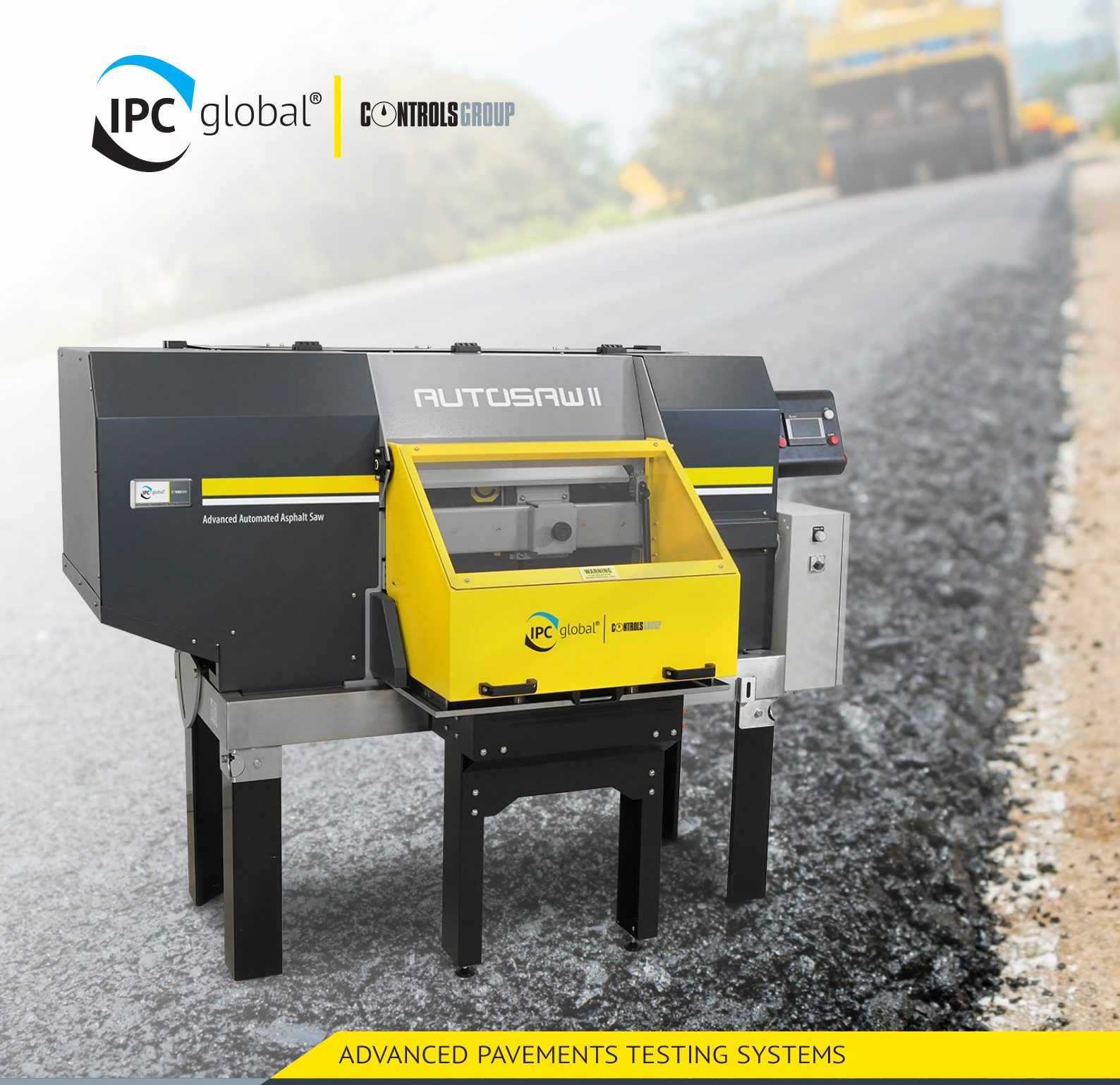
