

**TEST EQUIPMENT
FOR MAINTENANCE, SERVICE
AND WORKPLACE SAFETY**

MEASUREMENT

Discover our test instruments
and their functions



PCE
INSTRUMENTS

TESTING MEASURING INSTRUMENTS

TEST INSTRUMENTS FROM GERMANY

Maintenance and Service

PCE Deutschland GmbH, based in Meschede-Freienohl in the Sauerland region of Germany, was founded in 1999 by three engineers. With more than 140 employees and locations worldwide, PCE Instruments specialises in the development, manufacture and sale of high-performance, innovative products in the fields of measurement technology, control technology, weighing technology and laboratory technology.

PCE Deutschland GmbH is **DIN EN ISO 9001** and **DIN EN ISO 14001** certified and manufactures test equipment that is customised to meet specific customer requirements. PCE Instruments supplies to customers in the government, industrial and academic sectors, among others.

PCE Instruments' comprehensive range of products and services offers you high precision and flexibility in all applications, as well as outstanding quality and functionality. Take a look at the categories in the overview.

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MEASURING INSTRUMENTS

The field of measuring instruments covers a multitude of innovative portable products as well as products for fixed installation that measure electrical, mechanical, biological and chemical parameters.

CONTROL SYSTEMS

The range of control systems covers the complete demand for sensors, displays, controllers and paperless recorders.

WEIGHING EQUIPMENT

The field of weighing equipment comprises a wide standard range of high-quality scales and balances that can be calibrated and/or verified for trade.

LABORATORY TECHNOLOGY

High-end analytical and laboratory devices have been developed for professional applications and in particular for use in laboratories.



DEVELOPMENT

In order to develop modified test equipment in line with customers' specifications, proficient engineers and technicians cooperate closely with the customer.

PRODUCTION

PCE Instruments manufactures industrial test instruments that help improving process analysis and optimisation.

CALIBRATION

Our DIN EN ISO 9001:2015 certified calibration laboratory verifies the measuring accuracy of our products. They calibrate pressure, hardness, force, material thickness, sound volume, conductivity, redox, vibration acceleration and more.

BENCHTOP SCALES
COUNTING SCALE

PCE-PP SERIES

With a resolution of 1 g / hinged weighing platform

The benchtop scale is a very precise measuring device for determining weights due to the resolution of 1 g and an accuracy of $\pm 0.1\%$ of measuring range. The display units available on the parcel scale are lb / oz, kg / g, kg, g, lb, oz. The illuminated LC display of the parcel scale is sized in such a way that the measured value can be read easily even in very bright ambient conditions. In addition, the display of the parcel

scale can be removed and can be positioned freely because of the spiral cable. With the piece counting function, the benchtop scale can determine the number of objects, such as screws. For this purpose, a reference measurement is first carried out on the parcel scale.

ISO cal option

- » removable display
- » hinged weighing platform
- » resolution 1 g
- » various units
- » piece counting function
- » battery and mains operation



APPLICATION



TECHNICAL SPECIFICATIONS

Resolution	1 g / 0.03 oz
Accuracy	$\pm 0.1\%$ of full scale
Further specifications	
Units	lb / oz, kg / g, kg, g, lb, oz
Exceeding the measuring range	"O-Ld"
Low battery voltage	"LO"
Automatic shutdown	after 5 minutes of inactivity
Power supply	3 x 1.5 V AAA batteries
Power supply mains	primary: 100 ... 240 V AC / 50, 60 Hz secondary: 6 V DC, 1 A
Ambient conditions	5 ... 35 °C / 41 ... 95 °F, <90% RH, non-condensing
Dimensions platform	198 x 180 x 44 / (120 (unfolded)) mm / 7.8 x 7.0 x 1.7 / (4.7 (unfolded)) "
Dimensions display	92 x 68 x 30 mm / 3.6 x 2.6 x 1.1"
Display cable	spiral cable with a length of 1100 mm / 43"
Weight	810 g / 28.5 oz
Variants:	
PCE-PP 50	
PCE-PP 20	



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PLATFORM SCALES

PARCEL SCALES

PCE-PB 150N

Stainless steel platform / up to 150 kg

The USB platform scales of the PCE-PB N series are very versatile. The functions of the USB platform scales are very extensive but one function is particularly interesting for shipping. It is the bidirectional USB interface of the platform scales that enables control by the PC. However, the USB platform scales of the PCE-PB N series can be used with the optional, inexpensive "ProCell"

software. This software simulates keyboard input, similar to a scanner. With the help of this software, the platform scales can then transfer the weight value into active fields. Another advantage of these platform scales is the wired display. The display is supplied with a stand but it is also suitable for wall mounting.

