



Technical Solutions for Cleaning, Abrasive Blasting and Spot Blasting in Industrial Applications





Revolutionary Micro-Air-Abrasion Technology

Conventional & Rotational Soft Abrasion Techniques

The **IBIX® System** is the Perfect Portable Blasting Equipment for a wide variety of applications:

Surface Cleaning and Pre-Painting Preparation including

- Removal of paint and coatings, rust, mill scale, oil, grease, dust, dirt, oxides, corrosion products and other foreign matter in compliance with the International Surface Preparation Standards
- Abrasive blasting inside oil tanks with small manholes
- Corrosion removal and abrasive blasting of stainless steel-galvanized steel light structures
- Maintenance of structural steel in the copper processing plants and the mining industry in general

Decontamination and Cleaning in the field of industrial plant maintenance including

- Removal of grease, oil, residues of paints, glue and ink from machinery and utensils
 - Cleaning of cooling plants
 - NDT Controls for welding inspections
 - Cleaning of welds and of welded areas of aluminum or stainless steel structures to remove oxides
 - Cleaning of aluminum equipment
 - Cleaning of rubber gaskets
 - Removal of carbon deposits without altering the surface
- etc.

IBIX® System main features :

IBIX® portable abrasive blasters are handy, light-weight and user-friendly, they always deliver a perfectly consistent air and media flow, they notably require very low air volume and one operator only.

- the **IBIX®** blasters are the perfect maintenance tool which successfully replaces manual jobs
- they reduce working time and labour costs for maintenance and repair works
- the light-weight and the wheels enable the **IBIX®** user to move easily and quickly and to reach areas which are difficult to reach and to do abrasive blasting jobs accurately on small or wide surfaces
- **IBIX®** wet & dry blasters enable the user to perform dry blasting on site on small areas (spot blasting) or on larger areas and to easily switch to wetblasting with mineral abrasive or to Soda Blasting in all areas where dryblasting could cause problems to machineries such as equipment, air intakers, air compressors etc.

List of companies using the IBIX® Portable Blasting Equipment

BMW

Daimler Mercedes

British Petroleum

Institut du Pétrole - France

Technicentre SNCF (French Railway Company)

Trenitalia (Italian Railway Company)

DAEWOO - Korea

HYUNDAI - Korea

CODELCO MINES (Chile)

Blasting contractors for Petrobras (Brazil)

TURNER INDUSTRIES - Baton Rouge, Louisiana (USA)

CEA

(Commissariat à l'énergie atomique et aux énergies alternatives) - France

AREVA (Nuclear Power Industry) - France

Bonduelle - France

Jägermeister - Germany

Kelloggs' - UK

Nonno Nanni (Italian Cheese Producer)

Italian Pasta Producer of Coop Supply Chain

BKW - Dallas Airport maintenance - USA

Volkswagen Polska - Poland

ExxonMobil - Oil Company - USA

Monti Antonio Spa - Fabric Bonding - Italy

Valoriza, Clece - **Servicios Medioambientales Metro Madrid** - Spain

Deutsche Bahn - Germany

Trenord - Italy

and many more!

The IBIX[®] Cleaning & Abrasive Blasting Systems

The premier, versatile, economical lightweight aluminium systems available in the industry. IBIX media blasting systems are available in 5 sizes i.e. **IBIX[®] 3 NANO**, **IBIX[®] 9**, **IBIX[®] 25**, **IBIX[®] 40**, **IBIX[®] 60** and in 4 versions:

- **IBIX[®] Dry** Blasting Systems
- **IBIX[®] H₂O** Media Cleaning and Blasting Systems with dual action wet and/or dry technology
- Rotational Vortex **HELIX[®]** Media Cleaning Systems
- New aero-abrasive systems **TRILOGY**

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 **H₂O** 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. **H₂O** and **HELIX®**.



IBIX® 3 NANO KIT

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.



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 H₂O guns; internal Ø 2 mm 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 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 length: 270 mm
- Weight [with empty tank]: 10 Kg approx.

*Depending on the compressor

CERTIFICATIONS:

EU PED 97/23/ CE directive - Certificate no. TIS-PED-BO-10-12-061202-4523

Machineries manufactured in conformity with the ASME USA guidelines - Certificate # 41.779



ACCESSORIES

A special case comes with the kit. It contains a set of special graduated jars with single doses of 10 different types of media readily available for cleaning demos.



MEDIA SAMPLE CASE

Polypropylene case with cut foam padding containing 11 graduated jars:

- 5x1 l (0.26 gal) graduated jars
- 5x0.5 l (0.13 gal) graduated jars
- 1 x 250 ml (0.07 gal) graduated empty jar to be used for dosing purposes

Supplied Media:

- 5x0.5 l (0.13 gal) jars with **IBIX**® Art Garnet media (20/40, 30/60, 80, 120, 200 mesh)
- 5x1 l (0.26 gal) jars with:
 - Z5 White Carrara Marble Calcium Carbonate - grain size 200 - 300 µm
 - Z6 White Carrara Marble Calcium Carbonate - grain size 100 - 200 µm
 - Refined Bicarbonate of Soda - grain size 40 µm
 - Granulated Walnut (vegetal granules from shredded walnut shells - grain size 200 - 800 µm)
 - Corn-cob (corn-cob granules - grain size 280 - 800 µm)

IBIX® DRY BLASTING SYSTEMS

Perfect for a wide variety of applications, pre-painting preparation and surface cleaning. The **IBIX®** blasting machines always deliver a perfectly consistent air and media flow, they notably require very low air volume and one operator only.

IBIX® 9

- 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: 670 l/min (23.6 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 length: 350 mm
- Weight (with empty tank): 18 Kg approx.

