

# CLASSIFICATION

Classification in practice is the mechanical operation that aims to separate the solid constituent of a flowing pulp/slurry stream into two fractions one with relatively fine finished product called overflow and the other with coarse raked material called the "Grit/Sand"

Applications:

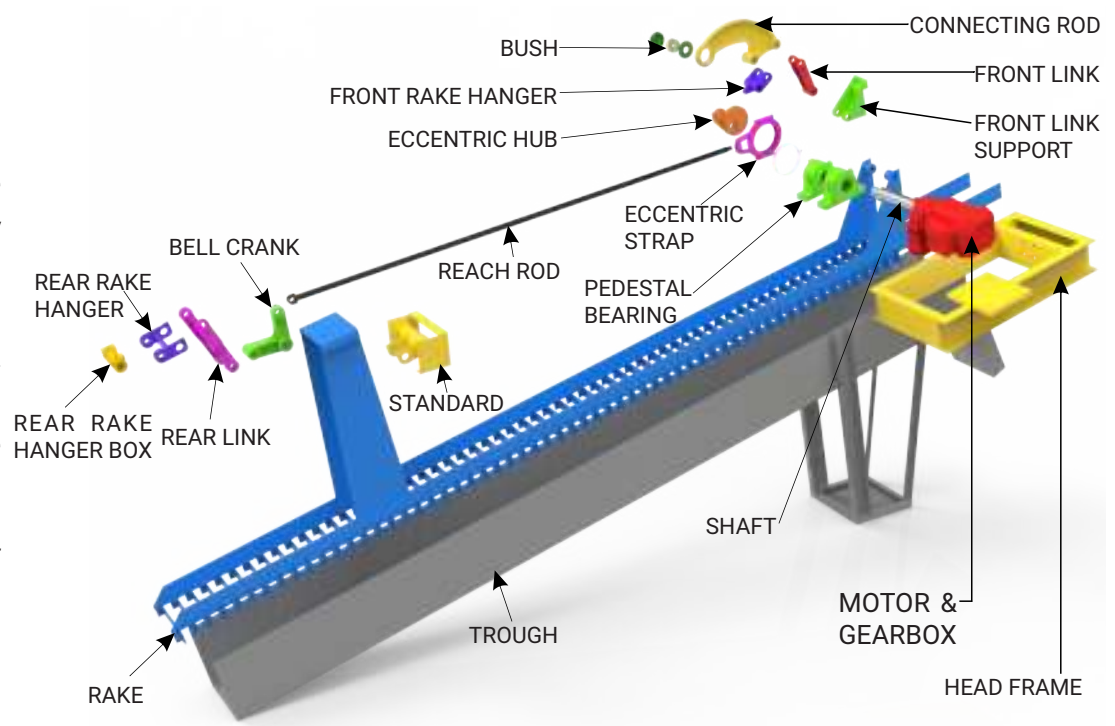
- Closed or open wet grinding circuits of virtually all types of ores.
- Classification in Mineral Industry like clay, Alumina, Red Mud, Iron ore etc.
- Foundry sand & Sand washing Reclamation system.

# RAKE CLASSIFIER

This type of classifier constitutes Single or Double Reciprocating rake mechanism, which is ruggedly built with structural steel and is inclined at a specific angle (<Angle of Repose). An array of Linkages with Hinge Pin joints makes it possible for long rakes to give a uniform & consistent raking action at a very low energy. These robust mechanism is best known for its trouble free operation for years together.

The Rake mechanism facilitates higher grit removal using different Sizes i.e, 305mm, 460mm, 610mm, 760mm, 920mm in Single Rake construction while the capacity can be doubled using common drive & duplex Rake. And lengths ranging from 5 Mtr to 12 Mtr based on the Inclination angle and submergence in the trough.

Rake Classifiers are built over RCC or Metallic Troughs based on the application requirements.



# SCREW CLASSIFIER



This type of Classifier consists of slow speed Single Screw enclosed in a half metal trough for positive material transfer ensuring higher rate of grit/sand disposal. Screw Diameter, length and angle of installation can be more flexibly designed to suit the application

requirements. Most common sizes are 250mm, 305mm, 406mm, 457mm and 508mm Dia. Screw Classifiers lengths ranging from 4 Mtr to 9 mtr can be built without any intermediate bearing support.