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GOLD MISER

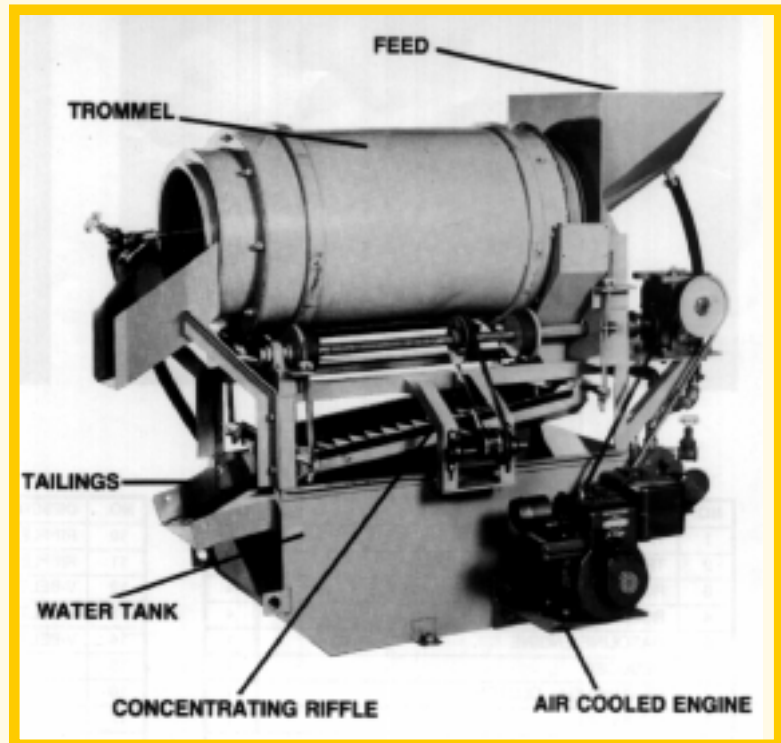
**The Humphrey's Gold Miser
For Recovery of Gold and
Other Heavy Metals From
Placer Deposits**

**For the Geologist and
Mine Engineer**

Ideal for sampling placer deposits and evaluation of mineral content. The results are accurate and can be reproduced in commercial applications. Can also be used for processing small, high-grade placers for recovery of gold, tin, tungsten and other heavy metals.

For the Small Claim Operator

Concentrates raw sand prior to hand panning. Can concentrate two to three cubic yards of bank run material per hour. Provides faster payout while minimizing the drudgery of hand panning.



PRINCIPLE OF OPERATION

Feed up to 3" particles is either manually placed or mechanically by conveyor into the feed hopper at a rate of 2 to 3 cubic yards per hour. Water is added (approximately 2 to 15 GPM) to help disintegrate clay and wash the values off of the oversize material in the trommel section. Lifter bars are provided to assist in breaking down clay. The oversize fraction is discharged from the trommel. An internal ring at the end of the trommel serves as a "nugget trap".

The approximately minus 3/16" material passes through the trommel screen and is sluiced and conveyed, by flights positioned on the inside of the outer trommel, as feed to the shaking riffle.

The feed material cascades over the multistage riffle. A lateral shaking action keeps the bed of sand in the riffle alive and permits the heavier metals, both coarse and fine, to be trapped in the riffle pockets.

