OPERATIONAL MANUAL

PNEUMATIC SAND COMPACTOR

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1 Application

Prepares a standard cylindrical sand sample (50 mm x 50 mm in size) to control the various properties of sand used in foundries.

2 Technical specifications

Power supply: 220 V AC power source
Device dimensions:250*250*620 mm
Device weight: 28 kg

3 Standard features

50 mm X 50 mm mold sample chamber

4 Operation

Weigh the required amount of sand on a scale to ensure the test piece is of the necessary dimensions.
This amount of sand may vary depending on the type and quantity of sand. This amount generally varies between 135–170 grams. The weighed sand is placed on a special base and poured into a 50 mm diameter tube.
Care should be taken to ensure that the sample sand is well distributed in the tube. The tube is then placed in position. The device must be connected to the air supply. This prepares the tube for compaction. Then, the green button is pressed, and the pneumatic system lowers the piston, performing the compaction. (A few seconds are sufficient for the compaction process.) The desired dimensions of the sand test piece are checked using the mark on the front of the device. If not, the correct weight is found by reducing or increasing the amount of sand used, and the test is repeated. Then, the red button returns the system to its starting point. The sample is removed from the container using the apparatus.

3 Precautions

Always keep the piston in the starting position when not in use.
Do not operate without a sand sample, as this may damage the body.