*Depending on the compressor



IBIX® 25

- 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: 1900 l/min (67.09 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 length: 426 mm
- Weight (with empty tank): 30 Kg approx.

*Depending on the compressor



IBIX® 40

- 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: 8000 l/min (282.51 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 length: 520 mm
- Weight (with empty tank): 48 Kg approx.

*Depending on the compressor



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IBIX® H₂O

PORTABLE SURFACE CLEANING SYSTEMS

Dual action wet and/or dry technology.

Special wet surface treatment nozzle for water spraying and mixing at nozzle outlet with carbonates and other minerals, installed in the standard tungsten carbide nozzle.

The **IBIX® H₂O** units feature quick lock systems for easy connection to water mains or a water tank.

New integrated selective cleaning systems with automatic water spraying function for low pressure washing with carbonates or mineral blasting materials.

IBIX® H₂O technology can be used in two different ways i.e. standard dry operation with mineral or vegetal media or low pressure spraying of atomised water mixed with blasting media.



IBIX® 9 H₂O

- 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: 670 l/min (23.6 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 length: 350 mm
- Weight (with empty tank): 18 Kg approx.

*Depending on the compressor

IBIX® 25 H₂O

- 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: 1900 l/min (67.09 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 length: 426 mm
- Weight (with empty tank): 30 Kg approx.

*Depending on the compressor



IBIX® 40 H₂O

- 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: 8000 l/min (282.51 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 length: 520 mm
- Weight (with empty tank): 48 Kg approx.

*Depending on the compressor



VORTEX IS THE KEY

HELIX®: the best Technological Solution for Conservative Cleaning

PATENTED HELIX® SYSTEMS: THE CUTTING EDGE VORTEX TECHNOLOGY

A combination of the Venturi effect generated by a special conformation of the outlet cone and a helical rotary movement system considerably reduces the air volume and increases the cleaning target area. The use of special wear resistant tungsten carbide steel produces a nozzle that stands out for its durability and longevity, even when using extremely hard abrasives.

30% FASTER

30% MORE EFFICIENT



IBIX® 9 H₂O/HELIX®

- 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: 670 l/min (23.6 CFM)
- Standard nozzle: internal Ø 3 mm Venturi
- Other applicable nozzles: internal Ø 2-3-4 mm selective and 2-4-6-8 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 length: 350 mm
- Weight (with empty tank): 18 Kg approx.

*Depending on the compressor

IBIX® 25 H₂O/HELIX®

- 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: 1900 l/min (67.09 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 length: 426 mm
- Weight (with empty tank): 30 Kg approx.

*Depending on the compressor



IBIX® 40 H₂O/HELIX®

- 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: 8000 l/min (282.51 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: 40 l
- Max height: 1100 mm
- Max width: 355 mm
- Max length: 520 mm
- Weight (with empty tank): 48 Kg approx.

*Depending on the compressor



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TRILOGY

TRIPLE-FUNCTION CLEANING SYSTEM: DRY-H₂O-ROTATIONAL VORTEX TECHNOLOGY

The **TRILOGY** technology summarises the best of innovation in a single **IBIX**® machine. With the outstanding **TRILOGY** equipment it is possible to increase the speed of cleaning and treatment, further improving the performances of the **IBIX**® machines.

TRILOGY combines in a single machine the dry technology, the H₂O technology and the Rotational Vortex **HELIX**® in order to provide a solution to all treatment requirements.

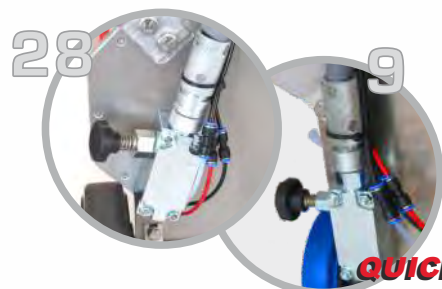
TRILOGY offers maximum versatility to operators and therefore the possibility of expanding the range of services offered and the amount of works performed. All this of course without giving up the customary strengths of **IBIX**® machine: practicality, lightweight, speed, safety and eco-friendliness that remain the key features of these innovative machines.

Included:

- Hose for compressed air + inert materials + water (length: 3 m + extension 10 m) with quick lock system «Quick Connect»
- Double gun: H₂O + Patented **HELIX**® system
- Cone bottom tank: improves the flow of inert materials and prevents contamination between different inert materials
- Mixing valve with hose connector made of Tungsten Carbide (high resistance to abrasion) and quick lock system «Quick Connect»

Optional:

- Kit of **HELIX**® Cones (Ø int. 4-6 mm)



QUICK CONNECT



**DOUBLE GUN
 PROVIDED**

- Box of cylindrical nozzles (Ø 2-4.5 mm) and Venturi nozzles (Ø 2.5-4 mm)
- Kit of nozzles "Long Nozzle" to increase the power of the abrasive blast (available diameters: 3 mm cylindrical - 4 mm Venturi)*.

* The "Long Nozzle" is indispensable for the use of **IBIX**® suction hoods.



NOZZLES BOX



TRILOGY 9

- 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: 670 l/min (23.6 CFM)
- Standard nozzle: internal Ø 3 mm cylindrical with DRY and H2O 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 length: 350 mm
- Weight (with empty tank): 18 Kg approx.

*Depending on the compressor



TRILOGY 28

- 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: 1900 l/min (67.09 CFM)
- Standard nozzle: internal Ø 5.5 mm cylindrical with DRY and H2O 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 H2O 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 length: 426 mm
- Weight (with empty tank): 30 Kg approx.

