

World's **Lightest Heavy-Duty** Truck Wheel



Alcoa has rolled out the world's lightest heavy-duty truck wheel. This latest Alcoa innovation, the Ultra ONE™, will help trucks shed pounds for increased payload and fuel efficiency. Unveiled at the Mid-America Trucking show in Louisville, Kentucky, Alcoa's new 40-pound wheel is 47 percent lighter than steel wheels of the same size. The Ultra ONE can help save up to 1,400 pounds per rig, enabling fleets to carry more goods while meeting stringent federal emissions regulations. Underscoring the importance of lightweighting to the industry, one of America's largest flatbed carriers, TMC Transportation, is converting its fleet to the Ultra ONE starting in 2014. Fleets have increasingly converted to aluminum wheels that offset the weight of necessary pollution-control equipment used to meet federal emissions regulations. Lighter wheels also improve fuel economy, making up for rising fuel prices and helping move goods in a cleaner way. And if trucks burn less fuel, they emit fewer greenhouse gases. Replacing steel wheels with aluminum wheels on an 18-wheeler offsets the annual carbon footprint of an average family of four in America. In addition, Alcoa's aluminum wheels are six times brighter than competitors' wheels, giving them strong aesthetic appeal, and because they are



TIM MYERS
President - Alcoa Wheel and Transportation Products

"Alcoa continues to reinvent the wheel. Our new innovation is heavy-duty without the 'heavy,' and it looks great, too. Alcoa's unique mix of manufacturing, technology and lightweight metals expertise enabled this breakthrough. Major fleets, such as TMC Transportation, are already lining up to take advantage of it."

corrosion resistant and do not require stripping and repainting, lower operators' maintenance and operating costs.

"As the largest privately owned flatbed trucking company in the United States, TMC Transportation trucks haul heavy loads across America every day, and each pound we can reduce helps us lower costs and move more goods," said Harrold W. Annett, Chairman and Chief Executive Officer of TMC transportation. "The Ultra ONE wheel is part of our total commitment to quality, through which we reduce waste and ensure customer satisfaction."

To take out five pounds out of its lightest heavy-duty truck wheel, Alcoa's experts at the Alcoa Technical Center—the world's largest light metals research center—invented a new alloy, the patent-pending MagnaForce™ alloy. It is on average 17 percent stronger than the industry standard, Alcoa's 6061 alloy, in similar applications.

Alcoa's wheels business has grown at a 22 percent compounded annual growth rate from 2009 to 2013—with 67 percent of sales driven by proprietary technologies—making it one of Alcoa's fastest growing businesses. The company is expanding its wheels presence in Europe and into China and Brazil to capture growing global demand for its wheels.