



CONTROLSGROUP



ADVANCED PAVEMENTS TESTING SYSTEMS

# Multi Core-Drill

Laboratory Asphalt Core-Drill



## Advanced Asphalt Core-Drill

Specimen preparation and ultimately specimen quality are critical factors in materials characterization. IPC Global's 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.



### Clean and Safe

Integrated protection and splash guard ensures safety and cleanliness in laboratory environments.



### Accurate Specimen Preparation

Optional jigs allow users to drill specimens from a wide range of prisms, slabs and cylindrical sample sizes.



### Bidirectional Adjustment

Easy longitudinal and transverse adjustment increases the number of cores available from a single asphalt sample.



### Superior Cutting

A powerful three speed motor, specifically designed for high performance coring ensures efficient and high quality specimen preparation.

# Multi Core-Drill

## Advanced Asphalt Core-Drill

**Specimen preparation is paramount regardless of what material you are testing or the sophistication of your testing systems. Precise and accurate materials analysis can only be achieved with high quality specimens. Testing poor quality specimens will produce misleading results and therefore waste valuable time and resources.**

Guided rail provides a smooth and precise track for the drill to travel while cutting the sample.

Three (selectable) speed compact Core-Drill motor specifically designed for high performance and long life.

Transparent protection / splash covers conform to CE standards for safety and ease of cleaning.

A unique sliding table and stainless sample tray provide easy sample alignment for precise cut positioning, catching debris, long life and easy cleaning.



Heavy duty feed handle can be mounted either side of the carriage for ease of use.

Upgrade option allows for bidirectional adjustments of the drill and tray for parallel coring, thus increasing the number of cores available from a single sample.

Available with a wide range of diamond core bits for maximum versatility.

## Great Benefits

The Multi Core-Drill has been designed to be easy to use, flexible, and adaptable to ultimately provide users with precise drilling capabilities. This will enable users to have absolute confidence in the quality of their test specimens and the reliability of their test results.

### Superior Design

- Specifically designed for a laboratory, the Multi Core-Drill is easy to use.
- Quick and easy specimen set-up.
- Optional bidirectional movement allows for double line coring and perfect alignment on prismatic samples.
- Robust design provides accurate results while the stainless steel sample tray ensures cleanliness and long life.

### Total Flexibility

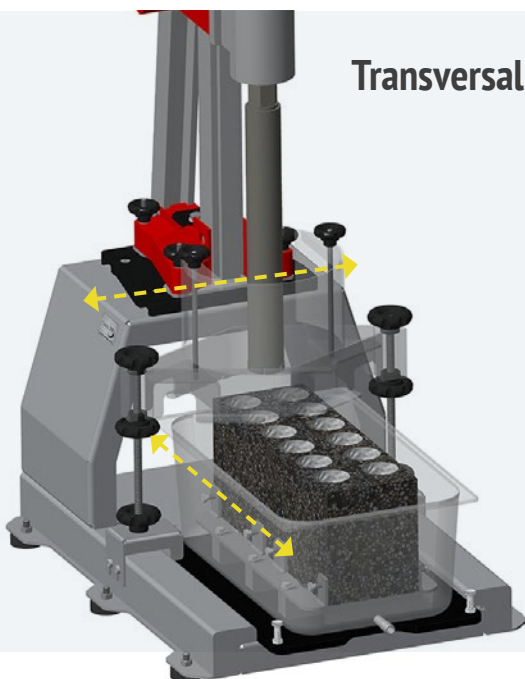
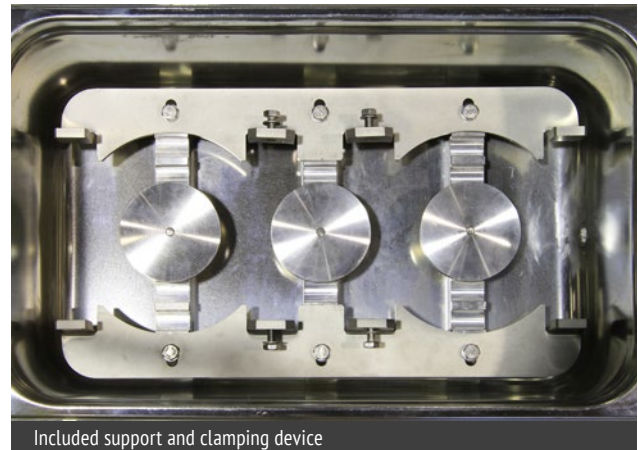
- A series of accessories will boost your system's performance increasing the number of cores produced and/or allowing you to drill specimens from a wide range of prisms, slabs and cylindrical sample sizes.