ISO cal option

- » bidirectional USB interface
- » spiral cable can be extended to approx. 1.5 m / 59"
- » digit height 20 mm / 0.78"
- » stainless steel platform
- » PEAK function (maximum value display)
- » piece counting function with reference number of pieces
- » multiple tare
- » function for level control (drum and barrel weighing)
- » Mains or battery operation
- » USB interface cable incl.



APPLICATION



TECHNICAL SPECIFICATIONS

Weighing range (Max)	150 kg / 330 lbs
Minimum load (Min)	150 g / 5.3 oz
Readability (d)	50 200 g / 7 oz
Weighing plate (L x W x H)	300 x 300 x 45 mm / 11 x 11 x 1.7"
Display	LCD 20 mm / 0.78 " digit height (backlit)
Display cable	90 cm/ 35 " spiral cable extendable to approx. 1.5 m / 60" (Plug connection on the display)
Measurement units	kg / g / lb / N (Newton)
Functions	- PEAK Hold function (maximum value display) - multiple tare over the full weighing range - level control (auto tare OFF function) - piece counting function (min.1 pc) - animal weighing function - adjustable filters for fast response time - adjustable shutdown and lighting
Interface	USB bidirectional (query with Sx + CR + LF)
Working temperature	+5 ... +35 °C / 41 ... 95 °F / max. 85 % RH
Power supply	DC 9 V / 200 mA mains adaptor unit or 6 x AA 1.5V batteries
Net weight	approx. 4 kg / 8.8 lbs
Recommended calibration weight	M1 class (freely selectable)

Further model:

PCE-PB 60N	up to 60 kg
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PLATFORM SCALES

PARCEL SCALE

PCE-PB 200N

Max. weighing range up to 200 kg / with external display

The parcel scale with a maximum weighing range of up to 200 kg and a weighing surface of 350 x 390 mm is the ideal measuring device for determining the weight of parcels or the contents of propane gas bottles. With an accuracy of ±0.3 kg, the platform scale is a precise measuring device. Furthermore, the platform scale can be used for the dosing of paints. This makes the platform scale a universally appli-

cable test device in production, warehouse and logistics. In addition to the normal measuring mode, the parcel scale has a counting function. With the counting function, the platform scale determines, for example, the number of batteries in a package.

ISO cal option

- » optionally with ISO calibration
- » counting function
- » weighing units kg, lb, oz/lb
- » weighing surface of 350 x 390 mm / 13.7 x 15.3"
- » wall mounting bracket for the display
- » automatic shutdown when inactive



APPLICATION



TECHNICAL SPECIFICATIONS

Weighing range	200 kg / 440 lb
Resolution	0.1 kg / 3.5 oz
Accuracy	±0.3 kg / 10.5 oz
Minimum load	0.3 kg / 10.5 oz
Further specifications	
Units	kg, lb, oz/lb
Display when the measuring range is exceeded	"O_Ld"
Display when voltage is too low	"LO"
Operating conditions	5 ... 35 °C / 41 ... 95 °F, <85% RH, non-condensing
Power supply battery	4 x 1.5 V AA batteries
Mains power supply	primary: 100 ... 240 VAC, 50/60 Hz, 0.3 A secondary: 6 VDC, 1 A
Dimensions platform	350 x 390 x 40 mm / 13.7 x 15.3 x 1.5"
Dimensions display	180 x 88 x 33 mm / 7.0 x 3.4 x 1.3"
Weight	ca. 3 kg / 6.6 lb
Further model:	
PCE-PB 75N	Weighing range 75 kg / 165 lb Resolution 0.02 kg / 0.7 oz



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BENCHTOP SCALES
COUNTING SCALE

PCE-BSH 10000

Calibratable precision scale up to 10 kg

The low-priced precision scale impresses with a quite high resolution even in higher weighing ranges. The precision scale has a removable, easy-to-clean stainless steel weighing plate. The standard equipment of the precision scale also includes a piece counting function for counting objects of the same weight. The power supply of the precision scales is provided by a 12V power supply unit or by 6x 1.5 V AA batteries which

allow flexible use. The precision scale has adjustable feet for levelling. The precision scale is the ideal device for use in production, in the laboratory, in incoming and outgoing inspection as well as for mobile use.

