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Gyratory compactors for cement and concrete

MAIN FEATURES

- o Ideal for mix design of No slump concrete
- o Two versions: standard and research with the measurement of the shear resistance during compaction
- o Conforming to NT Build 427 (Scandinavian NORDTEST method)

GENERAL DESCRIPTION

Introduction

This method, very popular in Scandinavia, is used for mix design and quality control mainly in concrete products plants, where low workable and zero slump concrete is used (for such products as hollow-core slabs, tubes and paving blocks).

The method is used for: mix design simulating selected production processes specimen preparation for strength test (fresh and cured) research of mix related phenomena (workability, curing time, admixtures etc.).

Description

The compaction of the specimen is achieved by the simultaneous action of a low static compression, and of the shearing action resulting of the motion of the centerline of the test piece, which generates a conical surface of revolution, while the end of the test piece remain approximately perpendicular to the axis of the conical surface.

We propose two versions:

54-C0252/C Standard and

54-C0251/A Research model which can also measure in real time the shear resistance of the material during compaction which is an important parameter for research purposes.

Both models are pneumatically operated.

The machines are supplied complete with one 100 mm dia. mould, accessories to perform the test and WIN-ICT software for the machine control, data acquisition and compaction curve processing and Excel Macro for gyratory compaction test complete of data processing: PC not included.

TECHNICAL SPECIFICATIONS

Models	54-C0252/C	54-C0251/A
Specimen size, mm	100 dia. x 90-130 high	100 dia. x 90-130 high
Gyratory angle (calibrated by 40 mrad)	2° 17" fixed	Adjustable from 0 to 50 mrad (2° 86")
Number of cycles	Adjustable 2 to 512	Adjustable 2 to 512
Rotation speed	Adjustable 30 to 120 Cycles/min	Adjustable 30 to 120 Cycles/min
Vertical pressure (kPa)	Adjustable 60 to 320	Adjustable 60 to 320
Working air pressure	8 bar	8 bar
Recommended air supply	10 bar with 5µm filter	10 bar with 5µm filter
Vertical pressure gauge	Range 0-10 bar	Range 0-10 bar and 0-4 bar
Shear force measurement	No	By incorporated load cell
Dimensions mm approx.	350x480x930	500x600x1100
Weight approx.	55 kg	95 kg

ORDERING INFO

54-C0251/A

Gyratory compactor for cement and concrete. Research version with shear resistance measurement. 230 V, 50-60 Hz, 1 ph.

54-C0252/C

Gyratory compactor for cement and concrete. Standard version. 230 V, 50-60 Hz, 1 ph.

ACCESSORIES

Spare parts**54-C0250/C5**

100 mm dia. mould for concrete gyratory compactors



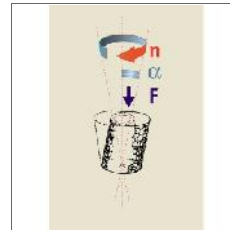
54-C0252/C Concrete gyratory compactor, standard version



54-C0251/A Concrete gyratory compactor, research version



54-C0250/5 mould



Schematic view of gyratory compaction