*Depending on the compressor



IBIX® H₂O SELECTIVE CLEANING SYSTEMS

Dual action dry and/or wet technology that allows water spraying by mixing it in output with carbonates or other minerals. The IBIX® H₂O systems feature quick lock systems for easy connection to water mains or a water tank.

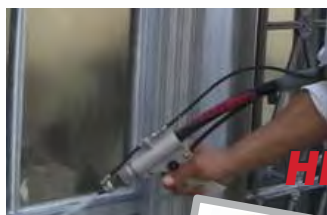
In conservative restoration works, the system IBIX® H₂O allows meeting any cleaning requirements offering high level performances in terms of qualitative and quantitative yield. It further provides top level performance in the field of urban recovery (graffiti cleaning, removal of chewing-gum etc).



DRY



DRY



H₂O



HELIX®

ROTATIONAL VORTEX HELIX® MEDIA CLEANING SYSTEM

A combination of the Venturi effect generated by the special conformation of the outlet cone and the helical rotary movement system considerably reduces the compressed air demand and increases the contact area.

The special wearproof Tungsten Carbide-based steel used allows manufacturing nozzles that stand out for durability and long useful life even when using abrasives of extreme hardness.



IBIX® 9 H₂O service kit



IBIX® Helix 25 service kit

ACCESSORIES

IBIX® SERVICE KIT

A new and very professional way of managing service and repairs.

IBIX® Service Kit is a professional tool and spare part case that enables the IBIX® user to service his machine and do repairs quickly and directly on the worksite.

This means reducing production and worksite stops to a minimum.

A Service Kit for each IBIX® most widely used models: **IBIX® 9 H₂O/HELIX® 9/**
IBIX® 25 H₂O/HELIX® 25.

The IBIX® Service Kit contains:

- All tools including the special tools that are required to disassemble and reassemble the IBIX® blaster parts
- All spare parts [except for aluminum extrusions, blast hose, main air valve, wheels and some other structural parts ...]
- Air and water couplings and adaptors
- The new «**heavy duty blasting kit**»: a special air/media mixing valve + a Quick Connect type hose connector made of tungsten carbide
- A full kit of nozzles including 3 «speed blast» nozzles for IBIX® conventional blasters that enable media projection acceleration
- A professional degripping spray agent

NOZZLE BOXES

Nozzle boxes for **IBIX® NANO 3**, **IBIX® 9**, **IBIX® 25** and **IBIX® 40** (dry and H₂O versions).



PPE - Personal Protection Equipment

Breathing mask

With filter recommended for light blasting jobs.



Power Cap®

Power Cap® Active™ is a lightweight and innovative positive pressure respirator designed to protect the user from dust particles and contaminants in the air; comfortable, lightweight and ergonomic, it is the ideal solution for works in dusty environments such as blasting and cleaning, as well as joinery, carpentry, food industry etc. It is compliant with EN 12949 TH1P standards. Recommended for medium-light blasting jobs; it conveys more comfort for the operator.

Battery operated breathing helmet

All-in-one helmet fitted with a sun shade peak that protects the lift-up visor from the sun. This also enables the helmet to be rested in any position because the peak also protects the visor if it is accidentally dropped. The air circulates in a chamber and flows over the visor to prevent it misting up. It is suitable for medium blasting jobs.



APOLLO 600 Helmet

Apollo 600 helmet has a strong durable frame that provides optimum work safety. It is also equipped with oxygen supply that ensures comfortable and safe use for the operator.

The Apollo 600 technology improves the work process, ensuring ease of operation due to its special features:

- The replaceable inlet connector guarantees a longer life of the helmet in case of wear
- The front mask, secured with screws, can be easily replaced without danger of damage
- The visor sheath is very wide in order to protect the top of the helmet from abrasive dust
- The washable lining inside, on the neck, makes the helmet cleaning easy and fast
- The fixing strip of the helmet, wrapping around the bottom edge of the cap, can be easily closed with a buckle locking the helmet for maximum user safety
- A pressure indicator warns the operator of any drops inside the helmet
- The helmet can be adjusted through a comfortable knob

It is suitable for heavy blasting jobs, including in confined areas.

CPF20 filter is designed to eliminate moisture and water (or oil) vapour and particles up to 0.5 micron in the breathing air generated by the compressor.

This unit can provide filtered air to the user of the fed helmet during the entire blasting work.

It is suitable for heavy blasting jobs, including in confined areas.



LANCES*

Connected to a suitable industrial extraction fan, such devices facilitate dust suction when performing indoor works. They allow extending the spray gun and thus facilitate the treatment of ceilings and floors, and the special uses of **IBIX®** technologies.



NOZZLE EXTENSION LANCE



INTERNAL TUBE BLASTING LANCE



CURVED TIP FLOOR LANCE FOR FLOORS

Ideal lance for preparing surface pre-coating, allows working on walls and floors with maximum comfort.

FUNNELS



FUNNELS WITH OR WITHOUT STRAINER

25 L FUNNEL



«NO DUST» SUCTION HOODS&BRUSHES*

Connected to a suitable industrial extraction fan, such devices facilitate dust suction when performing indoor works.



*lances and hoods are customizable accessories



BACK PACK

Thanks to a practical harness, **IBIX®** Back Pack allows carrying the machine as a backpack. Ideal for treatment at height and difficult access.

24 L STAINLESS STEEL SPRAYER

TECHNICAL SPECIFICATIONS

- 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



REFRIGERATION AIR DRYERS

These dryers achieve excellent performance even in instances of high ambient and high inlet temperatures ensuring a reduced compressed air pressure drop. The compressed air quality is essential to ensure proper operation of the **IBIX®** blasters. They must be fed with oil-free and dry air especially when they are used with fine abrasives or bicarbonate of soda.

