

Manual Powder Coating System Offers Flexibility

ITW Gema's OptiFlex2 manual powder spray system is designed to spray virtually any powder effectively and consistently on virtually any part in virtually any environment, the company says.

The system has a 100,000-v integrated, cascade power supply that charges a variety of powders, including metallic, polyester and enamel. It is suitable for use on a variety of part shapes, offering 20 custom and three pre-programmed settings for versatility in a variety of applications. The system delivers functionality and performance whether operating in heat or cold, or in dry or humid conditions, the company says.

The system's PowerClean feature uses blasts of air to clean the entire powder path from the pump to the gun tip. The powder pump is designed to use the most effective angle to consistently deliver powder, resulting in optimized air consumption and less powder waste, the company says. The powder coating gun nozzle works in concert with the pump to deliver powder with first-pass transfer efficiency, accuracy and repeatability.

The system is available as a fluidizer unit, a box unit and a stirrer unit, and in three lab versions.

For more information from ITW Gema, phone 800-628-0601 or visit pfonline.com/suppliers.



Electric Heat Exchangers Provide Rapid Heat Transfer

Durex Industries' DFX family of electric heat exchangers are designed to provide fast, safe and effective heating of liquids and gases without the drawbacks of traditional electric circulation heaters.

Unlike traditional circulation heaters, the unit's heater elements are isolated from the medium flow path. A coiled, seamless, 316 stainless steel flow tube is embedded with the heater elements in a light-weight aluminum casting.

This provides rapid heat transfer and gentle, indirect heating that will not degrade fluid. This isolated-flow-path construction is ideal for heating de-ionized water, solvents, sterilization gases and other contamination-sensitive substances, the company says.

For more information from Durex, phone 847-639-5600 or visit pfonline.com/suppliers.



Robotic Grit-Blasting System Stops Finish Variation

Guyson Corp.'s seven-axis grit-blasting machine is designed to produce a specified surface roughness with greater consistency than manual or multiple-gun blasting methods.

The machine features a six-axis robot arm that serves as a blast gun manipulator and is attached to a 52 x 32-inch rotary blasting cabinet with a servomotor-driven, 24-inch turntable controlled as a seventh axis of motion. A part-holding fixture attached to the table locates the component, which can be oriented or rotated at controlled speed during the programmed process routine.

For components with through-holes, vents or internal passageways that could collect media during processing, core air is supplied to the turntable to allow a positive and adjustable flow of purge air through the component during blasting.

The system constantly maintains the blasting angle, nozzle-to-surface distance and surface speed while following the contours of the parts, eliminating over- and under-blasted surfaces. It executes the motion program identically each time, and can store and recall process recipes for more than 100 different components.

Features such as automatic regulation of blast pressure, media flow sensing, media level sensing, automatic media replenishment and screen classification of blasting grit also are available.

A SCADA controls package also is available to display, capture and record data throughout each blast cycle, providing an audit trail to verify conformity to specifications or process work instructions.

For more information from Guyson Corp. of U.S.A., phone 800-228-7894 or visit pfonline.com/suppliers.

