IBIX® INDUSTRIAL

FLAME SPRAY

INDUSTRY 4.0

Technical Solutions for High Performance Surface Coatings

Portable Flame Spray Coating Equipment 4.0

WHAT DOES INDUSTRY 4.0 MEAN?

Industry 4.0 is the process that defines the **fourth industrial revolution,** which is leading to the automation of processes and production through **web and virtual interconnection systems.** This development concerns four fundamental components: data usage, increasing computing power of the machines and their connectivity for a better storage and transmission of the information. Analysis of the collected data. Interaction between man and machine and improvement of the transition from digital data to real operation, which is the major field of robotics.

INDUSTRY 4.0 SUPPLY

Industry 4.0 is not just about digital equipment. In addition to the **IBIX** systems integrating Hardware **4.0** (electrical panel with electronic card, modem, IBIX upgrade with the addition of digital valves), the **4.0** project involves the upstream implementation of the **Digital Infrastructure**.

WHAT ARE THE REQUIREMENTS OF A 4.0 SYSTEM?

• Transmission and management of **IN & OUT DATA**
• Digital infrastructure: third level domain (**ibixconnect.ibix.it**). database and web pages customization.
• Installation on **CLOUD**.
• **IoT service** (Internet of Things).
• **Software** and **designated App** with remote controlled automatic update function of the software and / or of the parameters.

IBIX FLAME SPRAY 4.0
ATLANTIS SEMI–AUTO 4.0

ATLANTIS SEMI-AUTO 4.0 is the portable system for spraying thermoplastic powders with **dual mode of use flame spray and flock spray**, in the **semi-automatic version**, which includes:

FLOCK-SPRAY EQUIPMENT: for electrostatic spraying in the manual mode, fitted with fluidized bed tank and electrostatic gun.
Power supply 220 V Frequency: 50 Hz

FLAME SPRAY SYSTEM, SEMI-AUTOMATIC: equipped with mobile trolley with large pneumatic wheels; quick connect system; 9 m hoses + 6 m extension hoses; fixed controls on the machine frame and electrical cabinet; stainless steel tank. **FLAME SPRAY APPLICATION GUN** with **automatic flame ignition device**, available in several versions according to the coating purpose (metal, concrete and other porous substrates) and in various sizes/types.

4.0 EQUIPMENT: electrical panel with interconnection electronic card and modem, temperature-measuring pyrometer with 9 m connection cable.

The IBIX FLAME SPRAY 4.0 equipment is also available for the SPARTACUS and HERCULES SEMI-AUTOMATIC models

GUNS

All **IBIX FS 4.0** models are equipped with one or more of the following **APPLICATION GUNS**:

CENTURION GUNS

Models available:
- With handle and trigger for coating of metals;
- Straight handle and heat exchanger for concrete.
Size options: Medium or Large.
Spray pattern: 14 cm (with LARGE guns).
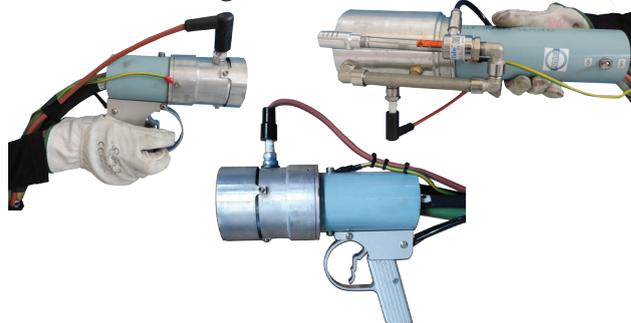**Flame ignition system:** AUTOMATIC.

MAXI-HI TECH GUNS

Models available:
- With handle and trigger for coating of metals;
- Straight handle and heat exchanger for concrete.
Size options: Large.
Spray pattern: 30 cm
Flame ignition system: AUTOMATIC.

MAXI HI-TECH GUN

ibixconnect.ibix.it

ibixconnect.ibix.it stands for the **IBIX Cloud IOT** (Internet of Things) service and provides for the Internet connection of various technologies. These products are intelligent and able to exchange data over wireless networks in an automatic and transparent way for the user. **IBIX FS 4.0** system belongs to the **IBIX IOT** product category and exchanges order data with the **ibixconnect.ibix.it** Cloud service.

Every owner of an **IBIX FS 4.0** system can register for the **IBIX Cloud IOT service**.

IBIX INDUSTRIAL

Nome utente o indirizzo email

Nome utente *

Password

Password *

☐ Ricordami

LOGIN

Registrati Password dimenticata?

Smart control, from tablet or smartphone

Specific features of the several units
IBIX FLAME SPRAY INDUSTRY VERSION 4.0

Spartacus / Hercules / Atlantis semi-automatic 4.0:

Requirements: pneumatic supply + single phase power supply. **Connectivity:** modem + SIM Data for working on-site (no LAN line). **IBIX FLAME SPRAY** system fitted with electrical panel with electronic card and modem for interconnection. The **IBIX FS 4.0** equipment will receive the recipe / order data from the company computer or tablet *.
Note: if a data is not entered, the system will NOT get stuck.

All **IBIX FS 4.0** models come supplied with the following:

A **contact probe** for detecting the pre-heating T ° of the substrate to be coated, with storage of the last measured value.

In addition, the machine includes an **infrared thermometer** to be used during the flame spray application of thermoplastic powders.

REMOTE CONTROL

IBIX FS 4.0 is fitted with a WiFi Access Point. Each **IBIX FS 4.0** machine can be managed using a web interface accessible from devices with WiFi connection: **smartphone, tablet, PC**.

Once connected, you can access the control interface through the web.

Controls and transmissible Data

Remote controlled on / off
Sending of "recipe - work order" with some project data, such as:
- Date
- Name / definition of the project
- Name of the client
- Surface type: metal or non-metal
  (concrete, ceramic, fiberglass, other)
- Type of powder to use
- Use of primer? YES - NO
- Thickness of the coating according to
  specifications
- Sq meters to be covered
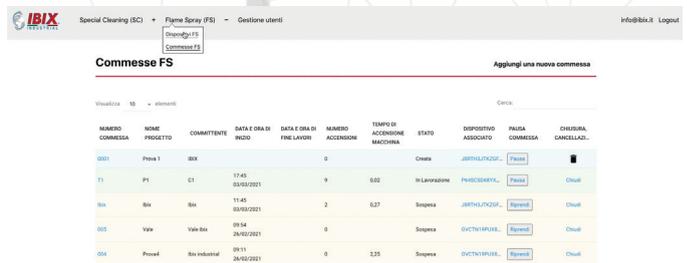
Data forwarded from the machine to the CLOUD

- Work start time
- Work end time
- Processing time
- Number of stops
- Substrate temperature prior to the coating cycle
- Pre-heating temperature / s detected
- Last pre-heating temperature detected

Data previously entered manually by the operator:

- Thickness of the coating performed
- Kg of primer used
- Kg of powder used
- Kg of gas used

Further data transmitted from the device to the Cloud and downloadable from the company computer

- Gas flow adjustment / setting from smartphone
- Adjustment / setting of operating air pressure
- Gas flow value during processing
- Air pressure value during processing
- Geo-location of the machine
- Notes (short text of 120 characters)

By consulting the database, you will also see the following values:

- Total number of starts / stops
- Total working time of the machine

The best Technology serving the Anticorrosive Coatings Industry

Coating of Metals

Oil & Gas

Concrete and Porous Surfaces

...and much more

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