

### PIERCING TOOLS

#### Footage Tools



All Big Shots (pneumatic piercing tools) are CNC machined to exact dimensional tolerances from a solid billet of nickel chromoly steel and fully heat treated for superior strength and wearability. The pistons are designed to withstand high impact conditions, are wear resistant and treated with an anti-corrosive phosphate coating. Other features include an easily replaceable cartridge style shock absorber and a flexible air tube assembly to minimize internal deflection. 888.737.3668, [footagetools.com](http://footagetools.com)

#### HammerHead Mole

The HammerHead Mole Catamount easy-start piercing tool is a breakthrough design concept in pneumatic piercing tool technology. The new 2.5-, 3- and 4.375-inch feature "Smart Head" technology, based on proven downhole hammer technology, eliminates the need for a mechanical spring, a common source of failure in many tool designs. Its design also allows easy starting regardless of air pressure level. Reciprocating heads increase production in tough conditions but have a tendency to swim in softer, sandier soils. The new Catamount Smart Head design takes full advantage of reciprocating head technology by increasing production in both tough

and softer soils while reducing tool swim at any operating pressure. The redesigned tool body provides greater product life and all wear surfaces of the head are field replaceable. The patented POWER PORT quarter turn reverse, which pneumatically locks into forward and reverse, prevents accidental direction change during the bore. A patented tailbolt system for fast and easy field maintenance and feature wear rings eliminates metal-to-metal contact. 800.331.6653, [hammerheadmole.com](http://hammerheadmole.com)



#### Hudco Mfg.



With more than 25 years of experience, Hudco technology produces the highest quality piercing tools, parts and accessories. Hudco tools range from 2 inch to 10 1/4-inch in diameter to meet various customer applications. Hudco piercing tools travel under streets and roads with exceptional power while traffic flows uninterrupted. Contractors

who install cable, pipe and wire underground use Hudco tools because of their performance, reliability and low cost. 440.951.4040, [hudcomfg.com](http://hudcomfg.com)

#### TT Technologies



The Grundomat piercing tool is ideal for FTTH and telecom installations. Sixteen models, from 1 3/4 inches to 7 inches in diameter, are available for horizontal boring distances from 50 feet to 150 feet. Minimal operating space is

required and the tool serves as a complement and in many situations is an economical alternative to larger, more expensive directional drilling equipment. The Grundomat offers high impact power and is easily reversed during the bore. The tool's reciprocating stepped-cone chisel-head helps ensure accuracy in rocky soils. 800.533.2078, [ttechnologies.com](http://ttechnologies.com)



#### Astec Underground

Astec EarthPro Moles offer quick, simple and reliable options for trenchless installation of a wide variety of product pipes that are more cost-effective than traditional open trench installation methods. The pneumatic piercing tools are designed for short installations of small diameter pipe beneath driveways,

sidewalks and roads and require minimal disturbance to the surrounding landscape. Easy to use and requiring little maintenance, the tools can be stripped down onsite and reassembled in minutes. Powered by an air compressor, reciprocating heads increase the speed of penetration so jobs are accomplished quickly and accurately. Boring direction on certain models can be changed with a quick one-quarter turn of the hose whip. Available in stepped or smooth nose models, EarthPro Moles come in: 1 3/4-, 2 1/8-, 3- and 4-inch sizes. 800.527.6020, [astecunderground.com](http://astecunderground.com)

### Allied Construction Products



Allied Hole-Hogs open clean, compacted, self-contained tunnels for pipe, cable, conduit or wiring at the lowest cost per foot. Hole-Hogs come in a broad range of sizes (2.24- to 6-inch diameter) to match a wide range of applications including tunneling/moling, pipe pushing, pipe bursting and pipe pulling. Allied can also provide an equally broad assortment of application accessories like body expanders, pulling and pushing assemblies and nose wear covers. The Hole-Hog has only one moving part – the striker. Allied's patented quarter-turn reverse mechanism is easy to use and operate. The

threaded anvil and replaceable end-cap design allow for a trouble-free switch between various application accessories. Hole-Hogs are easy to service in the field, requiring few special tools or fixtures. Minimal labor and equipment is needed (1-2 men, a Hole-Hog, a shovel and an air compressor). 800.321.1046, [alliedcp.com](http://alliedcp.com)

