

A TESORO DEALERS PERSPECTIVE

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Coils- The stock coil on your machine was designed by type and size built by the manufacturer for that particular machine.

There are two main types of searchcoils on the market, the Concentric and the Widescan. The **Concentric** uses two round antennas, one inside the other. Most coin hunting machines come with a concentric coil, it has greater depth capabilities and sharper signal responses. The search pattern is ice cream shaped with the deepest part at the centre of the coil, so instead of 10 inches as at just beneath the coil, it quickly narrows to just a few inches in diameter. That is why it is recommended to overlap your sweeps and to slow down the sweep speed. Concentric coils discriminate very well and pinpoint very easily due to the fact that the strongest signal is always in the centre of the coil.

The **Widescan** coil uses two D shaped antennas that are placed back to back, and is less affected by mineralization than the concentric, so it is generally used for prospecting or relic hunting in bad ground. The search pattern is like a pudding basin or a knife edge. Pinpointing is done with the heel or the toe of the coil.

Coil Size, Most people purchase a larger secondary coil for more depth or more coverage. Larger coils go deeper than smaller coils but at a cost. You lose sensitivity to smaller targets, and they are also more susceptible to masking. Masking happens in the discriminate mode when iron and a good target are both under the coil at the same time, larger coils have a bigger footprint. Another disadvantage is the extra weight. Smaller coils have a smaller footprint and they concentrate the signal to make the detector more sensitive to smaller targets, and mineralization and discrimination is improved. The smaller coils particularly the elliptical coils can get between the good and the bad targets to prevent masking.

Wading coils are filled with material that have neutral buoyancy when placed in water, this keeps the coil from either floating or sinking making water hunting easier. Electromagnetic fields are above and below the coil, so it is important keep the coil wire tight around the pole and not flapping around causing a false signal.

A larger coil helps in a clean area, or when targets are deeper. A small coil will help find the smaller targets or when coin hunting in extremely trashy sites.