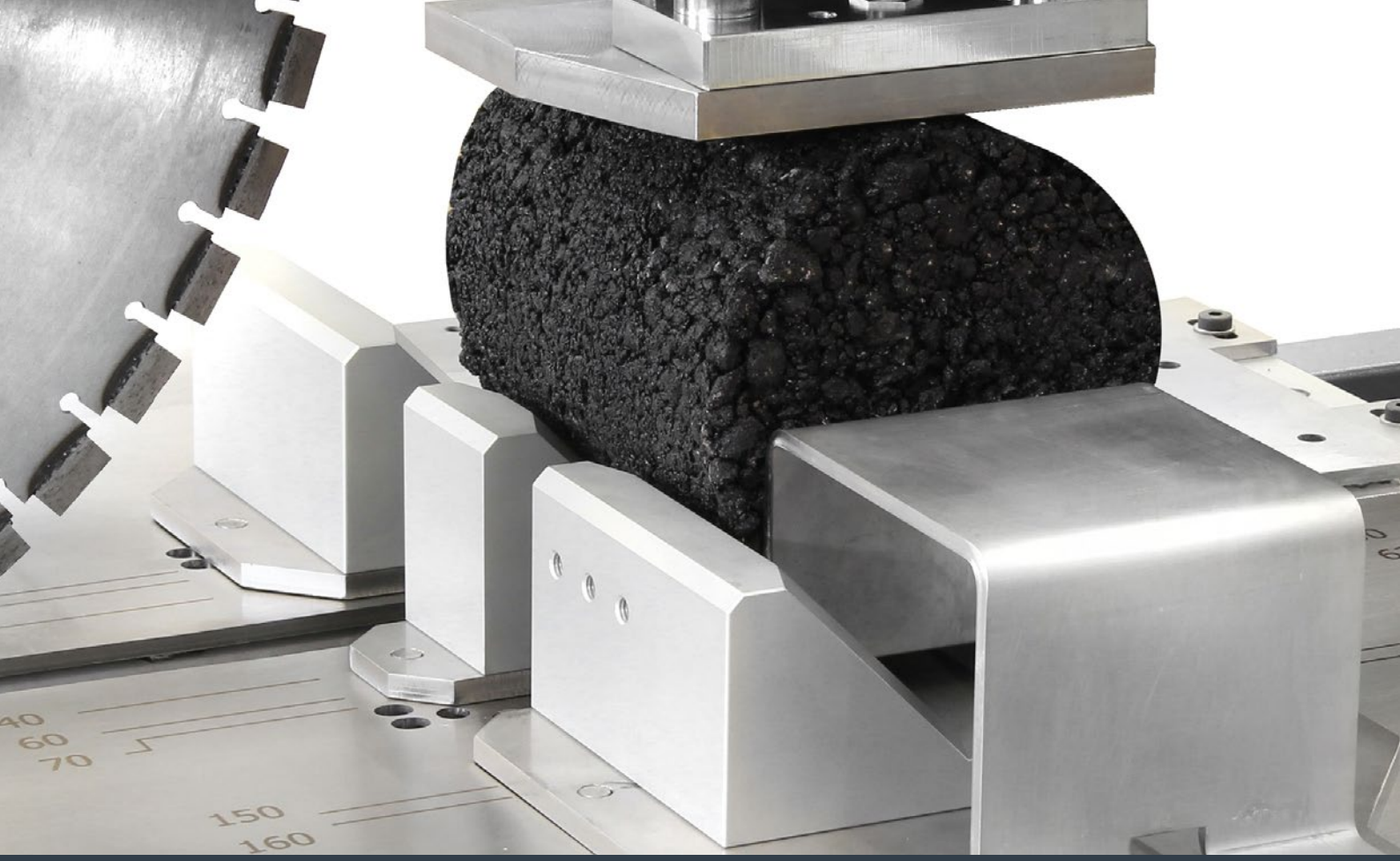
IPC global® | CONTROLS GROUP



