

**LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
SPECIFICATIONS**

BENCH TOP MIXER

DESCRIPTION:

This specification covers the requirements for Bench top mixers used for mixing hydraulic cement pastes and mortars of plastic consistency.

REQUIREMENTS:

The Bench Top Mixer shall have the minimum capacity of at least 5 quarts. The mixer shall include all accessories, components, and equipment required to prepare specimens for testing as detailed below and shall meet current UL commercial safety standards.

Must be capable of preparing specimens for the following tests/specifications:

- Alkali Reactivity C227
- Mechanical Mixing of Hydraulic Cement C305
- Compressive Strength Hydraulic Cement T162
- Compressive Strength Hydraulic Cement C109

Must come complete with the following accessories:

- Two (2) Stainless Steel Beaters meeting ASTM C305
- One (1) 5-Qt. (4.73L) Stainless Steel Bowl
- Adjustment Bracket

Machine Dimensions:

- Mixer dimensions must not exceed 17" x 13" x 20" (L x W x H)

Mixer must be/have the following:

- Industrial grade laboratory mixer
- Planetary & revolving action for thorough mixing, blending and aerating of materials
- A direct gear driven transmission
- Motor must have the ability to withstand constant mixing speeds under load
- Locking hand-lever to raise and lower bowl
- Mixer must be adjustable for clearance between beater and bowl as per ASTM C305
- Three (3) Fixed Speeds (140 ± 5, 285 ± 10 and 591 ± 10 rpm)
- Selectable operating speeds

Electrical:

- 1/6 H.P. Fixed Speed Motor (100-120V 2.9 Amps)
- Minimum 4ft (1.2m) power cord

WARRANTY:

Must include a standard manufacturers' warranty

APPROVED BRANDS/MODELS:

Hobart N50A, Gilson MA-52X, or equal