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Instructions For Safe Installation of SIVTEK Vibro Separator,



When setting up your new SIVTEK Vibro Separator for production, you have to understand that there's more to it than simply connecting power to it, loading it up, and processing your material. Here's a quick checklist for you to follow as you prepare to use your new separator once it arrives at your plant.

Visual Unit Inspection:

Check the separator for transit damage or handling damage while unloading. Items to check should include the screen mesh, Sieve Decks, Eccentric Mass, power connection box, Lubrication tubes, band clamps and springs.

Foundation:

The separator should be installed on a solid, stiff foundation. Operating the separator with it placed on a pallet or similar loose surface will greatly reduce the screening efficiency. There should be very little or no vibration detectible on the base when the separator is in operation. Thumb Rule for checking it -Place a coin on the base ring near springs in machine running condition and it should not vibrate much or fall down. If it falls down, check leveling and sturdiness of foundation.

Space around the Separator:

Sufficient space must be allowed around the separator not only for the purpose of screen replacement but also for the Maintenance activity. All spouts/frames should have a minimum clearance of 2 inches from any stationary object to avoid it from any damage during starting and stopping of machine.

Shipping Brackets:

All SIVTEK Vibro Separators are supplied with shipping brackets which provide a rigid connection between the motor casing and the base during shipment. The brackets are located, equi-spaced, between the spring assemblies and must be removed after the unit has been installed, but prior to connecting the electrical power to the motion generator. Operating the unit, including checking the motor rotation, with the shipping brackets in place can cause permanent damage to the motor and the separator. Kindly preserve these shipping brackets for future use while shifting of separator for any reason.

Deck Assembly:

At no time should the separator be operated without decks fixed, as this can cause the motor casing to disengage from the support springs which in turn can cause permanent damage to the gussets of Motor casing, motor cable, springs, spring retainers and lubricating tubes. Ensure that Decks or discharge spouts are not damaged in transit. Also ensure that nothing is tied up with discharge spout except the flexible connector. Placing any heavy article on spout may lead it to cracking at the joints.

Screen Frames:



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Ensure that wire cloth fixed on the frame is intact and not damaged during the transit. Also check that it is not got loosened in the transit. If it is torn off or loose, it will not give correct results while sieving. In multiple decks separator, ensure correct order of screen frames to get desired classification. It should be from coarse mesh to Fine mesh in top to bottom order. Also ensure to use **Velocity Breaker** at Input stage for any wet screening application.

Band Clamps:

The band clamp assemblies hold the various sections of the separator in place. During shipment, the separator is subject to vibrations which cause the band clamps to loosen. It is imperative that all of the band clamps are re-tightened prior to start up and again after 30 minutes of operation to prevent sieve deck rotation and subsequent damage to the separator. Always use special tool supplied for locking the pull clamp handle. The tool is designed for proper leverage required to operate such toggle (pull) clamp.

Eccentric Mass:

Eccentric Masses are fixed with factory recommended settings. The settings may have changed during shipment. Ensure bolts are fully tightened on eccentric masses. Fine tuning of the Eccentric Masses and Lead Angle might be required after start up with Product to get optimum results.

NOTE: ALWAYS TAKE OUT ELECTRIC POWER PLUG BEFORE SERVICING ECCENTRIC MASS.

Product Inlet & Discharge Connections:

The connectors / Bellows for the product inlet (Lid) and product discharge (spout) need to be flexible. There should be sufficient clearance to install the connectors. The connectors should not be compressed and should be installed in a vertical position. A minimum of 4 inches is required between any inlet/outlet and any stationary pipe.

Motor Rotation:

It is now safe to check the rotation of the motion generator. After removing the shipping brackets, connect the power cable and check the rotation of motor. The rotation should be counter clockwise, from left to right. Open the maintenance door and see the bottom eccentric mass movement to ensure correct rotation of motor.

Application Confirmation:

Make sure that the product, the feed rate and the product mix ration are consistent with the data that was provided when the type / model separator was selected.

Now SIVTEK Vibro Separator is Ready to use.

"Happy Sieving"