IBIX® R1 BLASTING MEDIA RECOVERY UNIT

The media recovery unit consists of a specific structure containing a specifically designed cyclone dust separator for the recovery and recycling of media normally used with **IBIX®** ecological blasting systems. The cyclone is equipped with a special detachable filter that allows retention of residues and foreign objects of sizes large enough to create blocks in the **IBIX®** eco-blasting machine. **IBIX® R1** is a machine designed to ensure optimum management of the media. By material recovery and filtering, **IBIX® R1** allows containing the abrasive consumption related costs. The system can use the material for many cycles of blasting*, minimizing the incidence of the media cost on the work. **IBIX® R1** is environmentally friendly, the media used is non-toxic and contains no free silica, and the recovery of abrasive limits the costs of disposal with significant advantages for environmental sustainability. The number of times the media can be reused varies depending on the application and working conditions; when the abrasive loses its effectiveness, it has to be replaced.

FILTER UNIT



Cartridge filter unit with rotor cleaning system; cleaning is manually controlled by the operator through a button on the control panel

CYCLONE-SEPARATOR UNIT



The cyclone can download the aspirated material in a tank or directly in the **IBIX®** blasting machine. The cyclone may be equipped with riser rails with pneumatic cylinder, or fixed in the upper position (see layout). Thus, the dust container [05] can be positioned beneath the cyclone or the **IBIX®** blasting [06] machine.

IBIX® BLASTING MACHINE



Dimensions (mm): 1400x800x2100 H

Dust container

Trolley

Turbine of 1.6 kW available in single or three phase version

TURBINE





IB 2 (Electro-compressor)

A new portable, electrically-driven, rotary screw compressor, ultra-compact featuring low noise emission.

TECHNICAL FEATURES

- Wheeled compressor
- Electric motor: 2.2 kW / 230 V
- Air flow rate: 300 l / min (10.59 CFM)
- Max. pressure: 10 bar (150 psi)
- Noise level: 60 dB(A)
- Weight: 50 Kg (110 lbs)
- Dimensions: 619x209x509 mm (24x8.23x20 in)

Recommended for IBIX® Nano or IBIX® 9 for working pressure lower than 3.5 bar (50 psi) with 3 mm (0.12 in) standard cylindrical nozzle

IB 2 TROLLEY Screw Type Electro-compressor

TECHNICAL FEATURES

- Air compressor with screw - type compression unit - wheeled for maximum versatility and compactness
- Electric motor: 2.2 kW / 230 V
- Air flow rate: 300 l / min (10.59 CFM)
- Max. pressure: 10 bar (150 psi)
- Noise level: 69 dB(A)
- Weight: 55 Kg (121 lb)
- Dimensions: 700x650x700 mm (27x25x27 in)

Recommended for IBIX® Nano or IBIX® 9 for working pressure lower than 3.5 bar (50 psi) with 3 mm (0.12 in) standard cylindrical nozzle



IB 2 TROLLEY PETROL Screw Type Motor-driven compressor

TECHNICAL FEATURES

- Air compressor with screw - type compression unit - wheeled for maximum versatility and compactness
- Engine: Honda GX 200 - 4.8 Hp
- Air flow rate: 400 l / min (14.12 CFM)
- Max. pressure: 10 bar (150 psi)
- Noise level: 75 dB(A)
- Weight: 65 Kg (143 lb)
- Dimensions: 700x650x700 mm (27x25x27 in)

Recommended for IBIX® Nano or IBIX® 9 for working pressure lower than 3.5 bar (50 psi) with 3 mm (0.12 in) standard cylindrical nozzle



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: 670 l/min (23.7 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



E 90 (Electro-compressor)

TECHNICAL FEATURES

- Wheeled electrical air compressor
- Power supply: 400 V/50 Hz
- Air flow rate: 830 l/min (29.3 CFM)
- Max. pressure: 10 bar (145 psi)
- Noise level: 77 dB(A)
- Weight: 135 Kg (297 lb)
- Dimensions: 750x585x790 mm (29.6x23x31 in)

The E90 Motor-driven compressor is equipped with connections suitable to match with the IBIX® 9 System concerning dimensions and airflow.



IB 2000 (Motor-driven compressor)

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 airflow.



IB 2000 (Electro-compressor)

TECHNICAL FEATURES

- Air compressor with screw - type compression unit - wheeled
- Power supply: 400 V/50 Hz
- Air flow rate: 2090 l/min (73.81 CFM)
- Max. pressure: 8 bar (116 psi)
- Noise level: 68 dB(A)
- Weight: 347 Kg (765 lb)
- Dimensions: 1900x690x1610 mm (74x27x63 in)



Other electro-compressors and motor-driven compressors from 550 l/min to 2.000 l/min (4-15 kW if electric) are available upon Customer request

IBS IBIX® BLASTING CABINETS

New EU directives and international standards that were introduced not only in Europe but worldwide strongly restricted the use of unhealthy and dangerous chemicals that are normally used for paint stripping, surface preparation, cleaning and decontaminating prior to painting or in the industrial maintenance field.

The **IBIX®** media cleaning and abrasive blasting methods are the most effective, cheap, user-friendly, green and healthy systems available on the market for surface preparation and cleaning.

For indoor applications **IBIX®** offers a wide range of standard and customized pressure blasting cabinets that can be manually-operated or fully automatic PLC-controlled.

They can be used with any kind of media including soft media like baking soda, calcium carbonate or vegetal media in addition to the conventional media that are used in conventional blasting cabinets.

The **IBIX®** Blasting Cabinets were chosen by leading industries in Europe in the car industry, railways, energy, food and printing industries.



