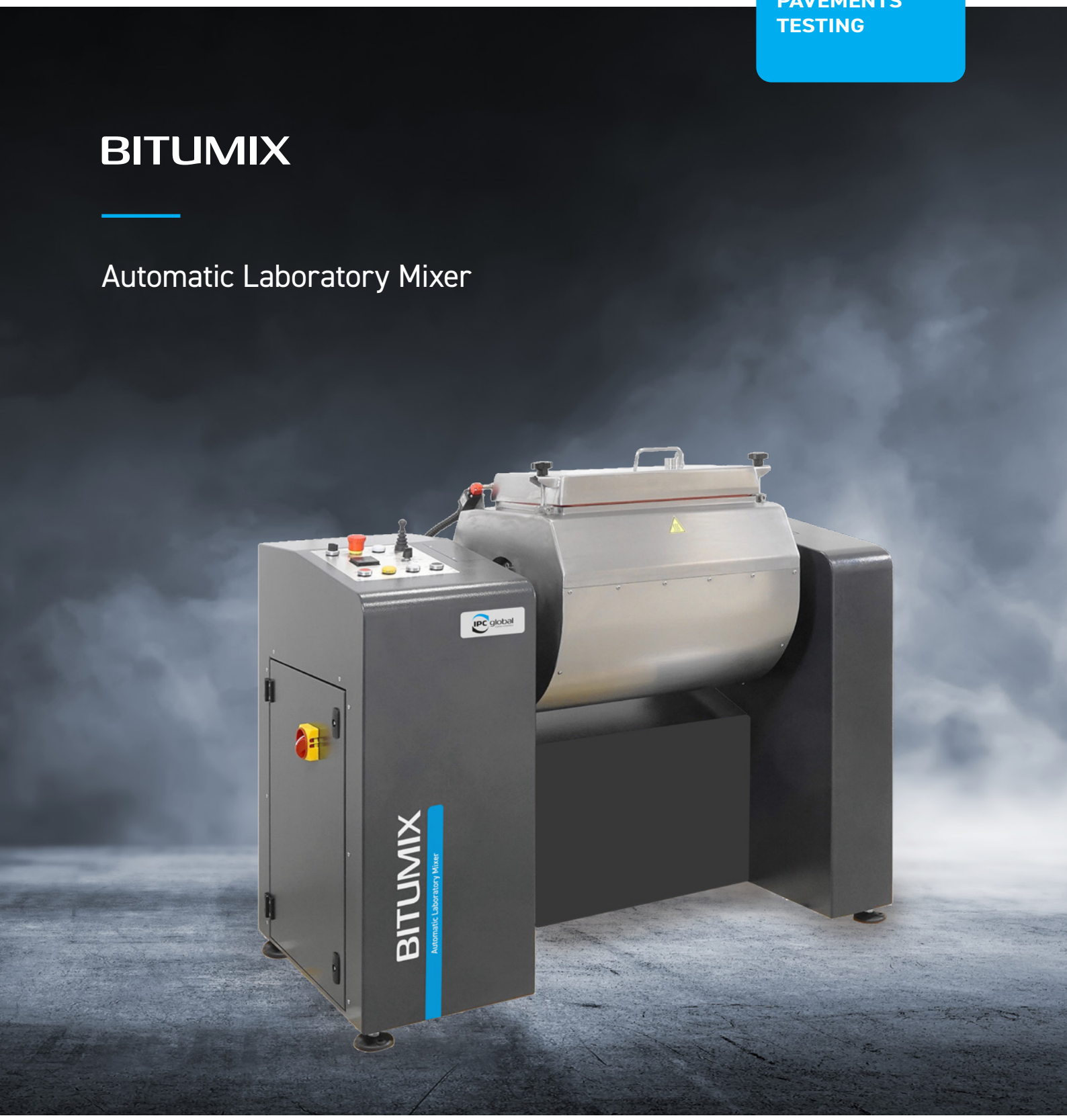
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ADVANCED
PAVEMENTS
TESTING

BITUMIX

Automatic Laboratory Mixer



www.controls-group.com



Standards: EN 12697-35

The design and testing of bituminous mixtures includes various laboratory tests such as Marshall stability (EN 12697-34), Gyratory compaction (EN 12697-31), Slabs laboratory compaction (EN 12697-33) to prepare specimens for Wheel tracking (EN 12697-22) and Determination of stiffness including Beam fatigue testing (EN 12697-26, EN 13108).

