

HEAVY-DUTY TRACTOR ATTACHMENTS

TRACTOR MOUNTED TRENCHER ATTACHMENT

Rapid, uniform underground trenching for pipelines, cables & farm irrigation.

PowerAgro Industries
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PRODUCT OVERVIEW

The PowerAgro Tractor-Mounted Trencher Attachment is a heavy-duty, PTO-powered continuous chain ditcher engineered for Indian farmers, civil contractors, solar EPC firms, and utility infrastructure developers. Built to eliminate slow, costly manual trenching and oversized excavators, it connects directly to standard 45-75+ HP tractors via Category-II 3-point linkage.

Operating at standard 540 RPM PTO speed, the high-tensile alloy digging chain cuts clean, flat-bottomed trenches from 2.5 feet up to 6 feet deep, with customizable widths from 6 to 14 inches. An integrated heavy-duty planetary side auger deposits excavated spoil neatly along one side of the trench bed, leaving a pristine trench ready for pipe or conduit placement and effortless backfilling.

Drivetrain safety is guaranteed by a multi-disc slip-clutch PTO drive shaft and heavy-duty bevel reduction gearbox. Available with standard earth cup cutters or tungsten-carbide bullet rock teeth to tackle hard-packed clay, murrum, rocky soils, and roots. Compatible with Mahindra, Swaraj, Sonalika, John Deere, New Holland, Powertrac, and Farmtrac tractors with creeper gear or low ground-speed transmissions.

Manufactured with high-strength structural steel, hardened wear plates, and industrial anti-rust coatings at our factory in Khatauli, Uttar Pradesh. Supported by pan-India shipping, full spare parts availability, and 1-year warranty.





INDUSTRIAL PERFORMANCE HIGHLIGHT
Rapid, uniform underground trenching for pipelines, cables & farm irrigation.

KEY FEATURES

» Cuts Labor Costs by up to 85%
Replaces manual digging crews of 25+ laborers with a single operator-driven tractor implement.

» Clean, Uniform Trench Profiles
Produces uniform vertical trench walls and a flat, crumb-free bed ideal for pipe and cable bedding.

» Organized Spoil Dispersal
Heavy-duty side auger piles soil cleanly alongside the trench, reducing backfilling time and effort.

» Drivetrain Shock Protection

Multi-plate slip clutch protects tractor transmission and trencher gears from sudden underground obstacles.

TECHNICAL SPECIFICATIONS

BRAND	PowerAgro Industries
MODEL SERIES	TRN-Series (TRN-1200 / TRN-1800)
COUNTRY OF ORIGIN	Made in India
AVAILABILITY	In Stock / Made to Order
DELIVERY	Pan India Delivery (Direct from Factory)
WARRANTY	12 Months (Gearbox & Hydraulic Cylinder)
COMPATIBLE TRACTOR HP	45-75+ HP (with Creeper Gear or Low Ground Speed)
SUPPORTED TRACTOR BRANDS	Mahindra, Swaraj, Sonalika, John Deere, New Holland, Powertrac, Farmtrac, Eicher
MOUNTING TYPE	Standard 3-Point Linkage (Category II)
DRIVE SYSTEM	PTO Driven (540 RPM) with Heavy-Duty Crown Wheel & Pinion Gearbox
PTO OVERLOAD PROTECTION	Integrated Multi-Plate Friction Slip Clutch & Shear Pin
DEPTH CONTROL MECHANISM	Hydraulic Cylinder (Double-Acting) connected to Tractor Rear Spool Valve
TRENCHING DEPTH RANGE	Up to 3.5-4.0 ft (Standard) | Up to 5.0-6.0 ft (Heavy-Duty)
TRENCHING WIDTH RANGE	6 inches to 14 inches (150 mm to 350 mm) Adjustable
DIGGING SPEED	100 to 500 Meters / Hour (Subject to Depth & Soil Density)
CHAIN TYPE	Heavy-Duty High-Tensile Roller Chain with Hardened Bushings
CUTTER TEETH OPTIONS	High-Carbon Steel Cup Cutters / Tungsten-Carbide Bullet Rock Teeth
SPOIL CLEARANCE SYSTEM	Mechanical Heavy-Duty Side Screw Auger for One-Sided Dirt Deposit
FRAME CONSTRUCTION	Heavy-Duty Tubular & Plate Steel with Reinforced Stress Gussets
FINISH	Industrial Anti-Corrosion Primer & Polyurethane Enamel Finish
SOIL SUITABILITY	Alluvial, Loam, Sandy, Clay, Compacted Murrum & Light Stony Soils
CRUMB SCRAPER	Spring-Loaded Heavy-Duty Trench Crumber for Clean Bottom Finish
USAGE/APPLICATION	Agricultural Drip Irrigation, Cable Laying, OFC, Water Mains, Solar EPC, Drainage

AVAILABLE MODELS & CONFIGURATIONS

PowerAgro Agri-Flow Standard Irrigation Trencher PA-TRN-1200 Rs. 3,25,000

Heavy-duty tractor chain trencher designed for agricultural pipeline installations, drip irrigation mainlines, and general farm drainage up to 4 feet depth.

KEY SPECIFICATIONS & FEATURES

- Trenching Depth: Up to 3.5-4.0 Feet (1000-1200 mm)
- Trenching Width: 6 to 10 inches adjustable cutting width
- Tractor HP Requirement: 45 to 55 HP with creeper transmission
- Category-II 3-point linkage mounting with 540 RPM PTO drive
- High-tensile alloy digging chain with heat-treated cup cutters
- Integrated mechanical side auger for clean one-sided spoil clearance
- Spring-loaded crumber shoe for debris-free, flat trench bottom
- Slip-clutch protected PTO shaft prevents driveline shock

OPTIONAL UPGRADES

+ Ideal for PVC, HDPE, and underground drip irrigation pipes
+ Average output: 250-450 meters/hour in agricultural loam soils

PowerAgro TerraForce Heavy-Duty Pipeline & Utility Trencher PA-TRN-1800 Rs. 4,50,000

Industrial-grade deep trencher equipped with reinforced boom, dual cylinder hydraulic control, and tungsten-carbide teeth for commercial utility pipelines, OFC, and solar farm cabling up to 6 feet depth.

KEY SPECIFICATIONS & FEATURES

- Trenching Depth: Up to 5.0-6.0 Feet (1500-1800 mm)
- Trenching Width: 8 to 14 inches (200 to 350 mm) interchangeable chain
- Tractor HP Requirement: 55 to 75+ HP tractors with creeper/Vario gear
- Dual-cylinder hydraulic depth control via tractor remote spool valves
- Heavy-duty digging chain fitted with tungsten-carbide bullet rock teeth
- Heavy-duty cast steel reduction gearbox with dual-seal oil bath
- High-capacity continuous side-discharge screw auger
- Heavy-duty multi-plate friction slip clutch with shear pin backup

OPTIONAL UPGRADES

+ Engineered for municipal water supply lines, OFC, and solar DC cabling
+ Handles compacted murrum, hard dry clay, and stony soil conditions

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

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WEBSITE

WHATSAPP

EMPOWERING AGRICULTURE & INDUSTRY WITH RELIABLE MACHINERY SOLUTIONS

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