ISO cal option

- » USB interface
- » weighing range up to 10 kg
- » high resolution from 0.2 g
- » piece counting function
- » multiple tare up to 100% F.S.
- » multi-point calibration possible
- » calibration weight freely selectable
- » variety of different weighing units
- » Mains or battery operation possible



APPLICATION



TECHNICAL SPECIFICATIONS

Weighing range:	0.6 ... 10000 g / 0.0014 ... 22 lbs
Readability or resolution:	0.2 g
Accuracy:	± 0.6 g
Weighing unit selections:	g, oz, lb, dwt, ozt, ct, tl.T, tl.H, tl.J, GN, dr, MM, ToLA, GSM, TAR, TMR
Display:	LCD with backlight, 20 mm / 0.79" character height
TARE:	multiple taring over full range
Data interface:	USB port
Power supply:	12 V / 500 mA electric power adapter (included) or six 1.5 V AA batteries
Operating temperature:	0 ... +40 °C / +32 ... +104 °F
Weighing platform dimensions:	160 x 180 mm / 6.3 x 7.08"
Overall dimensions:	200 x 265 x 100 mm / 7.87 x 10.43 x 3.94"
Overall weight: Approx.	1800 g / 3.94 lbs (without batteries)

Further model:

PCE-BSH 6000	6000 g / 0.00066 ... 13 lbs
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BENCHTOP SCALES
COMPACT BALANCE

PCE-WS 30

Benchtop electronic scale with 30000 g

PCE-WS 30 is an accurate and affordable compact balance or digital tabletop scale with a resolution or readability of 0.5 and a weighing capacity up to 30000 g / 30.0 kg / 66.0 lb. Featuring adjustable feet and a built-in water bubble level, this benchtop electronic balance ensures precision with a full 100% tare weight range. PCE-WS 30 has a compact design and can be powered by the electric

power adapter or the internal battery, making the scale portable when necessary.

ISO cal option

- » weighing units: g, kg, lb
- » internal memory stores up to 99 readings
- » zero, tare and alarm functions
- » adjustable feet, settling time, backlight and data transfer settings
- » built-in water bubble level
- » no automatic shut down or auto power off feature ensures continuous, uninterrupted use



APPLICATION



TECHNICAL SPECIFICATIONS

Weighing capacity:	30,000 g / 30.0 kg / 66.0 lb
Resolution or readability:	0.5
Minimum weight:	0.5 g
Memory:	99 readings
Tare range:	100%
Weighing units:	g, kg, lb
Display:	Large 6-digit LCD screen
Automatic calibration:	Yes, using external calibration weight (weight not included)
Weighing pan dimensions:	230 x 310 mm / 9.1 x 12.2"
Operating temperature range:	0 ... +40 °C / +32 ... +104 °F
Power supply:	230 V / 50 Hz or 110 V / 60 Hz adapter and internal rechargeable battery (both included)
Housing material:	ABS plastic
Interface:	RS-232 port
Dimensions:	Approx. 320 x 320 x 125 mm / 12.6 x 12.6 x 4.9"
Weight:	Approx. 2800 g / 2.8 kg / 6.2 lb



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BENCHTOP SCALES

PRECISION BALANCE

PCE-PCS 30

Programmable scale for piece counting with high accuracy up to 30 kg

PCE-PCS 30 is a precision scale or balance with accurate weighing and piece or part counting functions. Ideal for use in laboratory, office, inventory and miscellaneous industrial applications, this portable scale can be powered by battery or by the included electric power supply. The scale's built-in RS-232 port enables data transfer and printing. The memory capacity of the scale and the possibility of

battery operation make it an indispensable aid in the factory. This counting scale is the optimal tool when it comes to accurately determining piece counts, e.g. for stocktaking.

