**Densimetric Tables are designed to separate materials through material density, typically of a dry product. They have successfully been used to separate a wide array of materials for industries, including various recycling, mining, and food and beverage applications.**

## SAFER

McLanahan's Densimetric Tables are engineered with a robust design that is meant for heavy-duty jobs and equipped with a ROSTA spring system. This spring system reduces maintenance, and Densimetric Tables have the ability to run 24-hours a day with little to no operator interaction. An optional dust protection system can be implemented with a cyclone attachment or bag filter.

## SIMPLER

To make a separation, Densimetric Tables use only air to separate fractions up to 3" that have previously been classified through screen sizing panels. The mixture of materials is then fed directly onto a perforated inclined tray that operates in a vibrating elliptical motion that is crossed by a current of rising air.
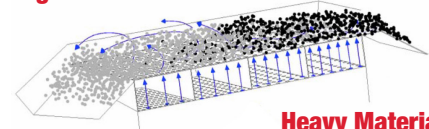
Material is then fluidized and separated according to product densities. Heavy materials move to the bottom and into contact with the tray, being transported by the vibrating motion along the slope toward the highest outlet. Lighter material is pressurized, fluidized, suspended, and slid to the bottom of the tray, aided by the distribution of air flow.

## SMARTER

Densimetric tables are designed to control the effects of fluidization and the oscillating motion with precision and stability. The vibrating motion of the tray is elliptical and generated by an eccentric shaft. This movement improves the dispersion of materials in the fluidizing process, increasing the separation efficiency. Additionally, with the use of the ROSTA springs, users reduce their air and energy consumption, while getting a better return on investment when compared to other density separation systems.





**Light Material**

**Heavy Material**

Above: Light material exits on one side, while heavier material exits the other.