IBIX®
SPECIAL CLEANING

# IBIX® 9

**The IBIX® dry system is entirely made of aluminum, it is handy, easy to transport, extremely versatile and can be easily used by just one operator. The choice of the most appropriate blasting material and the adjustable blasting pressure make the IBIX® system multipurpose and capable of providing unequalled performances in innumerable fields of application, all in full observance of the operator safety and the environmental safeguard standards.**
**The ecological dry system is ideal to treat wood and porous stones on which using water is not recommended; it can successfully be used in fields where a particularly strong abrasive power is required, such as paint removal on metal and boats.**

## IBIX® 9

### TECHNICAL FEATURES

- Pressure adjustable from 0.2 to 7.5* bar
- Micrometric dosing of the blasting material
- Particles can range in size from 38 µm up to 600 µm and have different specific gravity (from Natural Mineral Almandine to Sodium Bicarbonate, Calcium Carbonate, Magnesium Carbonate, glass beads and vegetal media)
- Recommended compressed air supply: 500 l/min (17.6 CFM)
- Standard nozzle: internal Ø 3 mm cylindrical
- Other applicable nozzles: internal Ø 1.5-2-2.5-3 L.115-3.5-4-4.5 mm cylindrical and 2.5-4-4 L.115 mm Venturi
- Blasting medium - air hose with protective sheath: 6 m
- Blasting medium tank capacity: 9 l
- Max height: 715 mm
- Max width: 325 mm
- Max lenght: 350 mm
- Weight (with empty tank): 18 kg approx.

*Depending on the compressor

## A 90 (MOTOR-DRIVEN COMPRESSOR)


### TECHNICAL FEATURES

- Wheeled air compressor with high capacity Cejn type fittings
- Engine power: HONDA ENGINE 9 Hp
- Air flow rate: 500 l/min (17.6 CFM)
- Max. pressure: 10 bar (150 psi)
- Noise Level: 77 dB(A)
- Weight: 108 kg (235 lb)
- Dimensions: 1070x770x890 mm (42x30x35 in)

The A 90 Motor-driven compressor is equipped with connections suitable to match with the IBIX® 9 System concerning dimensions and air flow.

## ELECTRIC AIR DRYER T-DRY 6 FOR A 90 COMPRESSOR


### TECHNICAL FEATURES

- Air drying capacity: 600 l/m
- Volt/Hz: 230/60/1
- Max. Watt: 260
- Dimensions: 370x515x475 mm
- Weight: 25 kgs

Complete with hose and fittings for quick coupling to the A90 compressor or equivalent.


## NOZZLE BOX IBIX® 9

Nozzle:

- 2 - 4 mm cylindrical
- 2,5 - 4 mm Venturi

Архангельск (8182)63-90-72 Астана +7(7172)727-132 Белгород (4722)40-23-64 Брянск (4832)59-03-52 Владивосток (423)249-28-31 Волгоград (844)278-03-48 Вологда (8172)26-41-59
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Единый адрес для всех регионов: ixb@nt-rt.ru || www.ibix.nt-rt.ru

# IBIX® 25

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## IBIX® 25

### TECHNICAL FEATURES

- Pressure adjustable from 0.2 to 7.5* bar
- Micrometric dosing of the blasting material
- Particles can range in size from 38 µm up to 1400 µm and have different specific gravity (from Natural Mineral Almandine to Sodium Bicarbonate, Calcium Carbonate, Magnesium Carbonate, glass beads and vegetal media)
- Recommended compressed air supply: 1500 l/min (53 CFM)
- Standard nozzle: internal Ø 5.5 mm cylindrical
- Other applicable nozzles: internal Ø 1.5-2-2.5-3-3 L.115-3.5-4-4.5-5.5 L.115-7 mm cylindrical and 2.5-4-4 L.115-5-6-6 L.115 mm Venturi
- Blasting medium - air hose with protective sheath: 10 m
- Blasting medium tank capacity: 25 l
- Max height: 990 mm
- Max width: 316 mm
- Max lenght: 426 mm
- Weight (with empty tank): 30 kg approx.