ONE MACHINE, TWO WORKING TOOLS

IBS is the innovative pressure blasting cabinet combined with an **IBIX**[®] portable blaster. The cabinet will be used to perform blasting and cleaning jobs indoors, the **IBIX**[®] blaster can be easily disconnected and used separately on large installed items that cannot be moved or removed.

VERSATILE

It can be used inside workshops or for blasting outdoors when it is necessary to treat work pieces larger than the cabinet working area or at a client's premises with work pieces that cannot be removed or are hard to handle.

ENVIRONMENTALLY FRIENDLY

100% sealed enclosures do not create pollution or health hazards.

POWERFUL AND EFFICIENT

The **IBIX**[®] pressure cabinets are recommended where high performance and productivity are required.

EASE OF OPERATION – TOTAL VISIBILITY

Dust and waste resulting from cleaning are sucked by a high power 4kW or 5.5 kW vacuum pump which guarantees ease of operation and total visibility.

LOW OPERATING COSTS

The selective recovery of blasting media markedly cuts down costs and material consumption.

RECOMMENDED BLASTING MATERIALS

Use blasting materials recommended by **IBIX**[®] only and follow the guidelines on material re-use to ensure proper functioning of IBS equipment.

Media re-use depends on media grain size, hardness and media contamination after blasting.

TOP QUALITY HIGHLY PROFESSIONAL ELECTRIC CABINET WITH CONTROL PANEL

In conformity with the strictest applicable EU Directives.

The electric cabinet incorporates a user-friendly control panel that is used to control all cabinet main functions.

The electric cabinet includes a special timer that sets the cleaning time and intervals of the automatic filter cleaning systems that are fitted in the dust filtering cabinet according to the type of blasting media used and the type of job.

SPECIAL IBIX® CYCLONE SYSTEM

This cyclone system enables to reclaim the media and refill the **IBIX®** unit when the **IBIX®** media tank is empty. The cyclone up/down movements and the refill system are totally pneumatically operated and remote controlled by the operator.

A sieve-type filtering device retains large residues and prevent them from falling into the **IBIX®** tank.

The **IBIX®** unit is placed inside a special metal supporting platform where the machine perfectly fits to ensure perfect alignment with the **IBIX®** refill system.



POWERFUL DUST EXTRACTION SYSTEM

Very powerful 4 kW or 5.5 kW vacuum pump ensures extremely high dust extraction capacity mainly when fine media such as fine or ultra fine garnet material, calcium carbonate or baking soda are used.



ANTISTATIC SUCTION HOSES

Special antistatic suction hoses are supplied to ensure protection against magnetic fields that are generated when aluminium oxide is used as blasting media.



EXTRA LARGE DUST FILTERING CABINET

The IBS Cabinets are fitted with an extra large dust filtering cabinet with two wide filtering surface area polyester filters with two remote-controlled timed automatic filter cleaning systems. Filter cleaning time and intervals can be set by the operator according to the blasting media grain size, hardness and type of contamination.

ROTATING WORKTABLE AND CARRIAGE

A special rotating worktable with high quality dustproof bearings and a sturdy carriage can be supplied as optional equipment. This kit makes loading operations very easy and safe, it is recommended when heavy and bulky objects are to be handled and loaded into the cabinet.



Blasting material	Applications
IBIX® Art	Foundry applications, extrusion, moulding and forging of metal, plastic, glass, precision matrix dies and other dies. Pickling, engraving, trimming, removal of oxidised spots or creation of surface roughness, glass etching, paint removal. Do not use this material on precision mechanical parts (dimensions might be altered).
Glass beads	Metal cleaning, regeneration, satin finishing. Shot-peening or finishing of welds (on stainless steel, aluminium etc.).
Vegetal media	Ecological cleaning and pickling without altering the part to treat, delicate part treatment.
Sodium bicarbonate	Precision cleaning and decontamination.

Technical characteristics	Model	
	IBS 100-350	IBS 150-350
Load capacity	350 kg	350 kg
Working dimensions (LxDxH)	900x800x700 mm	1400x800x700 mm
Suction pump m ³ /H	310 m ³ /H	550 m ³ /H
Pump power	4 kW	5,5 kW
Operating pressure (bar)	0.5 – 7.5 bar	0.5 – 7.5 bar
Overall Dimensions of the Cabin with IBIX® System installed LxDxH	2100x2000x1700 mm	2600x2000x1700 mm
Empty weight	350 kg	400 kg

GREEN BLASTING AND CLEANING MEDIA

IBIX® Green Cleaning Technology



The **IBIX®** business philosophy is dedicated to promoting respect for the environment and the conservation of our historical, cultural and architectural heritage.

The **IBIX®** System is a totally sustainable technology designed to have extremely low environmental impact that minimizes waste production and uses only non-toxic, neutral media that can be reclaimed and re-used.

The **IBIX®** Units allow for wide variety of choices and can use media of different chemical composition and hardness (**IBIX®** Art Garnet, Carbon® Art Calcium Carbonate, Vegetal granules such as walnut shells, Bicarbonate of Soda, Glass Beads ...), different grain size (from 38 µm to 1800 µm).

Choosing the right Media allows the Operator to make the correct choice for any surface preparation applications

IBIX® Art Garnet Natural Abrasive Material

IBIX® Art Garnet consists of almandine garnet grains, one of the hardest, most durable natural minerals known to man. Eco-friendly, thanks to its non-toxicity, **IBIX®** Art Garnet is **compliant with environmental protection standards**. It makes working environments **safer, healthier, cleaner and reduces noise levels** because of the lower pressure.

