



MacLean Power Systems

**MANTA
RAY®**
EARTH ANCHOR SYSTEMS



**UTILITY ANCHOR
SYSTEMS**

**THE
UNFAIR
ADVANTAGE**



Benefits

- No digging, no damage, no mess, no soil disturbance
- Anchors proof loaded to exact capacity required during installation
- Fast, easy installation
- Substantial time and cost savings
- Uses line truck hydraulics to install

Breakthrough Earth Anchoring Technology

Why Use Manta Ray >>>

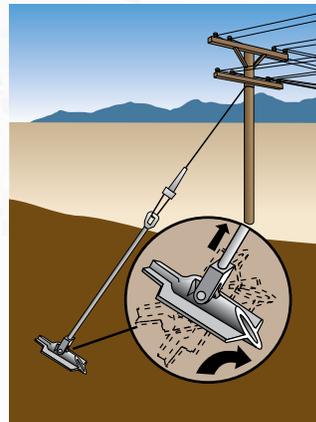
The Manta Ray Utility Anchor System is used by electric utilities and telcoms worldwide. Manta Ray's are driven into the ground, not augured or torqued. No excavation is necessary, and there is no disturbance or displacement of soil. The anchors are driven with conventional hydraulic equipment that is readily available worldwide.

- Installs in tough soils – decomposed rock, caliche, glacial till, permafrost and swamps
- Nearly indestructible
- Rugged one piece cast plate anchor
- Uses standard line truck hydraulic system as power supply
- No welded parts
- Every anchor is proof tested
- Portable cost – effective solution where line trucks or anchor access is difficult
- Minimum ROW access disturbance – good for homeowner relations
- In a storm recovery situation you may also use bucket truck hydraulics to install an anchor

No More Guesswork!

Installation and anchor holding capacity proof testing are simultaneous. The hydraulic powered Manta Ray anchor Load Locker pulls up on the anchor rod to set it in the ground at the desired holding capacity. Portable and lightweight, the anchor Load Locker consists of a base plate, hydraulic ram, jaws and adapter setting bar. The anchor Load Locker is operated by the same hydraulic power source as the jackhammer.

The desired holding capacity is measured by the gauge on the Load Locker as the anchor is rotated into position.



Install Using a Line Truck

Manta Ray's are installed using a hydraulic jackhammer with up to 50 ft of hydraulic hose from a line truck or portable equipment.

How It Works >>>



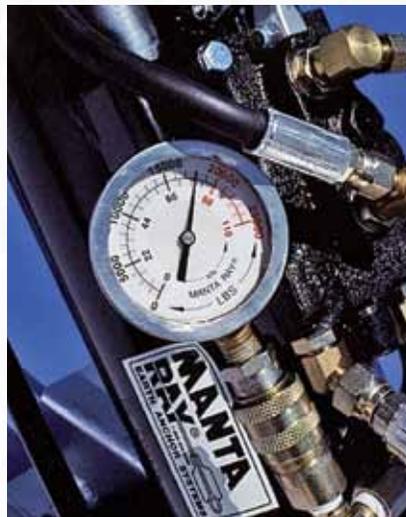
① Thread a standard power hub anchor rod into the threaded shackle of the Manta Ray Anchor.



② Drive the anchor to the proper depth, adding sections of drive steel as needed.



③ Use the Load Locker to pull test the anchor.



④ The desired holding capacity is measured by the gauge on the anchor Load Locker as the anchor is rotated into position.

SAFETY PROCEDURES

When installing Manta Ray Earth Anchors, follow all common safety precautions used by every utility, cable company and contractor - hard hats, boots, safety glasses and gloves. Gloves are especially necessary since, during driving, the couplers on the Manta Ray drive steel can become hot. As with any underground work the installation of Manta Ray's require location procedures. Do not install an anchor until you know what is below surface. It is absolutely imperative in all cases that anchors are fully load locked before being put into service. It is important that anchors are installed as near to the angle of the load as possible.

The Complete Utility Anchoring Solution >>>



Installs in Any Weather

Due to the ease of installation, Manta Ray Anchors can be installed during any season through a variety of soil types.



Drive Through Asphalt

Manta Ray's are extremely tough and when necessary, can be driven through asphalt. Manta Ray's patented chiseled edge allows the anchor to drive straight at any angle without wandering from its path.



Drive in Difficult Terrain

Almost nothing stops Manta Ray Anchors. From steep slopes to swamps, rapid deployment with light, portable installation equipment gets the job done.

Tight Places? No Problem

Since no large equipment is needed, Manta Ray's can be installed in tight, hard-to-reach places such as residential backyards. With no digging required, no mess is made, there's no damage to property or unhappy homeowners.

Contact us to learn more about Manta Ray Anchors

1-855-MPS-SHIP (Toll Free) | 1-803-628-4321 (Local)

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