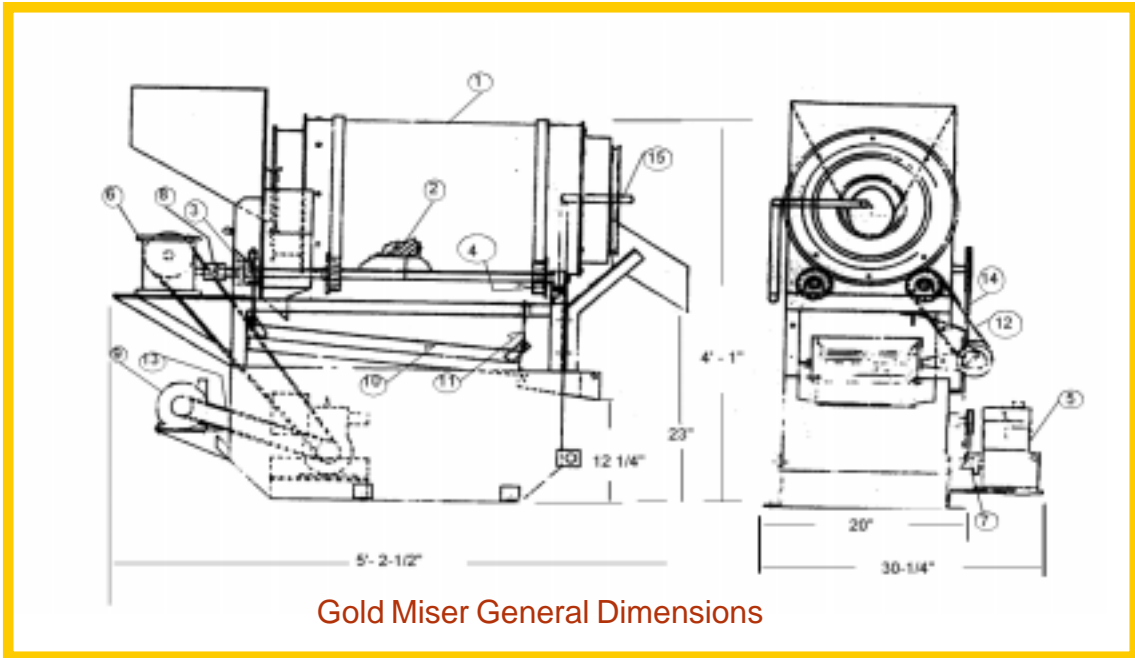
Periodically, the riffle is removed to empty the heavy values and the feed cycle is repeated. Tailings gravity flow down the riffle and out the discharge chute.

ADVANTAGES

- ⌘ The unit is self contained, portable, relatively light and designed to fit into a pickup truck or a small trailer.
- ⌘ Bottom is skidded for movement over short distances on land.
- ⌘ Lifters are provided in the trommel section to enhance the scrubbing action.
- ⌘ The trommel screen section is replaceable as it is bolted (not welded) to the main trommel.
- ⌘ The trommel rolls on four rubber covered wheels.

ADVANTAGES:

- ✦ The trommel section and other components can be removed to limit component weight to less than 180 pounds for air shipment or muleback transportation.
- ✦ Unit has its own built in water storage tank and self priming pumping system that delivers water to the feed hopper and trommel section.
- ✦ The riffle is of molded urethane for wear and to reduce handling weight.
- ✦ Riffle Tray is suspended on cables for easy adjustment of the slope of the vibrating riffle.
- ✦ Unit is driven by an air cooled standard Briggs & Stratton gasoline engine.



Gold Miser General Dimensions

NO.	DESCRIPTION	QTY.
1	TROMMEL (EXTERNAL)	1
2	TROMMEL SCREEN (INTERNAL)	1
3	ROLLER BEARINGS	4
4	ROLLERS	4
5	GASOLINE ENGINE	1
6	REDUCER	1
7	CENTRIFUGAL CLUTCH	1
8	COUPLING	1
9	WATER PUMP	1

NO.	DESCRIPTION	QTY.
10	RIFFILE	1
11	RIFFILE SUPPORTS	4
12	V-BELT	1
13	V-BELT	1
14	V-BELT	1
15		
16		
17		

- ◆ Unit mounted on water tank subbase of sturdy design for portability.
- ◆ Trommel unit is removable and furnished with external wear timer and internal sand flights.
- ◆ Internal trommel screen is bolted to external trommel and replaceable. Fabricated of 10 gauge steel with 3/16" by 1-1/2" slotted holes at 45 degrees to flow.
- ◆ Trommel tires ride on 4 rubber covered rollers supported on self aligning bearings.
- ◆ Riffle is manufactured out of molded urethane.
- ◆ Riffle tray eccentric drive assembly is supported on self aligning bearings.
- ◆ Standard packed seal water pump is provided. Includes wash hose connection in discharge line.
- ◆ Drive train consists of v-belt drive, enclosed reducer, 3 HP Briggs & Stratton standard gasoline engine with centrifugal clutch.
- ◆ Primed with rustoleum and finish with one coat of enamel paint.
- ◆ Units normally shipped fully assembled.
- ◆ Shipping Weight: 580 Lbs. Shipping Volume: 90 CF
- ◆ **Catalog Number: 050H-010, with gasoline engine**
050H-011, with Electric Motor, 1 Ph/115-230 V/50-60 Hz