

PRESS RELEASE

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Diversified Plastics Supplies High-performance Part to Dynapar

(Minneapolis, MN – May 17, 2010) Diversified Plastics, Inc. has announced the production of a high-precision component for the new Dynapar™ HS35R Encoder. The component, a shaft-sizing insert, fits within the encoder's center bore and accommodates various motor shaft sizes, while insulating the encoder from external stresses.

HS35R Encoders are used in machine applications that require precise shaft rotation such as industrial controls and robotics. It is a position feedback device that attaches to a motor's rotating shaft and communicates angular position readings to the machine's computer controller. Diversified Plastics' shaft-sizing insert is the connection between the encoder's center bore and a motor's shaft. Six slots cut on one end of the insert permits clamping to the motor shaft. "The insert performs two functions. First, it insulates the encoder electrically and thermally from the motor," says Jeff Nemeth, senior marketing communication specialist at Dynapar. "Second, it's the most rugged encoder on the market and is used in very rugged and demanding applications such as elevators, material handling and automotive manufacturing. It has larger bearings to handle heavy loads and Diversified Plastics' shaft-sizing insert helps protect the encoder bearings from stresses imposed by the direct, heavy loads."

The insert, similar to a collet adapter, is made from Ryton®, a brand name for Polyphenylene Sulfide (PPS). Ryton PPS is a lightweight, extremely rigid material that can be molded or extruded. Its high performance characteristics and resistance to expansion and contraction make it ideal for parts requiring tight tolerances. Rather than molding the shaft-sizing insert, Diversified Plastics machines the part from Ryton PPS extruded rod stock. "The machined parts must hold a tolerance of +0 to .001 inches," says Doug Ruckle, engineering manager at Diversified Plastics. "Additionally, part concentricity must be maintained due to the high rotational speed of the encoder."

Diversified Plastics is an injection molder of high-precision, close tolerance, small- to medium-sized injection molded components for medical device, filtration, aerospace and a variety of other industrial markets. The 32-year-old company is a full-service injection molder, from design assistance and mold construction, to intricate molding and clean room assembly. Diversified Plastics is ISO 9001:2008 and 13485:2003 certified, and UL registered.

Ryton is a registered trademark of Chevron Phillips Chemical Company

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For more information, contact:

Annette Lund
Vice President
Diversified Plastics, Inc.
763.488.7103
alund@divplast.com