Rotating Brush Arms Keep Screen and Base Free of Silt and Debris Build-up
External Brushing is a Durable and Proven Technology

Minimizes Headloss and Clogging Even with Fine-Mesh Openings
Complies with Regulatory Criteria

FEATURES:
- Powerful brushing action and brush rake prevents biofouling and debris plugging
- Wedgewire screen designed for fish protection, filtration, and hydraulic loads
- Cone provides large screen area in shallow water applications (small footprint)
- Internal baffle distributes flow evenly across the screen surface
- Easy installation and removal
- Marine-duty hydraulic motor rotates brushes in BOTH directions
- Hydraulic system requires minimal input power — brush system can operate on standard line voltage, solar power, or propeller-drive
- Base diameters from 5.5 to 12 feet — adaptable to concrete or steel base structure
- Remote monitoring and control system—SCADA interface
- Design services and installation assistance available
**Applications for Shallow, Estuarine, Silty, and/or Backwater Areas with Heavy Debris Loads**

*Above:* Screen can be adapted to fit on existing intakes in shallow areas or be made retrievable.

*Above:* Screen installed at shallow impoundment behind inflatable dam.

*Above:* Screens are built to operate in extreme conditions with heavy loads.

*Left:* Screens have been field tested by the National Marine Fisheries Service, California DWR, and UC Davis.

*Right:* Remote sites can be operated using solar power or by using a propeller-drive system as shown. Screen bases can be custom built to fit most any application.

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**Cone Screen Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Unit Dimensions A - B - C</th>
<th>Unit Weight</th>
<th>Screen Surface Area</th>
<th>Slot Velocity @ 0.5 ft/sec (0.08 m/s)</th>
<th>Approach Velocity @ 0.2 ft/sec (0.06 m/s)</th>
<th>Approach Velocity @ 0.33 ft/sec (0.10 m/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISI C66-18</td>
<td>66&quot; - 18&quot; - 35°</td>
<td>430 lbs.</td>
<td>26.8 ft² (2.49 m²)</td>
<td>6.7 cfs (190 l/s)</td>
<td>5.4 cfs (153 l/s)</td>
<td>8.8 cfs (249 l/s)</td>
</tr>
<tr>
<td>ISI C78-21</td>
<td>78&quot; - 21&quot; - 35°</td>
<td>650 lbs.</td>
<td>38.5 ft² (3.58 m²)</td>
<td>9.6 cfs (272 l/s)</td>
<td>7.7 cfs (218 l/s)</td>
<td>12.7 cfs (360 l/s)</td>
</tr>
<tr>
<td>ISI C96-24</td>
<td>96&quot; - 24&quot; - 35°</td>
<td>980 lbs.</td>
<td>54.8 ft² (5.09 m²)</td>
<td>13.7 cfs (388 l/s)</td>
<td>11.0 cfs (311 l/s)</td>
<td>18.1 cfs (512 l/s)</td>
</tr>
<tr>
<td>ISI C120-32</td>
<td>120&quot; - 32&quot; - 35°</td>
<td>1,170 lbs.</td>
<td>89.0 ft² (8.26 m²)</td>
<td>22.3 cfs (631 l/s)</td>
<td>17.1 cfs (484 l/s)</td>
<td>29.4 cfs (833 l/s)</td>
</tr>
<tr>
<td>ISI C144-41</td>
<td>144&quot; - 41&quot; - 35°</td>
<td>1,500 lbs.</td>
<td>131.9 ft² (12.25 m²)</td>
<td>32.7 cfs (926 l/s)</td>
<td>26.2 cfs (742 l/s)</td>
<td>43.2 cfs (1223 l/s)</td>
</tr>
</tbody>
</table>

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1) Allowable flows based on using wedgewire screens with 50% open area. Typical screen with 1.75mm wire is shown below;
2) If cone is not fully submerged, allowable flow rates will be reduced;
3) Maximum recommended slot velocity is 0.5 fps for most applications subject to heavy debris;
4) Many fisheries agencies use a maximum approach velocity criteria instead of slot velocity. Approach Velocity is the component of velocity perpendicular to the screen surface and measured 3 inches away. A minimum open area is generally specified;
5) Regulatory design criteria varies and typically depends on fish protection needs. Call for information on slot sizes below 1mm.

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**For more information contact:**

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