ISO cal option

- » separate display for weight, piece count and reference weight
- » piece counting
- » tare weighing of the counting scale
- » input of tare deduction, reference count and reference weight
- » battery operation
- » mains adapter for 230 V
- » totalising function (99 memory locations)



APPLICATION



TECHNICAL SPECIFICATIONS

Weight range:	0.5 ... 30000 g / 30 kg
Readability:	0.5 g
Repeatability:	± 0.5 g
Minimum weight:	0.5 g
Minimum piece weight:	0.5 g
Memory positions for reference weight:	99
Stabilization time:	3 seconds
TARE range:	100 %
Weighing units:	Grams or kilograms (metric only)
Screen:	3 x 6 digit LCD
Calibration:	Auto (requires external weight, not included)
Dimension of weighing pan:	230 x 310 mm / 9.06 x 12.21"
Operating temperature range:	0 ... + 40 °C / + 32 ... + 104 °F
Power:	220 V AC electric power supply (included) or battery
Housing:	ABS plastic
Interface:	RS-232 port
Dimensions of scale:	Approx. 320 x 320 x 125 mm / 12.6 x 12.6 x 4.92"
Weight of scale:	Approx. 2.8 kg / 6.18 lb

Further model:

PCE-PCS 6	0.1 ... 6000 g / 6 kg (metric only)
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BENCHTOP SCALES
COUNTING SCALES

PCE-BSK 1100

Counting scale with piece counting function / measuring range 0 ... 1100 g

The counting scale is a scale for daily laboratory use. Another function besides the normal measurement function of the counting scale is the piece counting function. This function allows the counting scale to determine the number of screws, for example. Thus, for example, the counting scale can also be used in logistics. So that the display is readable even in poor lighting conditions, the display of the counting

scale has a backlight. In addition to the measuring functions, the counting scale also has an RS 232 interface. Thanks to this interface, the measured values can be transferred to a PC, for example. This counting scale can be used for stationary as well as for mobile use.

ISO cal option

- » piece counting function
- » RS-232 interface
- » backlight
- » battery operation for mobile use
- » level indicator to align the scale
- » high precision



APPLICATION



TECHNICAL SPECIFICATIONS

Measuring range	0 ... 1100 g
Resolution	0.01 g
Repeatability	± 0.02 g
Linearity	± 0.03 g
Calibration	External
Dimensions Weighing plate	Ø 130 mm / 5.1 in
Dimensions	270 x 200 x 80 mm / 10.6 x 7.9 x 3.1 in
Weight	2 kg / 4.4 lbs
Operating conditions	17.5 ... 22.5°C / 63.5 ... 72.5°F, 85% rh non-condensing
Interface	RS232
Power supply	Battery / 3 x 1.5V AA
Power supply	Power adapter
	Primary: 100 ... 240V, 50/60 Hz
	Secondary: 6V, 500-mA

Further models:

PCE-BSK 5100 0 ... 5100 g Auflösung 0,1 g

PCE-BSK 310 0 ... 310 g Auflösung 0,001 g



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MOISTURE MEASUREMENT

MOISTURE BALANCES

PCE-UX 3011GQD

Up to max. 95 cm³ sample volume / weighing range 220 g / with built-in printer

Our Moisture Balances is a precise device for determining moisture in liquid and solid materials. It is suitable for various applications in raw material extraction, production, processing, research and recycling. With a maximum sample weight of 220 g and a high measuring resolution of 0.001 g, the Moisture Balances enables precise moisture measurement.

ISO cal option

- » weighing range: 200 g
- » sample weight: min. 10 g
- » sample volume: max. 95 cm³
- » weighing pan inside: Ø 105 / 115 mm
- » adjustable heating temperature: 105 ... 600 °C
- » radiator power: 375 W
- » time setting: 1 ... 180 min
- » PreFlash adjustable up to 180°C
- » menu lockwith built in printer
- » with timer and automatic switch-off



APPLICATION



TECHNICAL SPECIFICATIONS

Weighing range	
Measurement range up to [Max]	200 g
Resolution [d]	0,001 g
Accuracy	0.001 g
General technical data	
Measuring functions	% moisture, % dry matter, % moisture bd, % annealing loss, g residual weight / kg Residual weight, % annealing residue
Display type	LCD with backlight
Display size	4 Inch
Interface	USB, RS232
Heating temperature	105 ... 600 °C
Minimum load [min]	10 g
Menu language	English, German, English (GB)
Protection class (device)	IP20
Power supply	230V AC 50 Hz
Connector type	Schuko plug
Operating conditions	10 ... 40 °C , 0 ... 90 % RH
Storage conditions	10 ... 40 °C , 0 ... 90 % RH
Dimensions (L x W x H x D)	380 x 380 x 330 x 280 mm
Other dimensions	Inner pan size: Ø 105 / 115 mm
Inner pan height: 9 mm	
Weight	8600 g
Further Models:	
PCE-UX 3011	standard, 40 - 180 °C, 220 g sample weight,
PCE-UX 3011G	for wastewater treatment plants, 40-180 °C, 220 g, sample weight, determination of residue on ignition, PreFlash
PCE-UX 3011Q	High temperature, 105 °C - 360 °C, initial sample weight 220 g
PCE-UX 3011HQ	High temperature, 105 °C - 600 °C, initial sample weight 200 g,,