IBIX® Art Garnet is Safe and Chemically Inert

It does not contain ferrite and therefore does not oxidize which means it can be used to blast Stainless Steel, Antimagnetic Steel, Aluminium, etc. It does not break on impact and contains no free silica therefore it is safe for operators.

Garnet cuts disposal costs, thanks to low consumption and reusable media.

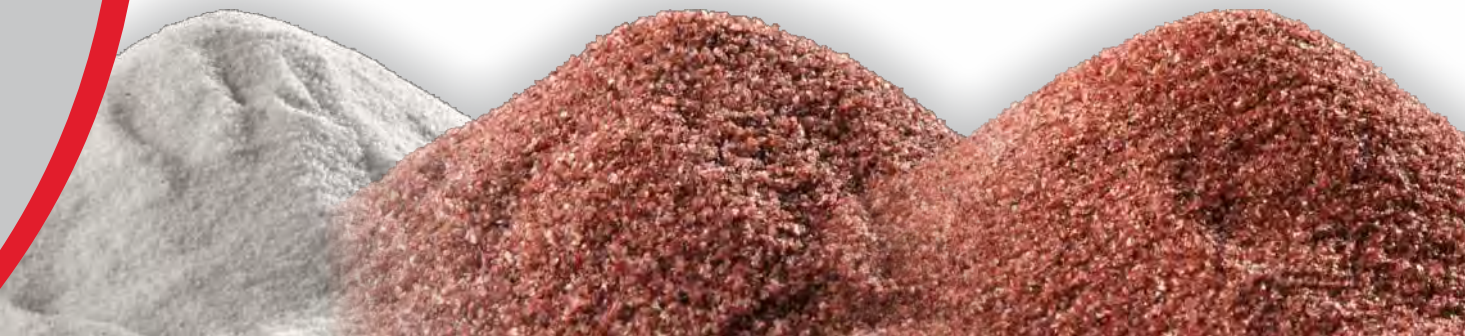
Properties

Low consumption: thanks to the high stripping speed of this abrasive (high number of grains per unit of volume), its blasting speed in sq.m/h (ft./h) is higher. Our **IBIX®** units can strip up to 150 - 350 ft./h.

Low Friability: re-utilized 3 to 5 times (according to application types) without losing any of its outstanding stripping power.

CarbonArt® is Special formulated Calcium Carbonate that the **IBIX®** technical team selected in collaboration with experts in monument restoration. After laboratory and worksite testing it proved to be one of the most effective and less invasive materials for cleaning stone, brick and marble.

CarbonArt® contains calcium carbonate in two grain sizes that **IBIX®** selected specifically for cleaning works of art. Very fine, homogeneous grain size and rounded morphology, as well as the purity of the extremely white material are features certified by analyzing every production batch.



Available Grain Sizes

Z5 White Carrara Marble Calcium Carbonate - grain size 200 - 300 µm

Z6 White Carrara Marble Calcium Carbonate - grain size 100 - 200 µm

These features, plus Mohs hardness lower than 3, make **CarbonArt®** an excellent product for cleaning stone elements and especially delicate old brick on monumental works defaced by soot, black crusts, carbonizations in general, air-borne particles and saline efflorescence.

Sodium Bicarbonate

Totally water soluble, baking soda is used to clean substrate made of composites, scratch-prone materials, glass, polished, marbles and granites, ceramics, stainless steel, aluminium with no risk of abrasion.

It is very effective, ecological and leaves the surface, even polished surfaces, unaltered.

It does not leave dirt or any particles on the surface. After cleaning, what is left does not require special treatment.

New non-siliceous inert materials

including:

- Aluminum oxide
- Coal flakes
- Steel balls



IBIX® MAKES SODA BLASTING EASIER AND CHEAPER

The **IBIX®** portable blasting system becomes a very special, easy-to-use sodablaster. It offers major advantages over conventional sodablasters that are normally bulky, hard-to-transport, and require very large air volumes. These make the **IBIX®** unit very Unique.

Our **IBIX®** units enhance the properties of fine and super fine media and abrasives such as fine garnet, calcium carbonate, soda, walnuts etc. for any delicate surface preparation applications such as:

- Fine abrasive blast cleaning: graffiti removal, removal of chewing-gums, stone, brick, wood conservative cleaning and restoration
- Marine, Aerospace and Automobile maintenance: restoration and new fabrication
- Blast etching: glass and metal frosting, sanding, galvanized coatings, stainless steel, aluminum, alloys, fiberglass, composites
- Delicate blast cleaning: turbines, castings, plastics, boat restoration, lapidary
- Degreasing and decontamination



IBIX[®] SODA BLASTING INDUSTRIAL APPLICATIONS

CLEANING, DEGREASING AND DECONTAMINATING WITHOUT CHEMICALS IS NOW POSSIBLE

Make Soda-blasting Easier and Cheaper with **IBIX[®]** System, the best Eco-Friendly and Easy-to-Use Cleaning and Maintenance Tool for the Food Industry.

The Soda Blasting process with the **IBIX[®]** System offers the best solution for cleaning and decontamination and does not involve any downtime or interruption of production. The baking soda is completely water-soluble, therefore the process of Soda Blasting **IBIX[®]** leaves no residue.

The **IBIX[®]** portable cleaning system, with sodium bicarbonate, is easy to use, lightweight and requires small volumes of compressed air.

