

### **OVERMOLDING CAPABILITIES**

Military & Aerospace



# Full Rubber Overmolding Capabilities



The Full Rubber Overmolding process is a vital part of CDM's suite of value-added capabilities and has special advantages over conventional overmolding. The raw rubber overmold materials are cured with pressure, and provide a seamless jacket-like end result. Rubber overmolding also has accelerated processing and cure time compared to conventional methods.



# 2-Part and Injection Overmolding Capabilities



2-Part Casted Overmolding provides a solid, seamless seal that chemically bonds to backshells and cables to protect against liquids, dust, heat and impact. Injection Overmolding provides the same protection but offers superior aesthetics and can bond to other thermoplastics and metals. These options allow for choosing one molding compound instead of shopping for several different size boots, transitions and heat shrink.

#### **Overmolding Materials**

- MIL-M-24041
- ESTANE® 58244
- ESTANE® 58277
- TECHNOMELT®-PA-678
- Polypropylene
- Polyethylene
- TPU's
- TPE's
- Santoprene<sup>™</sup>
- Low smoke/zero-Halogen options
- Full rubber overmolding









#### **Onsite Morgan Press Model G-125T**

- 7.5 cu. in. (5oz.) max. single shot
- 20/40 ton max. clamping force (toggle)
- 28.56K psi max. injection pressure

### **100% US Support Operations**



CDM's 3,000 square-foot Turnersville, NJ, machine shop is dedicated full-time to supporting the overmolding program by providing molds and specialty components to make the entire process seamless to customers.

CDM's machine shop support includes:

- 3, 4 and 5 Axis automated CNC milling
- Automated CNC turning
- Drill/punch press
- Materials machined include aluminum, brass, copper, hardened steel, Inconel, plastics, stainless steel, titanium
- Preparing molds utilizing the latest software from AutoCAD, CAMWorks, ImageView and Adobe



#### **Overmolding**

Shr	ink	<b>Boots</b>

Provides a complete, seamless seal at the cable/connector junction	Moisture and dust res <mark>istant, but not a true seal between the cable and connector</mark>
Provides an effective strain relief	Shouldn't be used as a strain relief
Unlimited size, shape and color availability	Off-the-shelf sizes and shapes only, no color options
Overmold material used is specific to application	Very limited choice of materials
Can be customized with raised lettering, logo or other identifiers	Not customizable
American made in-house at Turnersville, NJ under 100% quality control	Mass produced and imported





