

SOLAR BLDC
PUMPING SOLUTIONS

Uratom[®]
ePower Pvt. Ltd.

GOLD STAR[®]
VENTURES



Lifting Water,
Growing Life



Hiramrut
Serving Solar Industry Since 1984

“ SAVE WATER WITH THE POWER OF SUN

Water is the most important and valuable natural resource on Earth. It sustains all life. There is no life without water. Water is not only important for human beings but for the entire ecosystem. Without enough water, the existence of humans, as well as animals, is next to impossible. After fresh air, water is the second most important natural resource for the survival of any living being.





WHO WE ARE ?

Uratom Solar is working on 'Renewable Energy' field since 1984, having more than 41 years of rich experience in solar solutions, "Hiramrut Group" is back with innovative products with impactful name (URATOM) Yes, Uratom EPower Pvt. Ltd. (UEPL) – AN ISO 9001: 2015 5 ISO 14001 certified company. Is one of the largest manufacturer in Gujarat for eco-friendly & pollution free renewable energy products like Solar water pump systems ,solar panel, electric bicycles,on grid windmills,solar floor mills UEPL is committed to manufacturer of quality, reliable, long life solar products for clean & green environment for next generation.

Uratom EPower Pvt. Ltd. Having a large working area of 18,210 Sq. Mtr., with automation well equipped factory premises, latest tools, technically perfect machineries, extremely qualified and technically sound engineers for well drawings and designs and having more than 75 qualified & well trained staff for marketing and services.

Having state-of -art production line supported by in-house research and development , UEPL ensure high quality with higher efficiency solar products for domestic, commercial as well a industrial purpose. Also Uratom Rooftop Inverters are widely used in India. Production, drawing & designing is prepared and finalized under stringent supervision of qualified engineers.

Uratom have all MNRE approved solar pumps One of the prestigious project have done with joint coloration of German & Indian Govt. at Leh for space heating. Where solar energy store and make space heated at night hours.

Uratom are approved by MNRE as a channel partner for solar water pumping systems Solar Water Heater, Solar Rooftop and Solar Cooker Company have Four branches in India at Ahmedabad, Aurangabad, Roorkee & Durgapur. Uratom has wide dealer network in Gujarat, Rajasthan, Maharashtra, Chhattisgarh, Madhya Pradesh, Karnataka, Andhra Pradesh, Delhi, Haryana, Himachal Pradesh, Punjab and Jammu & Kashmir & West Bengal.



I OUR MISSION

We intend to promote use of solar energy by...

- Developing and delivering innovative solar solutions.
- Making the solutions accessible, viable and affordable.
- Achieving and enhancing complete customer satisfactions.

I OUR VISION

Creating sustainable and eco-friendly future for our Mother Earth by optimum use of solar energy.

I QUALITY POLICY

We are committed to achieve customer satisfaction by product quality of solar water heater and solar lighting systems, also committed to minimize adverse impact arising due to products & manufacturing processes on employees & environment.

We are committed to comply our integrated management system as per requirements of international standards & applicable legal requirements.

We will do continual improvement in integrated management system by preventing pollution & fulfilling quality objectives, targets, programs and legal requirements.

SOLAR SUGARCANE JUICER



DESCRIPTION

Uratom has specially design sugarcane juicer for Commercial Purpose. This sugarcane juicer especially thankful in which areas there is no lighting facilities. Used BLDC Induction motor set has 30% higher energy efficiency then Conventional ac induction motor set.

- Sugarcane juicer is special design with stainless steel for longer life
- Use of high grade CRNO stamping for higher efficiency
- Use of NdFeb neodymium magnet with NICKLE and marine grade coating for corrosion free long life
- NEMA motor coupling

TECHNICAL SPECIFICATION OF MOTOR

- | | | |
|-------------------|---------------------------|------------------------------------|
| • BLDC/PMSM Motor | • POWER: - 0.5 HP /400 W | • Weight: 45 KG |
| • 1500 RPM | • Volt/Frequency: 36 V DC | • Crushing / Capacity: 85 ltr/hour |

FEATURES

- Juice is extracted completely in single crushing. No second crushing required.
- Machine size & weight very compact, so move easily one place to another.
- Used BLDC motor so power consumption is very economical.
- Very simple and easy to operate, anyone can easily operate it, even a child can easily operate it.
- Crushes 130 Kg sugarcane in 1 Hour giving 390+ Glasses of juice each of 200ml.
- All contact parts made of high grade material.
- No maintenance required except regular cleaning. Very easy to clean.
- Machine is completely safe to operate.