## Cut to international Standards

Multi Core-Drill has been designed, in particular, for coring Dynamic Modulus (AMPT & AASHTO TP79) specimens of 100mm and 150mm diameters as well as samples for Indirect Tensile Tests (EN 12697-24/26) with specimens 30 to 75mm in height.

Included as standard the Multi Core-Drill comes with the support and clamping device that sits inside the stainless steel tray and ensures asphalt samples produced by IPC Global's PReSBOX are held firmly and in the correct position for drilling.

PReSBOX samples can also be placed in the stainless steel sample tray horizontally to allow for coring of specimens 150mm diameter.

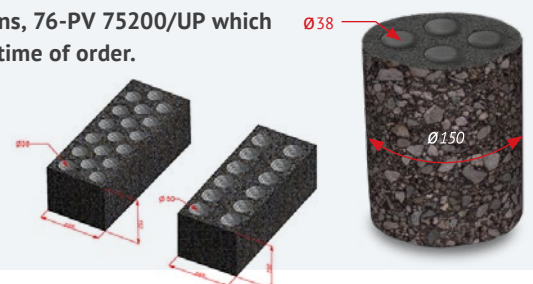


## Transversal bidirectional movement for parallel coring option

The Multi Core-Drill can also be provided with an optional device which allows for up to 80mm transversal movement of the drill for parallel coring. This device, in combination with the longitudinal movement of the carriage, ensures high cutting alignment and increases the number of cores obtained from the same prismatic sample.

Bidirectional coring is suitable for 38, 50 and 75 mm dia.

See upgrading options, 76-PV 75200/UP which is to be specified at time of order.



# Applications



## Diamond Core Bits

IPC Global provides a wide range of diamond core bit drills for a wide range of specimen coring.

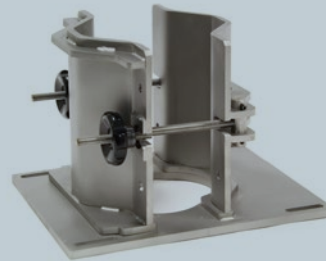
Diamond core bits are selected for asphalt coring to ensure maximum performance and satisfaction for both wet and dry coring.



## Transversal coring

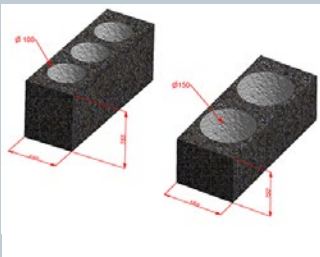
The innovative transversal coring clamp system allows users to obtain cylindrical asphalt specimens in 38, 50 and 75mm dia.

This unique accessory ensures that samples, both 100 and 150mm dia., are securely clamped whilst drilling is commenced to provide perfect specimens every time.



## Coring cylindrical asphalt samples

A unique, easy and intuitive cylindrical clamp accessory allows users to quickly and easily core asphalt specimens from cylindrical samples produced in gyratory compactors up to 150mm dia. The same coring can also be done, as alternative, with the KorBit machine model 76-PV75302 standardly supplied complete with adjustable clamp.



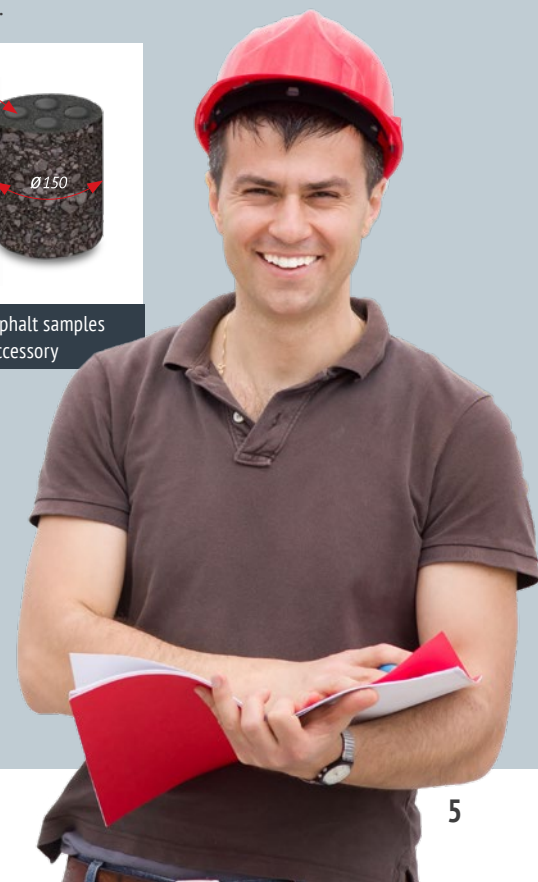
Coring cylindrical asphalt samples from prisms and slabs



