UNIVERSAL CONCRETE AND ASPHALT SAW-MULTISAW

Standard cutting machines in the market are standard saws for field use in the building industry. They do not assure the rigidity and stability to obtain precisely specimens for laboratory use. For this reason, we have designed and produced the specific requirements of the relevant Standards and consequently of the Research and Central laboratories.

Multisaw is a universal sawing system for fast, accurate cutting of beams from prisms and for trimming cylinders. An easy-to-use spacer system sets the specimen position and allows beams or cores to be cut without the need for measurement. The saw blade advances and retracts to the home position by a user-friendly hand wheel.

The Multisaw includes the multislab jig, complete with table and manual clamping device for slabs. Cores at the desired length. It can be fitted with 650 mm dia. blade with a maximum cutting depth of 200 mm and prism length of 500 mm (extendable to 700 mm, on request).

The Multisaw allows an easy-to-use sawing system for the Four-Point Bending Beam tests, Two Point Bending Beam tests, TSRST, Texas Overlay Test, Prall Test, Semi-Circular Bend Test, Wheel Tracking Tests with large and small devices, or any concrete beam or cylinder. The system allows cylindrical cores with diameters from 100 to 150 mm, and 200 mm dia. to be quickly and accurately cut to different lengths from 10 to 300 mm.

The Multisawcan be used as part of your Superpave performance based testing program.

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SPECIFICATION

Blade diameter	650 mm
Max cutting depth	200 mm
cores *	100 or 150 mm

Prism length *	Max 500 mm
Accuracy	Length, perpendicularity and flatness +/- 1% max. according to Standards
Blade speed	1400-1680 rpm (50/60 Hz)
Cooling	Water recirculation pump and tank (included)
Power supply	5 kW
Voltage	400 V, 50 Hz, 3 ph or 220 V, 60 Hz, 3 ph
Dimensions (lxwxh)	2000 x 800 x 1700 mm
Weight approx.	450 kg

ADDITIONAL INFORMATION:

Cutting of prisms and slabs to be used in Four Point Beam Bending tests according to EN 12697-24D and 26B and AASHTO T321

Cutting of trapezoidal specimens to be used in Two Point Beam Bending tests according to EN 12697-24A and 26A

Cutting AMPT cylindrical specimens round cores

Cutting TSRST specimens according to EN 12697-46 and AASHTO TP10

Cutting and dressing of Wheel Tracking slabs or cores according to EN 12697-22 and AASHTO T324

Cutting Prall test specimens according to EN 12697-16

Cutting Overlay test specimens according to TX-248-F

Cutting Semi-Circular Bend test specimens according to EN 12697-44 (except for the notch)

Cutting concrete slabs and cylinders

Cutting accurately 100, 150 and 200mm dia. cylindrical cores to different lenghts.

FEATURES

- Standards in terms of precision, planarity and perpendicularity of the specimens.
- High rigidity and stability
- Slab and prism of any shape and dimensions can be without additional accessories (see table for maximum dimensions)
- Jig for round cores, from 100 to 150 mm and for 200 mm dia, length up to 300 mm
- Unique clamping mechanism for cylindrical specimens minimizes specimen damage. Use of a sacrificial PVC tube produces a superior finish and minimizes the edge of the chipping of asphalt samples
- Easy spacer system allows precise preparation of beams or cores
- Saw blade to home position
- Motor mounted on twin chrome-plated steel rails with sealed bearings
- Also suitable for concrete and rock samples

ORDERING CODE

77-PV47005

MULTISAW, asphalt saw, complete with asphalt multi-slab jig. Blade not included. 400V/50Hz/3ph+N

77-PV47006

MULTISAW, asphalt saw, complete with asphalt multi-slab jig. Blade not included. 220V/60Hz/3ph+N

77-PV47000/C1

Multisaw Diamond blade 650mm dia. for concrete elements

77-PV47000/1

Diamond blade 650mm dia. for asphalt, suitable forAutosaw II and Multisaw

77-PV47000/2

Sacrificial PVC tube for 100mm dia. cores

77-PV47014

Jig for round cores, from 38 to 200 mm dia, for Manual cut of samples from 10 to 300 mm length

77-PV47020

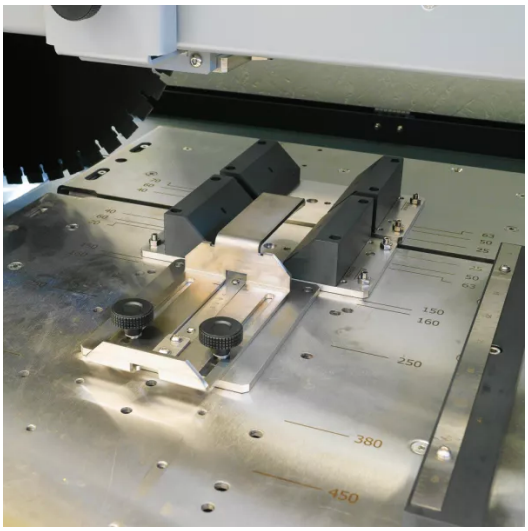
Jig for trapezoidal specimens, to be used in Two Point Bend test according to EN 12697-24A and 26A

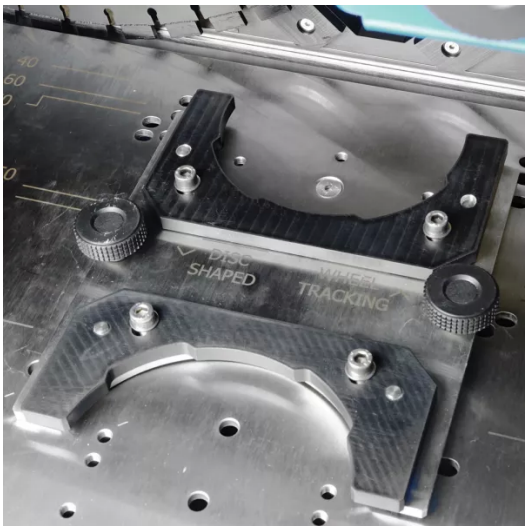
77-PV47025

Jig for Wheel Tracking cores, Semi-Circular Bend test samples (except the notch) and Disk Shaped Compact Tension samples(except the notch and two holes). 77-PV47011 or 77-PV47014 are required.

77-PV47030

Jig for Overlay test samples according to TX-248-F(77-PV47011 or 77-PV47014 required)

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