

# MANTA RAY – THE UNFAIR ADVANTAGE

*The MANTA RAY Utility Anchor System Is Used By Electric Utilities And Telcoms On 5 Continents -- WHY?*

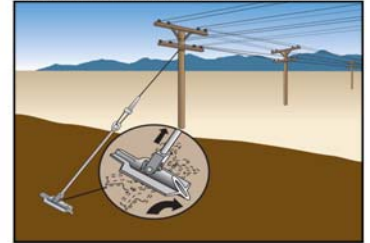
The anchors are driven with conventional hydraulic/pneumatic equipment that is readily available worldwide. Once driven to the proper depth, the anchor rod attached to the anchor is pulled to rotate the anchor into undisturbed soil - like a toggle bolt in dirt. This is called "Anchor Locking" the anchor (using the MANTA RAY Anchor Locker). The anchor is pulled upon to reach the holding capacity required which is measured by a gauge on the Anchor Locker. Each anchor is immediately proof loaded to the exact capacity required. No other system offers this feature.

**NO MORE GUESSWORK! Installation and testing of each anchor is simultaneous.**

MANTA RAYS are driven into the ground, not augured or torqued.  
Nor is a hole dug - no disturbance or displacement of soil.

MANTA RAY anchors can generally be installed and loaded to the desired holding capacity, in most soil conditions, in twenty (20) minutes or less. The dollar savings, when the high loaded labor rate of utility field personnel is considered is superb.

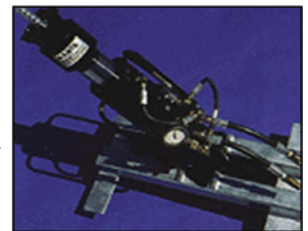
After installing the MANTA RAY to the proper depth, an upward pull rotates the anchor into the anchor lock position in undisturbed soil, like a toggle bolt in dirt.



## ADVANTAGES

The following is a clear and precise listing of the MANTA RAY utility anchor system's advantages and how a utility can save tens of thousands of dollars per year in anchor installation costs.

1. **MANTA RAY** can be installed in minutes, even in tight hard-to-reach places (backyards, alleys, etc.). In these places it is often impossible to reach with large equipment. Usually, hand-dig expandable anchors would be installed.
2. The **MANTA RAY** system is far less costly than other screw or expandable anchor systems, because installation is much faster and no large expensive equipment is needed, such as a \$150,000 to \$250,000 digger derrick.
3. **Fast**-utility linemen can install many **MANTA RAY**'s per day at ground level with conventional hydraulic/pneumatic equipment.
4. **MANTA RAY** does not disturb the soil as screw type or expandable anchors do, because the **MANTA RAY** compacts the earth during installation while other systems loosen the earth.
5. **No digging – no mess – no damage!**
6. **No more guesswork!** Know the exact capacity the anchor is holding after installation, by proof loading the anchor with the **MANTA RAY** anchor locker.
7. Made of galvanized ductile iron, **MANTA RAY** is virtually indestructible and offers maximum corrosion resistance.
8. **MANTA RAY** accepts all standard screw anchor rods used to guy utility poles.
9. **MANTA RAY** is offered in six (6) models to accommodate all utility anchor capacity requirements.
10. **MANTA RAY** is the **only** utility anchor fully guaranteed with an unconditional replacement policy if the anchor breaks during installation. Also, all installation equipment (drive steel, anchor lockers) are covered by a limited warranty.
11. The **MANTA RAY** is NRECA accepted.



**MANTA  
RAY**  
UTILITY ANCHOR SYSTEMS

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