ADVANCED PAVEMENTS TESTING SYSTEMS

AUTOSAW II

Advanced Automated Asphalt Saw



Fully Automated Advanced Asphalt Saw

IPC Global's new and improved Autosaw II is a second generation fully automated asphalt saw with integrated clamping system. The Autosaw II allows for fast and accurate cutting of rectangular beams, trapezoidal prisms, overlay test specimens, semi-circular specimens, and trimming of cylindrical specimens.

Easy Operation

The intelligent touch screen control, integrated rulers and reference blocks provide fast and effortless sawing of asphalt specimens.

Automated Sawing System

Fully automated, the system allows users to load their asphalt samples, input their desired settings and continue on with other tasks saving valuable working hours.

Clean and Safe

Integrated protection cabinet, stainless steel water tray and interlock system ensures unparalleled safety & cleanliness in laboratory environments.

Accurate Specimen Preparation

Optional jigs, pneumatic clamping, reference blocks and integrated rulers allow users to easily obtain exact dimensions of the most common international test standards.

Superior Cutting

A powerful motor, adjustable automatic advance & retraction of saw blade and adjustable limit switches ensure efficient specimen preparation.

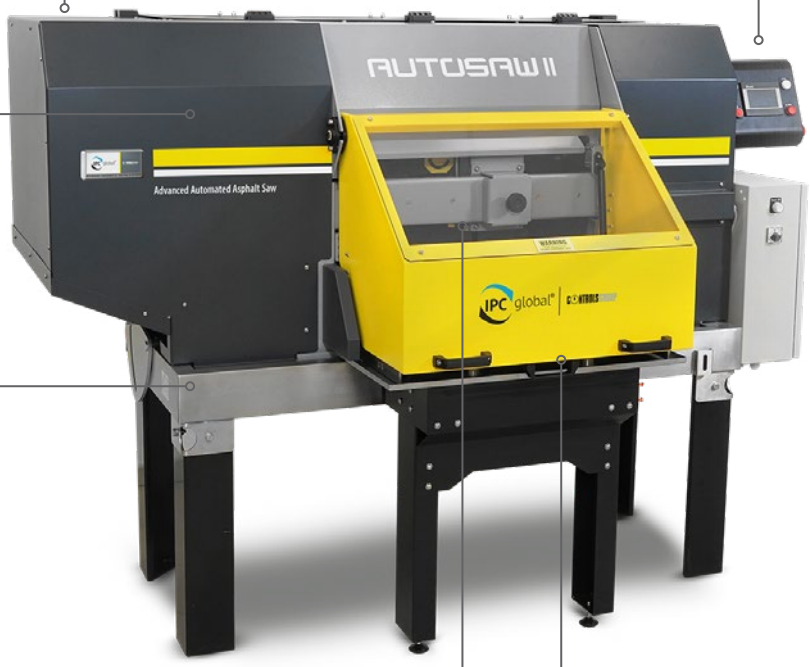
Endless Possibilities

Easy to use reference blocks, jigs, and pneumatic clamping systems allow the system to be easily upgraded to suit the cutting requirements for any future testing standards.

Automated Asphalt Saw

Protection cabinet with several automatic locking access doors to ensure unparalleled safety and clean operation in laboratory environments.

Touch screen CPU control allows for easy set-up including carriage speed and retraction sequence. Separate carriage speeds can be set and adjusted during operation for cutting and retraction sequence.



Intelligent system with adjustable limit switches allow for repetitive cuts with minimal carriage overtravel saving time.

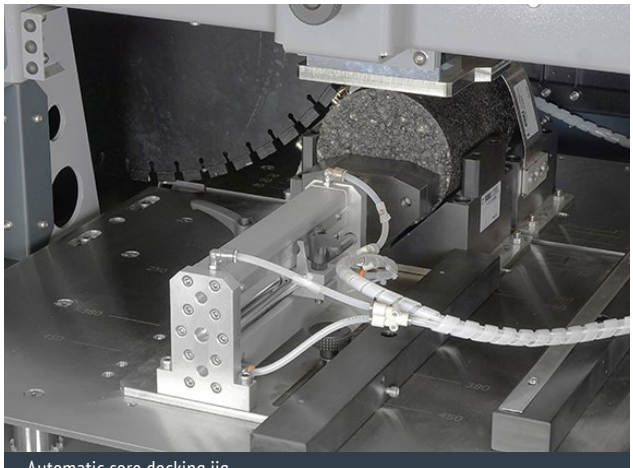
Dynamic braking for rapid stopping when system is switched off.

