



**Productive
Solar
Solutions**

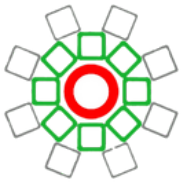
supporting rural
development

Product Catalogue 2024



www.productivesolarsolutions.com

sales@productivesolarsolutions.com



**Productive
Solar
Solutions**

- Maize Mill (Posho Mill Grade 2)
- Rice Mill / Maize Huller
- Combined Hammer Mill and Huller
- Chaff Cutter
- Grinder
- Maize Thresher

promoting agricultural
mechanisation and renewable energy



Productive Solar Solutions

Our offerings encompass AC and DC format machines engineered to endure and thrive in the rigors of farm and food processing activities.

They are user-friendly and repairable, making them exceptionally convenient for remote users.

At PSS, we don't just offer machinery; we offer sustainable solutions for modern agriculture.

Our machines are designed to be easy to use, robust, and energy-efficient, making them perfect for various applications.

Whether you are a small-scale farmer, a food processor, a Self-Help Group or an NGO focused on agricultural development.

Our products are tailored to meet your needs.

Join us in driving sustainable agriculture and empowering communities with innovative, eco-friendly machinery.

Please contact us to learn more about our products and how they can transform your agricultural endeavors.



Maize Mill (Posho Mill Grade 2)



Features

- A powerful machine enabling fine milling, delivering top-quality Grade 2 flour from a wide range of grains, e.g., maize, millet, sorghum, wheat, spices, soya beans, etc...
- Designed for ease of use, can be operated by anyone irrespective of technical level
- Compatible with single-phase domestic electric supply, consuming minimal power
- Parts of the machine in contact with grain are made of Stainless steel since it is corrosion resistant, durable, strong, chemically inert, and improves hygiene and cleanliness
- Ideal for small-scale businesses, schools, NGO projects, Self-Help Groups, and small-scale farmers

Machine Parameters

- Production Capacity: 80-250kg/hour (rates depend on grain type, moisture content, and fineness of flour required).
- Compact size: 1050mm X 340mm X 1050mm.
- Net weight: 45kg.

Power Parameters: DC Powered hammer mill

- Hammer mill uses a Brushless DC motor
- Power: 1.3 KW / 1.74 Hp
- Voltage: 48V
- Comes with 2 KW DC Motor controller
- Recommended solar system: 1KW solar panels with 4 batteries each 100Ah (Lead-Acid) OR 1 battery of 200Ah (Lithium-Ion)

Power Parameters: AC Grid Power

- Hammer mill uses an AC Electric motor
- Power: 2.2 KW / 3 Hp
- Voltage: 220/240 V
- Comes with a 7-10A DOL Starter and industrial socket and plug for power protection



Rice Mill / Maize Huller



Features

- A powerful machine enabling precise hulling of grains such as maize and conversion of paddy to rice
- Designed for ease of use, suitable for all skill levels
- 20 adjustable knob positions for precise hulling of different grains like maize, rice, sorghum, and more
- Compatible with single-phase domestic electric supply, minimizing power consumption
- Ideal for small-scale businesses, NGO projects, Self-Help Groups, and small-scale farmers.

Machine Parameters

- Production Capacity: Huller: 60-150kg/hour
- Compact size: 440mm X 320mm X 970mm
- Net weight: 45 kg

Power Parameters: DC Power

- Hammer mill uses an Brushless DC motor
- Power: 1.3 KW / 1.74 Hp
- Voltage: 48V
- Comes with 2 KW DC Motor controller
- Recommended solar system: 1KW solar panels with 4 batteries each 100Ah (Lead-Acid) OR 1 battery of 200Ah (Lithium-Ion)

Power Parameters: AC Grid Power

- Mill uses an AC Electric motor
- Power: 1.8kw/2.4hp
- Voltage: 220/240 V
- Comes with a 7-10A DOL Starter and industrial socket for power protection



Combined Hammer Mill and Huller (Posho Mill Grade 1 and 2)

Features

- Introducing the ultimate solution for producing Grade 1 and 2 flour from different types of grain, e.g., maize, millet, sorghum, wheat, spices, soya beans, etc...
- A powerful machine enabling precise hulling and fine milling for top-quality flour
- Designed for ease of use, suitable for both seasoned professionals and beginners
- 20 knob positions on the hulling part for precise adjustment of maize hulling, rice milling, and other cereal processing
- Compatible with single-phase domestic electric supply, ensuring high performance with minimal power consumption
- Ideal for small-scale businesses, schools, NGO projects, Self-Help Groups, and small-scale farmers



Machine Parameters

- Production Capacity: Huller: 60-150kg/hour ; Flour hammer mill: 50-250kg/hour (rates depend on grain type, moisture content, and fineness of flour required).
- Compact size: 1050mm X 340mm X 1050mm
- Net weight: 65kg.

