



Recuperación de Oro  
Recuperação de Ouro  
Récupération de l'or  
Добыча золота  
[www.iconcentrator.com](http://www.iconcentrator.com)  
Patents Pending



## **iCON Gold Recovery**

**Recovery of all Precious Metals**

**Without Mercury - Without Cyanide**

*This is not new technology. This is the proven process of Major Mines  
now available to small scale and artisanal miners.*

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## What is iCON?

iCON is a family of mineral processing products specifically designed to recover fine precious metals including Gold, Silver and Platinum. The product line includes concentrators, slurry pumps, vibrating screens and modular plants.

iCON was designed by the professional mineral processing engineers of Falcon concentrators. iCON has all the quality, reliability and performance you would expect from Canadian designed and patented equipment.

iCON integrates the proper level of sophistication for small scale and artisanal miners. There are no complicated computer controls. iCON can be serviced with hand tools available in remote and/or developing areas of the world.

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### iCON is used for...

#### Hard Rock

- Initial Processing of Hard Rock Ores.
- Re-Processing of Hard Rock Tails.
- Concentration of Ores for Regional Processing.

#### Alluvial and Dredging

- Primary Process When You Know Your Gold is Too Fine for a Sluice.
- Daily Upgrading of Sluice Concentrates.

#### Prospecting, Drilling, Sampling

- Analysis of Samples in the Field.
- iCON is Mobile and Easily Cleaned from Sample to Sample.
- Confidence in the Full Size Distribution of Your Gold.

#### Remediation

- Recovery of Mercury from Tails.

**Features** were designed for the United Nations' Global Mercury Project. iCON has the support of many governments around the world for its ability to recover precious metals without the use of Mercury or Cyanide.

- Low Machine Weight
- Only 1 Moving Part
- Wear Components Replaceable in the Field
- Serviceable with Common Hand Tools
- Ease of Installation/Operation
- Excellent Value at a Fair Price
- 1.5 minute Clean Out Time
- High Concentration Ratios
- VFD / Soft Start Included

*Trust iCON... Your neighbor is already using it.*

## i150 Product Line



### i150 Concentrator

- *The Original iCON*
- 2 TPH of Solids
- 1.5 Minute Rinse Time
- VFD/Soft Start Included

### iPump 1.0

- 2 HP
- Open Inlet Pump
- Hi-Chrome Wear Parts
- 1.0 Inch Outlet
- $\frac{1}{4}$ " Solids Capacity



### IGR 100 Plant i150 Artisanal Plant

- Concentrator
- Slurry Pump
- Vibrating Screen
- Sluice/Nugget Trap

### IGR 1000 Plant Dual i150



- Specifically Designed for Clay
- Includes 2 i150 Concentrators
- 2 deck vibrating screen
- Rotary Scrubber
- 4 TPH of 2mm- or 10 TPH Total (whichever comes first)

## i350 Product Line

### i350 Concentrator

- *The Super iCON*
- 10-15 TPH Solids
- 1.5 Minute Rinse Time
- VFD/Soft Start Included



### iPump 3.0

- 5 HP
- Submersible
- Hi-Chrome Wear Parts
- 3" NPT Outlet
- $\frac{1}{2}$ " Solids Capacity

### IGR 500 Plant



- For Preclassified Material - $\frac{1}{2}$ "
- 2 Feed Pumps & 1 Transfer Pump
- 1 i350 Concentrator
- 1 1 Meter x 2 Meter Vibrating Screen
- Sluice/Nugget Trap

### IGR 3000 Plant



- Specifically Designed for Clay
- Includes 2 i350 Concentrators
- 2 deck vibrating screen
- Rotary Scrubber
- Nominal 30 TPH Capacity
- Heavy Industrial Fabrication



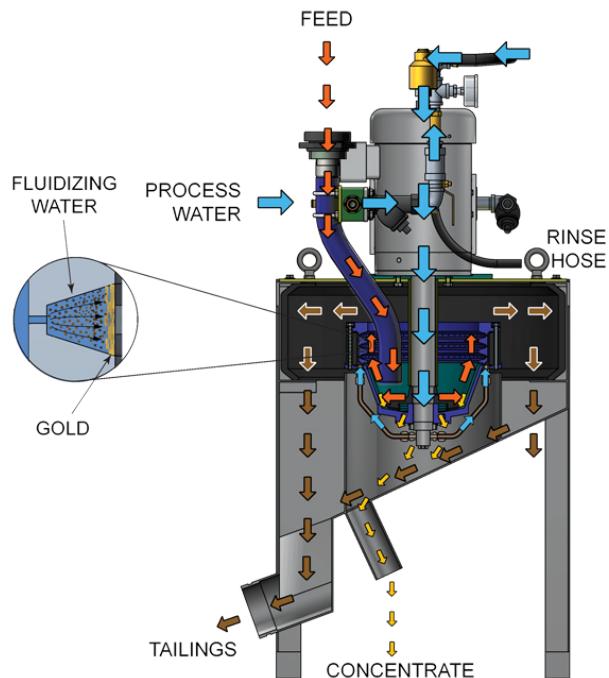
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## How iCON Works

iCON uses enhanced gravity to capture fine heavy minerals including Gold, Silver and Platinum.

iCON uses a centrifugal field of up to 150 Gs to concentrate fine heavy minerals that are not recoverable by common artisanal and small scale mining methods.

Upon entering the spinning bowl, the feed begins to spin. As it climbs the bowl the material is stratified/classified by weight. The heavy particles are trapped in within the fluidized riffles. The bowl is periodically rinsed producing a rich concentrate.



**Cycle Time:** iCON concentrators require only 1 to 1.5 minutes to rinse the rich concentrate from the bowl. Simply pause the feed, slow the bowl to minimum rpm and gently rinse the riffles with the rinse wand. Then resume full rpm and continue feeding the slurry. A typical process may involve feeding for 1 hour then rinsing for 1.5 minutes: repeating.

All iCON products include a Variable Frequency Drive. This allows the user to specify the rpm of the motors. The VFD is an inverter which conditions the power allowing for smooth and predictable operation due to unstable electricity in your mining region or erratic generator output. The VFD is also a Soft Start which minimizes the in-rush current and allows the motors to start with minimum load on your generator.

Please visit our web site for complete details: [www.iconcentrator.com](http://www.iconcentrator.com)