

DATA SHEET

Universal Asphalt and Concrete Saw, MULTISAW



Cutting machine MULTISAW sawing asphalt slab by included holder

General description

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 38 to 200 mm, to be quickly and accurately cut to different lengths from 10 to 300 mm.

The **Multisaw** can be used as part of your **Superpave performance based testing** program.

Main 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 38 to 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

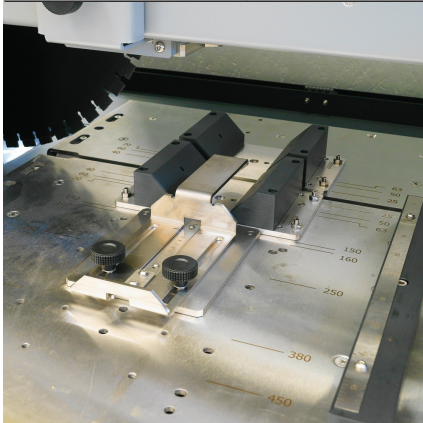
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Standards

- AASHTO R83
- AASHTO PP99

Specifications

Blade diameter	650 mm
Max cutting depth	200 mm
cores	38 to 200 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



Cutting machine MULTISAW sawing concrete core by using holder accessory 76-PV47014

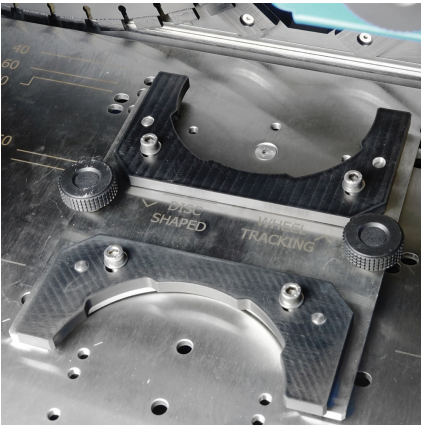


Detail of core holder accessory 76-PV47014

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Jig for trapezoidal samples, 76-PV47020



Jig for Wheel Tracking cores, 76-PV47025

Products

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

Accessories and consumables

77-PV47000/C1

Multisaw Diamond blade 650mm dia. for concrete elements

77-PV47000/1

Diamond blade 650mm dia. for asphalt, suitable for Autosaw 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

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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)