Stainless steel water tray catches cooling water and debris for long life and easy cleaning.

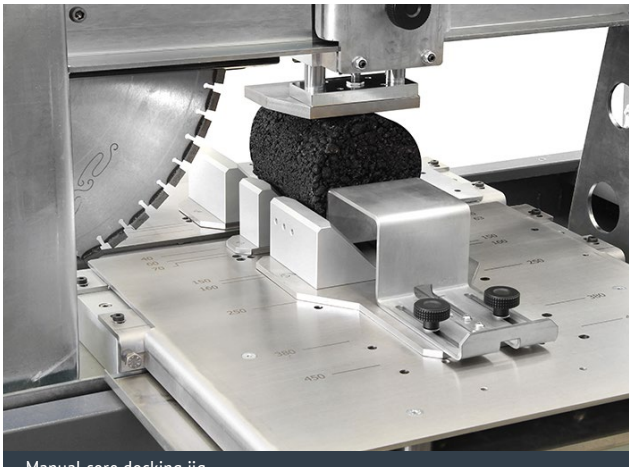
Compressed air gun for cleaning specimens and sawing system

Fixed positions and reference blocks allow users to easily obtain exact dimensions of the most common international standards. Additional dimensions can be obtained using the integrated ruler.

Numerous interlocks to ensure operator safety and with rapid blade braking when the doors are opened.



Automatic core docking jig



Manual core docking jig

Great Benefits

Automated and Safe

- Protection cabinet with interlock system ensures safety without operator intervention or the need for constant monitoring.
- Easy to use touch screen CPU control for quick set-up, saving valuable laboratory time and resources.

Superior Design

- Quick and easy specimen set-up.
- Clean operation and water containment for use within laboratory environments.
- Ergonomic design with ideal height and horizontal reach for safe material handling and optimal operator well-being.

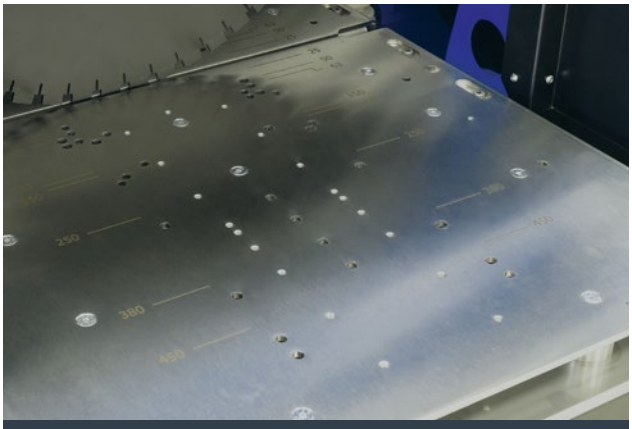
Value for Money

- Robust design provides accurate results while the stainless steel water tray ensures long life.
- Perfect specimens every time through the use of fixed position guides, reference blocks and pneumatic clamping system.
- Only requires air, water and power to operate.

Autosaw II has been designed with easy-to-use spacers and automatic controls that allow for perfect specimen dimensions for AASHTO, ASTM, AS, EN and other international standards without the need for manual measurements.

Cut to international Standards

- A system of reference blocks and several fixed position guides (pictured to the right) allow operators to easily obtain the exact dimensions specified in international test standards.
- All other dimensions can be obtained by placing the reference blocks into any position and with the help of an integrated ruler.
- The position of the base plate supporting the reference blocks can be finely adjusted in order to minimize the error of the final specimen dimensions.
- The angle between blade and base plate can also be adjusted to minimize the perpendicularity error between the cut face and the sample axis.