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MOISTURE MEASUREMENT

MOISTURE METER

PCE-UX 3031

For plaster and gypsum analysis / weighing range 220 g

Our Moisture Meter is a high-precision device that has been specially developed for plaster / gypsum analysis. With a maximum weighing capacity of 220 g and a measuring resolution of 0.001 g, it enables exact and reliable moisture measurements. The balance works on the principle of drying with simultaneous weighing. During drying, the weight loss is continuously recorded and displayed as a percentage

of the total mass. The Moisture Meter has two adjustable heating temperature ranges: 40 °C ... 180 °C and 105 °C ... 360 °C - which are made possible by two powerful radiant heaters: a 250 W infrared heater and a 375 W quartz heater. These heating elements ensure precise and efficient drying results and can be operated independently of each other in timer or automatic mode.

ISO cal option

- » weighing range: 220 g
- » sample weight: Min. 4 g
- » sample volume: Max. 95 cm³
- » weighing pan inside: Ø 105 / 115 mm
- » adjustable heating temperature: 40 ... 180 °C
- » radiator power: 250 W / 375 W
- » time setting: 1 ... 180 min
- » menu lock



APPLICATION



TECHNICAL SPECIFICATIONS

Absolute moisture	
Measurement range up to	0 ... 100 %
Resolution	0,01 %
Accuracy	0.01
Weighing range	
Measurement range up to [Max]	220 g
Resolution [d]	0,001 g
Accuracy	0.001 g
General technical data	
Outputs	V24
Measuring functions	% moisture, % dry matter, % moisture bd, g residual
weight / kg, Residual weight	
Display type	LCD with backlight
Display size	4 Inch
Interface	USB, RS232
Heating temperature	40 ... 180 °C
Heating temperature 2	105 ... 360 °C
Minimum load [min]	4 g
Menu language	German, English, English (GB)
Protection class (device)	IP20
Power supply	230 V AC 48/63 Hz
Connector type	Schuko plug
Operating conditions	10 ... 40 °C , 0 ... 90 % RH
Storage conditions	10 ... 40 °C , 0 ... 90 % RH
Dimensions (L x W x H x D)	380 x 380 x 440 x 280 mm
Other dimensions	Inner pan size: Ø 105 / 115 mm
Inner pan height: 9 mm	
Weight	8300 g



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MOISTURE MEASUREMENT

MOISTURE BALANCE

PCE-UX 3081WQ

For light and bulky materials / weighing range 400 g

Our Moisture Meter has been specially developed for light and bulky materials. It has an exceptionally large drying pan and is suitable for applications in the fields of raw material extraction, production, processing, research and recycling.

With a maximum weighing capacity of 400 g, a volume of 360 cm³ and a high measuring resolution of 0.001 g, the Moisture Meter enables

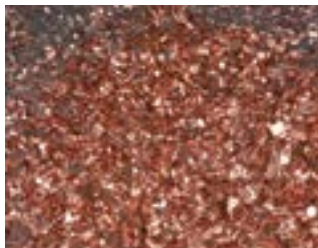
precise and reliable moisture measurements. The balance works according to the principle of drying with simultaneous weighing: the weight loss is continuously recorded and displayed as a percentage of the total mass. With a heater output of 2 x 400 W and an adjustable heating temperature of 105 °C to 360 °C, the Moisture Meter offers quick and flexible drying of samples.

ISO cal option

- » all Temperature-insensitive materials up to 360 °C
brass chips, steel chips, titanium chips
- » large drying tray 110 x 240 x 20 mm
- » weight up to 400 g
- » fast and accurate results
- » robust industry standard
- » sample weight: min. 20 g
- » sample volume: max. 360 cm³
- » data output via USB and RS 232



