

	 MPMN: Are there particular applications for which you are advocating the material? Wartinger: Metal is converting to plastic in many applications across many markets. In our presentation, however, we will focus on the orthopedics market where traditionally machined or cast metal parts are converting to new polymers, particularly for disposable applications. Some of these high-performance materials offer similar mechanical properties to stainless steel, but are lighter and offer more design freedom and lower processing costs. Handles for surgical instruments are another place where we're seeing the material shift from either machined metal or hard plastic. Today, surgeons are choosing instruments that have been overmolded with soft-touch thermoplastic elastomers for a more comfortable, ergonomic feel and a more secure grip. Thermoplastic elastomers also allow for color coding, as well as OEM branding that can be incorporated into the handle design. MPMN: By making the switch from metals to plastics, will medical device manufacturers have to sacrifice mechanical strength and other properties commonly associated with metals? Why or why not? Wartinger: The strength properties of metal are superior to those of plastic, so it's critical to determine the specific application's requirements before settling on the material of choice. How strong does the application need to be? Does it require the high reprosporate geometry into the design to maximize its strength, and cut costs in the long run? It is less a question of which material is stronger, but rather, which material best meets the application's specific strength requirements. How strong does the component have to be? MPMN: What key points do you hope to make to attendees? Wartinger: Metal is no longer the only solution for orthopedic applications. There are new polymers on the radar screen, as well as contract manufacturers that have both the plastics and medical experise to design for	 How Nitinol Helps Devices Take Shape Functional Coatings for Medical Devices Product Highlights: Automatic Lathe Can Be Changed Over in Minutes Thermoformed Tubing Can Create Fixed Bends CT Inspection System Performs 3-D Quality Inspection Miniature Electronic Connectors Feature Push-Pull Locking Mechanism Travel Tips and Advice: Feasting in and around Anaheim
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