Advantages of IBIX[®] & Sodium Bicarbonate in industrial applications:

- 100% environmentally friendly cleaning
- Safe Technology
- No danger to the operator
- Water-soluble
- Very low water consumption
- Large and small areas in a very short time
- It leaves no residue on the surface, after cleaning the remains does not require special disposal
- Absence of toxic substances
- Makes it possible to degrease, clean and decontaminate avoiding the use of detergents or other harmful chemicals
- Does not alter the treated surface (the **IBIX[®]** sandblasting method with sodium bicarbonate can be used safely and effectively on glass, ceramic, stainless steel, aluminum, chrome surfaces, composite materials and other scratchable materials)
- The precise adjustment of the working pressure of the **IBIX[®]** Soda Blaster allows full control of the cleaning process
- The Micro-aero-abrasive devices **IBIX[®]** Soda Blasters are lightweight and easy to carry

- The **IBIX®** Soda Blaster requires low air volumes
- The **IBIX®** Soda Blaster strongly reduces the sodium bicarbonate consumption thanks to the micrometric metering valve
- Easy to use - does not require specific training
- The use of the Soda Blasting technique (cleaning with sodium bicarbonate) is possible and economical, even for small spot interventions

IBIX® SODA BLASTER INDUSTRY APPLICATIONS

- Removal of food biofilm in food processing plants
- Removal of carbonaceous residues from equipment and installations exposed to high temperature
- Removal of grease, oil and residues of food preparation
- It can be used where NO RESIDUES are allowed after cleaning
- Cleaning of ceramic tiles and stainless steel structures
- Scale removal
- Eliminates the residues of caustic soda used for food plants cleaning
- Removal of cooked sugar residues
- Removal of stains and unwanted deposits from winemaking and brewing plants
- Cleaning of stainless steel structures and plants



SODA BLASTING

- TREATMENT WITH MICRONIZED WATER AND PROJECTION OF SODIUM BICARBONATE, EXECUTABLE WITH: H_2O IBIX[®] NOZZLE
- MINIMUM WATER CONSUMPTION: 50 LITERS PER HOUR
- EXCELLENT PERFORMANCE: FROM 50 TO 150 M² IN A WORKING DAY
- LOW SODA CONSUMPTION
- SUITABLE FOR THE INDUSTRY COMPRESSED AIR PIPE LINES

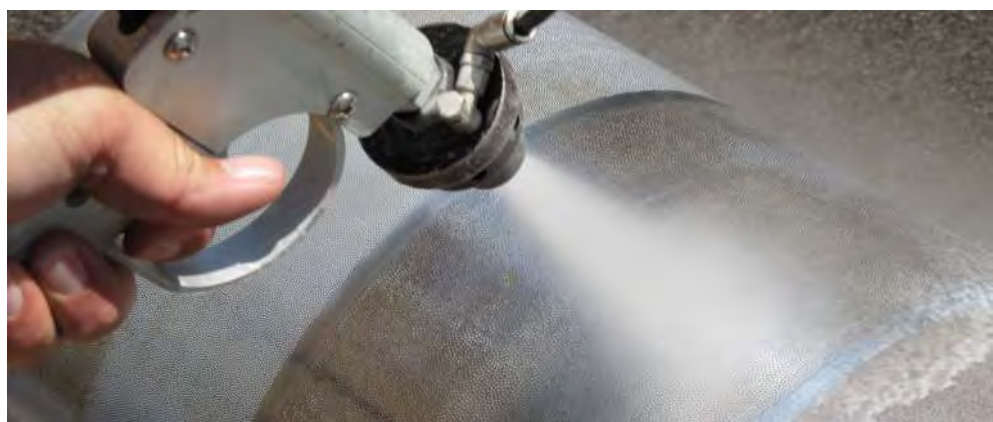


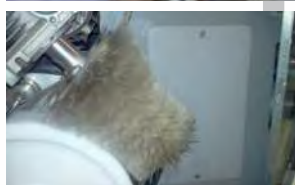
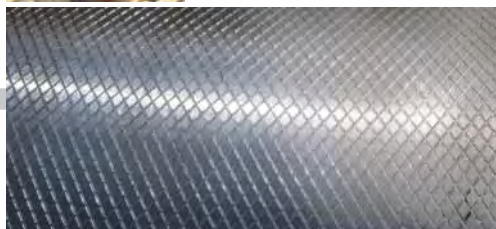
Baking Soda

Baking Soda is a natural inorganic water soluble, non-aggressive compound.

Specific for aeromechanics cleaning, decontamination and sanitation of glossy and scratchable surfaces

or when a process that leaves no residues in the environment is prescribed.





List of companies that use the IBIX® Soda blasting System

Bonduelle - France

Jagermeister - Germany

Kelloggs' - UK

Nonno Nanni - Italian Cheese Producer

Italian Pasta Producer of Coop Supply Chain

Technicentre SNCF

(French Railway Company) - France

Trenitalia (Italian Railway Company)

CEA (Commissariat à l'énergie atomique et aux énergies alternatives) - France

AREVA (Nuclear Power Industry) - France

BKW - Dallas Airport maintenance - USA

Volkswagen Polska - Poland

ExxonMobil - Oil Company - USA

Monti Antonio Spa - Fabric Bonding - Italy

Valoriza, Clece - Servicios Medioambientales

Metro Madrid - Spain

Deutsche Bahn - Germany

Trenord - Italy

and many more!





