

ConTec offers four different coaxial cylinder measuring systems for the BML-Viscometer.

Each measuring system is designed for a different aggregate size. The M-170 and M-200 are for mortar and cement paste and the C-200 and C-240 for concrete. See text below for aggregate sizes.

The coaxial cylinder measuring system consists of an outer cylinder, the mix-container, an inner cylinder unit and a top ring. The outer cylinder is mounted on a rotating disk on the instrument where guide-ribs on the disk make sure that it is seated correctly. The inner cylinder, which registers the torsion-moment, is lowered into the outer cylinder by a hydraulic system.

The inner cylinder is constructed as a two component unit, the bottom unit which is fixed at the mounting point of the inner cylinder and the upper unit which is free to rotate against a load cell which registers the torsion-moment. This arrangement of a two unit inner cylinder will virtually eliminate the effect of three-dimensional shearing at the bottom of the inner cylinder and therefore requires no special correction as to the bottom effect.

The top-ring is fitted over the inner cylinder. The purpose of the top-ring is to insure a constant height of the inner cylinder in relation to the sample mix in the outer cylinder. The top-ring also minimises additional shearing at the top of the inner cylinder caused by surface tension.



M-170 coaxial measuring system

M-170

measuring system for mortar, cement paste, cement based repair materials and grout. The system is optimised for aggregate size of 3 mm with recommended maximum aggregate size of 5 mm.



M-200 coaxial measuring system

M-200

measuring system for mortar, cement paste, cement based repair materials and grout. The system is optimised for aggregate size of 5 mm with recommended maximum aggregate size of 8 mm.



C-200 coaxial measuring system

C-200

measuring system for concrete. The system is optimised for aggregate size of 16 mm with recommended maximum aggregate size of 22 mm.



C-240 coaxial measuring system

C-240

measuring system for concrete, coarse aggregate. The system is optimised for aggregate size of 22 mm with recommended maximum aggregate size of 32 mm.

M-140 measuring system for cement paste and in particular mortar containing EN 196 sand, will be now available

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