



NEWS RELEASE

For additional information please contact:

TO THE EDITOR

Mr. Georg Bartosch

FOR IMMEDIATE RELEASE

Intech Corporation

250 Herbert Avenue

Closter, NJ 07624

(201) 767-8066

www.intechpower.com

Medical Latex Dipping Device Gains Longer Life and Allows Easy Cleaning with Proprietary New Gear Design

Closter, NJ: Power-Core™ gears from Intech Corporation upgrade the design of a latex dipping gear cassette assembly in a unique arrangement that replaces standard gears in order to meet critical performance and cleaning challenges.

The original gear box design resembled a tightly fitting cassette made with standard off-the-shelf gears. Unfortunately, as the latex material was being processed, the gears reacted with the latex material and expanded in size until they ceased turning. Cleaning required a complete disassembly of the cassette, followed by awkward and time-consuming hand scrubbing of individual components to yield less-than-satisfactory results.

In addition to requiring an easier cleaning process, the medical device manufacturer wanted longer wear-life and improved performance from the gears. Frequent cleaning and premature gear failure caused by gear swelling resulted in wear stress that necessitated costly system downtime and replacement that averaged every few months.

As part of a pre-sale failure analysis, Intech provided an engineering design review that included a custom gear life calculation. It was during this stage that Intech recommended a system design modification to address performance uptime, improve wear life, and to create a user-friendly non-hazardous cleaning process.

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The gear box modification design by Intech engineers features custom Intech Power-Core gears with a larger pitch diameter, wider face width, and an integral stainless steel shaft that extends on each side of the gear and rotates directly within the load bearing cover plates. The open sandwich design allows for easy cleaning.

Compared to the previously used injection molded gears which vary in size due to internal stresses and moisture absorption, the precision machined Intech Power-Core gears provide consistent, smooth-running operation at reduced torque. Uniform Power-Core material will not distort or change size, so individual gears can be interchanged easily without matching pre-existing gears for a uniform fit, whereas injection molded gears had to be matched to other gears in order to function.

Intech Power-Core gears are machined from an inert, stress-free non-hygroscopic material with integral stainless steel shaft that offers outstanding performance where corrosion, abrasion, noise, lubrication, vibration, shock, and moisture create hostile operating environments.

To view an illustration of the item(s) described above, please click on the following link:

<http://www.intechpower.com/latexdipping.gif>

For MORE INFORMATION, PLEASE CONTACT Mr. Georg Bartosch: Intech Corporation; 250 Herbert Avenue; Closter, NJ 07624; Tel: (201) 767-8066; www.IntechPower.com.

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