destruction of power cord may cause fire or electric shock.



Avoid direct sunlight and high humidity while storing the product.

It may cause injury or damage.



Switch to OFF position after each use and be sure the motor stops completely before disassembling and assembling.

It may cause injury.



Be sure to install the grounding cable.

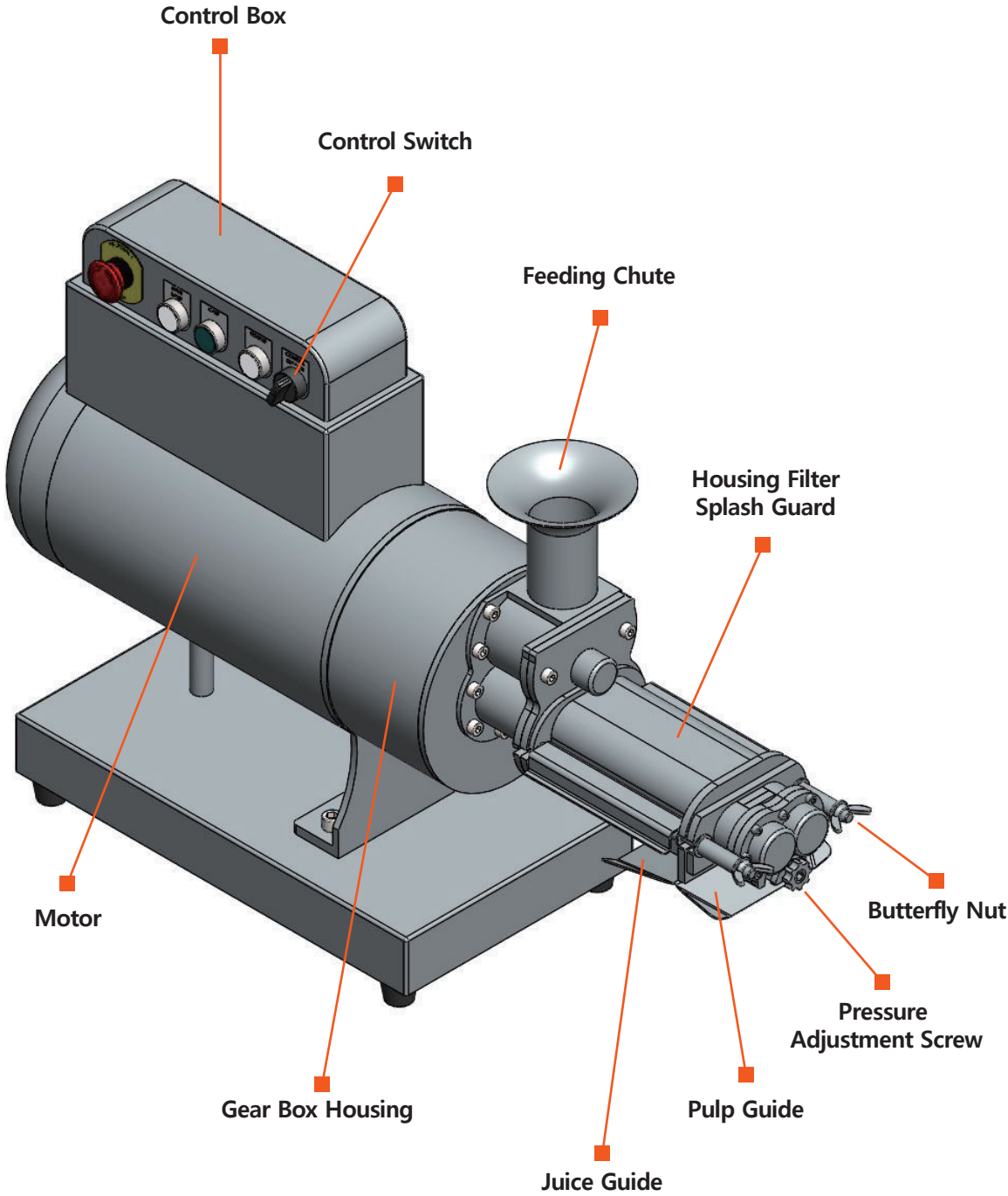
It will prevent electrical shock by inducing the current into ground in case of short circuit.



