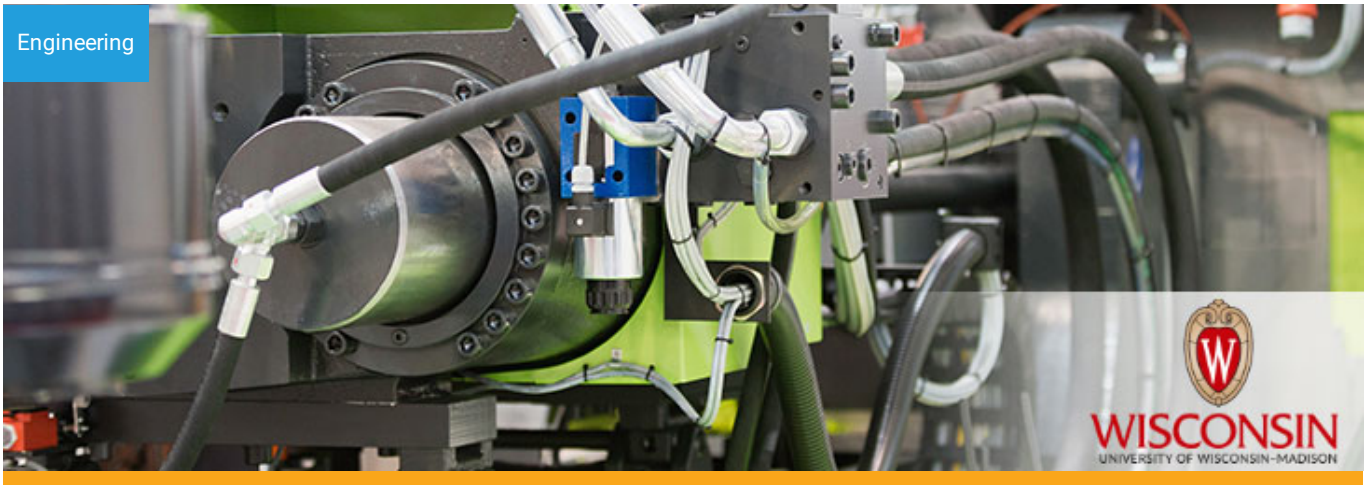

HIGH ENERGY 3-D PRINTER EMPLOYING CONTINUOUS PRINT PATH

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WARF: P210260US01

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The Invention

UW-Madison innovators have designed a continuous helical 3D metal printer with an unbounded rotating powder volume. In one embodiment, the powder bed system exists as a torus, where powder is deposited in a helix, while printing and pre-sintering occur simultaneously in a helical fashion within a recoating/sintering station. Because photons are not charged, a laser is used to pre-sinter the powder into a cake to avoid electrical charging issues. The printing process is continuous and never stops until the build is complete.

Tech Fields

- Engineering : Additive manufacturing

For current licensing status, please contact Michael Carey at mcarey@warf.org or 608-960-9867