

Material Testing

TML FLOW TABLE TEST

Transportable moisture limit flow table test machine



THE FLOW TABLE TEST OR FLOW TEST IS A METHOD TO DETERMINE CONSISTENCY OF FRESH CONCRETE.



Features and benefits

- Easy repeatability because each tamp action will be the same
- With the motor you can ensure that each test (in each laboratory) will be carried out the same way with the same parameters each time. There can't be any "human deviation" in the turning action
- No strength or heavy lifting of the tamper, the operator only needs to push a button in the handle.
- Easy adjustable bar setting using the knob on the pressure gauge
- Reproducible results to provide quality data

Description

The transportable moisture limit flow table test is a method to determine the amount of cargo that is safe for transportation. The test is mostly done with mine mineral concentrates or other fine materials with a max size of 1mm

The sample is placed in a mold and tamped to replicate the amount of pressure during transportation. The mold is then removed and the tamped material is subjected to physical forces to determine the deformation.

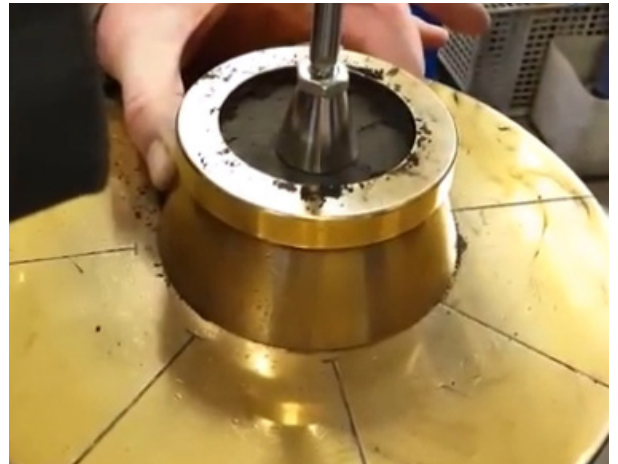
Operation

The transportable moisture limit flow table test machine is connected to our motor. The motor is operated with a display touch screen that has build in user friendly programs to control the machine.

You can set the desired parameters for your test enter the amount of drops and change the rpm and the time.

Safety

The biggest advantage of this is that all the actions will be the same and the results will be 100% accurate because there won't be any "human deviation" in the turning action. The operator only needs set up and start the program



TML Flow Table Test using the tamper



TML Flow Table Test turning action motor



TML Flow Table Test result

Applications

The LAARMANN® TML Flow Table Test covers a wide range of applications in important industries such as:

- Measure the flowability of cement mortars and grouts.
- Determine workability of fresh concrete (especially for self-compacting mixtures).
- Evaluate consistency changes due to admixtures or water content variations.
- Support product development for new cementitious formulations.

Technical specifications

Applications	Cement-based mortar, Concrete mixtures, Grout, Self-leveling screeds, Plaster
Application fields	Construction materials laboratories, Cement and concrete manufacturing, Civil engineering research, Quality control in precast concrete production, Standards testing (e.g., ASTM C1437, EN 1015-3)
Working principle	Dropping a mortar-filled cone onto a flat table, then lifting the cone and repeatedly dropping the table to measure how far the material spreads, indicating its flowability or consistency.
Speed setting	10-55rpm
Setting adjustment method	Drop mode, time mode
Drop amount	1-99
Surface frame	250mm / 762mm
Electrical requirements	220V ± 10% - 50/60Hz
Power supply	3 kW
Noise emission	± 80 dB(A)
Ambient temperature	5°C – 40°C
Atmospheric humidity	< 85% RH
Power connection	1 phase
Standard	CE
Protection code	IP40
Weight	38kg
Dimensions (width x length x height)	723 x 403 x 749mm