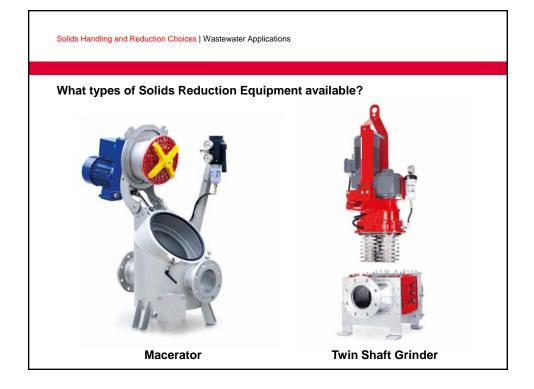


Solids Handling and Reduction Choices | Wastewater Applications

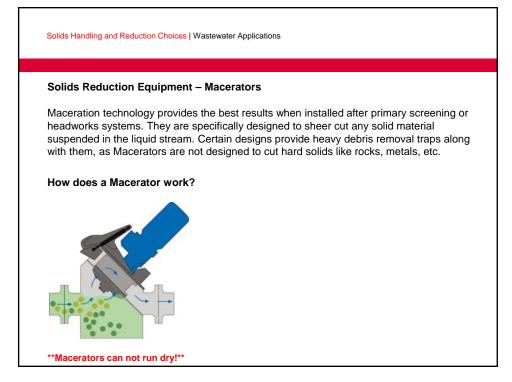
## Why do we need Solids Reduction?

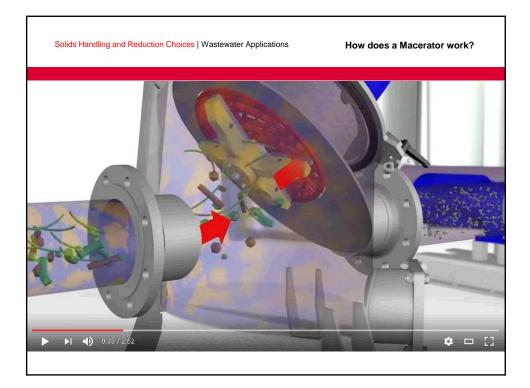
Most wastewater treatment plants have installed fine screening in the form of step, perforated, drum etc. in order to remove the overwhelming debris coming into the plant. This new equipment definitely assists in removal of a majority of the debris, but it still doesn't collect everything that is contained in the influent.





