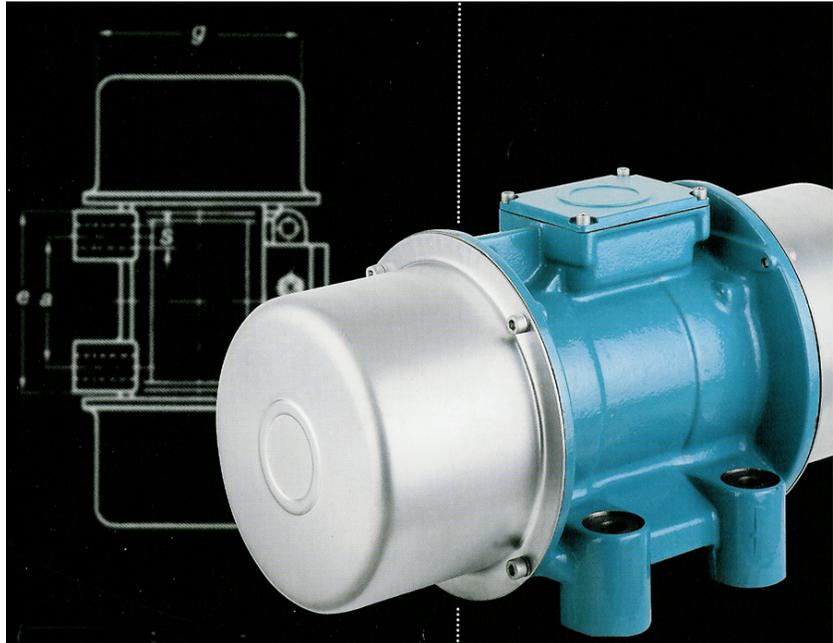


Electromechanical Drive



MODEL

Unbalance Vibrating Motor

Refer to bulletin UV2 for Technical Data



Electromechanical drive on a UPF feeder

JVI Electromechanical vibrators are designed specifically for use as the drive mechanism on vibratory feeders and screens in all types of bulk material handling applications. UV model vibratory drives are dust tight, easy to install and provide reliable, low maintenance service.



JVI vibratory drives are designed specifically for use on vibratory equipment.

JVI Electromechanical Drives

Technical Information

JVI Electromechanical vibratory drives are designed specifically for use as an eccentric weight vibratory motor on vibratory equipment. The low maintenance design incorporates a heavy-duty oversized shaft to prevent shaft deflection. The shaft also suspends the rotor assembly between special heavy-duty roller bearings. This premium quality electromechanical vibrator is built to hold up in the most rugged of applications. It is dust tight, suitable for wash down, and designed for continuous duty at 100% of maximum force output. The JV drive does not require retuning and offers reliable feed rates regardless of material load size.

Applications

As a single drive unit, the electromechanical vibrator produces an elliptical movement. This motion can be used to drive screens, vibratory tables and packers, shakeouts, or bin-dischargers.

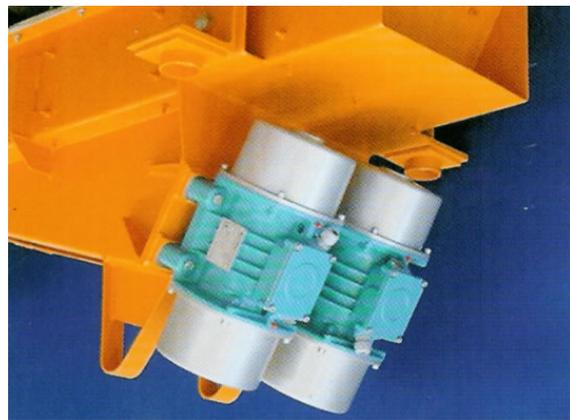
Using two electromechanical vibrators, rotating in the opposite directions and mounted on a common beam, true linear motion can be achieved. This linear motion is ideal for driving vibratory feeders of any type, as well as vibratory screens and conveyors. This phenomenon occurs because the two motor flyweights synchronize with one another and a linear force vector, normal to the mounting surface, is the result.

Controls

By means of a frequency inverter, the speed of the unbalanced motors can be infinitely adjusted during operation. The frequency inverter is fully digital and microprocessor controlled. When switched off, a DC injection brake is energized for quick stopping.



JVI drives on a feeder



A single mass arrangement feeder

Size Selection

There are over 100 models of UV drives to choose from. Use the vibration theory equation to assure that the correct size of drive is selected for your application. Refer to bulletin UV2 for sizes and dimensions.