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Vibroflow is an engineering company that supplies vibratory materials handling and processing equipment. Our supply includes vibratory feeders and conveyors, vibrating screens, spiral conveyors and bin dischargers.

Past clients have included the Foundry, Mining, Food Processing, Chemical, and Recycling Industries among many others.

We specialize in the Sub Resonant Drive System which is the most energy efficient and rugged available on the marketplace with our engineers and consultants having more than 25 years experience in research and development, design and consulting in the vibratory transportation and processing equipment industry.

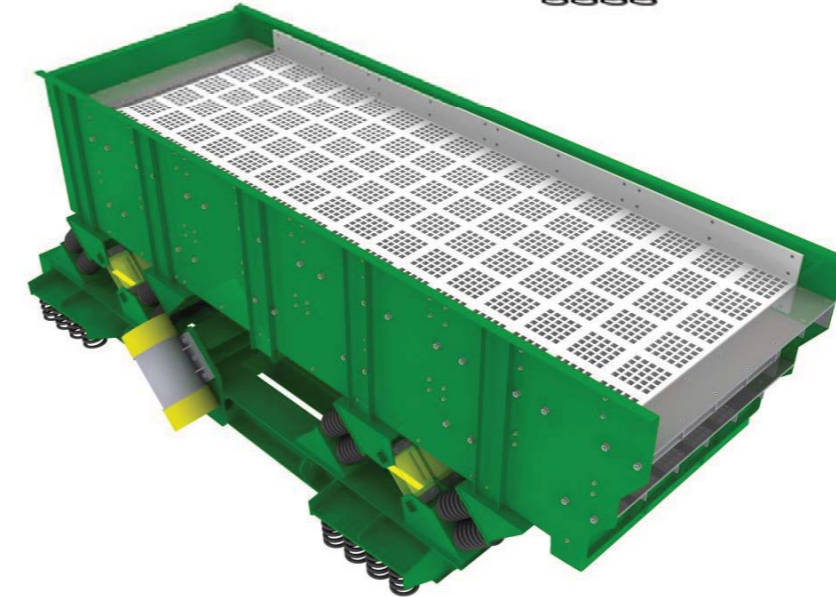
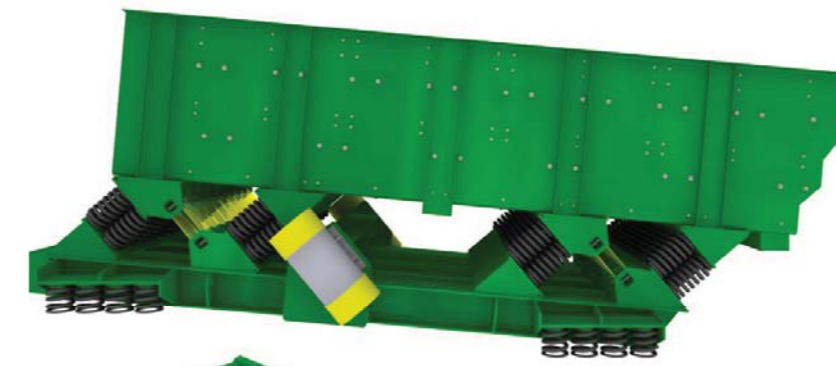
The company is based in Hallam, Victoria and is 100% Australian owned and operated.

## gold ore re-screening plants sub resonant vibrating screens

Vibroflow has recently completed a vibratory screen for a gold ore screening plant for one of the larger mines in South Africa.

Many Gold processing plants have been built or recommissioned recently due to the increase in the price of Gold. As a specialist in heavy duty materials processing equipment Vibroflow was tasked to design a vibratory screen to place inside a South African Gold Ore Processing Plant.

The unit is located after a primary crusher and oversize material is fed back into the crusher while undersize material is fed elsewhere for further processing.



The Screen designed for the plant is 6 meters long, 2 meters high and almost three meters wide. It has three screening decks and weighs over 16 tonnes.

The unit was designed utilizing the Sub Resonant Drive system which means that this piece of equipment can be vibrated using only two small 3.5kw motors. This design leads to high energy efficiency, long life, low maintenance, easy installation and quiet operation.

Sub Resonant Vibrating Screens are powered by an electromechanical motor which passes the vibrating force through drive springs. These springs transfer up to 90% of the power required to vibrate the screen.

This drive system may save up to 70% on energy costs compared to a Direct Drive Vibrating Screen and also have a longer life expectancy due to smaller stresses, lower maintenance costs, they pass less dynamic forces to sub structures and are quiet and more reliable.

The Vibroflow design team used Autodesk Inventor 2010 for all modeling and design.

Autodesk Inventor allows Vibroflow engineers to accurately line up centre of gravities and measure weights which is crucial for the Sub Resonant Drive System to operate at it's maximum performance.

While working on this project Vibroflow used Design Review to enable clear communication and design analysis between the team in Australia and the engineers on location in South Africa.