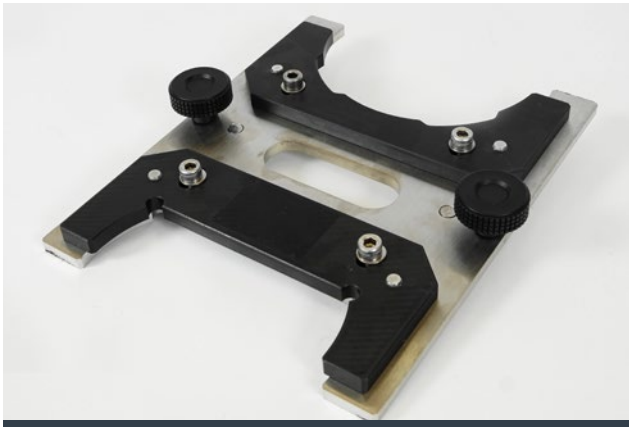


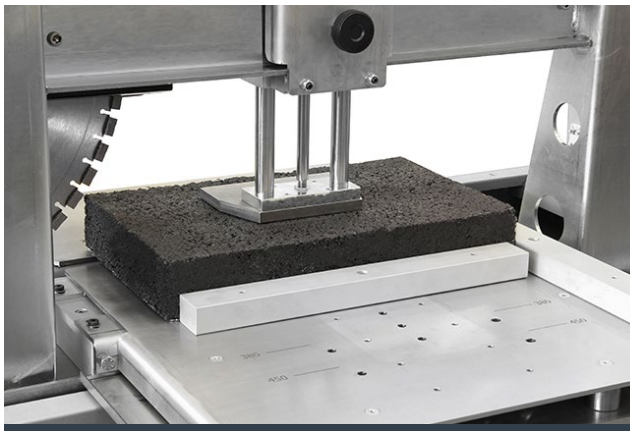
Integrated ruler and fixed position guides

All Shapes and Sizes

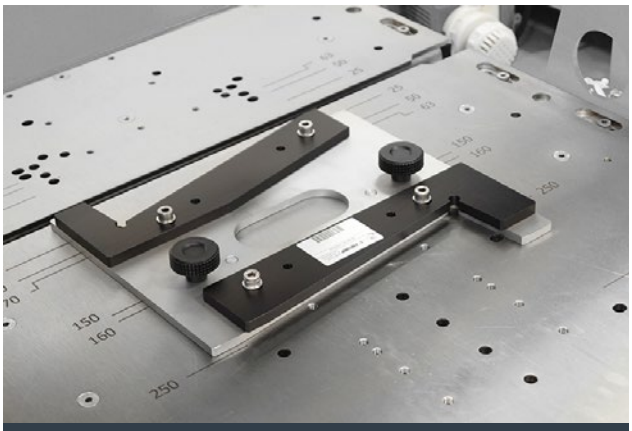
Autosaw II is able to cut any kind of prismatic specimen from an asphalt slab up to a height of 200mm and a cutting length up to 500mm.

The saw can be modified with a large range of accessories to cut cores, rectangular beams, trapezoidal prisms, overlay test specimens, semi-circular & wheel tracking specimens, and trimming of cylindrical specimens (both manually and automatically).


Overlay Test specimen jig



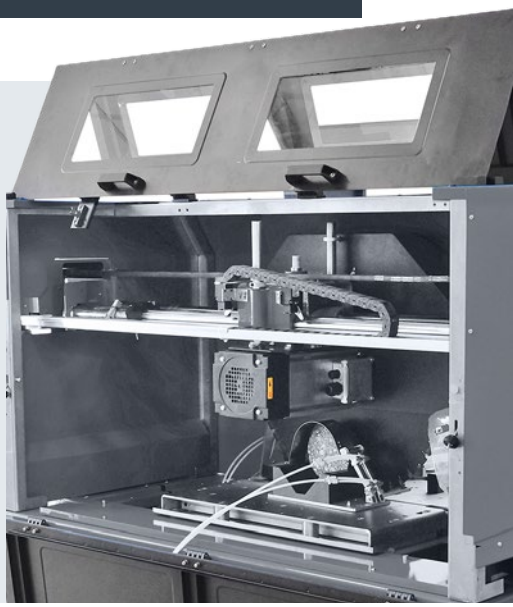
Prismatic sample clamp and reference blocks (standard)



Trapezoidal specimen jig

Safe and Clean Operation

- The protection cabinet ensures easy access for sample set-up, safe operation and protection from spray during cuts.
- Several automatic locking doors on the front, back and top of the saw prevent the operator from accessing the dangerous areas while the blade is turning.
- Once the cutting procedure finishes the system ensures the blade is completely stopped before the doors can be unlocked.
- The protection cabinet also features catchment trays that collect the cooling water and allows the saw to operate in a laboratory environment without contamination.