### Ditch Witch

Pierce Airrow II pneumatic piercing tools are designed to perform short- to medium-range compaction boring projects, pipe ram-



ming and pushing and pipe pulling. Strength and simplicity are the keys to these tools' productivity. Constructed of single-piece, high-quality Aircraft quality steel and containing fewer moving parts than the competition, Pierce Airrow II piercing tools are low-maintenance units that are designed to provide years of reliable service. The seven models range from 2.25-inch to 4.25-inch outside diameter, with or without threaded heads, and offer effective trenchless solutions for a wide range of underground construction professionals, including utility and general contractors, municipality workers and telecommunications contractors. 800.654.6481, [ditchwitch.com](http://ditchwitch.com)

# Equipment

## spotlight

### COMPACT TRACK LOADERS

#### Vermeer

Ideal for a wide range of applications, the Vermeer S600TX maneuvers easily around tough worksites and reduces workload in the process. A 16 gallon fuel tank is the largest in its class, eliminating the need for refueling during the typical workday. The S600TX is available with a gas or diesel engine option and also comes with two track options (7 or 9-inch) to help match your worksite needs. 888.837.6337, vermeer.com



#### Bobcat

The new roller suspension system is now available as an option on the Bobcat T250 and T300 compact track loaders, in addition to the T320. Bobcat has also improved the design of the solid-mount undercarriage on the T250, T300 and T320. The new roller suspension system utilizes all-steel components to increase operator comfort without sacrificing durability. The rollers are suspended by high-strength steel leaf springs to reduce vibration and improve operator comfort. Less steering-lever effort is required to turn the loader, accomplished by raising the track idlers on the Bobcat roller suspension system. The Bobcat roller suspension system does not require greasing or adjusting. The rollers are permanently sealed and lubricated. The rollers are made of forged steel and the springs are shot-peened steel for strength and durability. The drive motor and hydraulic lines of the Bobcat roller suspension system are kept in fixed positions. 866.823.7898, bobcat.com



#### Case CE

The Case 400 Series 3 line of compact track loaders feature clean-burning, Tier III certi-



fied engines, with increases in horsepower. Pilot controls are now standard for all four machines, the 420CT, 440CT, 445CT and 450CT, and a new cab, with improved visibility and ergonomics. The 420CT and 445CT Series 3 models features Case 3.2-liter turbocharged engines, while the 440CT and 450CT Series 3 models are powered by a 4.5-liter turbocharged Case engine. The new cabs feature increased headroom and a wider lap bar, along with improved forward, side, rear and overhead visibility. A suspension seat is standard, and a new cushioned lap bar with arm rest and new ergonomically designed control handles provide more comfortable operation. An improved oil and fuel filter access helps avoid spills and speed up oil changes. A wide-fin side-by-side radiator and oil cooler improves cooling of the machines. All models are built to start in colder temperatures. A larger, 1125 CCA battery (32 percent more powerful than previous models) and a grid heater are standard. Case pilot controls are available from the factory in either "H" or ISO patterns. Case compact track loaders incorporate a dozer-style undercarriage with fewer moving parts. An angled track frame and material scrapers decrease mud and material buildup. Steel-embedded tracks roll on rubber instead of steel for a longer-lasting track and a smoother ride. 262.636.6011, casece.com

#### New Holland

The C175 compact track loader has 2,200 pounds rated operating capacity and an operating weight of 7,535 pounds. Having an overall width of 71.1 inches over the tracks, a length of 129.5 inches and a ground pressure of 5.3 psi, the C175 can get into hard-to-reach areas with little disturbance to the working environment and will fit on most standard trailers. Operator comfort has been improved with a deluxe cab. A large, convex glass door



opens a full 90 degrees for easy entry and exit. The see-through roof panel provides a clear view to the bucket or attachment – even when positioned at full height. Like the side windows, the optional cab top window can be easily removed without tools for cleaning. The backlit sight-at-a-glance instrument panel features logical labeling for easy operation and is vertically mounted for better visibility. Operator controls are also vertically positioned for easy access and a better view. newhollandconstruction.com

