

Ridgway Powdered Metals Inc. We get the job done!

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Powder Metal Manufacturing of a Clutch Shoe



Powder Metal Manufacturing of an Adjuster Sleeve for an Automotive Application



[click to enlarge]

hardness testing, and gage inspection.

For over 4 decades, **Ridgway Powdered Metals** has been providing high quality precision powdered metal components for a range of industries and applications. In the project highlighted here, Ridgway was contracted to fabricate a custom adjuster sleeve, used for adjusting bearings in automotive applications. A continuously improving strategic sourcing process was used to procure the necessary materials, and the unit's tooling was custom designed and manufactured on site. An advanced standard compacting press was utilized to mold hybrid low alloy steel "FLN4C-4005-170HT" powder and the required additives into a consolidated mass. In a protective atmosphere, the sintering process was implemented to consolidate the material and impart product strength and integrity. The tightest tolerance of $\pm\,0.001$ " was held. Quality and accuracy were maintained with in process and post fabrication dimensional inspection,

The near net-shaped sintered part was further finished with precision machining, heat treating, and grinding. Finished sleeve dimensions were 1.020" in depth, an outside diameter of 3.038", and 360 grams in weight. The tooling was constructed to allow for the formation of a spine on both the inner and outer diameters, and the inner diameter was finished with a 16 RMS surface. 500,000 adjusters were furnished for this project, shipped to the customer in Michigan. This is a standing contract, with 25,000 units produced monthly. Ridgway Powdered Metals is dedicated to providing cost effective precision manufacturing solutions. For more information about this bearing adjuster project or any of our other custom powdered metal fabrications please see the table below or contact Ridgway directly.

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Highlights of this Adjuster Sleeve Project

Product Description	Bearing Adjuster
Powder Metal Manufacturing Capabilities Applied/Processes	Primary: Engineering
Equipment Used to Manufacture Part	Standard Compacting Press
Overall Part Dimensions	Outside Diameter: Ø 3.038" Depth/Height: 1.020" Weight: 360 grams
Tightest Tolerances	± 0.001"
Material Used	FLN4C-4005-170HT
Material Finish	16 RMS Surface Finish on ID
In process testing/inspection performed	Dimensional Inspection, Hardness Testing, Gage

	Inspection
Industry for Use	Automotive
Volume	500,000 +
Delivery/Turnaround Time	Up to 25,000 per Month
Delivery Location	MI
Standards Met	Customer Specifications, 2D CAD Drawing
Product Name	Adjuster Sleeve

View Other Past Projects »

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