

2007 PM DESIGN EXCELLENCE AWARDS COMPETITION WINNERS

Peter K. Johnson*

GRAND PRIZE WINNERS

The seven parts selected as the Grand Prize winners are shown in Figure 1.



Figure 1. Grand Prize winners

The annual 2007 MPIF Powder Metallurgy Design Excellence Awards competition featured awards for outstanding powder metallurgy (PM) parts used in diverse end-market segments—automotive, lawn & garden/off-highway, hardware/appliances, hand tools/recreation, medical/dental, and industrial motors/controls & hydraulics. PM replaced competitive parts-making processes such as die casting, plastic injection molding, machining, stamping, laser welding, gear hobbing, and conventional forging. PM's precision, reliability and cost savings, as well as its net-shape and complex design benefits, are maximized in demanding applications. The winning parts are outstanding examples of advances in conventional press & sinter PM processing, metal injection molding (MIM) and hot isostatic pressing (HIP). Sponsored by the Metal Powder Industries Federation (MPIF), the competition showcases PM's cost savings, design benefits, precision, and special properties that outperform competitive materials and processes by a wide margin.

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*Managing Editor, *International Journal of Powder Metallurgy*, APMI International, 105 College Road East, Princeton, New Jersey 08501-6692, USA; E-mail: pjohnson@mpif.org