*Depending on the compressor

## IB 2000 (MOTOR-DRIVEN COMPRESSOR)

BUILT-IN COOLING SYSTEM WITH AUTOMATIC CONDENSATE SEPARATOR AND DISCHARGER


### TECHNICAL FEATURES

- Air compressor with screw-type compression unit - wheeled
- Engine power: HONDA 22 Hp/unleaded petrol
- Built-in cooling system with automatic condensate separator and discharger
- Air flow rate: 1900 l/min (67 CFM) – CE: 1600 l/min (56.5 CFM)
- Max. pressure: 8 bar (116 psi)
- Noise level: 97 dB(A)
- Weight: 220 kg (485 lb)
- Dimensions: 1200x780x950 mm (47x30x37 in)

The IB2000 Motor-driven compressor is equipped with connections suitable to match with the IBIX® 25 System concerning dimensions and air flow.

## AIR DRYER - AMD 18

FOR COMPRESSORS UP TO 1800 L/MIN

### TECHNICAL FEATURES

- Air drying capacity: 1800 l/min
- Volt/Hz: 230/60/1
- Dimensions: 370x515x475 mm
- Weight: 32 kg

Fully equipped with hose and fittings for a quick connection to the compressor.


## AIR AFTERCOOLER ANP

PNEUMATICALLY CONTROLLED

### TECHNICAL FEATURES

- Max pressure: 16 bar
- Max temperature: 150° C
- Min. temperature: 0° C
- Air treatment capacity: 3500 l/m and 5000 l/m
- Weight: 28 Kg

The pneumatically-operated air aftercooler is available in 2 versions: one with an air treatment capacity of 3500 l/m and a second 5000 l/m version.


## NOZZLE BOX IBIX® 25

Ugello:

- 4,5 - 7 mm cylindrical
- 4-5 mm Venturi

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# IBIX® 40

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- Recommended compressed air supply: 5000 l/min (176.6 CFM)
- Standard nozzle: internal Ø 10 mm cylindrical
- Other applicable nozzles: internal Ø 5.5-7-8-12-15 mm cylindrical and 5-6 mm Venturi
- Blasting medium - air hose with protective sheath: 10 m
- Blasting medium tank capacity: 40 l
- Max height: 1100 mm
- Max width: 355 mm
- Max lenght: 520 mm
- Weight (with empty tank): 48 kg approx.

*Depending on the compressor

## IB 5300 DR REFRIGERATION COMPRESSOR

A modern and attractive compressor range design. Super silent compressors, respectful of the strictest environmental standards at global level.

- Compact, ergonomic and durable;
- Minimum noise pressure level and emissions, in accordance with the strictest regulations;
- SKID Versions available.

- Engine Power: Kubota V-2403-M-DI 36,5 kW/Diesel
- Air flow rate: 5200 l/min (183.6 CFM)
- Max. pressure: 8.5 bar
- Noise level: < 98 LWA
- Weight: 950 kg (2094 lb)
- Dimensions (with axle): 3024x1340x1360 mm (119x52x53 in)

## IBIX® AMD 52

AMD dryer achieve excellent performance even in instances of high ambient and high inlet temperatures. The highly efficient and ultra compact heat exchanger is able to operate effectively in ambient temperatures up to 45°C. The ALU-DRY aluminium module has a vertical flow layout ensuring the wet compressed air flows down to the automatic drain. The circulation of the refrigerant in the system is by high efficiency piston and rotary refrigerant compressor which, thanks to their innovative construction , have reduced energy consumption and high reliability levels.

### TECHNICAL FEATURES

- Air drying capacity: 5200 l/min
- Volt/Hz: 230/50/1
- Dimensions: 485x455x825 mm
- Weight: 49 kg


## NOZZLE BOX IBIX® 40

Nozzle:

- 7 - 8 - 12 mm cylindrical

# IBIX® 9 $H_2O$

**IBIX® $H_2O$ offers two different operating modes: dry or with a nebulized low-pressure water jet mixed with the abrasive; the mix happens in the nozzle so that the quantity of water used is reduced, along with the cleaning residues and the cost of protecting nearby areas.**

**The use of water prevents dust to spread in the surroundings and is perfect in urban contexts or where it is particularly important to reduce emissions.**

## IBIX® 9 $H_2O$

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### TECHNICAL FEATURES

- Air drying capacity: 600 l/m
- Volt/Hz: 230/60/1
- Max. Watt: 260
- Dimensions: 370x515x475 mm
- Weight: 25 kgs

Complete with hose and fittings for quick coupling to the A90 compressor or equivalent.

