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## NANOBELL 2

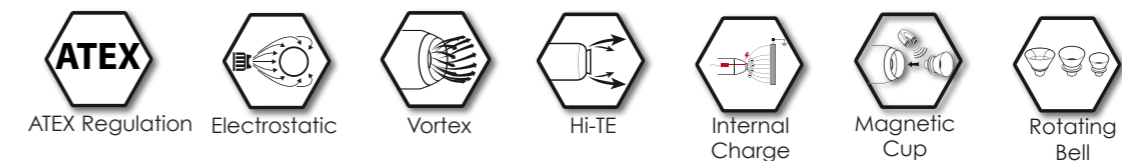


Easy integration and maintenance

High transfer efficiency

High finishing quality

Related Technologies



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# ROTARY BELL ATOMIZER FOR ROBOTIC APPLICATION NANOBELL 2

## SEVERAL VERSIONS DEPENDING ON YOUR NEEDS:



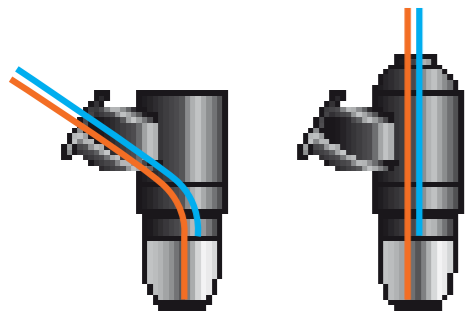
VERSION	Compatible with	Product Resistivity
<b>NANOBELL 2 SB</b> High voltage unit (UHT 158 EEx e) integrated into the atomizer	solvent based product	$\geq 6 \text{ M}\Omega\cdot\text{cm}$ $< 6 \text{ M}\Omega\cdot\text{cm}$ contact SAMES
<b>NANOBELL 2 WB</b> Remote high voltage unit (UHT 287 EEx e) from atomizer	water-based paint *nonflammable or hardly flammable	$\approx 0 \text{ M}\Omega\cdot\text{cm}$

\* the product distribution system must be isolated from the ground potential.

### BOTH VERSIONS AVAILABLE FOR

**hollow wrist robot :**

**non-hollow wrist robot :**



### Hi-TE TECHNOLOGY:

**PATENTED**

The external shroud is composed of couples of combined air holes. This external shroud allows several aimed applications; the pattern can fastly vary from a narrow and penetrating spray to a wide and wrapping spray for an optimal transfer efficiency.

#### Main benefits :

- More paint savings
- Better finishing quality and color match
- Easy operation thanks to single air adjustment



### TECHNICAL DATA

#### Weight

All versions NANOBELL 2, without hoses (kg)	5
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#### Fluid supply

Fluid pressure maxi. (bar)	10 (150 psi)
Paint flow (cc/min) according type of paint	30 to 750
Viscosity range - FORD n°4 (seconds)	20 to 50

#### ATEX marking:

<b>NANOBELL 2</b> solvent-based product with $R > 6 \text{ M}\Omega\cdot\text{cm}$ CE 0080 II 2 G EEx > 350mJ IISseP05ATEX032X	<b>UHT 158 EEx e:</b> 70kV/100µA II 2 G EEx e II IISseP01ATEX002U	<b>NANOBELL 2</b> water-based paint with $> 0 \text{ M}\Omega\cdot\text{cm}$ Homologation in progress	<b>UHT 287 EEx e:</b> 70kV/500µA II 2 GD EEx e II IISseP01ATEX002U	<b>GNM200<sup>®</sup>:</b> CE II (2) G (EEx > 350 mJ) IISseP05ATEX032X IISseP06ATEX032X IISseP07ATEX001X
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(1): This control module allows piloting the UHT. It is a combined material that is part of the configuration of the certified equipment and that contributes to its good working. It has to be installed into a non explosive area.

#### Pneumatic supply

Microvalve pilot (bar)	6 (90 psi) to 10 (150 psi)
Magnetic bearing air pressure (bar)	6 (90 psi) to 10 (150 psi) 85 NI/min.
Air shroud pressure (bar)	6 (90 psi) constant
Micro air pressure (bar)	1.9 to 3 bar constant
Pilot consumption (NI/min.)	10
Bearing air consumption (NI/min.)	125
Air shroud consumption (NI/min.)	0 to 600 (depending on shroud)
Turbine air consumption (NI/min.)	190 to 700
Rotation speed (rpm - loaded)	15 000 to 45 000 (during application)

### MATERIAL HANDLED

Stains, varnishes and lacquers, polyurethane and epoxy materials, 2K materials, U.V. paints, solvent based and waterborne materials.

### RECOMMENDED MARKETS

AEROSPACE

METALLIC FURNITURE

CYCLES & MOTORCYCLES

DRUMS & GAS CONTAINERS

WOOD INDUSTRY

ALUMINIUM PROFILES

AGRICULTURAL & CONSTRUCTION EQUIPMENT

### CUSTOMER BENEFITS

#### EASY INTEGRATION & MAINTENANCE

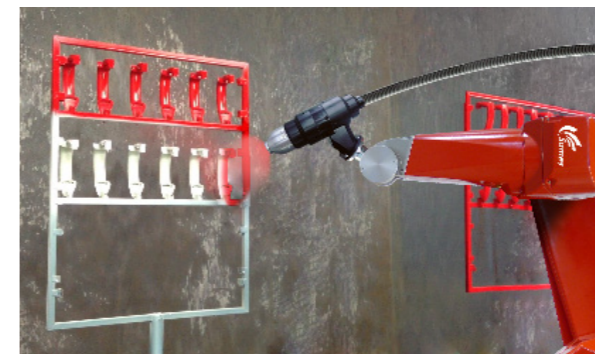
- Light weight sprayer for small size robots
- Allows mounting on both hollow and non-hollow wrist
- Easy to dismantle
- Easy access to valve, fittings
- Long life magnetic turbine



→ Magnetic bellcup fastening system

#### HIGH FINISHING QUALITY

- Fine atomization of paint droplets
- Sharp control of applied thickness



Application with no-hollow wrist robot

#### HIGH TRANSFER EFFICIENCY

- Significant paint savings (from 20 to 50% more savings than conventional gun)
- Variation of pattern thanks to Hi-TE Technology for more spray control



- (1) Microvalve
- (2) Magnetic turbine
- (3) Bell cup EC50 Hi-TE
- (4) Internal shaping air shroud
- (5) External shaping air shroud

- (6) High Voltage Unit (UHT 158 EEx e)
- (7) Arm support with output of hoses and cable in hollow wrist robot version
- (8) Output of hoses and cable in non-hollow wrist robot version