



# ARC SPRAYING WITH ARC145 SYSTEMS

Arc spray is a process that uses an electric arc to melt metallisation wires. The molten metal is then atomised with compressed air to create a spray stream that applies the coating onto the surface being sprayed. Anti-corrosion or engineering coatings can be applied by arc spray. Arc spray systems are easy to operate and to automate. Desire for continuous improvement, alongside customer feedback has led to the development of latest range of ARC145 systems.

## BENEFITS OF ARC145 SPRAYING GUN

The ARC145 gun utilises latest design of contact tips and air-concentrator. The head design improves cooling to the arc area resulting in longer contact tip life and more reliable operation when spraying for extended periods of time. The improved airflow and more efficient arc allow the system to produce a finer coating without compromising deposit efficiency. The new tips are long-lasting, quick and easy to change. The new tip material, along with improved cooling enhances tip life and reduces downtime and running costs. The ARC145 gun works with wires from 1.6mm to 2.5mm and offers measuring the spray voltage at the gun (assisting diagnostics and simplifying setup) and simpler, robust pushbuttons. A small amount of weight is taken out of the gun resulting in excellent manoeuvrability and a more robust control cable connection is introduced. Reversible V-rollers ensure the most reliable wire feed possible. A drive unit with a larger motor, inverter and independent tension drive unit gives the very best in reliable and repeatable wire feeding. Drive unit and gun are joined with patented *Synchrodrive* principle. The flexible drive cable in up to 20m lengths, combined with improved drive unit ensure the ultimate performance and reliability of wire feeding even with the most challenging, cored engineering wires.

## S245 AND S345 ENERGIZERS

The S245 (250A @100% duty cycle) and S345 (350A@100% duty cycle) systems have undergone a rigorous design, engineering and testing program to bring a high quality,



VORAX OFFER INDUSTRIAL EQUIPMENT FOR METAL SPRAYING ALONG WITH ENGINEERING WIRES

medium capacity flexible system that will aid you to maximise production, efficiency and productivity in thermal spray operations. The system is designed for demanding engineering and anti-corrosion applications. The latest version of PLC is fitted ensuring long future proofing and support. Digital gauges offering both scale and numeric display with wide viewing angle and Soft start system increases reliability and maintenance free operation. Advanced Data Kit option allows remote monitoring and logging of energiser data via a Siemens CPU.

## PERFORMANCE S245 vs. S345 [kg/h]

| Material            | Arc145 + S245 | Arc145 + S345 |
|---------------------|---------------|---------------|
| Zinc wires          | 22            | 36            |
| Zinc-aluminum wires | 22            | 31            |
| Copper wires        | 12,5          | 15            |
| Steel wires         | 11,3          | 14            |
| Cored wires         | 12            | 15            |

## WHY VORAX?

- ✓ Reliable industrial equipment for metallisation
- ✓ Years of experience in wear resistant technologies
- ✓ Full spectre of wires and powders for thermal spraying

For more on advanced materials and technologies contact

**VORAX**

experts in wear resistant technologies

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