

HEAVY-DUTY TRACTOR ATTACHMENTS

EARTH AUGER FOR SOLAR INSTALLATION - TRACTOR MOUNTED SOLAR PILE DRILLING MACHINE

High-speed foundation pile drilling for ground-mounted solar power plants — 300 to 400 holes/day with zero manual fatigue.

PowerAgro Industries
135, Mubarikpur, Behind Reliance Petrol Pump, Khatauli

+91-9548403434
poweragroindustries.com

PRODUCT OVERVIEW

The PowerAgro Solar Earth Auger is a heavy-duty, tractor-mounted PTO and hydraulic drilling attachment engineered specifically for solar EPC contractors, module mounting structure (MMS) installers, and civil infrastructure projects across India. It drills precise 4 to 9 feet deep foundation holes with diameters from 9 to 18 inches in approximately 40 seconds per hole — replacing slow, high-maintenance handheld petrol augers and expensive excavator piling rigs.

Available in two commercial models:
1. Solar Standard Non-Jack Model (₹60,000): Category I/II 3-point linkage mechanical PTO drive. Drills up to 4-5 ft deep with 9 to 14-inch augers. Optimal for standard ground-mount MMS pipe/pile foundations in loamy, sandy, and mixed soils across Rajasthan, Gujarat, and Madhya Pradesh.
2. Solar Heavy-Duty Hydraulic Jack Model (₹1,20,000): Equipped with a heavy-duty double-acting hydraulic ram that exerts downward penetration thrust into hard-packed murum, rocky layers, and expansive Black Cotton soil. Drills up to 8-9 ft deep and up to 18-inch diameter for large concrete footings, inverter room foundations, and transmission line poles.

Compatible with 35-65+ HP tractors (Mahindra, Swaraj, Sonalika, New Holland, John Deere, Powertrac, Massey Ferguson) without tractor modifications. Manufactured in Khatauli, Uttar Pradesh with a 6-month warranty, GST invoicing for EPC input tax credit, and express pan-India freight delivery.







INDUSTRIAL PERFORMANCE HIGHLIGHT
High-speed foundation pile drilling for ground-mounted solar power plants - 300 to 400 holes/day with zero manual fatigue.

KEY FEATURES

» Massive Project Timeline Compression
Complete 300-400 holes daily per machine. On a 1 MW solar project (~600 pile foundations), finish site drilling in 1.5 to 2 days instead of 14-18 days with manual crews.

» Rigid Vertical Alignment for MMS Piles
Rigid 3-point tractor linkage keeps hole verticality within ±25 mm of surveyed marking pegs, eliminating lateral torque drift and costly structural rework.

» Dramatic Labour Cost Savings
Replaces 6-8 manual labourers and temperamental handheld petrol augers with just 1 tractor operator and 1 ground alignment helper, reducing foundation civil costs by up to 70%.

» Forced Hydraulic Downward Penetration

Hydraulic Jack model delivers downward hydraulic cylinder thrust to pierce hard crust, dry murum, and black cotton soil where handheld tools bounce and overheat.

» Interchangeable Augers & Rock Teeth

Easily swap between 9, 12, 14, and 18-inch flightings, or equip tungsten-carbide bullet rock teeth for gravelly and rocky strata.

TECHNICAL SPECIFICATIONS

BRAND	PowerAgro Industries
MODEL NUMBER	PA-SA-STD-NJ / PA-SA-HD-HJ
APPLICATION / INDUSTRY	Ground-Mounted Solar Power Plants, Solar MMS Foundations, Helical & Bored Concrete Piling, Substation & Inverter Room Footings
DRILLING DEPTH	Up to 4-5 ft (Standard Non-Jack) | Up to 8-9 ft (Hydraulic Jack Model)
HOLE DIAMETER	9 to 14 inches (Standard) | Up to 18 inches (Hydraulic Jack)
DRILLING CYCLE SPEED	Approx. 40 Seconds per Hole (Soil Dependent)
DAILY OUTPUT	300 to 400 Holes / Day (8-Hour Shift with 1 Operator + 1 Tractor Driver)
COMPATIBLE TRACTOR HP	35 HP to 65+ HP (540 PTO RPM, Standard 3-Point Linkage)
SUPPORTED TRACTOR BRANDS	Mahindra, Swaraj, Sonalika, New Holland, John Deere, Powertrac, Farmtrac, Eicher, Massey Ferguson
OPERATION TYPE	PTO Driven Heavy-Duty Bevel Gearbox with Double-Acting Hydraulic Downforce (HJ Model)
MOUNTING SYSTEM	Quick Attach Cat I & II 3-Point Linkage - No Tractor Modification Required
MATERIAL & BUILD	Heavy-Duty Hardened High-Tensile Steel Frame with Replaceable Cutting Teeth and Pilot Point
SOIL COMPATIBILITY	Sandy, Loamy, Expansive Black Cotton Soil, Compacted Clay & Murum Strata
WARRANTY	6 Months Comprehensive on Gearbox and Hydraulic Components
COUNTRY OF ORIGIN	Made in India
AVAILABILITY	In Stock - Pan India Delivery Shipped Directly from Factory

