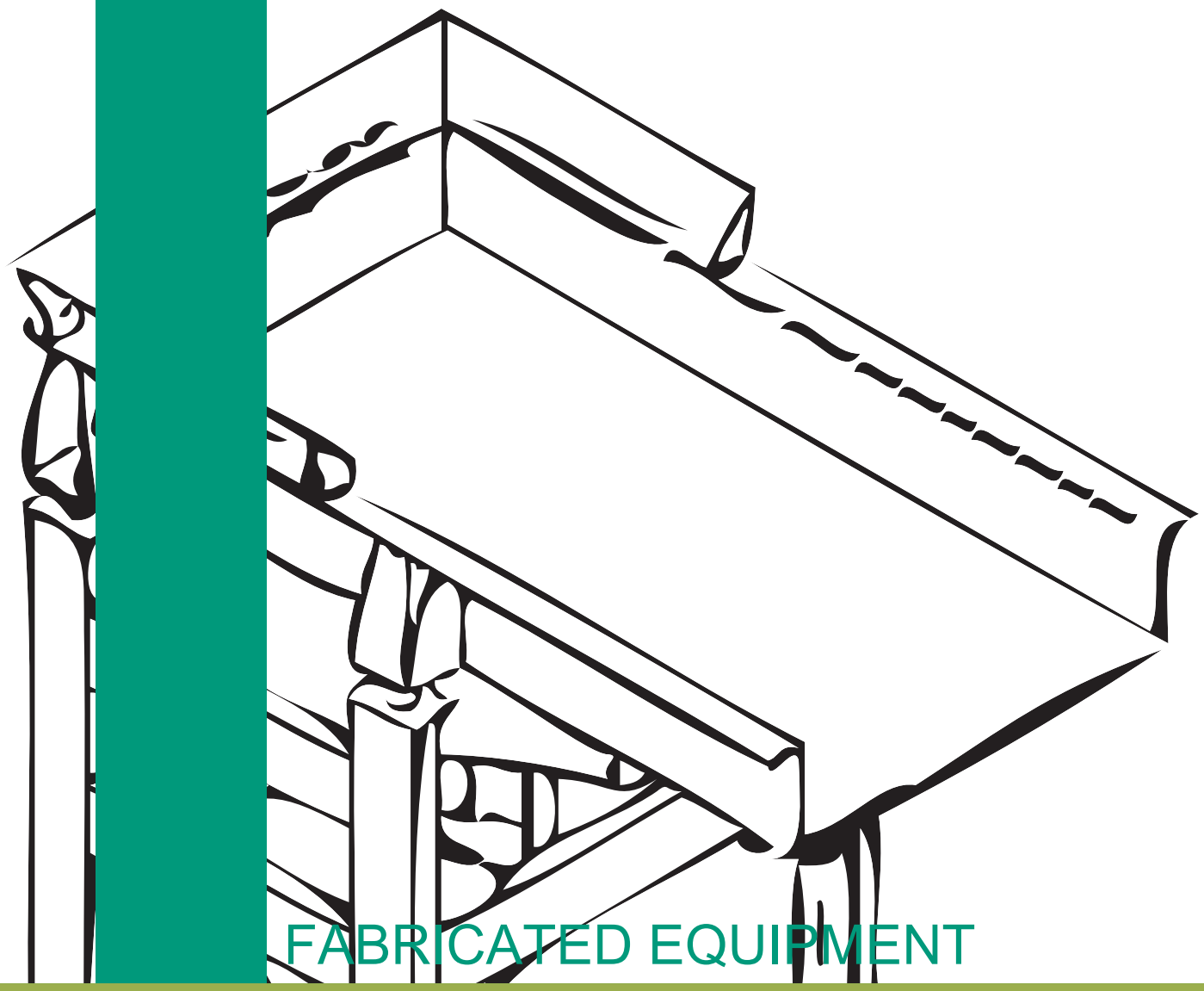
SANAT MECHANIC

VIBRATOR *FEEDERS*



FABRICATED EQUIPMENT

VIBRATORY FEEDERS

PRODUCT OVERVIEW

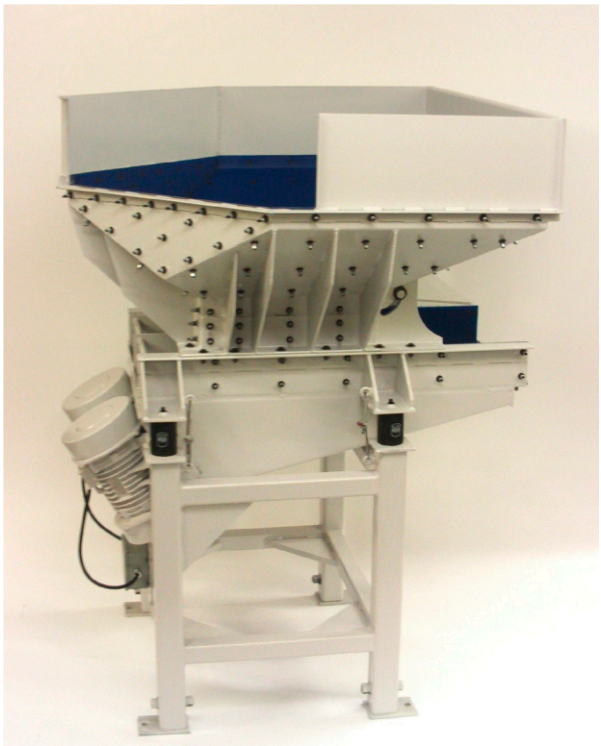
VIBRATORY FEEDERS

The SMQ Vibrator Company offers a wide range of light , medium and heavy-duty vibratory feeders for controlling the bulk flow of materials.