## 24 L STAINLESS STEEL SPRAYER

### TECHNICAL FEATURES

- 24 l (5.28 gal) stainless steel tank wheeled
- Max working pressure: 8 bar (116 psi)
- Empty weight: 15 kg (33 lb)
- Compressed air connector
- Water spray nozzle with special support bracket for **IBIX®** spray gun fixing, water on/off tap, tank to nozzle water delivery hose
- Nozzle model LM/75 with 7.5 m RILSAN spiral pipe

Dust removal by finely sprayed water dome, especially useful in case of very fine grain sized blasting materials


## NOZZLE BOX IBIX® 9 $H_2O$

Nozzle :

- 2 - 4 mm cylindrical
- 2,5 - 4 mm Venturi

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## NOZZLE BOX IBIX® 40 $H_2O$


Nozzle:

- 7 - 8 - 12 mm

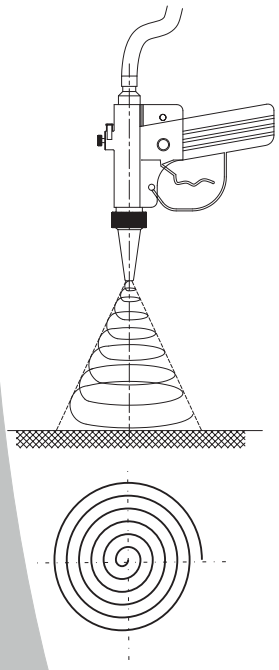
IBIX®
SPECIAL CLEANING

HELIX®

# IBIX®, TECHNOLOGICAL LEADER IN LOW PRESSURE SELECTIVE CLEANING THROUGH MICRO-AIR-ABRASION SYSTEM.

## CLEANING, A CRUCIAL PROCESS OF CONSERVATION WORK

Surface cleaning of historic and modern architecture is the most delicate part of the entire conservation project, the **IBIX®** method provides an important contribution to the cleaning cycle because it minimizes chemical and mechanical surface stress thanks to the possibility of achieving optimum calibration of the cleaning process by adjusting both the operating pressure and the grain size and hardness of the aggregates.
For a long time they have been introduced and widely accepted by cleaning systems authorities of methods that exploit an air vortex to achieve tangential impact of aggregates on treated surfaces, reducing any potential damages from direct impact.



## IBIX® CONTRIBUTION FOR SOLUTION OF CLEANING PROBLEMS

The experience gained in development of equipments for micro-air-abrasion allowed us to add to our range of **IBIX®** Cleaning Systems a new operating gun equipped with an original helical vortex nozzle guaranteeing the maximum respect for the surface patina of prestigious historic artefacts.In compliance with the conservation specifications, the patented **HELIX®** system reconciles the need for maximum protection of the valuable surface patinas and historic coatings of precious artefacts, with the need to optimize worksite performances, with due regard for the need of careful training of operators.

### WHAT HELIX® MEANS

Compared to traditional nozzles the patented new-generation **HELIX®** system offers, for the same nozzle dimensions, an extended tangential contact area maintaining the action of the aggregates uniform and calibrated per surface unit; this makes it possible to increase the distance of the operator from the treated surface, minimizing invasiveness without losing the regularity and evenness of cleaning and avoiding the need for operators to make constant corrections, which can result in definitive loss of the layers under conservation.

## A WINNING INNOVATION

The heart of the patented **HELIX®** system exploits a combination of the Venturi effect, generated by a special conformation of the outlet cone, with a device that induces a helical rotary movement, in order to considerably reduce the air volume required to operate the machine. This has made it possible to enhance the capacity of **IBIX®** equipment, which has always been known for its compact dimensions, lightness, low compressed air and aggregate consumption, which means, besides economic savings, ease of operation on the worksite and extremely easy transport and handling. The use of special wear resistant steel varieties and the absence of mechanical moving parts means that the new **HELIX®** nozzle stands out for its durability even when the use of media or very hard minerals like almandine garnet, corundum, etc. is necessary.