To produce samples for performing the above tests, it is essential that the preparation of a bituminous mixture is carried out at a reference temperature and within a limited time period in order to reduce mechanical degradation of the aggregates. The mixer should also be capable of entirely coating all mineral substances in not more than 5 minutes as stated by EN 12697-35.

The mixer consists of a horizontal stainless steel mixing container with a helical mixing shaft. The container is well insulated and comes complete with a heating element and probe sensor which provide uniform temperature control. The container can be easily tilted by the electric motor for the unloading operation.

The mixer is also avilable in a special version complete with mixing tool with removable and adjustable blades, for easy maintenance and possibility to adjust the gap between blade and container.

This version also includes an adjustable mixing timer.

Features

- Conforms to EN 12697-35
- Ideal for preparing large laboratory samples for mix design
- New improved mixing drum and heating system
- Mixing capacity up to 32 liters
- Mixing speed adjustable from 4 to 40 rpm
- Mixing temperature adjustable up to 260° C
- Stainless steel (AISI 304) mixing container
- Temperature control with PT 100 probe
- Digital temperature display
- Easy unloading by motorized tilting system, total rotation up to 130°



Specifications

Mixer capacity: 32 liters

Mixing speed: adjustable from 4 to 40 rpm

Mixing temperature: adjustable from ambient to 260°C

Temperature control:
PT 100 sensor

Motorized mixing container:
Tilting angle up to 130°

Power: 7,000W (total) 4,500 W (heatting)

Voltage:
380-400 V, 50 Hz, 3 ph or
220 V, 60 Hz 3 ph

Overall Dimensions:
1,350 x 650 x 1,205mm (W x D x H)

Weight: 320 kg approx.

Ordering Information

77-PV0077/C
BITUMIX automatic laboratory mixer,
32 liters capacity.
380–400 V, 50 Hz, 3 ph.

77-PV0077/CZ
As above but 220 V, 60 Hz, 3 ph.

77-PV0077/CD
BITUMIX aumatic laboraory mixer
32 liters capacity.Complete with
mixing tool with removable and
adjustable blades and mixing timer.
380–400 V, 50 Hz, 3 ph.

77-PV0077/CDZ
As above but 220 V, 60 Hz, 3 ph.



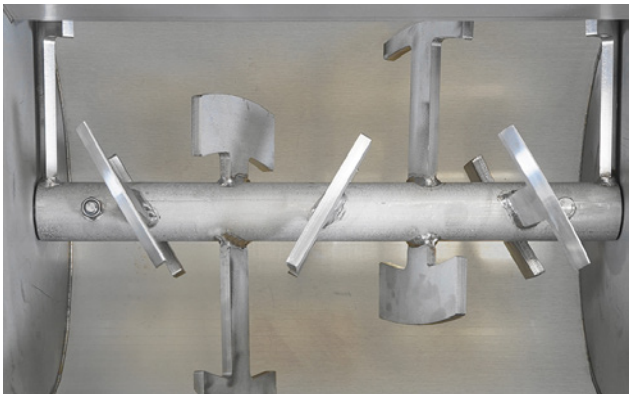
Control panel



77-PV0077/C Detail of aggregate loading



77-PV0077/C Detail of unloading. The mixing cylinder is rotated by a motorized tilting system for easy unloading. The tilting angle is adjustable to 130° to speed up the unloading operation



77-PV0077/C Detail of drum with helical mixing shaft

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