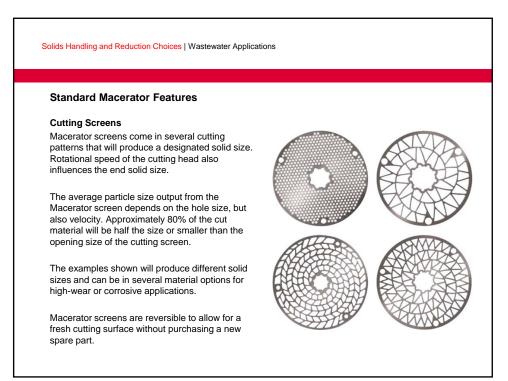


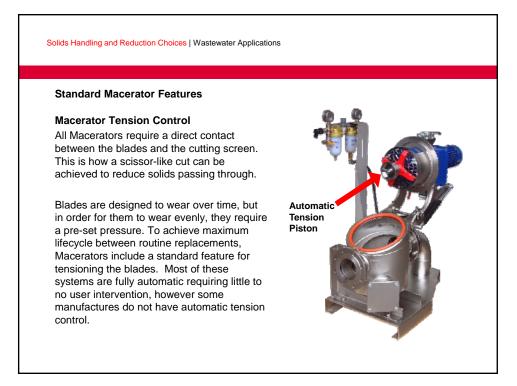


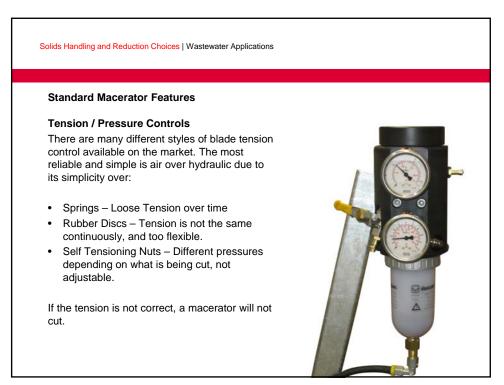


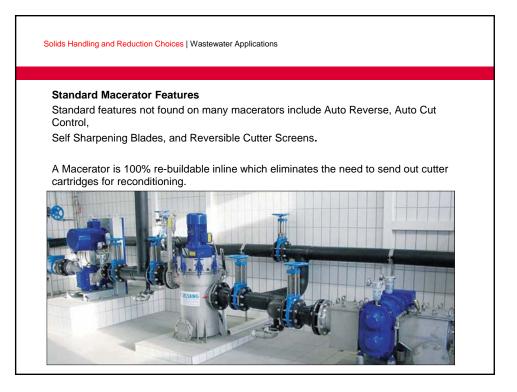
# Solids Handling and Reduction Choices | Wastewater Applications **Standard Macerator Features** Auto Reverse Control Panel Macerators are designed to cut solids and objects as they passes through the cutting assembly, but sometimes an object becomes lodged in the screen and cannot be cut on the first pass. When this occurs, an Amp increase is detected 111 0) by the control panel and causes the Smart Relay to initiate the Auto Reverse program in an attempt to eliminate the lodged object. Auto Reverse can operate up to 5 times prior to the control panel tripping out protecting the motor and Macerator from damage. Macerators typically run in both directions for a few hours, and switch to keep the blades sharp at all times.

5

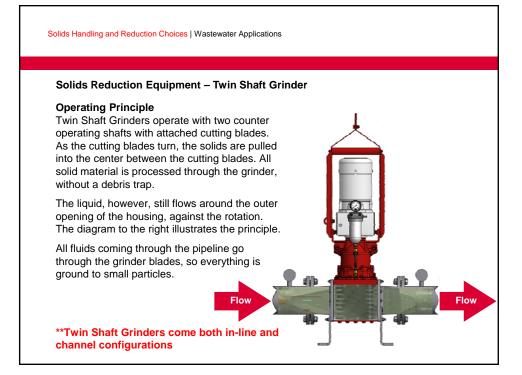


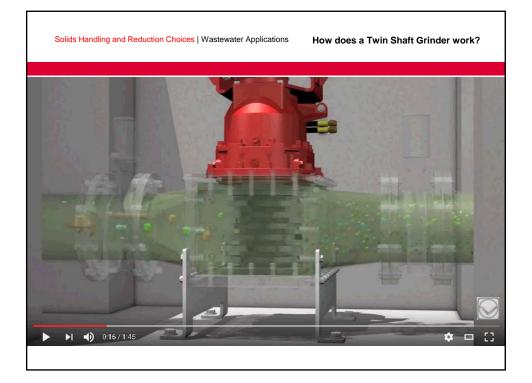


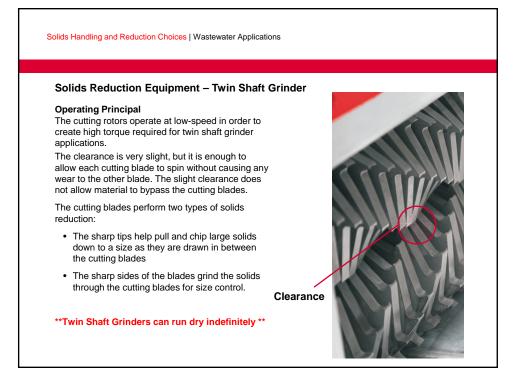




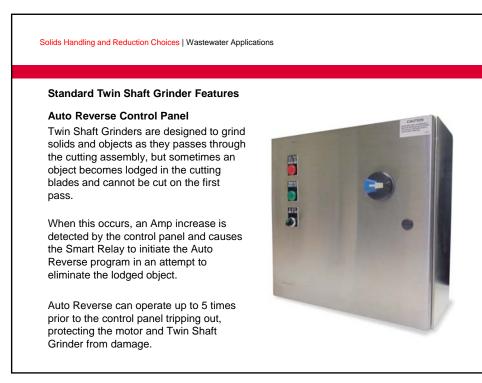








9



#### Solids Handling and Reduction Choices | Wastewater Applications

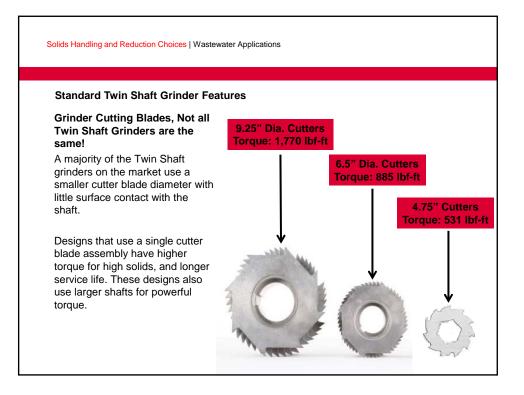
#### **Standard Twin Shaft Grinder Features**