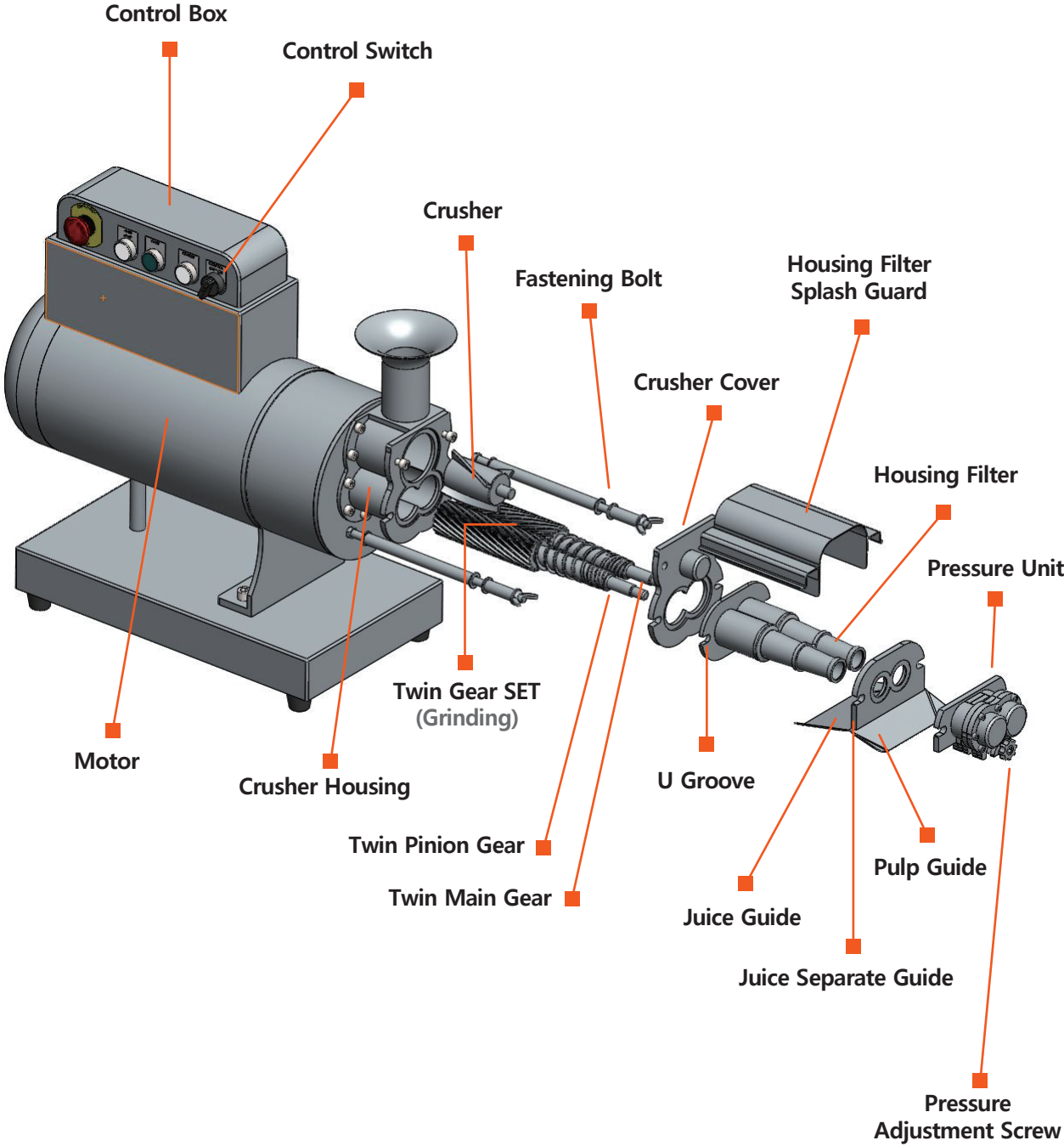
Do not heat or boil any parts.

