

**LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
SPECIFICATIONS**

VIBRATORY SHAKER

DESCRIPTION:

This specification covers the requirements for a Vibratory Shaker used for the gradation of aggregates for materials testing.

REQUIREMENTS:

Shaker must hold seven (7) screen trays plus one (1) dust pan. Screen trays must be designed to allow screen cloth to be replaced. Shaker is to be of counter-balanced drive assembly and fully enclosed.

Must be/have the following:

- An electronic digital controller, with an LED display that shows the time remaining and produces an audible tone at the end of the test cycle. A controller capable of programming a test cycle up to 99 minutes, the controller must allow for the interruption of a cycle without loss of test time.
- Internal rotating counterweights of the drive system to equalize the vertical screening action to assure smooth, quiet operation and to prevent transfer of vibrations to other laboratory instruments.
- Capable of being placed anywhere within the laboratory without the need of permanent installation.
- An integrated, moveable materials hopper. The hopper is to be rear-hinged to allow sample to be introduced incrementally while the shaker is running.
- A panel that prevents dust from escaping into the atmosphere when the hopper is closed.
- Access doors that are vertically-hinged to allow access to the trays.
- Doors that are equipped with a safety interlock switch that disables the shaker when the doors are open.
- Equipped with an ergonomically operated foot-pedal to operate the hydraulic clamping and release system for the trays.
- One (1) operator's manual and parts list
- All seven (7) specified screen trays and one (1) dust pan

ELECTRICAL:

- Standard power utilities of 115V, 60Hz with a capacitor start 1/3hp motor.

WARRANTY:

- Must include a standard manufacturer's warranty.

APPROVED BRANDS/MODELS:

- Gilson model TM-6 or equal.