

SAND RAMMER



1 Application

- To prepare standard cylindrical sand specimen (50 mm X 50 mm size) for checking various properties of the sand used in foundries.

2 Description

- The equipment consists of main body frame with ramming plunger, lifting cam, ramming cam, indicator scale & calibrated sliding weight. Along with the equipment one specimen tube, one pedestal cup & one stripper are supplied by default.

3 Operation

- Place the specimen tube on the pedestal cup, take approximately 150 gms of sand (the weight may differ for different sands) in the tube. Lift the ramming plunger by using lifting cam, place the tube along with pedestal cup below the plunger ensuring the locating pin of cup is inserted in the hole of base of rammer.
- Slowly lower the plunger by lifting cam & allow the plunger to move in the tube to rest on the sand. Then by using ramming cam allow only 3 drops of the calibrated sliding weight on the sand to get rammed sand sample.
- After 3 drops the top of the plunger should coincide with the '0' mark on the indicator scale, it means the sample prepared is of exactly 50 mm height. If the plunger top coincides in between plus (+) & minus(-) scale then the sample height is within acceptable limits.
- Lift the plunger using lifting cam, remove the tube with sand specimen & place in inverted condition on the stripper to remove the sand sample from tube. Slowly pull the tube downwards the sample will come out of tube & rest on the stripper. Use the sample for further testing.

4 Precautions

- Keep the plunger always in lifted condition by using lifting cam when rammer is not in use.
- Do not operate ramming cam without sand sample as it may cause damage to the body bracket.
- Clean the equipment after use & lubricate the moving parts by using diesel once in a week. Do not use oil or grease for lubrication.