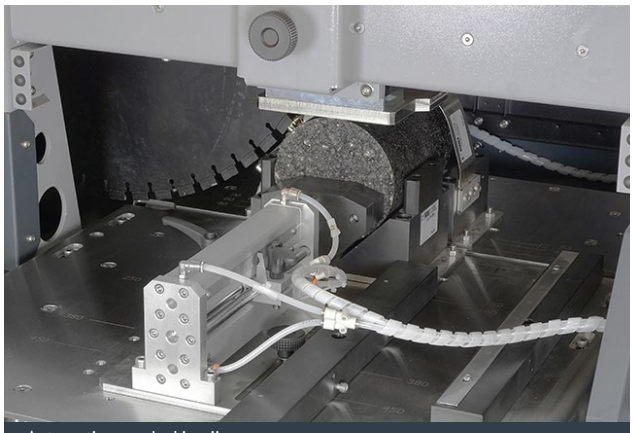


Intelligent Design

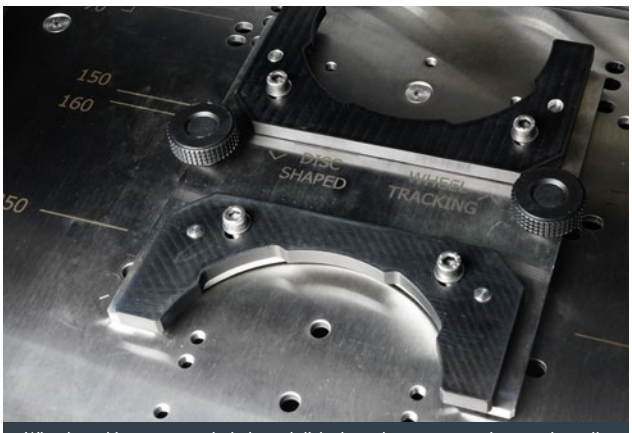
- An intelligent system plus adjustable limit switches allows the operator to execute repetitive cuts with minimal carriage stroke.
- A large base plate with reinforced legs allows the operator to place large, heavy samples onto the table.
- The table is constructed from uncoated stainless steel to prevent any damage or scratching while moving heavy samples or specimens.

Quick and Easy Operation

- AutosawII is operated by a touch screen display and CPU allowing the operator to easily control the cutting speed (both before and during), and the automatic cutting sequence (sample locking, blade start, carriage start with required speed, fast return to home position and sample unlocking).
- Two physical buttons allow for quick and easy starting and stopping of saw.



Automatic core docking jig



Wheel-tracking core, semi-circle and disk-shaped compact tension specimen jig

Specifications

Blade Diameter	650mm
Max Cutting Depth	200mm (240mm on request)
Cores	38/50/100/150/200mm dia.
Cutting Accuracy	+/-1%* max.

*Length, Perpendicularity and Flatness

Max Prism Length	500mm (700mm on request)
Blade Speed	1,400/1,680rpm (50/60Hz)
Blade Traverse	0 – 200mm/min (variable speed)
Blade Retraction Traverse	0 – 999mm/min (variable speed)
Blade Cooling	Water recirculation pump and stainless steel water tray (included)

Dimensions & Weight

Dimensions	1,575 x 1,300 x 2,190mm (HxWxD)
Weight	650kg (approx.)

Services

Air Supply	700kPa (clamping only)
Power Supply	5kW, 400V 50Hz 3 Phase or 220V 60Hz 3 Phase

Ordering Information

77-PV47105 – Autosaw II (50Hz) complete with asphalt multi-slab/prism jig, blade not included

77-PV47106 – Autosaw II (60Hz) complete wiht asphalt multi-slab/prism jig, blade not included

77-PV47000/1 – Diamond blade, 650mm dia.

77-PV47000/2 – Sacrificial PVC tube for 100mm dia. cores

77-PV47011 – Automatic core docking jig for round cores, 100mm/150mm dia.