## IBIX® DRY AND WET MICRO-AIR-ABRASION SYSTEM WITH HELIX® HELICAL VORTEX NOZZLE

### General points

- A cleaning system using dry and wet micro-air-abrasion **IBIX®** equipment with controlled low pressure projection of specific calcium carbonate based aggregates for cleaning artistic artefacts, of extremely fine grain size (from 120 to 350 Mesh) and hardness less than 3 Mohs, or spherical almandine garnet (hardness 7.5 Mohs,) or vegetal blasting materials, or with sodium bicarbonate for non porous, scratchable, and glossy surfaces; hardness to be selected on the basis of the type of substrate and form of degradation being treated.
- Operating pressure using compressed cooled and dehumidified air adjustable starting from 0.2 bar.
- Micrometric adjustment of the compressed air/aggregate/vaporized water mixture. Light, ergonomic application gun with interchangeable hard metal nozzles and inner of diameters from 1 to 4.5 mm cylindrical or conical, or with helical vortex technology for a **HELIX®** tangential-rotating abrasive action, particularly recommended for use on decorative elements, friezes, mouldings, and recesses. Distance from the artefact variable on the basis of the surface condition and the operating pressure.

## HELIX® 9 SELECTIVE CLEANING SYSTEM

- Pressure adjustable from 0.2 to 7.5* bar
- Micrometric dosing of the blasting material
- Particles can range in size from 38 µm up to 600 µm and have different specific gravity (from Natural Mineral Almandine to Sodium Bicarbonate, Calcium Carbonate, Magnesium Carbonate, glass beads and vegetal media)
- Recommended compressed air supply: 500 l/min (17.6 CFM)
- Standard nozzle: internal Ø 3 mm Venturi
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## APPLICATION GUN WITH HELICAL VORTEX NOZZLE

A nozzle made in special wear resistant steel with helical motion generation device integrated into the containment structure, and specially shaped outlet cones for the aggregate/air mixture making it possible to exploit the Venturi principle and significantly widen the tangential contact area maintaining the action of the aggregates uniform and calibrated by unit of surface.
**HELIX®** gun available for the IBIX® 9, IBIX® 9 $H_2O$, IBIX® 25, and IBIX® 25 $H_2O$ systems.


Outlet cones in tungsten carbide: diameters available 3, 4, 6, 8 mm.

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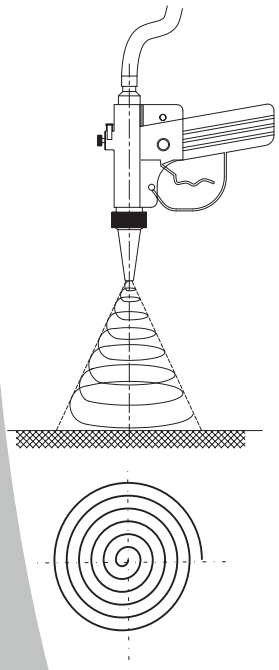

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- A cleaning system using dry and wet micro-air-abrasion **IBIX®** equipment with controlled low pressure projection of specific calcium carbonate based aggregates for cleaning artistic artefacts, of extremely fine grain size (from 120 to 350 Mesh) and hardness less than 3 Mohs, or spherical almandine garnet (hardness 7.5 Mohs,) or vegetal blasting materials, or with sodium bicarbonate for non porous, scratchable, and glossy surfaces; hardness to be selected on the basis of the type of substrate and form of degradation being treated.
- Operating pressure using compressed cooled and dehumidified air adjustable starting from 0.2 bar.
- Micrometric adjustment of the compressed air/aggregate/vaporized water mixture. Light, ergonomic application gun with interchangeable hard metal nozzles and inner of diameters from 1 to 4.5 mm cylindrical or conical, or with helical vortex technology for a **HELIX®** tangential-rotating abrasive action, particularly recommended for use on decorative elements, friezes, mouldings, and recesses. Distance from the artefact variable on the basis of the surface condition and the operating pressure.

# HELIX® 25 SELECTIVE CLEANING SYSTEM

- Pressure adjustable from 0.2 to 7.5* bar
- Micrometric dosing of the blasting material
- Particles can range in size from 38 µm up to 1400 µm and have different specific gravity (from Natural Mineral Almandine to Sodium Bicarbonate, Calcium Carbonate, Magnesium Carbonate, glass beads and vegetal media)
- Recommended compressed air supply: 1500 l/min (53 CFM)
- Standard nozzle: internal Ø 6 mm Venturi
- Other applicable nozzles: internal Ø 2-3-4 mm selective and 2-3-4-8 mm Venturi
- Blasting medium - air hose with protective sheath: 10 m
- Blasting medium tank capacity: 25 l
- Max height: 990 mm
- Max width: 316 mm
- Max lenght: 426 mm
- Weight (with empty tank): 30 kg approx.

