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Nuggets of News and Knowledge

March 2023

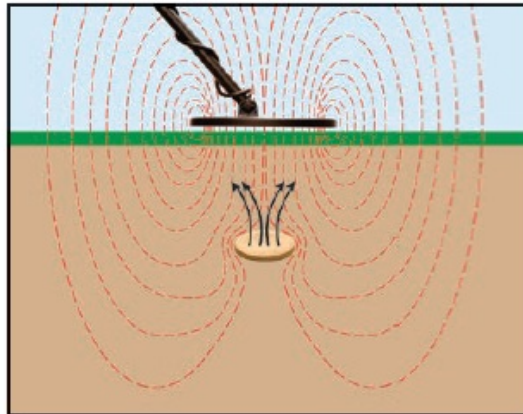
Whether you are new to gold prospecting or an experienced old-timer, whether you have just started swinging a metal detector or have been digging targets for years, get the most out of treasure hunting with these nuggets of news and knowledge— tips, ideas, new products and more!



All About Metal Detector Searchcoils

The searchcoil is a vital part of your metal detector. It generates a magnetic field and senses metallic targets in the surrounding environment. The size and depth of the magnetic field is determined by the shape and size of the searchcoil.

Understanding the purposes behind the various sizes and shapes of searchcoils will empower you with the ability to choose the best coil for each application.



The transmit coil (TX) creates a magnetic field while the receive coil (RX) senses distortion in this field and signals the control housing.

HOW SEARCHCOILS WORK: Search coils generally consist of two internal sets of coiled wires, a Transmit Coil (TX) and a Receive Coil (RX). Mono coils can be different in that one coil acts as both the TX and the RX. When the detector is turned on, the TX coil generates a magnetic field in the surrounding space. When a metallic object is within this generated magnetic field, it will create a distortion in the magnetic field. The RX coil will sense this distortion and send a signal to the control housing. A searchcoil's detection pattern is determined by the combination of the TX's generated field pattern and the RX's sensing field pattern.

SEARCHCOIL DEPTH: The detection depth of a searchcoil, as a rule-of-thumb, will be approximately equal to its diameter, for a coin-sized object. However, as a searchcoil's size increases and its field pattern becomes larger, the field pattern becomes less concentrated and begins to miss small objects. For a coin-sized object, this effect becomes noticeable when using search coils

NUGGET OF KNOWLEDGE: When To Clean Up Your Sluice

How often you should do a clean up of your sluice is largely a matter of preference. Some miners like to see how much gold they are collecting every hour; others will wait several days. The best way to determine when a clean up is needed is to directly observe WHERE the gold is being trapped in the box. As long as the majority of gold is collecting in the upper third section of your [sluice box](#), then you know your sluice is operating at its utmost efficiency. But if you notice that gold is being trapped farther and farther down the length of the box, then the riffles are probably impacted by too much heavily concentrated material, so it's time to do a clean up.

Don't Be a Victim!

larger than about 15" in diameter. Since the field generated by a large searchcoil is larger, deeper and less concentrated than a small searchcoil, it is the best choice when hunting for targets that are usually large and deeply buried, such as caches or relics. There is a direct relationship between the size of a magnetic field and the size of a coil. The bigger the coil, the larger the magnetic field. Therefore, larger searchcoils generally detect deeper than smaller search coils. [Article continues here...](#)

EASY CLEAN UP! No Matting! No Carpets!

If you've been prospecting for a while now, you're probably familiar with the Le Trap sluice originally made from durable ABS plastic in Canada, otherwise known as the River Robber Sluice. Well, now it's even better because it's made in the USA by Geo Sluice Mining using original molds! This sluice cleans out in seconds -- no matting, miner's moss or carpets -- and is an amazing gold trap! These sluices run well in faster water as well as in low pressure water flows. Ideal for fine gold recovery and stream sluicing. [Choose from a wide variety of sluices and highbankers featuring the Le Trap sluice.](#)



Portable Highbanker Trommel - Ships FREE!



Looking for a versatile gold mining machine— classifier, highbanker, trommel — that will get the gold? Want one light-weight machine that will do it all? Check this out! The bottom sluice box is 36" x 8" x 3" and includes light weight leg attachments with

four corner adjustments. Inside the sluice are 5 different Gold Hog brand mats. Use as a highbanker or switch out the top box in minutes and install the 5 inch trommel. Gold Trommel with Xtreme Omni wash system (triple angle) and quick flush drain, aluminum and steel construction. [Standard Portable Highbanker Trommel ships FREE in lower 48!](#)

Black Magic Recovers Fine Gold



Some years are worse than others. Mild winters coupled with substantial spring rains lead to higher than average numbers of snake bite victims. The rain ups the insects, the insects up the rodents, the rodents up the reptiles. And then, as temperatures rise, prospectors run into more deadly rattlesnakes. Don't take a chance! [Snake gaiters](#) protect lower legs.

Stackable Classifiers



Classification is very important to gold recovery. Screening off large worthless gravel, plus sizing your material for sluicing, makes these stackable sifting classifiers invaluable. Each is 13.25 inch diameter so they are stackable on a 5-gallon bucket. [Choose from 9 mesh sizes](#)

Garrett Metal Detectors Find More Treasure



Metal detecting is one of the easiest, most profitable, and fun ways to find gold and other metallic treasures such



The Black Magic is similar to a “miller table” and creates a positive static grip of contact with the gold particles that keep the gold from being swept off or down the table. The length of the table allows an ample amount of time for the gold particles to settle and grip onto the proprietary

neoprene rubber matting, and the narrow 8 inch width allows for a controlled uniform flow of water. With the proper water flow, the table allows you to recover even the smallest particles of gold. For best results, pre-screen your concentrates down to 20 mesh size—the better you classify, the better it works! Great way to get gold out of that pesky black sand. The original Black Magic sluice is an industry leading concentrate cleanup machine! [Browse Black Magic variations here.](#)

History Nugget: Queen Mine in Bisbee, AZ



Whether it's mining for gold, silver, lead, zinc or other precious metals, it's always fun to follow in the historic footsteps of the old time miners. To do exactly that and learn how copper and other ore was first mined in Bisbee, Arizona, take the underground Queen Mine tour. Outfitted with hard hat, miner's headlamp and a

neon vest, visitors ride 1,500 feet into the mine and learn about equipment, techniques, dangers and a century worth of history. Tour guides are actual retired miners, so you know you'll get the real highlights of working underground. You'll learn about blasting with dynamite, the role of mules, and even how miners went to the bathroom in the mines!

The story of Bisbee mining began in the late 1870s when Lt. Dunn, in charge of a cavalry detail from the frontier Army post of Fort Huachuca, was on a scouting mission against the Apache Indians. On a walk after dinner, Lt. Dunn picked up an interesting rock. And then he found a few more pieces. Unable to do anything about it because of military duties, Dunn took a prospector by the name of George Warren into his confidence and struck up a deal by which Warren would locate claims and work the property with Dunn as a partner. But on his way to the site, prospector Warren stopped to enjoy his favorite pastime—drinking whiskey with friends. [Article continues here...](#)



There has never been a better time to get involved in the Modern Day Gold Rush! Visit GoldRushTradingPost.com today to find great prices on equipment

as coins, jewelry, and relics. It's so easy to have your metal detector ready to go in its carry bag with extra coils, a digger or scoop, headphones, and spare batteries. Enter your finds in [Garrett's monthly Favorite Finds contest](#) to win prizes! [Shop Garrett detectors and more here.](#)

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