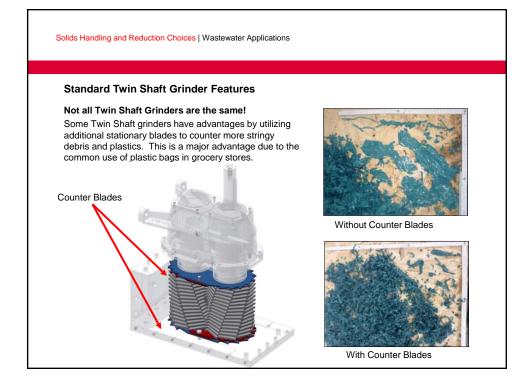
#### **Grinder Cutting Blades**

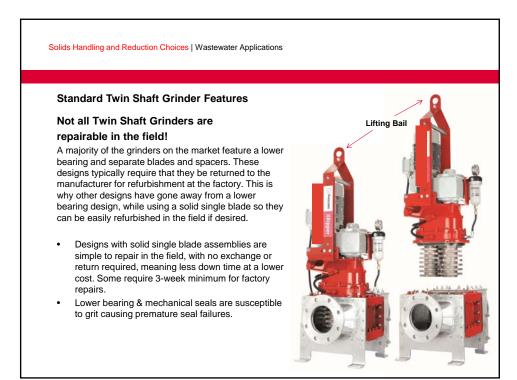
There are many different cutting blade designs on the market, most designs include separate cutting blades and spacers to make their cutting assembly which can be 12-24" long.

Other manufactures use a solid single piece cutting assembly, as shown to the right. The single solid cutting element has gained popularity because it requires far less maintenance and extends the life of the cutting assembly. The solid single cutting assembly also has many more options in terms of blade size, higher torque ranges, and higher tolerances.









## Solids Handling and Reduction Choices | Wastewater Applications

## **Standard Twin Shaft Grinder Features**

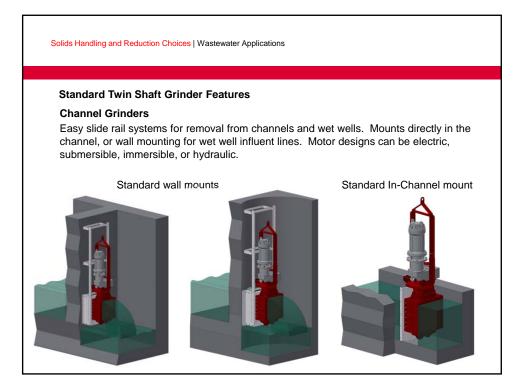
#### **Twin Shaft In-Line**

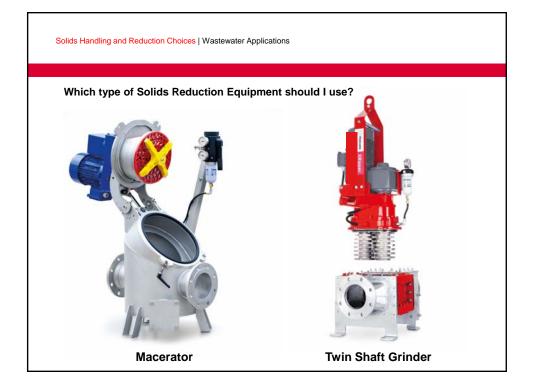
Designed for in-line pipe installations, with 4" - 12" Flanges. Simple for in-pipe applications where you need to protect against solids and damage to downstream pumps and equipment.

