



Recuperación de Oro  
Recuperação de Ouro  
Récupération de l'or  
Добыча золота  
www.iconcentrator.com  
Patents Pending

## iCON i150 Concentrator *The Original iCON*

The iCON i150 Concentrator is the World famous iCON.

This is a gravimetric concentrator that uses enhanced gravity (G's) to concentrate the 'free' heavy minerals. It is also known as a centrifugal concentrator because of the centrifugal action of the spinning bowl. The process uses only water and an electric motor to concentrate the precious heavy minerals from a slurry.

**The i150 is the heart of the iCON product line.**

At a capacity of 2 tons per hour solids, the iCON i150 is commonly used for:

- Hard Rock Precious Mineral Recovery
  - due to the 2 tph capacity
- Exploration/Sampling
  - due to the convenient size/mobility
- Artisanal Placer mining
  - due to the 'reasonable price' and high reliability



### i150 Concentrator Specifications

Solids Capacity (Max)	2 tons/hour
Slurry Capacity (Max)	130 liters/min, 34 USGPM
Slurry Density	5% to 65% Solids
Max Particle Size	2 mm
G Force Range	120 to 150 Gs (50 to 55 hz)
Machine Weight	120 Kilograms
Dimensions	.6m x .6m x 1.3m Tall
Electric Motor Power	2 HP, 1.5 KW
Electrical Specifications	220 Volt, 1 Phase, 50 or 60 hz
Process Water Consumption	10 to 30 liter/min, 2.6 to 8 USGPM
Process Water Pressure	5 to 15 psi
Rinse Time	60 to 90 Seconds
Capacity of Concentrate per Batch	1/2 to 1 Kilogram
VFD, Soft Start Included	Yes

*iCON is environmentally friendly and has the support of institutions around the world as a safe and clean alternative to Mercury amalgamation.*

## ***iCON Gold Recovery i150 Product Line***



### **iPump 1.0**

Pump Discharge Size	ø 1"
Solids Capacity	3 t/h
Max Recommended % Solids	50%
Max Slurry Flowrate	70 USgal/min
Max Pressure Head	40 ft
Wear Component Material	Ni-Hard 4
Machine Weight	153 kg
Motor Power	1.5 kW
Power Requirements	220V/1ph/50-60Hz
Max Feed Particle size	2 mm
Overall Dimensions	ø 0.55m X 0.75m



### **iScreen 12 Inch x 24 Inch**

Machine Mass	78 kg
Dimensions	460 X 812 X 1016 mm
Solids Capacity	20 L/min
Feed Particle Size	> 2 mm
Process Water Requirements	17 L/min
Motor Power	0.21 kW
Voltage	220 V/1ph/50-60Hz
Current	0.70 A



### **IGR 100 Plant - *i150 Artisanal Plant***

Capacity	2 tons per hour passing the screen to the concentrator. The feed to the screen will be greater depending on the size distribution of your material
Electrical Requirement	8KW 220 Volt Generator, Single Phase
Water Consumption	50 mm external pump is suggested



### **IGR 1000 Plant - *Scrubber Plant* Designed Specifically for Clay**

Electrical Requirement	25 kVA Generator - 220v/1ph/50-60Hz - 50 amps (not including water pump)
Water Requirement	20 -35 m3/hr (2" Pump recommended)
Feed	Scrubber and Screen capacity are 10 tph but iCONS are limited to 2 tph each of -2mm. For example if the feed gradation is 40% passing 2mm, the plant can be fed a maximum of 10 tph. If the feed gradation is 100% passing 2mm, then the plant can be fed 4 tph.

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