SOLAR STONE FLOUR MILL



DESCRIPTION

Our Solar + Electric Flour Mill Machine is available in 1–2 HP, 3–5 HP, 6–8 HP, and 9–10 HP variants, designed to suit domestic, commercial, and industrial needs. The machine operates on solar power with electric backup, offering single-phase options for smaller models and three-phase support for higher capacities.

The grinding capacity ranges from 8–20 kg/hr in the 1–2 HP model to 130–200 kg/hr in the 9–10 HP model. It features natural emery to industrial-grade emery stones, with stone sizes from 8 inches up to 20 inches, ensuring efficient and consistent grinding performance.

The fineness is adjustable from fine to coarse, making it suitable for wheat, rice, maize, pulses, millets, and multi-grain applications. Solar panel requirements range from 1.5 kW to 10 kW, with inverter capacity from 2 kW to 10 kW and battery backup between 4 kWh and 20 kWh depending on the model.

Built with MS body construction, reinforced frames, and heavy-duty structures, the machine includes safety features such as overload protection, safety guards, and emergency stop options in higher models, ensuring durability and safe operation.

Parameter	2 HP	3 HP	5 HP	7.5–10 HP
Motor Power	1.5 KW	2.2 KW	4.0 KW	5.5 – 7.5 KW
Power Type	Solar + Electric	Solar + Electric	Solar + Electric	Solar + Electric
Motor / Type	AC / BLDC	AC / BLDC	AC / BLDC	AC / BLDC
Grinding Capacity (kg/hr)	20	25	60	100 – 200
Grinding Type	Natural Stone (Emery)	Natural Stone (Emery)	Heavy Duty Emery Stone	Industrial Emery Stone
Stone Size (Diameter)	8 – 10 inch	12 – 14 inch	16 – 18 inch	20 inch
Fineness Adjustment	Adjustable (Fine to Coarse)	Adjustable (Fine to Coarse)	Adjustable (Fine to Coarse)	Adjustable (Fine to Coarse)
Solar Panel Requirement (kW)	2	3	5	7 – 10
Inverter Capacity (kW)	2.2	3.5	5	7.5 – 9
Battery Backup (kWh)	4 – 6	6 – 10	10 – 15	15 – 20
Suitable Grains	Wheat, Rice, Maize	Wheat, Rice, Maize, Pulses	All Grains & Millets	Commercial Multi-Grain Use
Construction	MS Body with Stone Chamber	Heavy Duty MS Body	Reinforced MS Frame	Industrial Heavy Duty Structure
Safety Features	Overload Protection	Overload + Safety Guard	Overload + Safety Cover	Overload + Emergency Stop

SOLAR CHAFF CUTTER



DESCRIPTION

The Solar Chaff Cutter is available in 1–1.5 HP, 2–3 HP, and 4–5 HP models, powered by Solar + Electric support. The smaller model operates on single phase, while higher variants support single or three phase and fully three phase systems, making it suitable for small farms to large dairy operations.

The cutting capacity ranges from 200–500 kg/hr in the 1–1.5 HP model to 1000–1500 kg/hr in the 4–5 HP model. It features high carbon steel blades (2–4 blades depending on model) and offers adjustable cut size from 6–25 mm for uniform fodder cutting.

Equipped with manual, double roller, or heavy-duty roller feed mechanisms, the machine ensures smooth and continuous feeding. Solar panel requirements range from 1.5 kW to 3.5 kW, with inverter capacity between 2–5 kW and battery backup from 4–8 kWh depending on the model.

Built with MS body and reinforced MS frame construction, the Solar Chaff Cutter is designed for durability and long-term use. Safety features include blade guards, safety covers, and emergency stop systems in higher models, ensuring safe and efficient operation.

