iCON Gold Recovery is proud to present the

**IGR 500 Plant**

Specifically designed for pre-classified material such as:

- Trommel Fines
- Screen Deck Underflow
- Sluice Tails (New or Old)
- Dredge Sand
With the rising price of gold and the limited amount of mineable land, people are now focusing on the recovery of fine gold. Some rivers of the world have been sluiced as many as 6 times, yielding profitable gold each time - and demonstrating that traditional sluices can have very poor recovery.

**IGR focuses on the recovery of the Fine Gold.**

The submersible feed pump can be placed in the belly pan of a trommel/screen deck, placed directly in tails of a sluice or used as a booster pump for dredge operations.

**The IGR 500 is a Modular Pump Fed Plant.**

- The pre-screened gravel is transported to the plant by 2 5 HP, 3 inch submersible slurry pumps. The feed pumps are the same model as the transport pump for commonality of parts.

- The maximum solids capacity of the pump is 7/8 inch, 1/2 inch recommended
  - Screened by a sluice plant, trommel, vibrating screen, grizzly or suction dredge

- The slurry is distributed over the single deck vibrating screen
  - The -2mm material is pumped to the i350 Concentrator
  - The +2mm material is passed to the high efficiency sluice

- A specially designed hopper acts to dewater/thicken the slurry while paying close attention to retaining the fine and/or floating gold

- A third 5 HP, 3 inch submersible pump transports the -2mm slurry to the concentrator. The plant includes 3 5HP submersible pumps: Model KZN37.

*Please visit our web site for complete details: www.iconcentrator.com*
What’s Included

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two (2)</td>
<td>3” Slurry feed pumps, 5 HP, abrasion resistant high chrome wet end, with 10 meters each of 3” rubber slurry hose: Model KZN37</td>
</tr>
<tr>
<td>One (1)</td>
<td>3” Concentrator slurry feed pump, 5 HP, abrasion resistant high chrome wet end, concentrator slurry feed hose: Model KZN37</td>
</tr>
<tr>
<td>One (1)</td>
<td>Sepro 1.0m X 2.0 m inclined vibrating screen with 2mm opening wire cloth screen media, dual electric vibrating drive motors 2 x 2HP (4 HP), spray bar assembly with nozzles</td>
</tr>
<tr>
<td>One (1)</td>
<td>Skid frame assembly for mounting vibrating screen, concentrator, sluice box complete with inlet water manifold, internal water and slurry piping, screen feed box, screen oversize chute, screen undersize chute, screen undersize sump</td>
</tr>
<tr>
<td>One (1)</td>
<td>iCON i350 Concentrator complete with VFD drive, 5 hp electric motor, iCON components mounted in a custom steel frame assembly</td>
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<tr>
<td>One (1)</td>
<td>10’ long sluice with expanded metal and 12mm nomad type collection matting and steel riffles</td>
</tr>
<tr>
<td>One (1)</td>
<td>Electrical controls for all plant equipment including variable frequency drives for feed pumps, transport pump, i350 concentrator all mounted in a single NEMA 4 type panel Internal slurry piping</td>
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<td></td>
<td>Wiring for on plant equipment (suitable for 220/50-60hz/3 phase, 88 FLA)</td>
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</tbody>
</table>

What’s Not Included

Clean Water Pump : 75 USGPM. Suggested pump is Goulds 3196 with 10 HP and foot valve; Capable of 75 gpm, 10 ft of suction head and 130’ of discharge head

Generator: 35 kw recommended, 220/50-60/3 phase. Actual current consumption is 88 Full Load Amps (FLA).

The recommended generator capacity is double the actual consumption of the plant for the reliability of the generator.

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The specially designed hopper acts to de-water/thicken the slurry while focusing on capturing fine/floating gold. A typical application may involve feeding 800 gpm to the plant, and only 115 gpm to the concentrator. Here the feed to the plant may be 10% to 20% solids and the hopper would thicken the slurry to 30% solids for the concentrator.
Capacity

- The i350 Concentrator operates efficiently at 10 tph solids with a max of 15tph of 2mm-
- The dual 5 HP feed pumps have a capacity of 90 m^3/hr (400 gpm) of water at 15’
  dynamic head each, for a total of 180m^3/hr (800 gpm) at 15’ dynamic head.

Possible feed conditions include:
- 20 tph with 10% solids = 180 m^3/hr
- 30 tph with 15% solids = 180 m^3/hr
- 40 tph with 20% solids = 180 m^3/hr

The overall capacity is the maximum capacity of the concentrator or feed pumps, whichever comes first.