

SPARTACUS OIL&GAS

**THE PERFECT FLAME SPRAY COATING SYSTEM
FOR PIPE CONTRACTORS
HIGH PERFORMANCE AND VERSATILITY
IN A COMPACT SYSTEM**



IBIX
INDUSTRIAL

More and more committed to the Oil&Gas Industry

The first technological advance in the pipe joint PP & PE coating industry in years

Field-applied Flame Sprayed PP & PE coatings using selected powder grades (e.g. IBIX Polypropylene PP10) are virtually the same as the factory-applied protective layers on the pipe.

This ensures that when these coatings are applied they will form a perfect homogenous bond with the parent coatings, i.e. the factory-applied PP layers.

The result is a fully melted coating fused with the existing polyolefin on the pipe body forming a homogeneous coating that will provide unsurpassed, cost-effective protection of your field joints. In addition, factory applied Spartacus flame sprayed coatings lead to a faster process and the system is also ideal for 3LPP (3 Layer Polypropylene), 3LPE (3 Layer Polyethylene), coating of bends, buckle arrestors and custom fittings.



PATENTED

NEW "CENTURION" GUN

THE MOST POWERFUL GUN OF ITS TIME POWERED BY IBIX® SRL

EXCEPTIONALLY WIDE SPRAY PATTERN

AVAILABLE ON THE LARGE SPARTACUS GUNS AND MEDIUM GUNS

WIDER SPRAY PATTERN (over 10 cm. with the Large CENTURION gun) offering:

- Faster spraying and more uniform layers (bigger powder flow spread over a much larger area);
- Easier overlapping of passes and better powder flowing out;
- No powder "lines" or "stripes";
- Minimizes the risk of un-molten powder with air trapped in the coating.



Spartacus for 3LPP and 3LPE flame spraying of field joints

Wide Spray Pattern
by Centurion Guns



High volume in elliptical pattern



AUTOMATION

The Flame Spray Coating Process can be automated for example for buckle arrestors, pipe sections, bends



Automatic Field Joint Coating Flame Spray Equipment

BENEFITS OFFERED BY OUR SPARTACUS SPECIALLY DESIGNED GUNS:

- Short, strong flame, hence shorter time for the powder through the flame;
- Powder is propelled quickly through the flame;
- Powder carrier air flow protecting the powder from degradation which results into higher OIT (Oxidation Induction Time)*.

*OIT results depend on the powder grade used. IBIX Polypropylene PP10 with our Spartacus can offer >40 mins OIT

FACTORY APPLIED SPARTACUS FLAME SPRAYED COATINGS

- Faster;
- Ideal for 3LPP or 3LPE;
- Allows the coater to apply a 5 to 12* mm thick coating (or even thicker) in one coating operation;
- Quicker coating process than multiple electrostatic spray or sintering passes;
- Energy saving (no need for repeated heating in the oven).

* depending on the powder grade used (thickness to slump may vary)



Automation in Flame Spraying for the Oil&Gas Industry

- Eliminates the «human» factor
- Consistency and repeatability
- Safety
- Homogeneous coating
- Speed



Some of the functions allowed by our PLC and electric controls:

- Automatic Flame ON-OFF switching;
- Automatic Powder ON-OFF switching;
- Automatic flame setting to the operational mode;
- Flame Out safeties featuring flame present photocells;
- Low powder alarm system.

Automatically PP Flame Sprayed Buckle Arrestor



**Perfectly smooth even coverage on any size pipes and fittings
perfectly molten thick PP layer**





Small Gun Repairs and Touch-Ups

The Spartacus Small Gun is successfully used to do repairs of existing 3LPP / 3LPE coatings thanks to the controlled flame and accurate powder flow.



Large gun with handle

TECHNICAL DATA

Overall Dimensions:

WIDTH: 700 mm (27.56 inch.)
LENGTH: 650 mm (25.59 inch.)
HEIGHT: 1050 mm (41.34 inch.)
WEIGHT: 100 Kg (220 lb)

- Only requires Dry compressed air and LPG:
 - Minimum **AIR** requirement: 1100 l per minute (40 cfm); dried, cool air; 6 bar constant pressure;
 - **LPG** - minimum propane content: 50%-60%; minimum pressure: 3 bar constant;
- Portable and easy to use;
- Very high powder flow feeding system;
- Large wheels for easier transport on rough terrain;
- Quick connect, colour coded hoses to machine;
- Controls fixed on the machine casing;
- Suitable to apply a fully melted PP10 coating layer 5 to 12 mm and more in one operation.



Controls on the machine

VARIOUS GUN SIZES for all operations

- Large gun - suitable for larger diameter pipe joints, bends, buckle arrestors
- Medium gun - suitable for smaller diameter pipe joints
- Small gun - suitable for small diameter pipe joints and for repairs and touch ups
- 45° gun to coat difficult to reach areas

SPECIAL GUN VERSIONS

New Guns with "vents" on the gun tip optimizing air ventilation in the gun and keeping the gun cooler.

New centurion gun for wider spray pattern.
 NEW EXTRA-COOLING SYSTEM with heat exchanger for prolonged flame spraying specially useful in automatic coating equipment.



New Gun Cooling System



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