*Depending on the compressor

# APPLICATION GUN WITH HELICAL VORTEX NOZZLE

A nozzle made in special wear resistant steel with helical motion generation device integrated into the containment structure, and specially shaped outlet cones for the aggregate/air mixture making it possible to exploit the Venturi principle and significantly widen the tangential contact area maintaining the action of the aggregates uniform and calibrated by unit of surface.

**HELIX®** gun available for the IBIX® 9, IBIX® 9 $H_2O$, IBIX® 25, and IBIX® 25 $H_2O$ systems.


Outlet cones in tungsten carbide: diameters available 3, 4, 6, 8 mm.

IBIX®
SPECIAL CLEANING

# TRILOGY 9

## DOUBLE OPERATING (WET/DRY) AIR-CLEANER FOR AN ECO-FRIENDLY CLEANING, MICRO-AIR-ABRASIVE, SODA BLASTING.

**Available equipment:**

- Compressed-air pipe + inert + water (length: 3 m + 10 m extension cord) with "Quick Connect" quick-fixing.
- Double gun: H2O + HELIX® patented system
- Conical bottom tank: it improves the inert's flux and avoid different inerts contamination.
- Blend's valve with Tungsten Carbide hose-fitting (high abrasion resistance) and "Quick Connect" fixing system.

**Optional:**

- HELIX® cones kit (Ø int. mm 4-6)
- Cylindrical nozzles Box (Ø 2-4,5 mm) and Venturi (Ø 2,5-4 mm)
- Nozzle kit "Long Nozzle" in order to increase the abrasive jet intensity ( available with 3mm cylindrical diameter – 4mm Venturi)*.

* The "Long Nozzle" is essential for the IBIX® extractor fans' use.

## TECHNICAL FEAUTURES

- Pressure adjustable from 0.2 to 7.5* bar
- Micrometric dosing of the blasting material
- Particles can range in size from 38 µm up to 600 µm and have different specific gravity (from Natural Mineral Almandine to Sodium Bicarbonate, Calcium Carbonate, Magnesium Carbonate, glass beads and vegetal media)
- Recommended compressed air supply: 500 l/min (17.7 CFM)
- Standard nozzle: internal Ø 3 mm cylindrical with DRY and $H_2O$ guns; internal Ø 3 Venturi with HELIX gun
- Other applicable nozzles: internal Ø 1.5-2-2.5-3 L.115-3.5-4-4.5 mm cylindrical and 2.5-4-4 L.115 mm Venturi with DRY and H2O guns, internal Ø. 2-3-4 mm selective and 2-4-6-8 mm Venturi with HELIX gun
- Blasting medium - air hose with protective sheath: 6 m
- Blasting medium tank capacity: 9 l
- Max height: 715 mm
- Max width: 325 mm
- Max lenght: 350 mm
- Weight (with empty tank): 18 Kg approx.

*Depending on the compressor


**DOUBLE GUN PROVIDED**

## IBIX® $H_2O$ Selective Cleaning Systems

Double operating wet/dry technology that allows to vaporise the exiting water with carbonates and other minerals.
**IBIX® $H_2O$** systems are provided with quick-fixing for an easier connection to the water supply network or to a water tank.
In the preservative restoration, **IBIX® $H_2O$** System allows to fill any clearing need, offering high-standard perfomances in terms of quality and quantity results.
As well as high performances for the urban decor (graffitis, chewingums, etc... removal).

## Cleaning System with HELIX® spinning coil vortex

A combination of Venturi effect is created by the special outbound conic shape and its spinning coil vortex movement allows to significantly reduce the compressed air demand and to increase the contact area.
The use of special wearing Tungsten-carbonate-based steels allows to design durable nozzles which can also resist to heavy abrasives.


## IBIX® ecological inerts

**IBIX®** method is based on the environment and surfaces respect. For this reason IBIX® has developed a solo eco-friendly and low environmental impact technology.
**IBIX®** equipments offer a wide range of ecological inerts that guarantee the greatest eco-friendly operative efficency .