AVAILABLE MODELS & CONFIGURATIONS

PowerAgro Solar Standard Post Hole Digger (Non-Jack PTO Model) PA-SA-STD-NJ Rs. 70,000

Cost-effective mechanical PTO tractor auger for standard ground-mounted solar projects. Drills 3 to 5 ft pile foundations in 40 seconds per hole in loamy, sandy, and mixed soils.

KEY SPECIFICATIONS & FEATURES

- Drilling Depth: Up to 4-5 Feet (1.2-1.5 m) - covers 80% of standard solar MMS pile specifications
- Auger Diameter: Interchangeable 9-inch (230 mm) and 12-inch (305 mm) high-tensile steel flightings
- Direct 540 PTO shaft drive with heavy-duty oil-bathed bevel gearbox
- Mounts on standard 3-point linkage (Cat I & II) on any 35-45+ HP tractor
- Replaceable hardened cutting teeth and spiral pilot bit for rapid centering
- Achieves 300-400 holes per 8-hour shift with low fuel consumption (approx. 2.5-3.5 L/hr)
- Zero external hydraulic setup required - 100% mechanical reliability on remote sites

OPTIONAL UPGRADES

+ Best for ground-mount solar plants in sandy, loamy, and mixed soils (Rajasthan, Gujarat, MP)
+ Ready stock with express pan-India dispatch and GST input tax credit invoice

PowerAgro Solar Heavy-Duty Hydraulic Jack Earth Auger PA-SA-HD-HJ Rs. 1,30,000

Industrial-grade solar foundation drilling machine with double-acting hydraulic ram. Delivers positive downward pressure for deep pile holes up to 8-9 ft in hard, compacted murum or expansive black cotton soils.

KEY SPECIFICATIONS & FEATURES

- Drilling Depth: Up to 8-9 Feet (2.4-2.7 m) for deep embedment and tall MMS structures
- Auger Diameter: Supports heavy 12, 14, 16, and 18-inch (457 mm) large-bore augers
- Equipped with high-tonnage double-acting hydraulic cylinder for forced downforce penetration
- Plugs into tractor auxiliary hydraulic remote valves with high-pressure braided hoses included
- Heavy-duty cast steel gearbox engineered for continuous high-torque drilling in murum and hardpan
- Compatible with 45-65+ HP tractors; drills a 6-ft hole in under 45 seconds
- Compatible with PowerAgro tungsten-carbide bullet teeth for stony and gravelly soil layers

OPTIONAL UPGRADES

+ Designed for EPC utility-scale solar farms, black cotton soil zones (Maharashtra, Telangana), and substation footings
+ Eliminates need for hiring expensive 20-ton excavator piling rigs on small-to-mid scale solar sites

ABOUT POWERAGRO INDUSTRIES

A LEGACY OF QUALITY, INNOVATION & TRUST SINCE 1968

Built on a strong family legacy since 1968, PowerAgro Industries delivers generations of expertise in agricultural and industrial machinery. Our journey began with our grandfather, who laid the foundation of a family-driven enterprise focused on tractor attachments such as pulleys. Today, the third generation continues this legacy, combining time-honored values with modern innovation.



> *"We don't just manufacture machinery; we carry forward a 55+ year family legacy of engineering integrity to empower the Indian farmer and contractor."*
>
> **— MD & Founder, PowerAgro Industries**

INDUSTRIES WE SERVE

- Agriculture
- Material Handling
- Brick Manufacturing
- Infrastructure

WHY CHOOSE US?

UNMATCHED DURABILITY
High-grade steel & heavy-duty parts for long operational life.

INNOVATIVE ENGINEERING
Precision design for max productivity & fuel efficiency.

COMPREHENSIVE SUPPORT
Complete after-sales service, spare parts & warranty support.

HIGHLIGHTS

- High-quality products
- Ethical business practices
- Transparent dealings
- Skilled professionals
- Flexible payment options
- Wide distribution network

CONTACT & ENQUIRIES

Address:
135, Mubarikpur, Behind Reliance Petrol Pump, Near Gud Mandi, Khatauli - 251201

Phone:
+91-9548403434

Email:
support@poweragroindustries.com

Website:
poweragroindustries.com

WEBSITE

WHATSAPP

EMPOWERING AGRICULTURE & INDUSTRY WITH RELIABLE MACHINERY SOLUTIONS

Serving thousands of satisfied farmers and industrial clients across India since 1968.