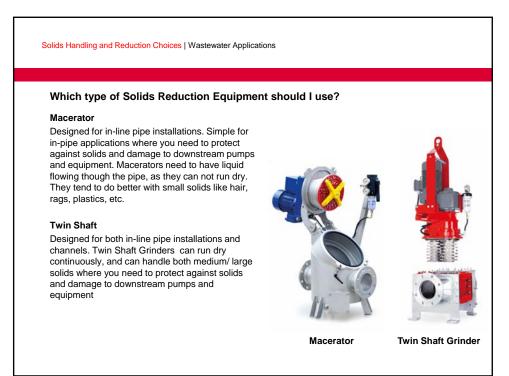
### **Channel Grinders**

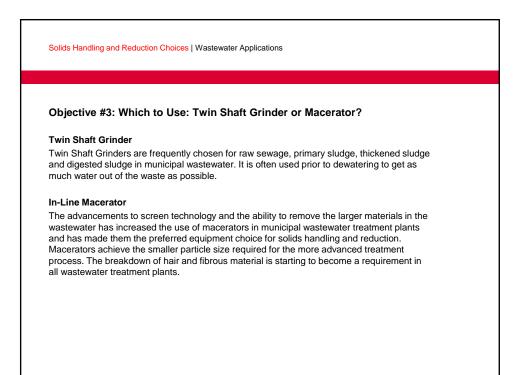
Easy slide rail systems for removal from channels and wet wells. Mounts directly in the channel, or wall mounting for wet well influent lines. Motor designs can be electric, submersible, immersible, or hydraulic.