**IBIX® ART**
Perfect for timbers sandblasting

**CARBON ART**
Calcium Carbonate, selected material for stone surfaces cleaning

**GLASS MICROSPHERES**
Cleaning, metals grinding, glazing, shot peening or welding finishing

**BAKING SODA**
Efficient and uniform cleaning


**ECOSHELL INERTS OBTAINED FROM PLANTS**
Ecological cleaning and brushing without altering the surface

## REFERENCES

**Imperial forums (I century A.D.), Rome** - Cleaning of stone and travertine faces
**St. Peter's Basilica, Vatican City** - Restoration of the Bernini Colonnade
**Louvre Museum (XIII century A.D.), Paris** - Cleaning of sandstone
**Eiffel Tower (XIX century A.D.), Paris** - Cleaning of the stone pillars
**Peter's Gate (XVIII century A.D.), Saint Petersburg** - Cleaning of stone
**Noto Cathedral (XVIII century A.D.)** - Cleaning of limestone
**Italian Embassy in Istanbul, Turkey –** Cleaning and removal of protective coating with IBIX® Art dry and mineral method
**Dolmabahçe Palace, Istanbul –** Dry cleaning with spray water
**Saint Anthony Basilica (XIII century A.D.) -** Cleaning of the colonnade, statue and bricks
**Cathedral of Lucera (XVI century A.D.) –** Cleaning of bricks and sandstone

**BMW**
**Daimler Mercedes**
**British Petroleum**
**Institut du Pétrole - France**
**Technicentre SNCF (French Railway Transports)**
**Trenitalia**
**DAEWOO - Korea**
**HYUNDAI - Korea**
**CODELCO MINES, Chile**
**Sandblasting ans coating society for PETROBRAS - Brazil**
**TURNER INDUSTRIES - Baton Rouge, Louisiana (USA)**
**CEA ( Atomic Energy and Alternative Energies Commission) - France**
**AREVA (Nuclear) - France**
**Bonduelle - France**
**Jägermeister - Germany**
**Kellogg's – United Kingdom**
**Nonno Nanni (Dairy Factory) - Italy**
**food industry COOP Chain - Italy**

and many more...

IBIX®
SPECIAL CLEANING

# TRILOGY 28

## DOUBLE OPERATING (WET/DRY) AIR-CLEANER FOR AN ECO-FRIENDLY CLEANING, MICRO-AIR-ABRASIVE, SODA BLASTING.

**Available equipment:**

- Compressed-air pipe + inert + water (length: 3 m + 10 m extension cord) with "Quick Connect" quick-fixing.
- Double gun: H2O + HELIX® patented system
- Conical bottom tank: it improves the inert's flux and avoid different inerts contamination.
- Blend's valve with Tungsten Carbide hose-fitting (high abrasion resistance) and "Quick Connect" fixing system.

**Optional:**

- HELIX® cones kit (Ø int. mm 4-6)
- Cylindrical nozzles Box (Ø 2-4,5 mm) and Venturi (Ø 2,5-4 mm)
- Nozzle kit "Long Nozzle" in order to increase the abrasive jet intensity ( available with 3mm cylindrical diameter – 4mm Venturi)*.

* The "Long Nozzle" is essential for the IBIX® extractor fans' use.

## TECHNICAL FEAUTURES

- Pressure adjustable from 0.2 to 7.5* bar
- Micrometric dosing of the blasting material
- Particles can range in size from 38 µm up to 1400 µm and have different specific gravity (from Natural Mineral Almandine to Sodium Bicarbonate, Calcium Carbonate, Magnesium Carbonate, glass beads and vegetal media)
- Recommended compressed air supply: 1500 l/min (53 CFM)
- Standard nozzle: internal Ø 5.5 mm cylindrical with DRY and $H_2O$ guns; internal Ø 6 mm Venturi with HELIX gun
- Other applicable nozzles: internal Ø 1.5-2-2.5-3-3 L.115-3.5-4-4.5-5.5 L.115-7 mm cylindrical and 2.5-4-4 L.115-5-6-6 L.115 mm Venturi with DRY and $H_2O$ guns; internal Ø 2-3-4 mm selective and 2-3-4-8 mm Venturi with HELIX gun
- Blasting medium - air hose with protective sheath: 10 m
- Blasting medium tank capacity: 28 l
- Max height: 990 mm
- Max width: 316 mm
- Max lenght: 426 mm
- Weight (with empty tank): 30 Kg approx.