APPLICATION



TECHNICAL SPECIFICATIONS

Absolute moisture	
Measurement range up to	0 ... 100 %
Resolution	0,01 %
Accuracy	0.01 %
Weighing range	
Measurement range up to [Max]	400 g
Resolution [d]	0,001 g
Accuracy	0.001 g
General technical data	
Heating temperature	105 ... 360 °C
Outputs	V24
Measurable materials	brass chips steel chips titanium chips
Measuring functions	% moisture, % dry matter, % moisture bd, g residual weight / kg, Residual weight
Display type	LCD with backlight
Display size	4 Inch
Interface	USB, RS232
Minimum load [min]	20 g
Menu language	German, English, English (GB)
Protection class (device)	IP20
Power supply	230V AC 48/63 Hz
Connector type	Schuko plug
Operating conditions	10 ... 40 °C , 0 ... 90 % RH
Storage conditions	10 ... 40 °C , 0 ... 90 % RH
Dimensions (L x W x H x D)	440 x 440 x 240 x 330 mm
Other dimensions	Inner pan size: 230 x 97 mm / 243 x 111 mm
Inner pan height:	17 mm
Weight	13200 g

Further model:

PCE-UX 3081

Heating temperature

Measurable materials

40 ... 200 °C

all light, voluminous materials

wood chips

wood fibers,

pellets

grasses,

straw, hay

animal feed

silage, tacco leaves

tea leaves

granules

powder



PCE-UX 3081

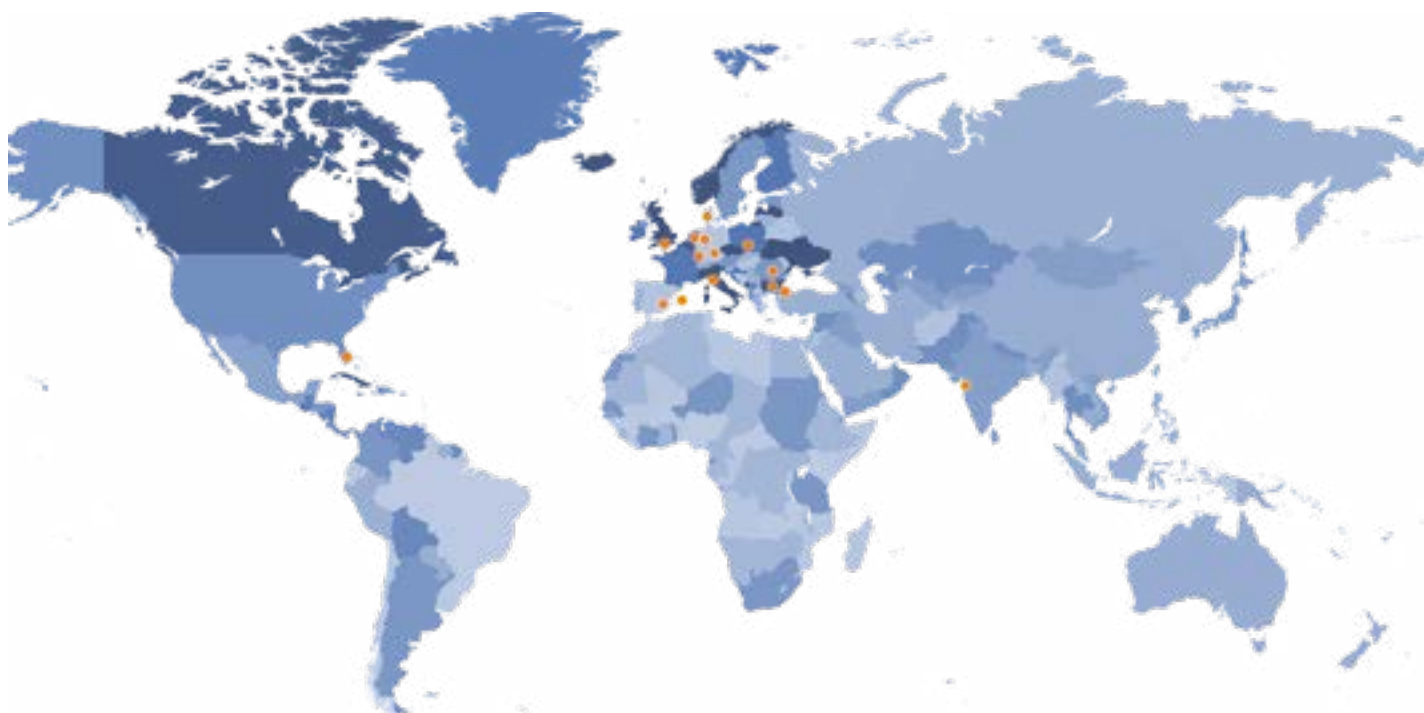


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