It may cause injury or damage.

Name of Parts



● Feature(Disassembly)



How to assemble

Please read instructions thoroughly before assembling the product.

※ Be sure to turn Control Switch to STOP position before assembling the product.

- 1 Put Crusher into the hole correctly.
- 2 Assemble Crusher Cover by tightening bolt.
- 3 Slide the Twin Main Gear slowly into the right hole and push the gear fully for assembling until it reaches spline gear groove by turning the Twin Main Gear to the left and right.
- 4 Assemble Twin Pinion Gear into the left housing hole.
- 5 Check up/down position of housing(the first hole facing upward) for assembling.
- 6 Assemble Juice Separate Guide into Housing Filter ring correctly.
- 7 Assemble Pressure Unit.
Tip) Should Pressure Adjustment Screw be tightened too much, take caution as it may not be assembled with Juice Separate Guide.
- 8 Insert Fastening Bolt into U Groove correctly and tighten Butterfly Nut.
Tip) Then hold and lift up Pressure Unit and tighten Butterfly Nut.
- 9 Assemble Housing Filter Splash Guard.

How to use

Please read instructions thoroughly before using the product.

- 1 Prepare ingredients for juice extraction by cleaning and cutting them in advance.
- 2 Plug in the power cord and check if grounding cable is connected properly.
- 3 Place the control ON/OFF switch onto ON position and put ingredients into the Feeding Chute right after pressing START button.

! Caution Do not idling-run for over 5 seconds.

- 4 Slice the ingredients of bulbous plants at proper size to put into Feeding Chute and push with wooden stick.

! Caution Make certain to use wooden stick supplied by our company and do not use metal bar, spoon, chopstick, knife, etc.

! Warning Metal entry into the Twin Gears can cause serious damages to the machine.
 - Teeth of Twin Gears will be damaged.
 - Twin Gear shafts will be bent.
 - Bearing damages will occur.

- 5 In the beginning of extracting, juice and pulp can come out together from pulp guide, which can be put into Feeding Chute for extracting again.
 The concentration of pulp could vary depending on ingredients you put and can be controlled by Adjusting Pressure Adjustment Screw.

Tip) Should the quantity of ingredient put in be excessive than that of ejection, the machine stops automatically. Place Control Switch onto OFF ► Place Control Switch onto ON ► Operate the machine reversely by pushing REVERSE button for a short time(4~5 seconds) ► Push START button to operate again.

Tip) Stem or leaf vegetable will get into Twin Gear once it is put in without using wooden stick.

Tip) Should Housing Filter hole be clogged at the time of continuous juice extraction, capability of juice extraction is reduced and it causes damage to the product, so replace it with a Spare Housing Filter for operating again.

Tip) Finish putting in ingredient and STOP after doing idling-run for 1 to 2 minutes.

How to disassemble

Please read instructions thoroughly before disassembling the product.

- 1 After finishing juice extraction, do the idling-run for 1 to 2 minutes and press STOP button then switch OFF Control Switch for safety.
- 2 Take out Housing Filter Splash Guard.
- 3 Unscrew Butterfly Nut at each side of Pressure Unit and turn Fastening Bolt back to both sides.
- 4 Take out Pressure Unit by pulling forward.
- 5 Take out Juice Separate Guide by pulling forward.
- 6 Take out Housing Filter by pulling forward.

