Advanced Spray Gun Technology

After many years of progressive development this spray gun design has taken a quantum leap to match modern paint technology. The unique characteristic of the spray gun provides the ultimate control over atomising and fan pattern to increases the range of material applications from Nano Technology to High Solids. Marine coatings with a high quality of finish, micro meter film thickness control and with variable application rates.

The very high transfer efficiency provides solutions to many problems in the industry, meeting and bettering all environmental and health, safety and welfare global legislations.

Paint Industry Technology

Current spray gun technology has not changed in generations, whereas the leap in paint technology has now outpaced current spray gun technology. Currently a range of spray guns are required to meet this new paint technology, and require costly monthly spares to maintain peak performance.

The characteristics of the low energy spray gun meets paint technology needs and applies a wide range of paints that currently require a range of spray guns. One spray gun for almost all spraying applications

Current spraygun technology does not meet advanced paint technology

European legislation has changed, to incorporate “Best Available Technology” (BAT), as opposed to “Cost Effective Technology”. The reference legislation is IPPC 96/61/EC and EPA Act 1992 to 2007.

The Solution

The Low Energy Spray Gun solution addresses all the problem areas associated with the paint spray industry, such as confined spaces, open air ,over water and maintenance repairs without extraction are a few of the hazardous tasks that create the highest health and environmental concerns and litigation cases.

> Through reducing hazards at source we are able to address the above spray application concerns, the low energy spraygun has attained an’Engineering Control’ status from the HSE, this significantly increases the safety factor status of PPE, RPE.and reduce airborne pollutants and explosion risks. .

The high performance, competative cost, low skill operation and long service life meets and betters the EPA BAT Notification, and further reduces all raw material costs and spares associated with the industry.

The Outcome

We now have a low energy spray gun that not only solves problems, but can apply a very wide range of paint and coatings . It surpases global legislation and reduces the carbon footprint of spray applications.

Competitive Advantages of the Spray Gun

The LESG has a number of competitive advantages that are summarised in the following table;

Reduced Airborne Hazard by 60%	Safer hazardous area work	Micro spray fan adjustment
Transfer Efficiency > 85%	Improved Safety Factors	Reduced Carbon Footprint
Nano to High Solids applications to coorect film thicknes tolerance	6 month fluid parts service life due to low pressure	Only the Spraytip changes to suit material viscosity
Lower compressor running costs	10 - 600 microns applications	Lifetime guarantee for items
Filtration reduced by 50%	Spray gun maintenance < 3 mins	Lower Masking & Labour cost

Operation Characteristics

The unique twin air chambers allows the operator to set the optimum atomizing pressure for the material, then increase the fan pattern from a round fan to the desired flat fan pattern.

The unique fluid control allows full airflow through the aircap, then by opening the flow control knob, the operator can adjust the fan pattern from 10 – 600 micron film thickness

Market Penetration

Field trials have solved spray application problems of high airborne pollutants from newly developed materials due to the pressures required from a range of current spray gun applications.

This has opened the problem solution market and allows time to train staff to develop skills for the wide range of market sectors in aerospace, transport, steel construction, architectural and pathogenic treatments.

Competition

Currently no other system can safely deliver a low energy flat fan spray application of 10µm wet film requirement to the Nano coating industry.

CCM GmbH
Diepenbroich 8
D-51491 Overath
phone +49 (0) 2206 928590-0
fax +49 (0) 2206 938590-99
E-Mail info@ccm-international.eu
www.ccm-international.eu