IBIX®
SPECIAL CLEANING

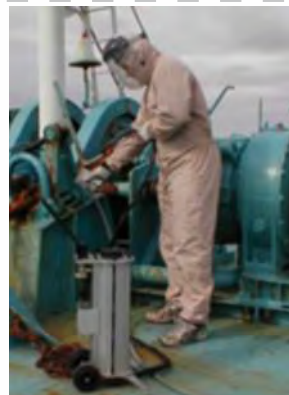
IBIX®

the Best Multi Use Media Cleaning System,
a comprehensive green solution for surface preparation,
decontamination and industrial maintenance

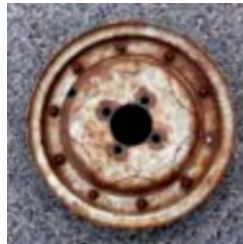
Mining



Shipping



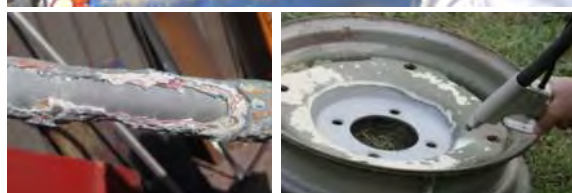




Oil & Gas industry



Automotive & Transport Industry Energy Industry



IBIX
SPECIAL CLEANING

GLADIATOR & SPARTACUS FLAME SPRAY COATING SYSTEMS

IBIX® with its **TECNO SUPPLY** Division has been in flame spraying since 1996 and offers the most state-of-the art Flame Spray Technology available on the market today.

The Flame Spray technology is the only system which can apply powders on site and with no need for a coating line (oven, spray booth or fluidised bed equipment).

Our **Gladiator & Spartacus** Flame Spray Coating Systems are the most efficient technology to prevent surface corrosion by applying eco-friendly thermoplastic coating systems.

Gladiator & Spartacus are portable flame spray systems, compact and versatile, for factory-applied coatings of metal surfaces and anticorrosion treatment.



Small



Medium



Large

Their use requires one operator only. They are equipped with different application gun sizes, all ergonomic, suitable to perform different coating

operations (Large Gun, Medium Gun and Small Gun for touch ups and repairs).

The **Gladiator & Spartacus** flame spraying systems apply several kinds of thermoplastic powders, including PolyHotCote® range of powders. PolyHotCote® anticorrosive coatings are long lasting, highly resistant to sun, sand, salt deposits, water, and air and chemical pollutants in general.

PolyHotCote® powders do not require any primer and they can be used for functional anti-osmotic, anti-acid, anti-abrasion coatings; also available in non-slip and photo-luminescent versions.

They offer :

- **AN ANTI-OSMOTIC BARRIER**
- **CONTINUOUS DIELECTRIC INSULATION**
- **ABRASION RESISTANCE**
- **CHEMICAL RESISTANCE**

The **Gladiator & Spartacus** coaters stand out thanks to their many significant application advantages and to improved performance and quality:

In-factory or on-site applications on installed items that cannot be removed

Pipes, tanks, metal structures in general, installations, etc.

Repair and restoration works on items coated with thermoplastic material

using traditional methods (Electrostatic, fluidised bed or extrusion).

Flexibility and versatility of use

Access to hard-to-reach areas and very small spaces.

They can be used on various kinds of substrates

Metals, concrete, fibreglass, plastic, wood, cardboard, non-slip applications.

They can be used with several kinds of thermoplastic materials

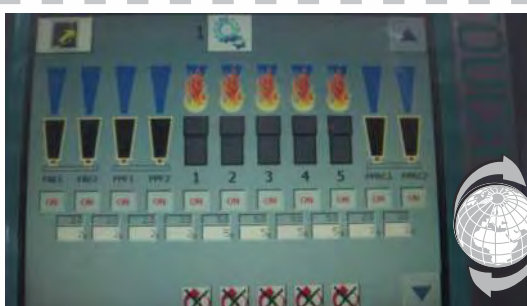
Polypropylene, polyethylene, PolyHotCote® thermoplastic powders, copolymer alloys in general.

One-step application cycle

The thermoplastic powder is applied in just one step, directly on the pre-treated (abrasive blasted) surface of the substrate, and pre-heated with the Gladiator or Spartacus gun and/or additional torch,

Coatings can be fully repaired or touched up immediately

Coatings can be repaired by simply re-melting the powder on the surface to be repaired and/or the coating thickness can be easily increased.

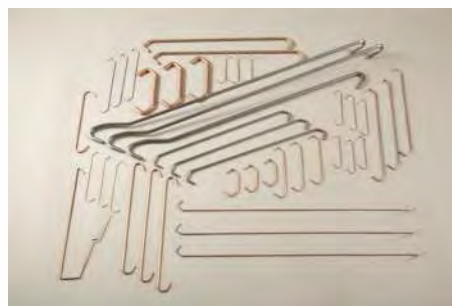
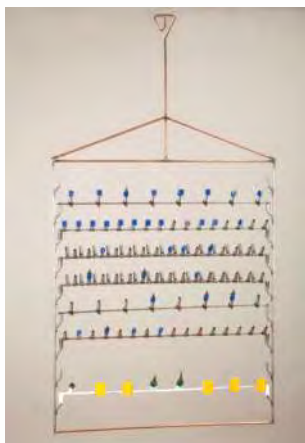


IBIX
SPECIAL CLEANING

PRODUCTS FOR THE COATING INDUSTRY

Tecno Supply, a division of **IBIX® srl**, can supply innovative products for the coating industry.

Special Hanging Systems & Hooks



Silicon rubber caps and plugs



Masking for plane surfaces (rubber, discs and die cuts)



Special masking products



**SPEEDY
CLEANER**

Chain cleaner



Gauges to measure
the coating thickness

Plascoat Thermoplastic Powders



Metal work

Off-shore Platforms maintenance

Shipping

NTD Non-Destructive Testing

Inspecting

Spot Blasting

Oil & Gas Industry

Reconditioning off-shore Platforms

Corrosion protection

Automotive Industry

Paint & Coating Industry

Plastic Industry

Press Industry

Energy and Transport industry

Food Industry

Petfood...



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