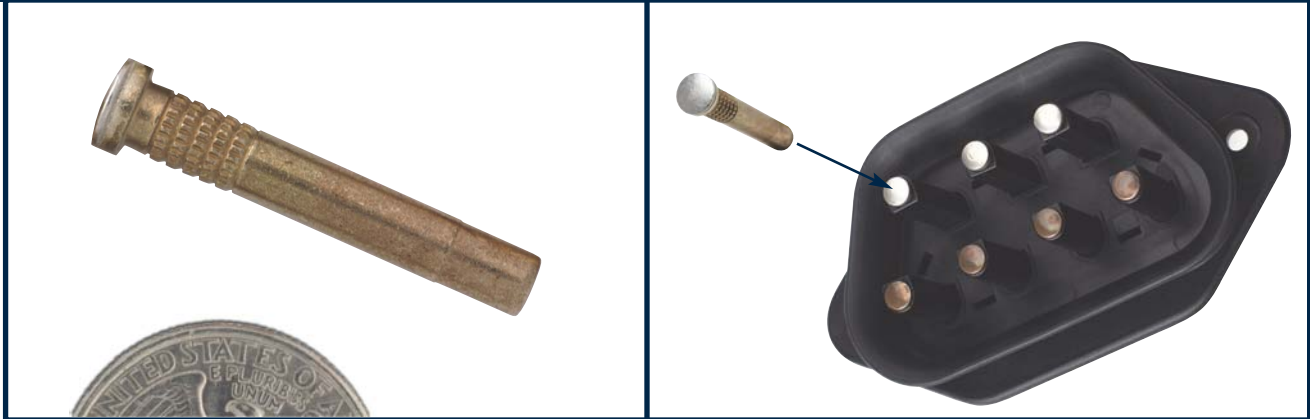


# APPLICATION REPORT



**DERINGER-NEY INC.**

## **Deringer-Ney works with Capsonic Automotive to Produce an Integrated Contact Component for Ford's Mini Van Doors**



Deringer-Ney and Capsonic Automotive have jointly designed an integrated contact component for Ford Mini Vans. The contact gets molded into an assembly to assure electrical connections when the door is closed and to sense when the door is open. The contact component is cold-formed using Deringer-Ney's MICROMfg™ process and a silver contact is brazed on the end.

The original part utilized a non-precious metal contact brazed to the end of the component. The contact disk oxidized and affected the performance of the part. Deringer-Ney's Design Engineers recommended changing the contact material to silver to prevent oxidizing, which greatly improved performance and reliability of the component. In addition, Capsonic originally purchased the component, the contact disk and the brazing operation from three separate suppliers. By having Deringer-Ney produce both components and perform the brazing operation, Capsonic was able to have one supplier responsible for the entire component. In consolidating the production to one supplier and working with Deringer-Ney's high-speed MICROMfg process, Capsonic was able to reduce the cost of the component while increasing performance and reliability.

Capsonic Automotive, headquartered in Elgin, Illinois, molds the Deringer-Ney contact into the final assembly. The assemblies are then integrated into Ford's sliding van doors. Capsonic is a QS 9000, ISO-9001/9002 registered supplier, who is Q1 rated with Ford and a Targets for Excellence supplier for GM. They manufacture high quality switches, sensors, solenoids, motors and end item assemblies, primarily for the Automotive Industry. Their

**Your Total Solution from a Single Source.**  
[www.deringerney.com](http://www.deringerney.com)



## **DERINGER-NEY INC.**

capabilities include Transfer Manufacturing and Resourced Manufacturing, which improve customer's efficiency within their supplier base. Transfer Manufacturing is a unique outsourcing strategy where Capsonic takes over the manufacturing of a customer's existing process, then optimizes the customer's plant involvement. Resourced Manufacturing allows Capsonic to take over the manufacturing, sourcing and/or logistical coordination of a purchased product for their customers.

### **ABOUT DERINGER-NEY**

Deringer-Ney is a vertically integrated manufacturer of High Performance Alloys, Precision Metal Components, Precision Insert Molded Components and Part Assemblies. Typical products are Electrical Contacts & Rivets, Ultra-Small Metal and Plastic Components, Screw Machine Parts, Fine Wire and Films. Capabilities include Custom Alloy Development, Product Design and Development, Prototypes, Tooling Design and Build, Part PPAP, Fully Integrated Manufacturing and Project Management. Manufacturing processes include stamping, cold forming, machining, multi-slide forming, brazing, welding and insert molding. The markets we serve include Automotive, Electronics, Appliance, Medical and Industrial applications. Deringer-Ney has sales representatives in North America, Europe and Asia. Deringer-Ney has four manufacturing locations - all are registered to ISO 9000 and the domestic facilities are registered to QS-9000.

### **DERINGER-NEY MANUFACTURING FACILITIES**

1250 Townline Road • Mundelein, Illinois 60060

Phone: 847.566.4100 • Fax: 847.566.5370

Ney Industrial Park • Bloomfield, Connecticut 06002

Phone: 860.242.2281 • Fax: 860.242.5688

155 Deringer Drive • Marshall, North Carolina 28753

Parque Industrial de Nogales • Nogales, Sonora, Mexico

**[www.deringerney.com](http://www.deringerney.com)**

Phone Inquiries: 860.286.6101 • E-mail Inquiries: [info@deringerney.com](mailto:info@deringerney.com)

05/03