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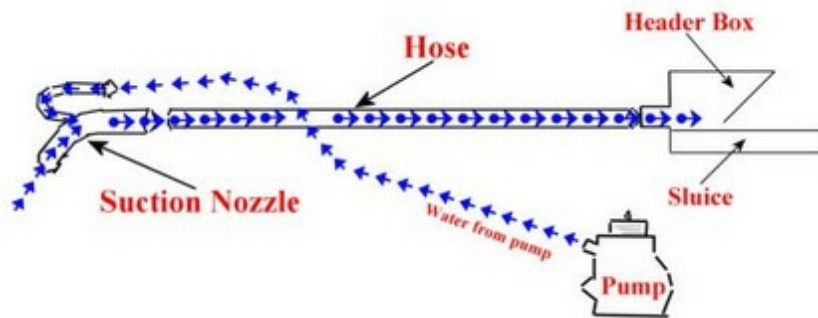
Nuggets of News and Knowledge

May 2017

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!



How Does a Suction Nozzle Work on a Gold Dredge?



Suction dredges utilize a high-pressure gasoline powered water pump to suck up water, gravel and gold, and inject this material into a sluice through a header box. The header box dampens the rush of water and gravel so that it flows evenly into the sluice. The sluice then expels the worthless gravel and retains the gold. The sluice captures the gold behind the riffles.

Wondering how a gold dredge can literally suck up gravel from the bottom of a stream without the gravel going through the gasoline-powered pump, which would destroy the pump? The answer is that a device is used to convert the pressurized water discharged from the pump into a vacuum. This device is called a suction nozzle and is attached at the far end of the material hose. A vacuum is created which sucks up water and gravel, pushing the material through the hose. Generally speaking, a dredge that is designed to work with a sluice on a stand, in shallow water, is almost always equipped with a suction nozzle. The main advantage of the suction nozzle system is that you can dredge in very shallow water, and the suction nozzle can be completely out of the water without affecting the performance of the sluice. [Shop for gold dredges, suction nozzles, and more.](#)

NEW! Save on Ameritek Metal Detectors!

Nugget of Knowledge

How a Metal Detector Detects Gold

A metal detector does not actually detect metal—it detects magnetic fields. When switched on, your VLF (very low frequency) detector first creates a magnetic field and energizes anything in the ground that responds to a magnetic field. Next, your detector seeks to find a magnetic field that has a response to its initial magnetic field. Because metals conduct electricity, they respond to a magnetic field and generate a small magnetic field of their own. Detectors detect the secondary magnetic field that conductive targets create when they are energized by the first magnetic field sent into the ground by your detector. In general, the larger the metallic target, the larger



The Minuteman, Patriot, and Liberator are all NEW in the Ameritek line of metal detectors. Proudly made in the USA by Teknetics (Fisher Labs), these 3 new machines are making award-winning metal detectors affordable again! Whether you're looking for the ease of a turn-on-and-go coin shooter or want more features for gold prospecting, you will find it in the affordable Ameritek line. All three detectors feature waterproof searchcoils, large two-digit numeric displays, and are perfectly balanced and light-weight so you can swing all day. **Use coupon code A1486 to [SAVE \\$50+ get FREE SHIPPING!](#)**

Hand Dredge **Back in Stock!**



The very popular X-Stream Hybrid Pro Hand Dredge is available again! Ideal for use in areas where motorized equipment is not permitted. Designed to work creeks and streams or be totally submersible.

Price of \$134.97 includes: Gold-N-Sand brand hand dredge, 6 foot hose, 2 gallon bucket with lid, 3 specialty nozzles with extension, extra set of valve diaphragms, and instructions. [Click for more details or to buy hand dredge.](#)

\$295 Hand Crank Trommel

and longer and stronger its magnetic response will be. PI (pulse induction) detectors work a bit differently by putting magnetic field energy into the ground and then switching off and waiting a short period before they start to look for a response. This makes them better at handling ground mineralization than a VLF detector because during that short delay the magnetic response of iron trash minerals that you don't want to find dies out, but the signal from tiny bits of buried gold does, too. That means VLF detectors are more sensitive to finding the smallest bits of gold, but do not as easily cancel out ground mineralization. [Browse detectors here.](#)

Small But Mighty Sluice Set Up Kit



This Power Sluice Setup Kit includes a 32" L x 6" W sluice, an 8" x 6" x 6" header box, an 8.5" x 24" sluice stand, a 12 volt 800-gph pump, and 4 feet of 3/4" hose all add up to a good high volume power sluice for just \$219.95! [Learn more here.](#)

Kwik Kilns



If you're gold mining in an area that does not allow motorized equipment, or you simply don't want the noise of a motor, this Hand Crank Trommel is the solution! One person can process 10-20 buckets of material in an hour shoveling into this hand operated trommel classifier. Or speed up your operation and have two people work together. Place empty buckets under this machine and crank the trommel until the bucket fills, then replace with another empty bucket. One person can shovel gold-bearing material into it, and the other can swap out the buckets. Work material dry or wet with great results. Choose 1/4 or 1/2 inch screen size. Additional \$74 with spray bar + pump shown in photo. [Hand Crank Trommel details here.](#)



History Nugget: BIG Gold Nuggets on Display



Did you know that two of the world's largest natural solid gold nuggets ever found are on public display at the Golden Nugget Hotel and Casino in Las Vegas, Nevada? The Robin's Nugget, weighing nearly 190 troy ounces equates to about 13 pounds and was found in 1975 in Australia. For many years, its claim to fame was as the largest gold nugget on display in the world... that is until The Hand of Faith nugget came along. In the spring of 1980, Kevin Hillier went out metal detecting near his tiny hometown of Wedderburn, Australia and found a 61 pound (875 troy ounce) golden nugget lying six inches below the surface in a vertical position! The Hand of Faith is about 18 inches tall and is the biggest golden nugget in existence, the second-biggest ever discovered, and the biggest ever found with a metal detector. Mr. Hillier sold his find decades ago to the Golden Nugget for over a million dollars. The next time you're visiting Sin City, stop by and see these astonishing nuggets— they'll provide all the motivation you may need to grab your own [gold detector](#) and get out there and find your share of hidden metallic treasures this summer!

Looking for a small, portable propane kiln to use in the field or at home? Kits include crucibles, tongs, flux, molds, and more. Larger kilns also available. [Details, video and field test review from Gold Prospector Magazine found here.](#)

Considering a Big Purchase?



No Payments + No Interest if paid in full in 6 months on purchases \$99 or more when you check out with PayPal and choose PayPal Credit. [Details on PayPal Credit here.](#)

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