Case Study: Electric Motor Structural Adhesive Dispense System

**Customer**
Kollmorgen
Radford, Virginia, USA

**Material**
Elantas (P. D. George)
#88 & #89 Filled Epoxy
A: 150,000 – 200,000 cps
B: 15,000 – 19,000 cps
36 – 42 minute gel time
Filling large motor cavities
10 – 100 ounces per motor

**Application**
Encapsulating large electric motor assemblies used on submarines & surface ships

**System S-3864**
- See-Flo 494, Cart Mounted
- Positive Displacement Meter
- 2200-250-001-AM Dispense Valve
- Heated Hose Assemblies
- 30 Gallon Tanks with Heat & Low Level Sensors

See-Flo 494
Meter-Mix Dispense System
See-Flo 494

Fixed Ratio
The air powered See-Flo 494 is ideal for this potting application with a filled epoxy. The system electrically heats the material (110-190°F) from the supply tanks to dispense hoses; the material is also recirculated back to the supply tanks, through heated hoses, to insure a homogeneous material.

The system dispenses consistent and precisely measured shots of mixed material; the size of the shot can be adjusted using a shot counter. With the 494, the user can also vary the dispense flow rate – slower dispensing for intricate potting jobs, or quicker for large shot applications.

Material Supply
30 gallon pressure tanks include air powered agitators, heat jackets, and high and low level sensors to monitor and condition of the material components

System control panel shows system HMI and temperature controllers for 6 heat zones (2 tanks, 2 hoses, meter A and B)

See-Flo494 features
• Cart mounted, two component, metered shot mix and dispense system
• Positive displacement rod style meter cylinders with titanium coated rods
• Air powered with Air-draulic drive for smooth, controlled dispense cycles
• Fixed ratio – no ratio adjustment needed
• Metered shot or manual dispensing
• Heated material supply and dispense hoses
• Two 30 gallon stainless steel holding tanks including heat jacket, high and low electronic level sensors, air powered agitator assembly, and vacuum controls
• 2200-250-001-AM two-component dispense valve with titanium coated spools and solvent flush port
• Remote actuator

For more information, speak with your Nordson representative or contact your Nordson regional office.

United States and Canada
Plymouth, Michigan
+1.734.459.8600
sales@sealantequipment.com

Andina
Envigado, Colombia
+574.339.2500
nordsonandina@nordson.com

Australia
Sydney, Australia
+61.2.8814.4695
aussparex@nordson.com

China
Shanghai, China
+86.21.3866.9166
shanghai@nordson.com

Europe
Erkrath, Germany
+49.211.9205.0
info@de.nordson.com

Japan
Tokyo, Japan
+81.3.5762.2700
ppa.dm@nordson.co.jp

Korea
Gyunggi-do, Korea
+82.31.766.8321
steve.shin@nordson.com

Latin America
Sao Paulo, Brazil
+55.11.4195.2004
adminfr@nordson.com.br

Mexico
Edo. de Mexico, Mexico
+52.55.6301.1032
ventas@nordson.com.mx

South Asia
Bangalore, India
+91.80.4021.3600
nordsonindia@nordson.com

South East Asia
Singapore
+65.6796.9500
nsea_service@nordson.com

System includes recirculation circuit