Recuperación de Oro
Recuperçcão de Ouro
Récupération de l'or
Добыча золота

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Patents Pending

iCON IGR 100

i150 Artisanal Plant

iCON Gold Recovery Corp.

is proud to present the

IGR 100 Plant

IGR 100 Plant
i150 Artisanal Plant

The IGR 100 Plant is a modular self-contained gold recovery system. It uses classification and enhanced gravity to assure you are catching the finest gold and the big nuggets. In the standard configuration material flows as follows:

- The miner feeds sand/gravel into the vibrating screen
- The screen divides your feed into 2mm plus and 2 mm minus size fractions
- The 2mm plus will pass over the screen, over the Mini Grizzly and to the Sluice
- The 2mm minus will pass through the screen and down to the slurry pump
- The pump will move the fine material up and into the concentrator

This 2 class process is designed by Metallurgical Engineers for maximum recovery of precious heavy minerals.

iPumps can be used to supply the concentrator and/or to conveniently put tails where you want them. This convenient slurry pump can save hours of labor and easily move your feed and/or tails long distances or uphill. (see performance curve supplied). The iPump is designed by professional engineers using Ni-Hard-4 for the impeller to ensure long life and reliability. iPump is supplied with a VFD to allow the user to easily adjust the flow rate and to connect the pump to a standard single phase electric generator.

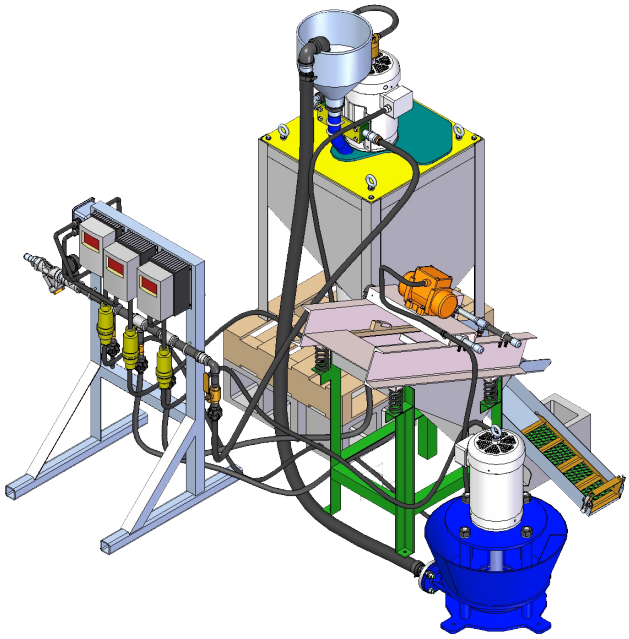
iScreen is supplied with a 2mm screen. This matches the maximum feed size of the concentrator. The iScreen can conveniently classify your material into 2 size fractions, ‘2mm plus’, ‘2mm minus.’ iScreen uses a high quality Italvibras motor and is supplied with a VFD to adjust the frequency of vibration.

A mini Grizzly and nugget trap are provided to capture any ‘screen oversize’ that you may have. This will give you great confidence that you are collecting the maximum size range of your gold from the finest gold caught in the concentrator to any nuggets caught in the grizzly.

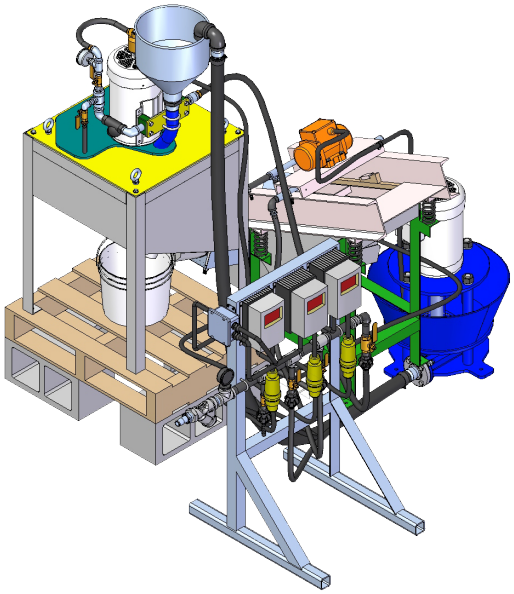
The control station is simply a mounting rack to organize your water lines and electrical wiring. It comes with a water manifold to distribute 1 input source of clean water to various functions in the IGR 100 Plant. The control station is intended to mount the VFD supplied with each component.

All components are matched in capacity and transportable in the field. Each item comes with a Variable Frequency Drive (VFD). These allow the use to easily adjust each item to their needs. The VFDs also allow operation from different types of power supplies used around the world. VFDs are rainproof and suitable for outdoor service. All components are designed to connect to a standard 220 Volt, 1 phase gasoline powered generator.