77-PV47014 – Manual core docking Jig for round cores, from 38 to 200mm diam. to cut samples with manual feeding, from 10 to 300mm length

77-PV47020 – Trapezoidal specimen jig for two point bend test

77-PV47025 – Wheel-tracking core, semi-circle and disk-shaped compact tension specimen jig (requires core docking jig)

77-PV47030 – Overlay test specimen jig (requires core docking jig)

Please see IPC Global Advanced Pavements Testing Systems catalogue and **www.controls-group.com/ipcglobal.**

Specimen Preparation

Galileo / Galileo Research

Advanced Research Gyratory Compactors

The new flagship range of gyratory compactors incorporates innovative Electromechanical Servoactuation and patented Orbital gyratory motion system. The Galileo Gyratory Compactors represent the most evolved models currently available on the market, worldwide and have been made available in two versions: Galileo and Galileo Research.

PReSBOX®

Asphalt Prism Shearbox Compactor

PReSBOX provides the latest in asphalt specimen preparation and mix evaluation technology. High quality asphalt prisms are produced, from which beams and cylinders with excellent air voids distribution, homogeneity and particle orientation can be cut. With minimal operator involvement PReSBOX allows rapid and repeatable production of asphalt specimens in the laboratory.

Multi Core-Drill

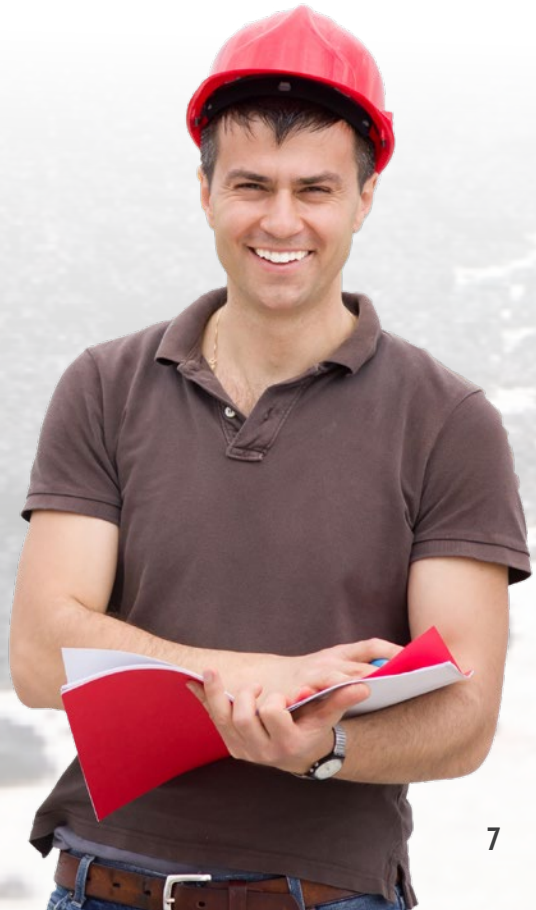
Advanced Asphalt Core Drill

The Multi Core-Drill is a superior laboratory asphalt core drill whose robust and rigid design provides precise coring of asphalt prisms, cylindrical and slab samples to the highest quality. Designed to be easy to use, flexible and adaptable, it ultimately provides users with precise drilling capabilities, enabling users to have absolute confidence in the quality of their test specimens and the reliability of their test results.

KOR-BIT Machine

For coring cylindrical samples only

Coring from cylindrical sample can also be performed, as alternative, using the KorBit machine, model 76-PV75302, similar model with fixed base instead of the mobile longitudinal base which distinguish the Multi Core-Drill. KOR-BIT is supplied complete with adjustable clamp identical to the accessory 76-PV75210.



IPC Global Customer Care

At IPC Global we are proud of our products.

We are dedicated to supplying high quality, accurate, affordable, easy-to-use systems for Advanced Testing of asphalt, binders and other pavement materials.

As a valued customer of IPC Global you will receive continuous, expert support and advice for your instrument. Furthermore, we offer full installation and training in the correct operation of your IPC Global equipment.

For support from our expert Customer Care Team, contact your local IPC Global-Controls office/distributor or email **ipcglobalsupport@controls-group.com**.

Visit our website for more information **www.controls-group.com/ipcglobal.**

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