

Power Transmission Engineering®

A detailed photograph of industrial machinery, likely a conveyor system or a testing rig. It features a series of black rollers on the left and several blue actuators or motors mounted on a metal frame on the right. The background is a solid blue color.

OCTOBER 2016

NEWEST GEARMOTOR TECHNOLOGY

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Primatics, Inc.

RELEASES HIGH ACCURACY POSITIONING TABLES AND NANO PRECISION STAGES

High accuracy positioning tables and nano precision stages, from Primatics, Inc., are used in applications where high accuracy and repeatability and/or smoothness are critical. All sub-assembly components are machined to very tight tolerances in order to achieve the required accuracy and repeatability. Typical precision for these types of stages are measured in the sub-micron or nanometer range.

Precision ground acme screws, precision ground ball screws, or brushless linear motors are typically used as the driving mechanisms for these stages. Precision ground cross roller bearings, ultra-high accuracy square rail bearings, or air bearings are mainly used for the linear bearing system. Granite or a precision machined steel plate is commonly used for the table mounting surface. A temperature controlled

environment, machine shock absorbers, and high resolution linear encoders are also usually required in order to obtain and maintain the system accuracy and repeatability over the life



of the product. Primatics custom engineered solutions are ideal for assembly & inspection applications, vacuum environments, clean room environments and metrology applications for precision testing and measurement. The family of linear stages include: PCL50 and PCL65 Linear Stages, PCR32/43 Series Positioning Stages, PLG Stages, PO Series, PXL Stages and more.

For more information:

Primatics
Phone: (541) 791-9678
www.primatics.com

Cortec Corporation

DEVELOPS SUPER BARRIER VERSION OF ITS ECOSHIELD VP-CI-144

Cortec Corporation has developed a new Super Barrier version of its EcoShield VpCI-144 paper for protecting metal parts from corrosion. EcoShield VpCI-144 Super Barrier combines the corrosion protection of VpCI paper coating with a high gloss water-based barrier coating that prevents moisture from reaching metal parts wrapped inside the paper. The enhanced moisture barrier of EcoShield VpCI-144 is an excellent environmentally friendly alternative to polyethylene and waxed papers. Under recent ASTM E-96 testing, EcoShield VpCI-144 Super Barrier exhibited a water vapor transfer rate (WVTR) highly comparable to that of polycoated paper.

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For more information:

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Past testing has also shown EcoShield VpCI-144 Super Barrier to rival the moisture barrier properties of poly-coated paper and commercial waxed paper. This is an important advantage since poly and wax coatings are not recyclable through normal channels and therefore create an environmental problem. In contrast, EcoShield VpCI-144 is environmentally safe and fully recyclable into other types of paper products such as boxes, cardboard, and other corrugated materials.

EcoShield VpCI-144 Super Barrier combines corrosion protection, moisture barrier properties, and oil and grease resistivity into one material to protect both ferrous and non-ferrous metals. This eliminates the need to inventory multiple types of papers for different types of metal. Protected metals include carbon steel, stainless steel, galvanized steel, cast iron, aluminum alloys, copper, brass and solder.

VpCIs on the inside face of the EcoShield VpCI-144 Super Barrier paper vaporize and condense on metal surfaces to form a thin protective film that doesn't influence physical properties of most sensitive electrical and electronic components, including conductivity and resistivity. The protective film does not need to be removed prior to further surface finishing or coating application, and protected parts can be painted, welded, or soldered.

EcoShield VpCI-144 is useful in a variety of different applications including metal production, metal forging and die casting, metalworking, finished products and electrical and electronic products.

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