Tip) Should Housing Filter not be pulled out, rotate Twin Gear for 2 to 3 seconds and Housing Filter will be pushed out by turning ON Control Switch and pressing START. Then press STOP button immediately and turn OFF Control Switch for safety and take out housing completely.
- 7 Take out Twin Gear by pulling forward one by one.

! Caution Twin Gear may be heavy and take caution to avoid falling down when taking it out.
- 8 Take out Crusher Cover by loosening bolts.
- 9 Take out Crusher by pulling forward.

Cleaning

Please read instructions thoroughly before cleaning the product.

※ Be sure to clean it every time you use Angel Juicer.

1 Spray water with hose into Feeding Chute and Housing Filter and clean with brush.

2 Clean inside and outside of Crusher Housing using brush and cleaning knife. You can Separate Crusher Housing from the machine and wash it if needed.

3 Lay Twin Gear on wooden or plastic plate to clean with brush.

Tip) Should it be laid down on rugged surface, the gear get damaged and may cause trouble in extracting juice.

4 Spray water into Housing Filter with high-pressure sprayer or clean in running water with brush after cleaning pulp in the Housing Filter with knife.

! Caution Clean thoroughly Housing Filter hole and check if there is any clog by looking it through light. Should Housing Filter hole be clogged excessively, capability of juice extraction is reduced and it causes destruction of Housing Filter.

5 Spray water and clean the Pressure Unit.

! Caution Do not put into water or boil for long. It may cause damage to bearing of rotational shaft.

6 Dry each part completely not to get water spot after cleaning.

※ Do not let water contact with Motor and Control Box area for cleaning. Wipe it out by using a soft cloth.



Commercial Angel Juicer – Check point when Using

How to check replacement parts

Twin Pinion Gear bush

– If Twin Pinion Gear bush fits into "Bush GO/NO JIG"(Tool for checking size) it should be replaced right away.

How to replace

- A. Drill a 4mm hole in the center of the worn bush with electric drill.
- B. Insert a 5mm screw into 4mm hole with screwdriver and remove the used bush.
- C. Hammer the new bush completely with steel hammer and the tool.

Bush of Pressure Unit

– If bush of Pressure Unit fits into "Bush GO/NO JIG"(Tool for checking size) it should be replaced right away.

How to replace

- A. Open bearing housing of Pressure Unit using 4 mm–allen wrench.
- B. Use the Bush Tool to remove the used bush.
- C. Hammer the new bush completely with steel hammer and the tool.
- D. Assemble bearing housing of Pressure Unit using 4 mm–allen wrench.

Commercial Angel Juicer – Check point when Using

How to check replacement parts

Crusher bush (Only applies to Crusher installed model)

– If Crusher bush fits into "Bush GO/NO JIG"(Tool for checking size) it should be exchanged right away.

How to replace

- A. Remove used bush and washer by tightening a 10 mm-bolt into the hole of Crusher bush housing hole.
- B. Put the washer into the bush hole first and use the tool and steel hammer to push the new bush to the end.

Bearing

– Bearings should be replaced when there is abnormal noise at the assembled part of the bearing, or if the Pressure Unit shaft is not rotated due to the hand being held, or if there is a feeling that it is caught.

– Bearing details

: Main Shaft of Twin Gear, Shaft of Pressure Unit,
Shaft of Crusher (Only applies to Crusher installed model)

Check of lubricant (Only applies to Crusher installed model)

– There are two gear shafts inside the Gear Box, so they should be inspected every year and supplied with grease lubricant.

Caution

It is the user's responsibility to check for damage and wear on the bushes, bearings, etc. Any damage to other components such as twin gears, housing filter, etc. is not guaranteed.

● Please check before requesting for repair service.

Please check before requesting for repair service.

Contact customer service you purchased from for A/S and other inquiries.

Please check model number, serial number and other necessary informations for requesting service or spare parts.

Q Machine does not operate.

- A**
- Check if the power cord has been plugged in correctly.
 - Check if the product has been assembled in sequence of assembling method.
(Refer to p.7)

Q Machine stops while it is under normal operation.