The photo and images show the standard configuration and all supplied components.



View 1



View 2

Views 1 and 2 are engineering drawings showing the standard configuration of the IGR 100 Plant.

IGR 100 Plant Specifications

iCON 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 220Volt Generator, Single Phase
Water Consumption: 50 mm external pump is suggested

Includes:

1 iCON i150 Concentrator
1 iCON iPump 1.0
1 iCON iScreen 12 Inch x 24 Inch with 2mm screen
1 Mini Grizzly and Sluice to capture and 'Screen Oversize' that you have
1 Control Station to conveniently arrange your electrical and water supplies
1 Installation Kit to connect all components

Does Not Include:

Water pump to supply process water to concentrator and screen
Generator

iCON i150 Concentrator Specifications

iCON i150 Concentrator:	
Solids Capacity	2t/h
Max Slurry Capacity	100 L/min
Concentrating Surface Area	968 cm^2
G-Force Range	60-150 G's
Machine Weight	115 kg
Motor Power	1.5 kW
Power Requirements	220V/1PH/50-60Hz
Process Water Requirements	17 L/min
Water Pressure Requirements	1.0 Bar
Dimensions	610 X 610 X 1193 mm

iCON iPump Specifications

iCON 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

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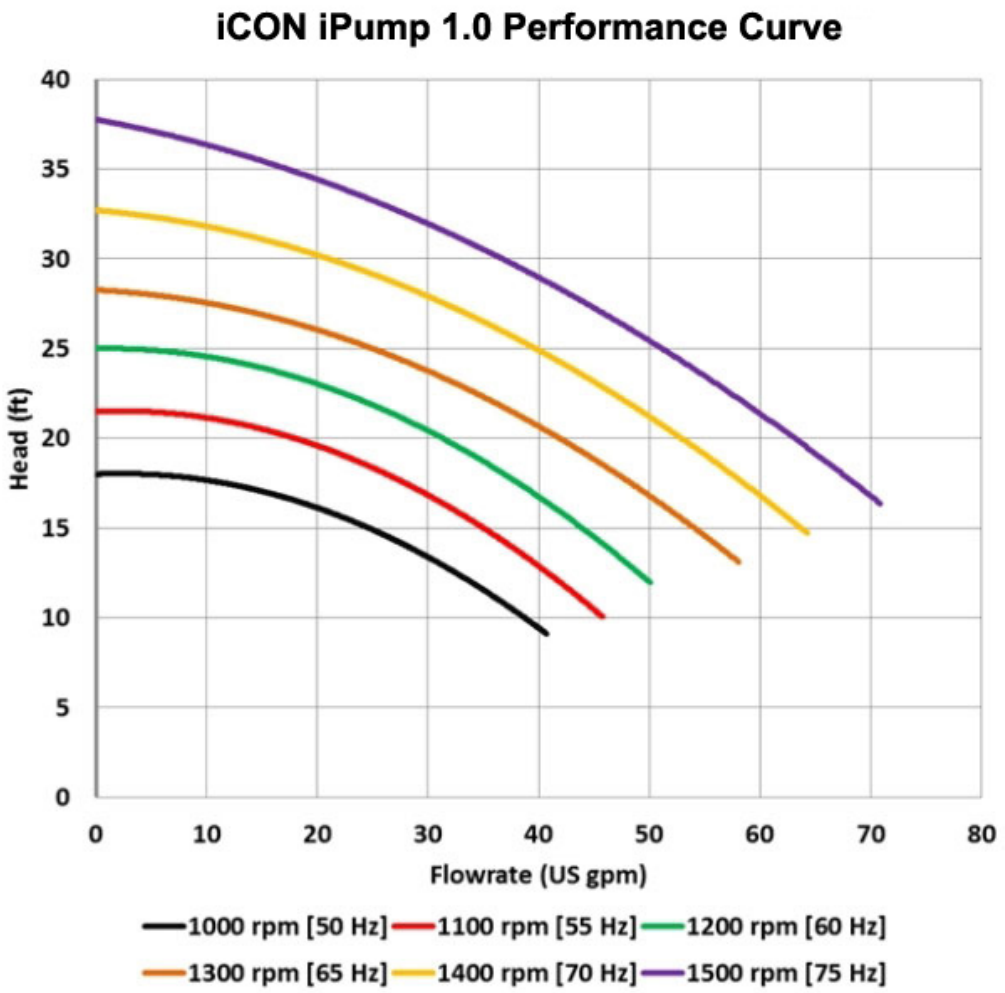

iScreen Specifications

iCON 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

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