#### John Deere

The Deere CT 322 and CT 332 compact track loaders feature two-speed transmission, hy-



draulic Quik-Tatch, a self-leveling bucket, high-flow hydraulics and a comfortable HVAC system. The instrumentation panel displays operating information and features sealed, easy-to-operate rocker switches. The CT 332 offers servo controls and an ergonomically shaped armrest for finger light efforts with maximum control. Deere's patented true vertical lift boom provides greater stability in the work zone (ground level to six feet) with superior reach at full lift height for center load placement during truck loading operations. Large diameter idlers enhance the ride and durability of the steel reinforced rubber track, while a patented undercarriage design allows the front

idler and front roller to move in tandem for a smoother ride. Additionally, lifetime seals and durable all-steel double flange rollers and idlers ensure a longer-lasting undercarriage that will not deteriorate and degrade over time like rubber-coated rollers. Both models offer daily simplified maintenance and generous oil change intervals (500 hours when Plus-50 oil and Deere oil filters are used) lowering daily operating costs. 800.503.3373, [deere.com](http://deere.com)

### Ditch Witch

The SK650 mini track loader is equipped with a low-maintenance, 31-hp Kubota turbo diesel engine that directs 20-net hp to the attachment. Both the fuel and hydraulic tanks are mounted on the outside of the machine's frame. With an eight-gallon capacity, most jobs can be completed without stopping to fuel. Quick-disconnect attachment fittings enable attachments to be changed with the hydraulic system under pressure, which speeds productivity. The SK650 is equipped with a foot pedal aux-



iliary control that allows the operator to drive the attachment by foot, freeing up his hands to control depth and ground speed. A float section on the auxiliary valve is also included to enable the operator to make more efficient use of attachments. Pilot control valves for ground drive provide responsive steering with little or no vibration through the control handles, minimizing operator fatigue. 800.654.6481, [ditchwitch.com](http://ditchwitch.com)

### Caterpillar

Three models of compact track loaders, the

279C, 289C and 299C, join Caterpillar's line of rubber-track loaders. The new loaders feature durable, steel embedded track and steel undercarriage components for maximum life. The new machines deliver solid traction and reduced wear on sites with sticky, rocky soils. The fully suspended undercarriage employs four independent torsion axles for a superior ride and excellent bucket load retention. Class leading track-on-ground of almost 70 inches provides good flotation and traction, low ground pressure and long track life. All three mod-



### COMPACT TRACK LOADERS

els feature two-speed drive systems, with a maximum speed of 8.5 miles per hour. The electro-hydraulic joystick control of the drive motors delivers straight-line tracking, and electronic torque management. Caterpillar exclusive drive motor seal guards extend the lives of seals and final drives. The new models have rated operating capacities of 3,200, 3,850 and 4,150 pounds, at 50 percent of tipping load. Net-horsepower ratings are 82 for the 279C and 289C, and 90 for the 279C and vertical for the 289C and 299C. 309.675.1000, [catrequests@cat.com](mailto:catrequests@cat.com)

#### ASV Inc.

The 71-hp PT-70 is a high performance loader with premium features and exceptional value. It works productively in a wide range of applications using a patented Posi-Track undercarriage technology with suspension for maximum traction, flotation and operator comfort. With a narrow machine width of 66 inches, the PT-70 can easily maneuver



and operate in confined or congested work sites. Its purpose-built chassis was designed to be a heavy duty machine with good balance and performance within a compact and durable package. A spacious comfortable operator station with an adjustable contour seat allows the operator to work in comfort all day long. 800.346.5954, [asvi.com](http://asvi.com)

#### Takeuchi

The TL250 is a 92-hp unit with an operating weight of approximately 12,000 pounds. The undercarriage incorporates a

welded track frame mounting system and structural cross members integrated into the framework results in a stronger chassis. Hydrostatic drive system with double reduction planetary final drive offers the highest tractive force in its class at 13,770 pounds. The TL250 features a large operator's compartment, with a six-way adjustable seat and pilot-operated joystick controls, providing precise, fingertip control of loader and travel functions. 706.693.3600, [takeuchi-us.com](http://takeuchi-us.com)