Production line systems incorporating vibratory feeders can provide:

- Fully automated or semi-automated fill stations
- Fully adjustable volumetric flow
- Linear motion that is smooth and uniform
- Safety under the most hazardous conditions

The SMQ Vibrator Company tailors our product to the individual needs of your business . Call today to find out how we can improve your productivity and profits.



IDEAL FOR...

- CHEMICAL PLANTS

For the controlled flow of ingredients to mixing tanks

- FOOD INDUSTRY

To sprinkle toppings or coatings on food and dairy products

- FOUNDRIES

For the addition of binders and carbons to sand reprocessing systems

- PULP &PAPER INDUSTRY

For chemical additive feeding in the bleaching process and chip handling systems

- METAL WORKING INDUSTRY

For feeding metal parts to heat treating furnaces

- CERAMICS INDUSTRY

For controlled ingredient flow in the batching process

- GLASS

For feeding glass cullet to the furnace

- CHEMICAL ADDITIVE HANDLING

Such as lime or diatomaceous earth in water and sewage treatment plants

TAILORED ON DEMAND

Our feeders are available in a variety of trough shapes .Units can be furnished with special trough polymer ,non-stick textured surfaces or removable abrasive-resistant steel plate .

The trough can be furnished in steel or polished stain less steel to meet the most demanding requirements.

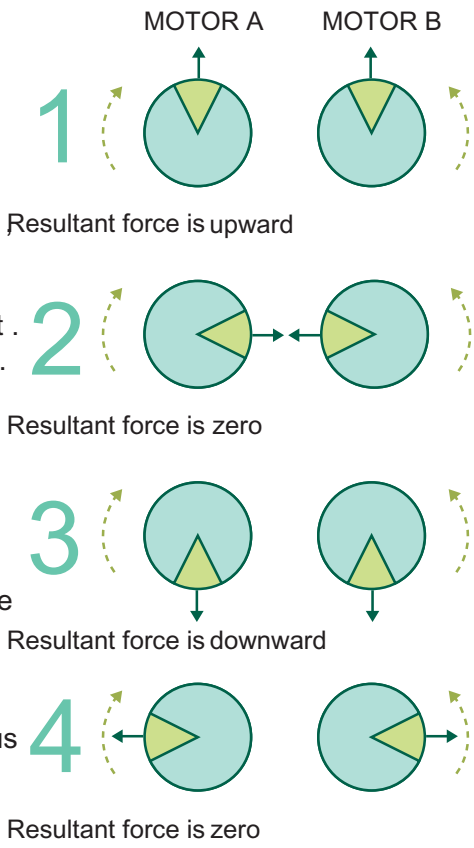
TWIN MOTOR PRINCIPLES

The SMQ Vibrator Company EMF electro mechanical feeders utilize forces set up by two synchronized counter-rotating ,heavy-duty mo tors .At two points in each complete revolution , the centrifugal forces of each vibrator coincide , resulting in linear force ,while at all other points the forces are opposed and cancel out .

Force is easily adjustable from 0 to 100 percent . Settings are marked on the shaft of each motor.

Mounting the vibrators on a rigid pan or trough that is properly supported with isolation mounts results in straight line ,push/pull linear motion . The motors ,which are synchronized and bal anced with each other ,eliminates the isolation problems normally associated with simpler brute force ,single eccentric drive systems.

Motors with 900 ,1200 ,1800 and 3600 RPM are available .All motors are rated for continuous duty maximum force settings.



INSTALLATION

EMF electromechanical feeders can be arranged for either base or suspension installation .Here are a few helpful considerations for proper installation and maximum feeding efficiency .

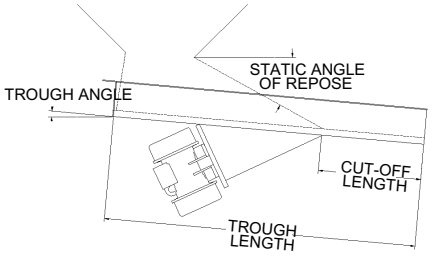


Fig .1

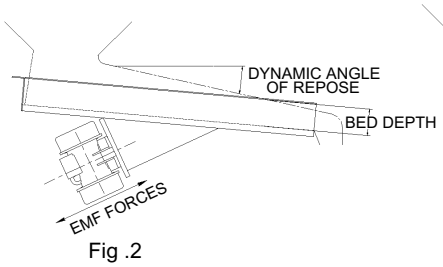


Fig .2

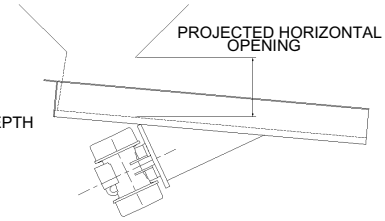
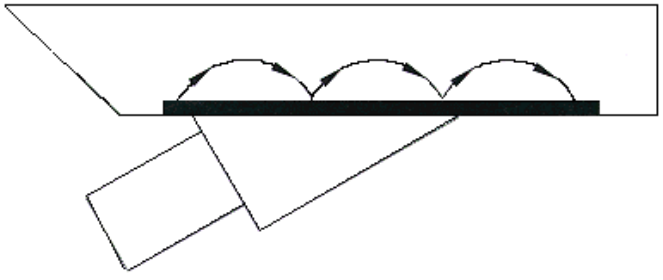


Fig .3



The power ,or motivating source ,is attached to the feeder tray at a prescribed angle .This angle will vary due to the physical character istics of the product .

The entire feeder ,being either suspended or on isolation mounts ,is moved forward and upward ,which also moves the material for ward and upward .The tray then returns back to its original position .However ,the material does not move backward due to the slower action of gravity .