

Bearings Direct Adds Custom Plastic and Metal Component Manufacturing for Obsolete and Non-Standard Industrial Parts

Bearings Direct makes custom components for agriculture, heavy equipment, medical, automation, and material handling applications.

GLENDAL, CA, UNITED STATES, August 31, 2026 /EINPresswire.com/ -- Maintenance and engineering teams may encounter equipment components that are discontinued, unsupported by the original manufacturer, or unavailable in standard catalogues. When replacements cannot be sourced, operators may face longer equipment downtime, reliance on substitute parts, or the replacement of otherwise serviceable machinery.

[Bearings Direct](#), an online bearing and industrial product supplier operated by AMPEC Inc., now provides manufacturing services for custom plastic and metal components. Components are produced according to customer specifications and include plastic rollers, wheels, sprockets, and gears, along with metal brackets, shafts, and housings.

The service supports replacement-part, equipment-maintenance, and prototyping requirements across the industries Bearings Direct currently serves.

Custom Component Applications Across Industrial Sectors

1. Agriculture and farm equipment.

Harvesters, balers, and grain-handling equipment can remain operational after original components become unavailable. [Bearings Direct custom component](#) manufacturing allows worn rollers, sprockets, shafts, and related parts to be reproduced according to the equipment's dimensions and operating requirements.

2. Heavy equipment.

Components used in high-load or shock-loading conditions may require specific dimensions, materials, and performance characteristics. Manufacturing parts to the original specification can provide a closer functional match than adapting a standard replacement.

3. Medical and healthcare equipment.

Medical devices may use components with precise dimensional, friction, noise, or corrosion-resistance requirements. Custom production supports parts that are unavailable in standard

sizes or materials.

4. Robotics and automation.

Automated equipment depends on consistent dimensions and component fit to maintain repetitive movement and positional accuracy. Made-to-specification parts can be produced for existing systems or new equipment designs.

5. Conveyor and material handling equipment.

Rollers, guides, wheels, and wear components require periodic replacement. Custom manufacturing provides an option when the original part has been discontinued or when a standard component does not match the equipment.

The service also covers OEM replacement parts and industrial prototypes. OEM components can be reproduced for equipment that remains operational after its original supply chain ends. Prototype parts can be manufactured to test dimensions, materials, fit, and function before production.

Prototyping is available as a standalone service or as an early stage within a larger production order. A first-article part can be produced and evaluated for fit, function, and material performance before a full production run is committed, allowing design or material adjustments to be made without the cost of retooling. SLA resin printing supports rapid turnaround on initial test parts, with production-grade plastics or metals used once a design is confirmed.

How the Manufacturing Process Works

Customers submit specifications through an RFQ form using CAD files, technical drawings, basic sketches, or available component details. When original drawings are unavailable, a physical sample can be evaluated using 3D scanning and CAD rendering to develop a digital model.

After reviewing the submitted information, Bearings Direct prepares a quotation and produces a prototype for customer evaluation. Dimensions, fit, or material requirements can be adjusted during the prototype stage before production begins.

Low-volume orders are produced in-house, while higher-volume production is handled through the company's overseas manufacturing network.

Materials are selected according to load capacity, operating temperature, chemical exposure, friction, and wear requirements. Available plastics include nylon, UHMW polyethylene, acetal, polycarbonate, PTFE, and SLA resins used for prototypes and selected end-use parts. Metal components are available in steel, aluminum, and other alloys based on the application.

The service also supports assemblies that combine plastic and metal components. Parts can be designed around the dimensions and fit requirements of the bearing assemblies used in the customer's equipment.

Component specifications and RFQ requests can be submitted through the Bearings Direct website.

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