The IFS Series of internally-fed rotary drum screens for industrial wastewater applications is designed to provide superior solids recovery from waste streams. The IFS is the most versatile unit and is applied on high flows with heavy solids loading. The IFS Series can handle flows from 105 to 6500 gpm (24 to 1,476 m³/hr) dependent on screen design selected.

The IFS Series is constructed of an all stainless steel base. The IFS features a modular design, with components bolted to a heavy duty base structure. The screen cylinder can be wedge wire, perforated plate or fine mesh. The cylinder rotates horizontally on four trunnion wheels and is driven by a TEFC gearmotor and corrosion resistant chain and sprocket arrangement.

**METHOD OF OPERATION**

The influent enters a headbox, where the energy is dissipated and the flow is evenly distributed onto the interior of the rotary screening drum. Solids are retained on the screen surface while the liquid flows radially out through the screen openings. Screened solids are transported axially, by internal flights, to the open end of the rotary drum screen. The entire screening surface is intermittently washed by a fixed external spray bar.

**Features**

**All Stainless Steel Construction**
- Includes all wetted surfaces and base.
- Robust construction reduces down-time and maintenance costs.

**Design and Construction Flexibility**
- Its modular design allows the most flexibility to fit a customer’s unique needs.
- Screening media and inlet and outlet points can all be easily customized to fit a specific application.

**Applications**
- Pulp/Paper White Water Total Effluent Debarking
- Vegetable & Fruit Processing Water
- Seafood Processing
- Meat Processing Plant Effluent
- Petrochemical PVC Recovery
- Poultry Plant Effluent
- Winery Effluent
- Biomass Dewatering
IFS Screen Operation

1. Influent Enters Screen
2. Flow dispersed into drum from “Headbox”
3. Screen drum rotated with chain drive
4. Screen drum rotates on trunnion wheels
5. Effluent drains through screen and out bottom
6. External spray bar cleans screen
7. Solids exit screen end by way of continuous flights
8. Fabricated stainless steel base frame

Standard Construction
- 304 stainless steel construction
- TEFC motor and gear drive
- Modular design
- Corrosion resistant zinc plated roller chain
- UHMW shaft-mounted trunnions
- Internal flights
- External spray bar

Options
- 316 stainless steel construction
- Support legs & solids chute
- Control panel
- Drainage pan
- Enclosure (Cover)
- Internal spray bar
- Chain oiler

<table>
<thead>
<tr>
<th>IFS Model</th>
<th>Standard Dimensions - inches (mm)</th>
<th>Approximate Net Weight - lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IFS2436</td>
<td>32-1/4 (819) 26-3/4 (679) 39 (991) 7 (178) 82 (2083) 94 (2388)</td>
<td>1300 (590)</td>
</tr>
<tr>
<td>IFS3672</td>
<td>51 (1295) 36 (914) 53-1/2 (1359) 10 (254) 119 (3023) 132-5/8 (3369)</td>
<td>2500 (1134)</td>
</tr>
<tr>
<td>IFS4872</td>
<td>62-5/8 (1591) 48 (1219) 66 (1676) 12 (305) 119 (3023) 134 (3404)</td>
<td>3000 (1361)</td>
</tr>
<tr>
<td>IFS4896</td>
<td>62-5/8 (1591) 48 (1219) 66 (1676) 12 (305) 143 (3632) 158 (4013)</td>
<td>3600 (1633)</td>
</tr>
<tr>
<td>IFS6096</td>
<td>76 (1930) 60 (1524) 80 (2032) 15 (381) 133-1/2 (3899) 170-3/4 (4337)</td>
<td>4500 (2041)</td>
</tr>
<tr>
<td>IFS60120</td>
<td>76 (1930) 60 (1524) 80 (2032) 15 (381) 182 (4623) 199 (5055)</td>
<td>5500 (2495)</td>
</tr>
<tr>
<td>IFS72144</td>
<td>93 (2362) 72 (1829) 92 (2337) 22 (559) 224 (5690) 229 (5817)</td>
<td>7800 (3538)</td>
</tr>
<tr>
<td>IFS80180</td>
<td>98 (2489) 76-1/2 (1943) 102 (2591) 36 (914) 267 (6782) 272 (6909)</td>
<td>9400 (4264)</td>
</tr>
</tbody>
</table>

This chart is only to be used as a guide. For specific sizing inquiries please contact JWC Environmental.