Parameter	2 HP	3 HP	5 HP
Motor Power	1.5 KW	2.2 KW	4 KW
Power Type	Solar + Electric	Solar + Electric	Solar + Electric
Motor / Type	AC / BLDC	AC / BLDC	AC / BLDC
Cutting Capacity (kg/hr)	200 – 500	500 – 1000	1000 – 1500
Blade Type	High Carbon Steel (2–3 blades)	High Carbon Steel (3–4 blades)	Heavy Duty Hardened Steel (4 blades)
Cut Size Adjustment (mm)	6 – 25	6 – 25	6 – 25
Feed Mechanism	Manual / Roller Feed	Double Roller Feed	Heavy Duty Roller Feed
Solar Panel Requirement (kW)	2	3	5
Inverter Capacity (kW)	2.2	3.5	5
Battery Backup (kWh)	4 – 5	5 – 6	6 – 8
Suitable Fodder	Grass, Straw	Grass, Maize, Hay	Grass, Maize, Sugarcane Tops
Construction	MS Body	Heavy Duty MS Body	Reinforced MS Frame
Safety Features	Blade Guard	Blade Guard + Safety Cover	Full Safety Guard + Emergency Stop

SOLAR THRESHING MACHINE



DESCRIPTION

The Solar Threshing Machine is designed to deliver high-performance threshing for large-scale agricultural and commercial operations. With an impressive production capacity of 1500–2000 kg per hour, the machine enables farmers and agri-processing units to handle large volumes of crops quickly and efficiently. Its powerful system ensures fast, consistent, and continuous output, making it highly suitable for demanding field conditions.

Powered through a solar-supported energy system, the machine uses four 500W solar panels to generate clean and renewable power. This setup significantly reduces dependency on grid electricity and lowers operational costs. In addition, the machine provides up to 4 hours of battery backup per charge, ensuring reliable performance even in areas where electricity supply is limited or during temporary power interruptions.

The machine operates within a power range of 1.0–20 HP, allowing it to handle heavy-duty threshing tasks with stability and efficiency. Its robust design ensures smooth crop separation while maintaining consistent throughput during long working hours.

One of the key advantages of this threshing machine is its portable and movable design. Unlike traditional fixed machines, it can be easily transported and repositioned according to field requirements. This makes it extremely practical for on-field threshing work, allowing farmers to process crops directly at the harvest site and reduce the need for additional transport.

Overall, the Solar Threshing Machine combines renewable solar power, high production efficiency, portability, and durable construction, making it an ideal solution for modern farming operations seeking cost-effective, energy-efficient, and reliable threshing performance.

Parameter	Specification
Product Name	Solar Threshing Machine
Production Capacity	1500 - 2000 kg hour
Power Range	1.0 - 20 HP
Solar Panels	2 Panels (500W)
Battery Backup	Up to 4 Hours per Charge
Machine Type	Portable & Movable
Usage	Large-scale Agricultural & Commercial Operations
Operation	Fast, Efficient & Continuous Output
Application	On-field threshing work

SOLAR HULLING MACHINE



DESCRIPTION

The Solar Hulling Machine is designed to provide efficient and reliable grain processing for small to medium-scale agricultural operations. With a production capacity of 60–150 kg per hour, the machine is well-suited for daily processing needs in farms, small processing units, and rural enterprises. It ensures consistent output and smooth performance, helping users process grains effectively without frequent interruptions.

The machine operates using a solar-powered system equipped with 4 solar panels (500W), allowing it to generate clean and renewable energy for operation. This significantly reduces electricity costs and makes the machine ideal for areas where grid power is limited. Additionally, it offers up to 2 hours of battery backup per charge, ensuring the machine can continue working even during temporary power outages. When connected to solar panels, the system

can run throughout the day, supporting continuous and energy-efficient processing.

Powered by a 2000W DC motor driver, the machine delivers stable and powerful performance while maintaining energy efficiency. The motor system ensures smooth operation during long working hours, helping maintain productivity and consistent grain quality.

Built as a stationary machine with a heavy-duty MS (mild steel) body, it provides strong structural stability and durability for long-term use. The robust construction allows the machine to withstand regular operation in demanding agricultural environments while maintaining reliable performance.

Overall, the Solar Hulling Machine combines solar energy efficiency, stable motor performance, durable construction, and practical capacity, making it an ideal solution for farms, rural processing units, and small-scale agricultural enterprises seeking a cost-effective and sustainable processing system.

Parameter	Specification
Product Name	Solar Hulling Machine
Production Capacity	60 -150 kg hour
Power Range	1.0 - 20 HP
Solar Panels	4 Panels (500W)
Battery Backup	Up to 2 Hours per Charge
Machine Type	Stationary Machine
Construction	Heavy Duty MS Body
Application	Small to Medilum Scale Processing
Usage	Farms, Processing Units, Rural Enterprises
Operation	Continuous & Energy Efficient



OFFICE & FACTORY

URATOM EPOWER PVT. LTD.
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