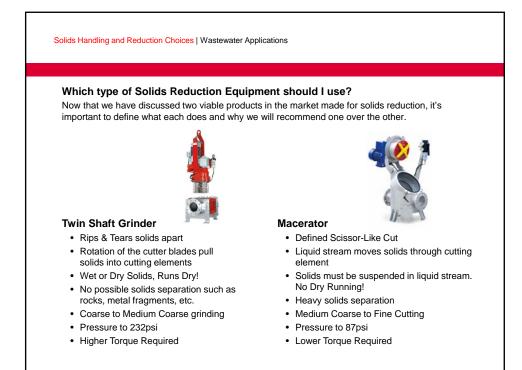


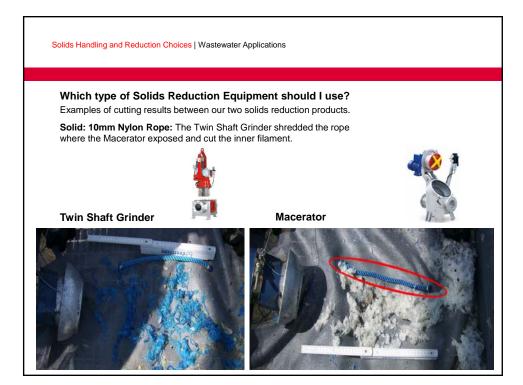


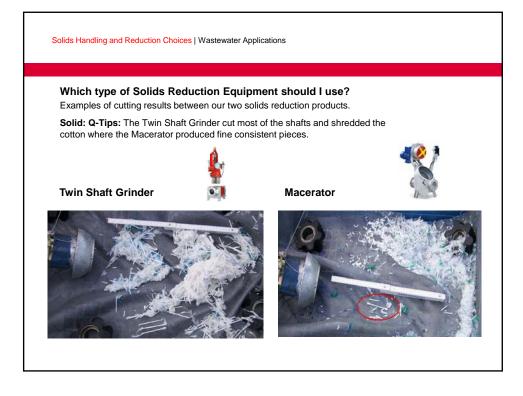


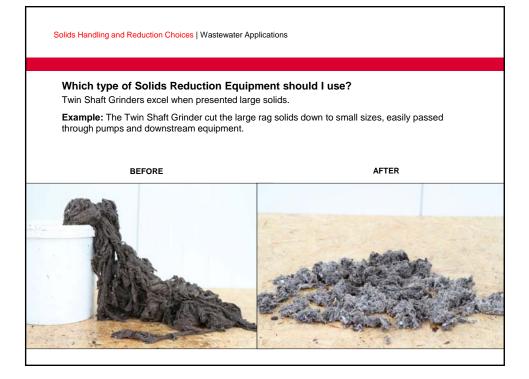


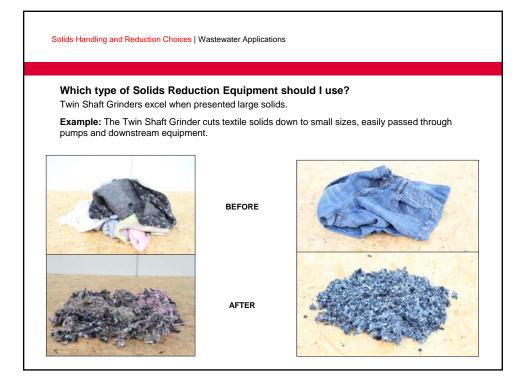




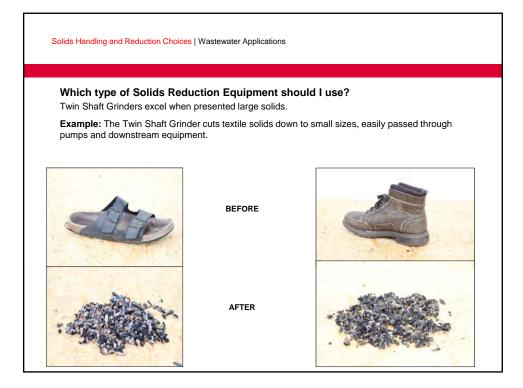




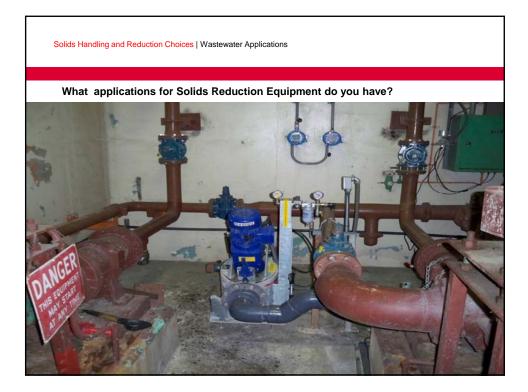


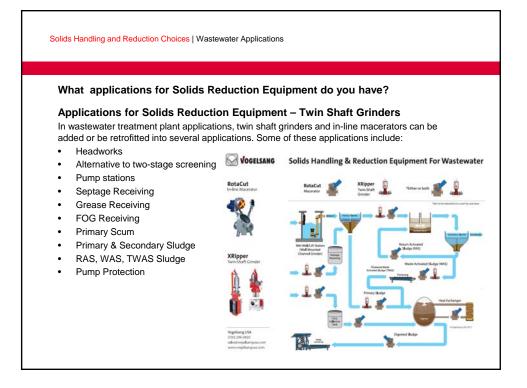


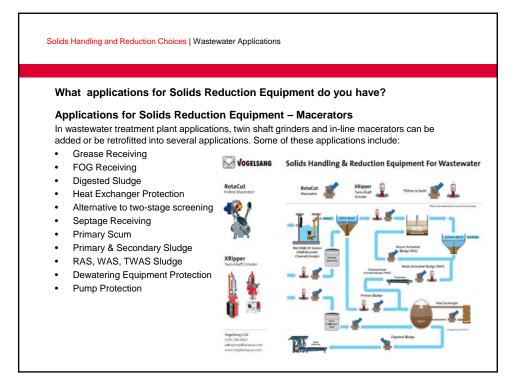


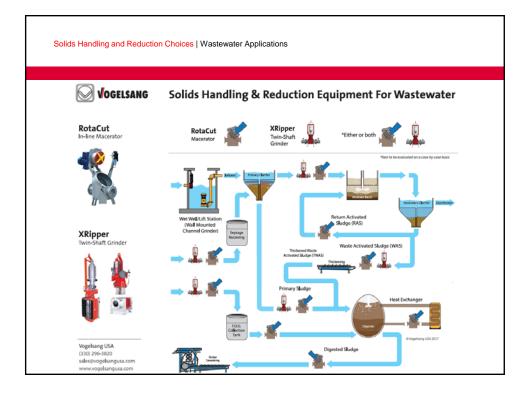


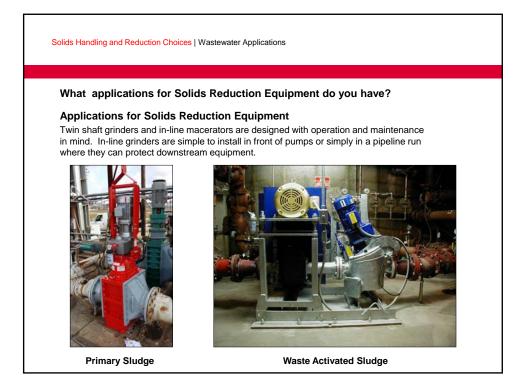


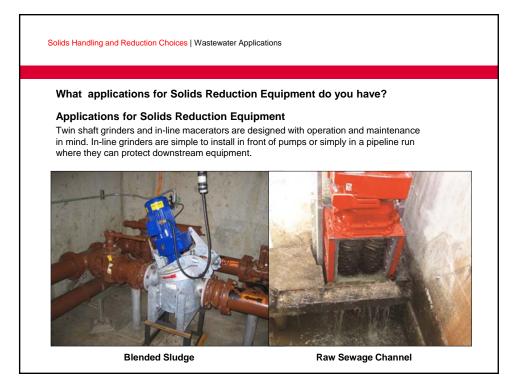












21

