ELECTROSTATIC

EXPERTS IN FINISHING SOLUTIONSFOR ALL MARKETS WORLDWIDE

NANOBELL2





ROTARY ATOMIZER BELL FOR ROBOTIC APPLICATION

Thanks to our 65 years of knowledge, our customers deliver the best finishing quality in industry while saving material, increasing their productivity and protecting the environment.

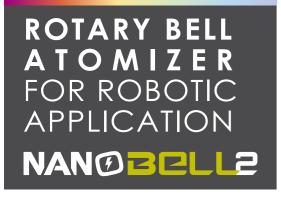
Product performance, reliability and ergonomics are constantly being improved in the spirit of innovation which has made the name of SAMES famous.



13 chemin de Malacher - CS 70086 - 38343 MEYLAN Cedex FRANCE Phone: +33 (0)4 76 41 60 60 - Fax: +33 (0)4 76 41 60 90

- Easy integration and maintenance
- High transfer efficiency
- High finishing quality





SEVERAL VERSIONS **DEPENDING ON YOUR NEEDS:**



solvent based

product



		Produc
VERSION	Compatible with	Resistivit

NANOBELL 2 SB High voltage unit (UHT 158 EEx e) integrated into the atomizer

≥6 MΩ.cm

 $< 6 M\Omega.cm$ contact SAMES

BOTH VERSIONS AVAILABLE FOR

hollow wrist robot: non-hollow wrist robot:





NANOBELL 2 WB water-based paint Remote high voltage unit *nonflammable or ≈ 0 MΩ.cm (UHT 287 EEx e) from atomizer hardly flammable

Hi-TE TECHNOLOGY:

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.



- 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
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

UHT 158 EEx 70kV/100μA
EEx e II ISSeP01ATEX002U



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

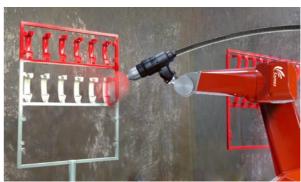
CUSTOMER BENEFITS

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

HIGH FINISHING QUALITY

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



fastening system HIGH TRANSFER EFFICIENCY

Magnetic bellcup

- 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



^{*} the product distribution system must be isolated from the ground potential.