- A**
- Check if there are too many ingredients put in at once.
 - Put in ingredients slowly.
 - Try the REVERSE button for a while then try operating again by pressing START.
(Refer to p.8)

Q Extracting housing is damaged.

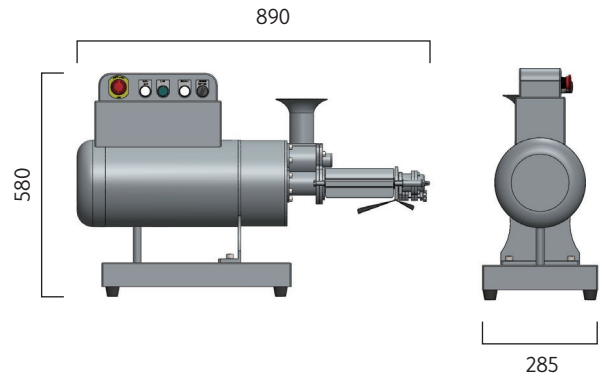
- A**
- Extracting housing has to be washed right after using.
 - Clogged extracting housing blocks water of ingredients to come out and causes excessive pressure, which leads to damage of extracting housing.
 - Extracting housing is one of wearing parts which you have to re-purchase and it cannot be exchanged or repaired when damaged due to careless washing or clogged extracting housing.

※ Contact customer service you purchased from if the methods above don't solve problems.

Specifications



Angel Commercial Juicer is suitable for businesses, e.g. hotel kitchen, college food laboratory, fruit juice store, and healthy juice store.



Model	ANGELCM-020KCA
Type	Crusher/Twin gear multi-layer extraction
Product size	W890 x D285 x H580(mm)
Weight	58 kg
Length of twin gear	157 mm
Length of screw	130 mm
Feeding chute size	upper : 130mm / lower : 58mm
Main material	Stainless steel 304 (18-8)
Motor	Single phase 400W
Rated Voltage	220~240V 50Hz / 60Hz
Motor capacity	0.5 HP
Motor RPM	1450 / 1740
Reduction gear Ratio	1/15
Twin gear RPM	95 / 115
Operating method	Button type
Juice extraction	20Kg put in once/hr(on the basis of carrot)
Juice extraction rate	fruit : about 80~90% vegetable : 70~80% in accordance with ingredient type and season (water content)

※ Please refer to the description attached on the product itself since the specification above could vary depending on models.

“Designed for the best Hygiene and Durability thanks to the Know-How accumulated for the last 30 years”

[ALL 304 18-8 stainless]




☺ Features of Angel Juicer for business use

Extraction Rate 85% Grinding and extraction Rate, minimize nutrition loss, cost saving.	Durable Highly hardened stainless gears, durable filters and sturdy stainless steel exterior design	Convenient Super easy to clean and maintain	Economical efficiency Minimized loss of fruit and vegetable, special motor use, energy saving and its durability.	Hygienic Super easy to disassemble and clean for using stainless Twin Gear squeezing filters.
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☺ The angel commercial juicer extraction rate

* Experiment done with Mini (Hotel Use) 20K and corresponding model from other company based on 10 hours of work.

	Method	Input Rate	Extraction Rate	Total Number of Packets	Revenue (1USD/Package)
	Extract ▶ Pack	20Kg of grapes per hour	91~93%	178ea	\$178
Other Juicers	Chop and Grind with Mixer ▶ Put in bags ▶ Squeeze with Centrifugal or ▶ Pack	20Kg of grapes per hour	50~57%	104ea	\$104

You can make more profit with the angel juicer in comparison with other juicers under same condition.

$$\$178 - \$104 = \$74$$

The money you can save in a day(10hours)(\$74 X 10hours)

1 Day : \$740

MONTH : \$22,200

Here are juicing videos! Scan QR code below.





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