



## Grit Classifier

**Gingoni Grit Classifier**

The removal of water borne grit and detritus particles from a flow of liquid is based on the simple process of discriminating between respective sizes by differential specific gravities. Simple robust and effective machinery is a prime requirement.

Having removed the grit from the flow, it is necessary to release organic material that is captured along with the grit and to transfer the grit to a disposal point.

The Gingoni screw type grit classifier provides a reliable and effective means of disturbing the grit contents whilst simultaneously raising the grit via an inclined trough to a convenient discharge point.

In operation grit and water is deposited in the screw hopper by a grit pump. A solids settle in the hopper, the churning action of the screw, releases organic matter and moves grit up the inclined trough. Water and organic matter overflows into a trough spanning the hopper and is returned to the flow stream.

The upper section of the screw has a ribbon flight that allows excess water to escape while grit continues to the discharge chute.

A robust shaft mounted gear unit is positioned at the discharge end to drive the screw and the drive end stub shaft is located in a heavy duty thrust bearing rated to accommodate the vertical and axial forces.



At the lower end, the screw shaft is located in a specifically designed bearing with provision to exclude grit. Both bearings are accessible from outside the hopper.