Taking transversal coring samples using the suitable accessory



Coring cylindrical asphalt samples using the suitable accessory



# Specifications

<b>Cylindrical Sample Size</b>	Up to 160 x 400mm (Dia. x H)
<b>Prismatic Sample Size</b>	Up to 185 x 185 x 450mm (H x W x D)
<b>Coring Diameter</b>	38/50/75/100/150mm dia.
<b>Motor Speed</b>	540/1,300/1,800rpm (50Hz) 560/1,300/1,850rpm (60Hz)

## Dimensions & Weight

<b>Dimensions</b>	1,550x600x800mm (H x W x D)
<b>Weight</b>	85kg (approx.)

## Services

<b>Power Supply</b>	220–230V, 50–60Hz, Single Phase, or 110V, 60Hz, Single Phase
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## Ordering Information

<b>76-PV75202</b>	Multi Core-Drill (220–230V), suitable for PReSBOX Prisms
<b>76-PV75204</b>	Multi Core-Drill (110V), suitable for PReSBOX Prisms
<b>76-PV75200/UP</b>	Upgrade Option for Transverse Movement
<b>76-PV75210</b>	Cylindrical Sample Clamp Jig for overcoring
<b>76-PV75220</b>	Transverse Coring Clamp
<b>76-PV75230</b>	Spacer for vertical coring on samples thinner than 120mm
<b>83-C0319</b>	Multi Core-Drill Bit for 38mm dia. x 130mm long specimens
<b>83-C0320</b>	Multi Core-Drill Bit for 50mm dia. x 400mm long specimens
<b>83-C0321</b>	Multi Core-Drill Bit for 75mm dia. x 400mm long specimens
<b>83-C0322</b>	Multi Core-Drill Bit for 100mm dia. x 400mm long specimens
<b>83-C0323</b>	Multi Core-Drill Bit for 150mm dia. x 400mm long specimens
<b>83-C0310/2</b>	Core Extractor for 50mm dia.
<b>83-C0311/2</b>	Core Extractor for 75mm dia.
<b>83-C0312/2</b>	Core Extractor for 100mm dia.
<b>83-C0313/2</b>	Core Extractor for 150mm dia.

Please see IPC Global Advanced Pavements Testing Systems catalogue and [www.controls-group.com/ipcglobal](http://www.controls-group.com/ipcglobal).



# Specimen Preparation



## Servopac

Advanced Research Gyrotory Compactors

The Research Specification Servopac is a fully automated, servo-controlled gyrotory compactor designed to compact asphalt mixes. Surpassing the requirements of AASHTO, ASTM, AS and EN Standards, the Servopac has been designed to produce homogenous specimens as well as specimens having characteristics that closely resemble those obtained from asphalt as laid in the field.



## Galileo / Galileo Research

Advanced Research Gyrotory Compactors

The new flagship range of gyrotory compactors incorporates innovative Electromechanical Servoactuation and patented Orbital gyrotory motion system. The Galileo Gyrotory 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.



## Autosaw II

Advanced Automated Asphalt Saw

The new and improved Autosaw II is the most advanced asphalt cutting saw available and is the perfect device for advanced testing laboratories. Its fully automated asphalt sawing system with integrated clamping system allows for fast and easy cutting of rectangular beams, trapezoidal prisms, overlay test specimens, semi-circular specimens, and trimming of cylindrical specimens.



## Multisaw

Asphalt Saw

Multisaw is a universal sawing system ideal for fast and accurate cutting of beams, from prisms to cylinders, in a sample preparation dirty-room environment. Specifically designed to fulfil the most stringent Standards requirements, this user-friendly asphalt saw will allow the user to cut beams or cores, with minimal damage and without the need for measurement.



## 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](mailto:ipcglobalsupport@controls-group.com).

Visit our website for more information [www.controls-group.com/ipcglobal](http://www.controls-group.com/ipcglobal).



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