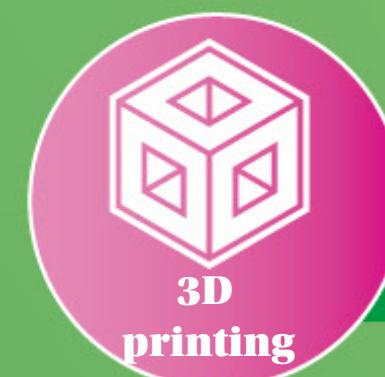


Next-Generation Manufacturing: 3D Fabrication Empowered by CNF

We are developing innovative technology to fabricate CNF reinforced plastics using 3D printers. Because this technology does not require molds, it enables fine-tuning of part design, the production of complex geometries, and small-lot manufacturing. Furthermore, by imparting CNF's excellent properties—lightweight, high strength, and recyclability, it redefines conventional manufacturing practices.

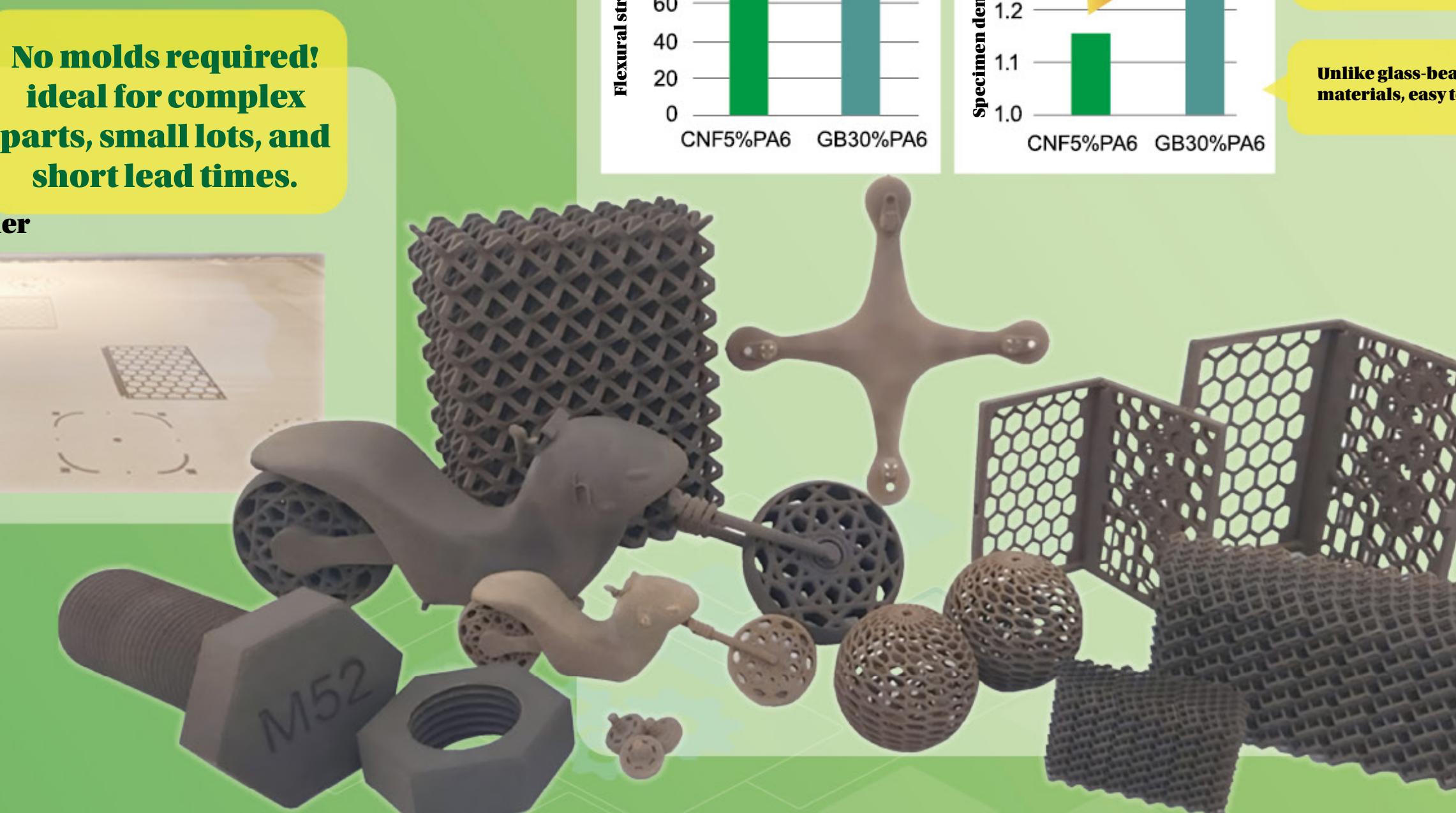
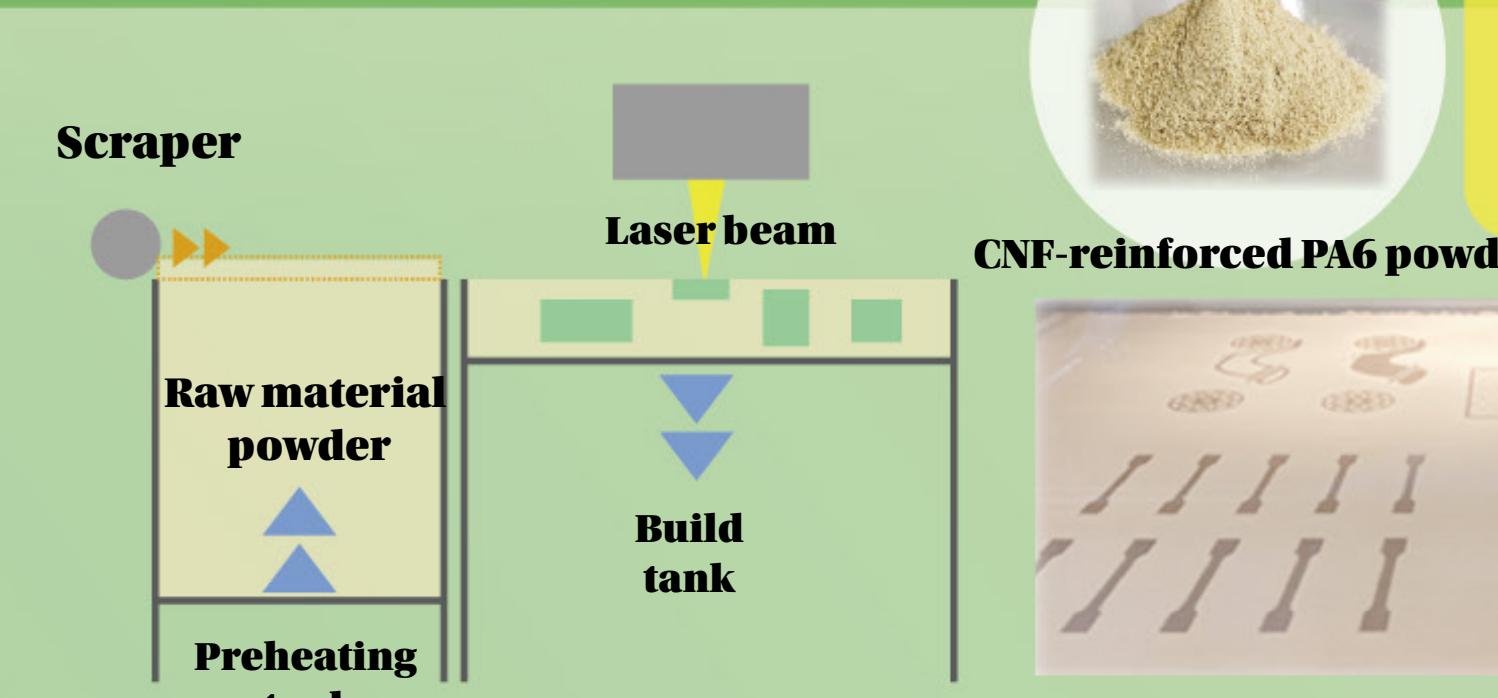
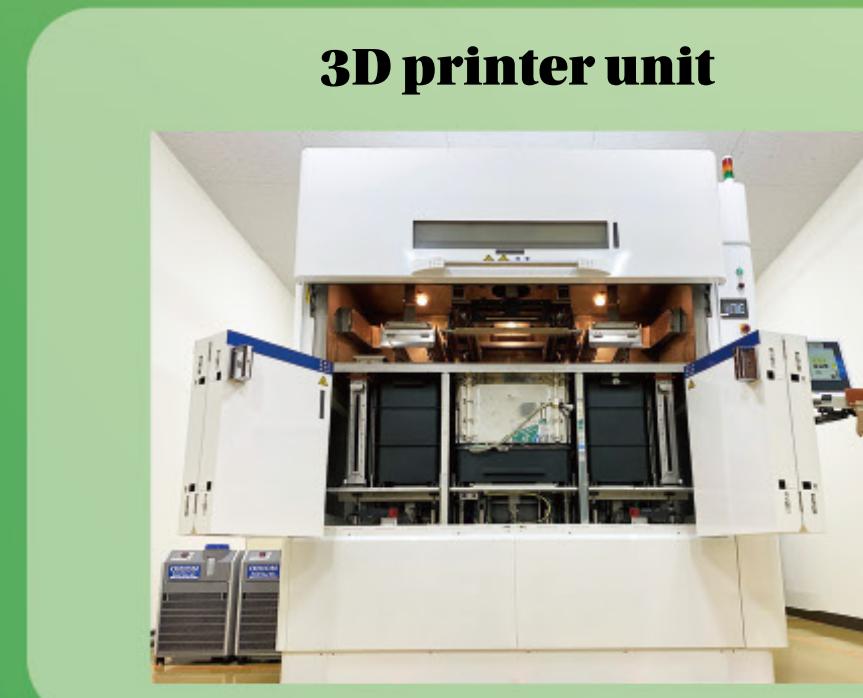


CNF transforms the manufacturing process

3D printing + CNF = Mold-free, rapid production of complex and high-strength components

This innovative technology maximizes the advantages of mold-free 3D printing. It enables the direct fabrication of parts with complex geometries and internal structures from digital design data. This capability facilitates design refinement, high-mix/low-volume production, and shorter lead times. By integrating CNF with 3D printing, we introduce a new approach to manufacturing that frees designers and engineers from conventional production constraints.

PBF: Powder Bed Fusion



If you are interested in CNF, please feel free to contact us.

Achieves both high performance and recyclability

CNF reinforced 3D printing materials not only eliminate the need for molds but also offer excellent physical properties. Adding CNF reduces material density, enabling a 10% reduction in part weight. Moreover, while achieving strength comparable to commercially available glass-bead-filled materials, they offer a significant advantage in recyclability. CNF is a next-generation material that delivers both high performance and sustainability.

