Dispensing plastisol into a rotomold cavity



CASE STUDY

Challenge

Simulaids sells medical teaching aids. Parts are manufactured using a manual rotational molding process. To verify shot-size accuracy, operators pre-weigh pitchers, fill the pitcher, weigh again and pour the material into the mold. Simulaids was seeking equipment to improve their manufacturing process to accurately dispense plastisol into rotomold cavities.

Solution

The Graco SmartWare[™] Shot Dispense Kit was installed on a Dura-Flo[™] 580 pump. During the setup, Simulaids' manufacturing staff ensured that shot accuracy was as good or better than the shot accuracy achieved with the manual pour process.

Results

Using Graco SmartWare has helped in ease of operation for the operator. The new setup allowed the operator to clamp the dispense valve into the mold opening, step on the foot switch, and perform other operations for that cycle which increased overall productivity. Overall, the new SmartWare configuration greatly reduced cycle time to five seconds per shot with improved shot size accuracy.

The operator running this mold station was initially skeptical of the new method, but after two cycles using the new SmartWare setup, he told his supervisor, "This is great. It really saves me a lot of time."



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SPECIFICATIONS

END USER

Simulaids

INDUSTRY

Medical

APPLICATION

Rotomold cavity filling

MATERIAL SPECS

• 50 Durometer Liquid Plastisol

Material Supplier

PolyOne Corporation

Typical Properties

- One-Component
- Viscosity: 10,000 centipoise

GRACO EQUIPMENT

 Graco SmartWare Shot Dispense Kit installed on a Dura-Flo 580 pump

CONFIGURATION

 Part number: 262375 (SmartWare shot dispense kit)

• Pump: Dura-Flo 5805

• Hose:

- 3/8 in x 25 ft (9.5 mm x 7.6 m)

Delivery Method

Pressure fed stand-mount pump



New SmartWare configuration greatly reduces cycle times to five seconds per shot with improved shot size accuracy.

