# Zenith Precision Metering Pumps...

# **Precise Flow Control for Personal Care Products**

Personal care products are an integral part of everyone's life.

Toothpaste, shampoo, facial tissue, laundry detergent, toilet paper, soap, deodorant, diapers, and cotton swabs are just a few of the products which we use everyday. The common element among all of these items is the emphasis that is placed on superior product quality. The manufacturer's top priorities are exceptional product performance and premier customer satisfaction.

#### **Industry Challenge**

In the personal care industry, the goal of manufacturers is to make the best possible product at the lowest possible cost. This means accurately controlling expensive ingredients being metered into products. Is the correct amount of additive being delivered to the process with absolute certainty? Is over-dosing resulting in extra costs, or is under-dosing resulting in a poor quality product? Are the pumps currently in use delivering additives to the process in an irregular,

pulsating manner? Has it become necessary to place an expensive flow meter after the pump to confirm exact fluid delivery?

#### The Zenith Solution

Zenith pumps deliver precise, repeatable, and virtually pulseless flow. Internal design features produce a flow that is smooth and consistent. Precision ground and lapped components produce high efficiency and metering accuracy. The pumps are constructed of stainless steel for excellent corrosion resistance, and deliver an exact amount of fluid flow, eliminating the need for expensive flow meters or other flow control devices.

#### **How You Benefit**

Manufacturers of personal care products can vastly improve product quality and reduce waste with the use of Zenith precision metering pumps. By using a Zenith pump, product quality is improved, while plant throughput is maximized.



Zenith offers a complete line of pumps and metering systems for various personal care applications, such as metering of fragrances, colorants, fillers, anti-oxidants, flavors, surfactants, emulsifiers, preservatives, adhesives, and expensive trace ingredients



When coupled with a ZeDrive speed controller, Zenith Pumps provide greater uniformity and product stability.

# The Zenith Advantage

**Performance**—Zenith pumps produce precise, repeatable, and pulse-free flow. If you are looking to reduce cost and improve product quality, Zenith pumps can help. When used with a Zenith ZeDrive 2000 speed control package, set point speeds of ±.01% can be achieved.

**Quality**—Zenith is dedicated to total quality and is ISO 9001 certified, ensuring that rigorous standards are maintained throughout the entire manufacturing process. Zenith's reputation is built on quality pumps and service.

**Experience**—Zenith has been designing, manufacturing, and applying precision gear pumps since 1926. Our sales and engineering groups are prepared to tackle the most difficult applications.

**Service**—Zenith offers complete pump service, including cleaning, reconditioning, rebuilding, and pump conversion. Zenith also offers an entire facility dedicated to pump repair, ensuring quick turnaround of your pumps in emergency situations.





#### **B** series

- 400 series stainless steel
- From 0.05 cc/rev to 200 cc/rev
- Pressure to 1000 psi (70 bars)
- Speed to 300 rpm
- Viscosity to 2,000,000 cps
- Temperature to 400°F (200°C)



### H series

- Tool steel
- From 0.16 cc/rev to 200 cc/rev
- Pressure to 4000 psi (280 bars)
- · Speed to 300 rpm
- Viscosity to 2,000,000 cps
- Temperature to 950°F (510°C)
- Superior abrasion resistance



A Colfax Buisiness Unit



# C series

- 316 stainless steel
- From 0.3 cc/rev to 2.4 cc/rev
- Pressure to 1000 psi (70 bars)
- Speed to 500 rpm
- Viscosity to 50,000 cps
- Temperature to 212°F (100°C)



### ZeDrive 2000

- DC motor drive and speed controller, allowing accurate speed regulation of a Zenith precision metering pump.
- · Batch control capability
- Flow totalizer
- NEMA 4 front panel
- Universal input power
- For 1/4 to 5-HP motors

ISO 9001: 2000 Registered

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