



Ditch Witch Equipment Solutions

Fiber Deployment



One Company For All Of Your Fiber Equipment Needs.

Demand for fiber deployment continues to grow, and with it the need for a greater variety of equipment solutions—especially since more neighborhood loops are being installed in congested urban and heavily landscaped areas.

Fortunately for the owners and the contractors who build fiber networks, the Ditch Witch® organization—one of the most innovative and diverse companies in the underground construction industry—offers a full line of equipment for every type of underground broadband communications installation.

Ditch Witch products are recognized around the world for their advanced design, rugged construction, long-term durability, ease of use, and reliability. They are also known for their surprisingly quiet performance. From HDD machines to vacuum excavation systems, Ditch Witch equipment is designed to operate in congested urban and residential areas with minimal disturbance to businesses and homeowners.

When fiber-deployment projects specify underground construction, Ditch Witch equipment is your best choice.



MT12 MicroTrencher

The Ditch Witch MT12 MicroTrencher represents one of the fastest and most efficient methods for installing fiber-optic cable in urban environments. With its specially designed saw blades, the MT12 quickly and cleanly slices through asphalt

to create the ideal trench for this application—from less than one inch (2.5 cm) to 1.25 inches (3.2 cm) wide, and up to 12 inches (30.5 cm) deep—in a single pass. This narrow, shallow trench enables contractors to install fiber above existing utilities, so there is less disruption of surrounding infrastructure, which saves time and money. Trenching depth is mechanically adjustable, and a hydraulically adjustable tilt angle helps maintain a vertical trench on uneven surfaces. The MT12 can be equipped with a special vacuum excavation system that removes spoils and dust as you saw, or onboard chutes that deposit spoils along the side of the trench, for easy cleanup.

costs. Large, powerful Ditch Witch drills can install several hundred feet of large-diameter duct. Compact models are suited for short runs of small-diameter conduit or cable, and can fit in the narrow confines of most yards and front rights-of-way while providing enough power to perform the job. HDD equipment is often used for “bore-and-stitch” installations, in which the operator drills from one end of the block to the other, intercepting two or more pits placed along the block in the path of the bore.



Horizontal Directional Drilling Systems

Ditch Witch horizontal directional drilling (HDD) equipment offers one of the easiest, fastest, and most economical ways to install underground fiber. With HDD equipment, contractors can drill underneath roads, streets,

driveways, and other surface obstacles with minimal damage to surface improvements, lawns and landscapes, eliminating expensive restoration



Piercing Tools

Now available at Ditch Witch dealerships, HammerHead Mole® pneumatic piercing tools are among the most productive tools available for short- to medium-range compaction boring projects under driveways, sidewalks, roads and other

surface improvements. The hardest- and fastest-hitting piercing tools in their class, they are ideal for stitch-boring applications that provide neighborhood loops for passing houses, and for installing service lateral lines to houses. Stitch boring with pneumatic boring tools is popular among contractors because of the low operating cost per foot of installation, very reasonable equipment investment, and ease of use. From an equipment standpoint, this is the least-expensive method of installing short runs of underground duct or cable. With stitch boring, pits are dug about 25 to 40 feet (7.6 to 12.2 m) apart, and piercing tools are used to stitch or connect the bore from pit to pit.



Vibratory Plows

Vibratory plowing is one of the most cost-effective ways to run fiber and/or cable conduit to houses. Plowing is fast, limits surface damage, and can reduce restoration costs. Ditch Witch® vibratory plows include the walk-behind 100sx and 410sx

and the ride-on 420sx. The versatile plow blade of the compact 100sx can bury pipe and cable with cover of 6 to 12 inches (150 to 305 mm) and install communications lines up to one inch (25 mm) in diameter. The 410sx is the most outstanding articulated-steer vibratory drop plow in its horsepower class, and also offers trenching capability. And the 420sx riding vibratory plow is designed to plow in more product per minute than anything in its class, and can also run a trenching attachment. Special double-disc plow attachments are available to minimize the impact to lawn sprinkler systems and can bury cable about 6 to 8 inches (15-20 cm) deep.



Compact Utility Equipment

Ditch Witch mini skid steers and excavator-tool carriers are incredibly versatile, powerful and maneuverable machines that can operate on tight jobsites while performing any number of tasks related to the fiber-

deployment process. These machines can operate dozens of compact utility attachments to perform a variety of fiber-installation tasks. A mini skid steer or excavator-tool carrier equipped with a vibratory plow attachment is especially useful when installing service to a house. When open-cut installation is permissible, (e.g., new home construction sites), a trencher attachment provides the fastest way to install duct and cable.



Vacuum Excavation Systems

Versatile Ditch Witch vacuum excavation systems offer one of the safest and most efficient ways to make precisely controlled excavations, such as potholes, and expose buried utilities before excavation or

drilling. With its powerful water pressure, a vacuum excavator is ideal for use in congested areas around buried utilities because of the reduced likelihood to cut or damage other lines or cables. Ditch Witch

vacuum excavators are also amazingly quiet, the quietest in their respective horsepower classes, which makes them good choices for working in neighborhoods and populated urban areas. And for cleaning up all types of non-hazardous spills and debris, including drilling fluid and roadway/construction site debris, the Ditch Witch family of vacuum excavators provides more than enough suction to accomplish virtually any cleanup task.



Trenchers

Where surface conditions allow it, trenching is the fastest way to install broadband communications duct and cable. Trenching as a method of installing utility or fiber lines has been common since the early 1950s, or around the

time the Ditch Witch organization introduced what would become the most comprehensive and dependable compact trencher line in the underground construction industry. Ditch Witch trenchers—ranging from the super-compact, 11-hp (8.2 kW) RT10 walk-behind to the 300-hp (224 kW) HT300 heavy-duty ride-on model—can install conduit of virtually any diameter at any depth required for fiber deployment. For asphalt or concrete open-cut installations, the larger Ditch Witch trenchers accept rock or saw attachments to cut small-width slots in roads and street rights-of-way. Many Ditch Witch trenchers also accept vibratory plow and boring attachments for areas that demand minimal surface disturbance.



Locating Systems

The Ditch Witch organization offers a comprehensive range of electronic systems for locating and avoiding buried telephone, CATV, power, gas, and water lines before installation begins. These are essential accessories for installing fiber conduit, used to

help verify the location of underground utilities after initial identification by local One-Call contractors and other utility providers. Ditch Witch electronic locating systems range from lightweight, handheld units to a powerful and sophisticated ground-penetrating radar unit, which can detect both metallic and non-metallic pipes and cables to depths of up to 19 feet (6 m).

For more information about Ditch Witch equipment, please contact your Ditch Witch dealer, visit www.ditchwitch.com/fiber, or call toll-free 800-654-6481.



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