



## NEWS RELEASE

TO THE EDITOR

FOR IMMEDIATE RELEASE

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**ENGINEERED COMPOSITE GEAR SOLVES OEM'S CONCERNS  
ABOUT NOISE, ELEVATED TEMPERATURE AND PREMATURE FAILURE  
...AND YIELDS A SAVINGS BONUS IN EXCESS OF \$ 750,000!**

Closter, NJ: When a major OEM customer of a small one HP electric motor complained about excessive noise, the motor manufacturer replaced a metal gear on the first stage of the gear head with a machined Nylon 6 gear. While the plastic gear in fact helped to reduce the noise, it functioned as a heat sink; eventually warming up, separating from the shaft, and loosening the press-fit connection. Its inability to handle the heat build-up generated from the plastic-to-metal shaft connection contributed to frequent product failure.

Although effective in solving his noise problem, the end-user was spending between \$50,000 to \$60,000 a year, and countless downtime hours replacing the limited-life, stretched-out plastic gears.

Intech Power-Core™ gears were selected as a hybrid solution, offering both noise reduction and secure attachment to the shaft. The proprietary construction design features a sturdy composite material that is gravity-cast directly onto a rugged knurled metal core. Gear teeth are hobbed into the outer plastic portion of the stable, highly crystalline, stress-free Intech Power-Core gear material, that has been specifically engineered to offer high performance tensile and flexural properties. Bore is machined into the metal core to secure a sturdy, high torque, temperature-resistant metal-to-metal shaft connection.

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By applying proprietary gear durability calculations, Intech Corporation predicted wear-life of the Power-Core replacement gear to be close to 15 years. In 15 years it is estimated that the customer will save between \$750,000 to \$900,000 in gear hardware. In addition, countless downtime hours figured in terms of labor and productivity will also be saved.

Intech Power-Core creates engineered gear and roller solutions for applications in which noise, lubrication, inertia, moisture, and temperature create a challenge for all-metal or all-plastic gears.

To view an illustration of the item(s) described above, please click on the following link:  
[www.intechpower.com/motor.gif](http://www.intechpower.com/motor.gif) .

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