



## ENERGY EXCELL SYSTEMS & SOLUTIONS

- AGRO-PROCESSING
- IRRIGATION PUMPS
- COOLING AND REFRIGERATION
- HEALTH-CARE APPLIANCES



## WHO WE ARE

Energy Excell Systems and Solutions Limited is an indigenous Nigeria renewable energy social enterprise committed to providing high quality Energy Efficient productive use equipment and Appliances to Homes, commercial and industrial.

EESL has come up with efficient productive use equipment that can be aligned in a way to improve and enhance agricultural, commercial and industrial activities, hence powered by renewable energy to generate income.

## HISTORY

EESL was established 2013 in Nigeria as a solar energy service and EPC company engaged in product development and distribution. Over the years we have prided ourselves in introducing tailor made equipment to niche market providing end to end services and making productive use appliances affordable and easily accessible to homes, industries and the farming community.

## OUR OFFERINGS

End to End Solution for energy efficient productive use equipment.

- Ø Training and capacity building
- Ø Equipment supply and sales
- Ø Equipment financing
- Ø After sales support services







## ECOPRO EP180M HAMMER MILL

EcoPro EP180M hammer mill can be used for a wide range of applications. It is commonly used to process Dry- Cassava, Corn, Rice, Maize, Soya-beans, Beans, Yam, into dry fine flour.

### SPECIFICATIONS

<b>Motor</b>	220v/50Hz, 1.8-22Kw, 2800r/min
<b>Production</b>	40-80kg/h
<b>Main Engine Speed</b>	1400-1600r/min
<b>Applicable materials</b>	Rice, Corn, Wheat, Coffee, etc
<b>Dimensions (L*W*H)</b>	650*380*820mm
<b>Consumables</b>	Grinding disc 180mm



Corn



Wheat



Rice



Soyabean

## EP150 WET AND DRY GRINDER

EcoPro 150 commercial wet and dry grinder is suitable for grinding Corn, Beans, Rice, Wheat, Yam, Cassava into dry fine or coarse flour. Also for the grinding of water-soaked beans, rice, corn, millet, guinea corn to make for slurry staple products.

### SPECIFICATIONS

<b>Motor</b>	220v/50Hz, 1.8-22Kw, 2800min
<b>Production</b>	Drt 40-80kg/h, Wet material:80-160kg/h
<b>Main Engine Speed</b>	1400 - 1600r/min
<b>Consumption</b>	1.8kwh/h for Dry material,1.4kwh/h for wet material
<b>Applicable materials</b>	Rice, Corn, Wheat, Coffee, etc
<b>Dimensions (L*W*H)</b>	650*380*820mm
<b>Consumables</b>	Grinding disc 180mm



## ECOPRO EPC1S TOOTH CLAW FLOUR MILL

It is suitable for wide range of processing, crushes corn, wheat, beans, grains, rice, fresh and dried potatoes and also used for mining process like crushing rare earth chemicals. Eg. gypsum, lead powder, clay, coal and other low hardness minerals. It is applicable to individual farmers, feed companies, grain, chemical plants, and pharmaceutical plants.

### SPECIFICATIONS

<b>Motor</b>	220v/50Hz, 1.8-2.2Kw, 2800min
<b>Production</b>	80 - 180kg/h
<b>Main Engine Speed</b>	5000=6000r/min
<b>Consumables</b>	Sieve (55x650mm), Screen ring diameter; 190mm. Flat teeth: 40x25mm, Square Tooth 8x8x22mm, Movable chainring: 140mm
<b>Applicable materials</b>	Corn, Soyabeans, Rice, Turmeric, Chili Coffee beans, lentiles, Spices, Herbs, etc
<b>Dimensions (L*W*H)</b>	450*320*650mm
<b>Package dimensions</b>	Carton: 700x320x700mm





## EP4-E RICE MILL

EcoPro EP4-E Rice mill can be used to remove the husk and bran of Rice, it consists of cleaning sieve, fan extractor, paddy sieve, length grading and can be set to minimize the number of broken rice.

### SPECIFICATIONS

<b>Motor</b>	220v/50Hz, 1.8-2.2Kw, 2800r/min
<b>Production</b>	Paddy:150-129kg/h, Millet:60-100kg Corn: 80-120kg/h
<b>Average engine speed</b>	1.5kwh/h @ high polishing
<b>Consumption</b>	1.4kwh/h for wet material
<b>Main Engine Speed</b>	1400=6000r/min
<b>Consumables</b>	Roller (550x80mm)
<b>Applicable materials</b>	Paddy rice processing, Sorting & Polishing, Threshing winnowing
<b>Dimensions (L*W*H)</b>	500*380*980mm
<b>Consumables</b>	Grinding disc: 180mm
<b>Weight</b>	60kg (with motor)
<b>Package dimensions</b>	550x350x470mm

Rice



## ECOPRO EP4-A RICE MILL

EcoPro EP4-A Rice mill is suitable for threshing, winnowing, polishing and sorting of Rice paddy. It consists of stainless steel sieve, fan extractor, paddy sieve and can be set to minimize the number of broken rice.

### SPECIFICATIONS

<b>Motor</b>	220v/50Hz, 1.8-2.2Kw, 2800r/min
<b>Production</b>	paddy:150-200kg/h, Millet:60-100kg/h corn:80-120kg/h
<b>Average Consumption</b>	1.5kwh/h @ high polishing
<b>Main Engine Speed</b>	1400-1600r/min
<b>Consumables</b>	Stainless steel sieve (167mm Six rhombus)
<b>Applicable materials</b>	Paddy Rice Processing, threshing winnowing, sorting and polishing
<b>Dimensions (L*W*H)</b>	650*320*980mm





## DOUBLE ROLLER CORN THRESHER EP26A

EcoPro double roller corn-thresher is suitable for threshing at optimum capacity, efficiently and fast. It threshes various sizes of corn without breaking the kernels.