*Depending on the compressor


## IBIX® $H_2O$ Selective Cleaning Systems

Double operating wet/dry technology that allows to vaporise the exiting water with carbonates and other minerals.
**IBIX® $H_2O$** systems are provided with quick-fixing for an easier connection to the water supply network or to a water tank.
In the preservative restoration, **IBIX® $H_2O$** System allows to fill any clearing need, offering high-standard perfomances in terms of quality and quantity results.
As well as high performances for the urban decor (graffitis, chewingums, etc... removal).

## Cleaning System with HELIX® spinning coil vortex

A combination of Venturi effect is created by the special outbound conic shape and its spinning coil vortex movement allows to significantly reduce the compressed air demand and to increase the contact area.
The use of special wearing Tungsten-carbonate-based steels allows to design durable nozzles which can also resist to heavy abrasives.


## IBIX® ecological inerts

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**IBIX®** equipments offer a wide range of ecological inerts that guarantee the greatest eco-friendly operative efficency .

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Efficient and uniform cleaning


**ECOSHELL INERTS OBTAINED FROM PLANTS**
Ecological cleaning and brushing without altering the surface

## REFERENCES

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**Noto Cathedral (XVIII century A.D.)** - Cleaning of limestone
**Italian Embassy in Istanbul, Turkey –** Cleaning and removal of protective coating with IBIX® Art dry and mineral method
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**Trenitalia**
**DAEWOO - Korea**
**HYUNDAI - Korea**
**CODELCO MINES, Chile**
**Sandblasting ans coating society for PETROBRAS - Brazil**
**TURNER INDUSTRIES - Baton Rouge, Louisiana (USA)**
**CEA ( Atomic Energy and Alternative Energies Commission) - France**
**AREVA (Nuclear) - France**
**Bonduelle - France**
**Jägermeister - Germany**
**Kellogg's – United Kingdom**
**Nonno Nanni (Dairy Factory) - Italy**
**food industry COOP Chain - Italy**

and many more...

IBIX®
SPECIAL CLEANING

# IBIX® NANO


## NANO IBIX® 3

**This aero-abrasive cleaning system NANO IBIX® 3 is a special kit for samples, ideal for small cleaning treatments and spot blasting as well, available in both DRY and $H_2O$ versions.**

## NANO IBIX® 3 TRILOGY

It is a double functioning (dry/wet) aero-abrasive device, equipped with a special "Quick Connect" system and two easily interchangeable guns, i.e. **$H_2O$** and **HELIX®**.



## KIT NANO IBIX® 3

The **IBIX® 3 NANO** Kit comes out in three versions.
It features a small 2 liters (0.52 gallons) tank which can be emptied completely in order to facilitate the media exchange operations and to avoid any risk of media contamination. This facility is provided by a special molded funnel installed inside the **IBIX® 3 NANO** tank..

## NANO IBIX® 3 WITH PEN

The Nano **IBIX®** 3 can be also equipped with micro-tip This tool allows you to work on the smallest details with maximum comfort. The pen is made of tungsten carbide and unlike the ceramic tips, it is very strong and durable.

## TECHNICAL FEATURES

- Pressure adjustable from 0.2 to 7.5* bar
- Micrometric dosing of the blasting material
- Particles can range in size from 38 µm up to 600 µm and have different specific gravity (from Natural Mineral Almandine to Sodium Bicarbonate, Calcium Carbonate, Magnesium Carbonate, glass beads and vegetal media)
- Recommended compressed air supply: 300 l/min (10.59 CFM)
- Standard nozzle: internal Ø 3 mm cylindrical with DRY and $H_2O$ guns; internal Ø 2 mm Venturi with HELIX
- Other applicable nozzles: internal Ø 1.5-2-2.5-3 L.115-3.5-4-4.5 mm cylindrical and 2.5-4-4 L.115 mm Venturi with DRY and $H_2O$ guns; internal Ø 2-3-4 mm selective and 3-4-6-8 Venturi with HELIX gun
- Blasting medium - air hose with protective sheath: 2.5 m
- Blasting medium tank capacity: 2 l
- Max height: 500 mm
- Max width: 220 mm
- Max lenght: 270 mm
- Weight (with empty tank): 10 kg approx.

*Depending on the compressor

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