Plastics Replace Metal in Digital Display Cart

Ergotron, a leading digital display mount manufacturer, used long fiber and wear compounds from RTP Company to improve the efficiency of its new LX Large Display Cart. RTP Company's advanced plastic technologies enhanced the cart's function by enabling performance improvements at lower weights while keeping the cart affordable for a wide range of end uses.

"Our LX Cart has extremely stylish looks, yet super rugged construction," said John Erickson, project manger at Ergotron. "The breakthrough design is a result of intense engineering development made possible through the use of advanced plastic technologies, replacing many of the components that were previously metal."

An RTP 800 series glass reinforced and PTFE lubricated acetal compound provided high strength and wear resistant properties for Ergotron's patented cam. The strength attributes of the compound allowed the cam to hold the load, while the wear resistance properties enable it to move with the springs and cable.

The pulleys that support the movement of the cable were made with an RTP 800 series acetal with aramid fiber and PTFE. This compound not only provided excellent wear resistance and low friction, but also reduced noise.

Improvements over previous support bases for Ergotron carts were also made by replacing the metal with an RTP 200 series nylon 6/6 long glass fiber reinforced compound. The long fiber material gave Ergotron's engineers flexibility to develop their ideal design while still maintaining maximum structural and impact properties. *Information:* www.rtpcompany.com *[1]*.

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