Power Parameters: AC Grid Power

- Mill uses an AC Electric motor
- Power: 2.2 kW / 3 hp
- Voltage: 220/240 V
- Comes with a 7-10A DOL Starter and industrial socket and plug for power protection



Chaff Cutter

- Versatile Functionality:

Effortlessly handle a diverse range of animal feed, including plants, branches, napier grass, fresh grass, rice straw, wheat straw, and maize stalk

- Tailored Feed Processing:

Crafted to perfection, this cutter delivers finely chopped grass and plant pieces ideal for feeding various livestock, including cows, sheep, pigs, and chickens

Experience the convenience of tailored feed preparation with every use

- Customizable Output:

Easily modify the length of chopped forage to meet specific feeding requirements using the shift handle, ensuring precise results tailored to your livestock's needs

With unparalleled ease, achieve the optimal chopped size, ranging between 1-2cm

Efficient Performance:

Maximize productivity while minimizing energy consumption with our high-performance chaff cutter

Benefit from an exceptional chopping rate of 1,000kg/hour, all while reducing electric consumption, resulting in significant cost savings and improved overall efficiency

Net weight: 65kg



Power Parameters: DC Power

- Chaff Cutter uses an Brushless DC motor
- Power: 1.3KW / 1.74Hp
- Voltage: 48V
- Comes with 2 KW DC Motor controller
- Recommended solar system: 1KW solar panels with 4 batteries each 100Ah (Lead-Acid) OR 1 battery of 200Ah (Lithium-Ion)

Power Parameters: AC Grid Power

- Chaff Cutter uses an AC Electric motor
- Power: 2.2 KW / 3 hp
- Voltage: 220/240 V
- Comes with a 7-10A DOL Starter and industrial socket for power protection



Grinder

- Seamless Discharge Functionality:

Enjoy hassle-free material discharge directly from the grinding chamber, streamlining your production process and minimizing downtime

- Precision Grinding Performance:

Achieve the perfect texture with our precision Grinder, capable of effortlessly crushing grains and spices into an exceptionally fine flour

Enjoy the versatility of producing finely ground materials, ideal for various applications across industries, including spice production, ethanol plants (grains), and fruit juice production

- Efficient Single-Phase Power Usage:

Optimize power consumption with our Grinder, running effortlessly and efficiently on single-phase power, resulting in significant cost savings for your operations

- Easy Maintenance and Replacement:

Simplify maintenance tasks with our user-friendly design, allowing for easy replacement of the grinder blade and other parts



Power Parameters: DC Power

- Grinder uses an Brushless DC motor
- Power: 1.3 KW / 1.74Hp
- Voltage: 48V
- Comes with 2 KW DC Motor controller
- Recommended solar system: 1KW solar panels with 4 batteries each 100Ah (Lead-Acid) OR 1 battery of 200Ah (Lithium-Ion)

Power Parameters: AC Grid Power

- Grinder uses an AC Electric motor
- Power: 1.8kw/2.4hp
- Voltage: 220/240 V
- Comes with a 7-10A DOL Starter and industrial socket for power protection



Maize Thresher



Machine Parameters

- Production Capacity:
1500-2000kg/hour
- Compact size:
730mm X 300mm X 440mm
- Net weight: 20 kg

Thresher runs a 750 Watt/1 Hp AC motor

- Production Capacity: 1,500 – 2,000 kg/hour
- Voltage: 220/240V AC
- Recommended solar system: 1KW solar panels with 4 batteries each 100Ah (Lead-Acid) OR 1 battery of 200Ah (Lithium-Ion), 3KW Inverter

• Optimized Maize Threshing:

Experience superior threshing capabilities specifically tailored for dried maize, ensuring minimal breakage of both maize and cob

Our Thresher is engineered for exceptional performance, guaranteeing a seamless and efficient threshing process

• User-Friendly Operation:

Simplify your maize processing tasks with the user-friendly design of our Thresher.

The operator places complete maize into the machine, allowing it to swiftly and efficiently separate maize from the cob, eliminating the hassle from your daily operations

• Advantageous for Maize Farmers:

Maximize productivity and streamline your maize harvesting operations with our Thresher, offering significant benefits for maize farmers

Enjoy increased efficiency and reduced labor, ultimately enhancing your overall agricultural output and profitability.



**Productive
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CONTACT US

Productive Solar Solutions Ltd

Unit 5, Bethsaida Industry Park, Nideri
Road, Kikuyu, Kenya

+254 798 000 222

sales@productivesolarsolutions.com
www.productivesolarsolutions.com