The hammer roller is made of resistant materials and the machine is completely closed for safety and protection.

### SPECIFICATIONS

<b>Motor</b>	220v/50Hz, 1.8-2.2Kw, 2800r/min
<b>Production</b>	Threshes 300-600kg/h
<b>Average engine speed</b>	1.4kwh/h
<b>Main Engine Speed</b>	1400=6000r/min
<b>Consumables</b>	Roller (550x80mm)
<b>Applicable materials</b>	Corn
<b>Dimensions (L*W*H)</b>	800*320*700mm
<b>Package dimensions</b>	Carton: 700x320x700mm

Corn



## EPC-21 SELF-SUCTION GRIND

It is suitable for use at large scale processing sites where continuous crushing of granular raw material is needed, like Corn, Wheat, Yam, Potatoes, Wheat, beans etc. When raw material is fed in by suction into the crushing chamber, the simple operating design enables continuous feeding without increasing the demand for extra power, thereby saving labor and energy.

### SPECIFICATIONS

<b>Motor</b>	220v/50Hz, 2.2-2.6kw, 2800 r/min
<b>Production</b>	150-200kg/h
<b>Average Consumption</b>	1.9kwh/h
<b>Main Engine Speed</b>	4500-5500 r/min
<b>Consumables</b>	Stainless steel sieve (167mm Six rhombus)
<b>Applicable materials</b>	Corn, soyabeans, rice, tumeric, chili, coffee beans, lentils, spices, herbs, etc
<b>Dimensions (L*W*H)</b>	650*450*1000mm
<b>Consumables</b>	Sieve (100x760mm), Screen ring diameter: 250mm, Flat teeth: 55X60mm, Square tooth: 10x45mm, Movable chaining:160mm





## EPC-3S SELF SUCTION TOOTH CLAW FLOUR MILL

It is suitable for use at large scale processing sites where continuous crushing of granular raw material is needed, like Corn, Wheat, Yam, Potatoes, Wheat, soybeans, spices coffee beans etc. This machine consists of self-priming parts, feed hopper, rotor, crushing chamber, fixed tooth plate, powder mesh, main case, case frame and other parts. When raw material is fed in by suction from the crushing chamber, the tooth claw (hammer) under the action of high speed with strong bump rubs quickly and break into fine powder, and then under the effect of centrifugal force and air flow, the powder discharges through the outlet.

### SPECIFICATIONS

<b>Motor</b>	380v/50Hz, 11.0kw, 1400r/min
<b>Production</b>	500-1000kg/h
<b>Average Energy</b>	9.5kwh/h
<b>Main Engine Speed</b>	3500-4500 r/min
<b>Consumables</b>	Sieve (135x1260mm), Screen ring diameter; 420mm, Flat teeth: 80x60mm, Square tooth 15x55mm, Movable chaining: 330mm
<b>Applicable materials</b>	Corn, Soyabeans, Rice, Turmeric, Chili Coffee beans, lentiles, Spices, Herbs, etc
<b>Dimensions (L*W*H)</b>	700*1500*1050mm



## ECOPRO EPC30 CASSAVA PROCESSING MILL

Ecopro EPC30 is a Cassava processing machine that grates and crushes Cassava, and separates the fiber from the slurry starch for the production of local staple food like Garri. It can also be used to process Tigernut (Kunu Aya), Corn starch (Pap/ogi), Date drink, Sugarcane juice etc.

This machine is made up of food grade stainless steel and centrifuge sieve, self-priming parts, mesh, main case, case frame and other parts.

### SPECIFICATIONS

<b>Power</b>	3000w
<b>Dimension</b>	650*420*800mm
<b>Applicable materials</b>	Cassava, Corn, Millet, Sugarcane, etc
<b>Production Capacity</b>	500-700kg/h







## ECOPRO EPC40 MULTI-FUNCTION THRESHER

EPC40 Multi-function Thresher is a multifunctional machine that can thresh different grains, like Millet, Sorghum, Beans, Corn and Soybeans. It is designed to thresh large capacity of grains at high speed.

### SPECIFICATIONS

<b>Power Rating</b>	220v/50Hz, 2.2Kw
<b>Production</b>	400-800kg/h
<b>Consumption</b>	1.3kwh/h
<b>Applicable materials</b>	Corn, Wheat, Beans, Soyabeans, Millet, Guniea Corn
<b>Dimensions (L8*W*H)</b>	820*580*1020mm



Corn



Wheat



Millet



Soyabean



## ECOPRO EPSA SPICE AND HERB GRINDER

The food grade stainless steel grain grinder is characterized by being highly efficient energy-saving, small in size, light, and easy to operate.

This pulverizing machine is suitable for agricultural products processing, herbs, Coffee, wheat, Millet, Guinea corn, Pepper, soybeans etc. and powder processing.

It just takes only 10-15 seconds to grind coffee beans completely to powder.

### SPECIFICATIONS

<b>Motor</b>	220v, 2kw, 1400 r/min
<b>Production</b>	25000 r/min
<b>Consumption</b>	1.3kwh/h
<b>Applicable materials</b>	Wheat, Rice, Corn, Herbs, Coffee beans, Soyabeans, etc.
<b>Dimensions (L*W*H)</b>	5.5*5.5*12.8 inch



Corn



Wheat



Rice



Soyabean



## PERFORMANCE



Corn



Rice before milling



Rice Dehusk





W W W . E N E R G Y E X C E L L . C O M



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1st Floor, Theodak Plaza, Central Area, Abuja



09040354295, 0909699969, 08036888279