

Ridgway Powdered Metals Inc.

We get the job done!



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Powder Metal Manufacturing of an Adjusting Nut

Powder Metal Manufacturing of Hammer Drill Gears

Powder Metal Manufacturing of a Pulley Hub

Powder Metal Manufacturing of a Clutch Shoe



Powder Metal Manufacturing of a Clutch Hub for the Valve Control Industry



[click to enlarge]

Our engineers at **Ridgway Powdered Metals** can assist customers in the development of custom powdered metal components. Powdered metal manufacturing offers unparalleled flexibility and cost effectiveness in the fabrication of complex metal components. This 3.400" O.D. clutch hub is used in the valve control industry. The complex geometry lends itself to powdered metal manufacturing. Features like the lugs at both ends would result in extensive machining time and material waste in a traditional machining. The hub is molded from FN-0405 high strength nickel steel and held to dimensional tolerances of ±0.006" for the inner diameter.

After compacting and sintering, the hub undergoes additional machining, heat treating, and drawing processes. For some components with fine features, a combination of powder metal manufacturing and machining is the optimal

production solution. Engineers can consult with customers about the most economical way to produce accurate, high quality parts with the required dimensions and geometry. We produce of 10,000 of these hubs per year with a 4 week lead time. For more information about this custom powdered metal component project, see the table below, or contact us directly.

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Highlights of this Custom Powdered Metal Components Project

Product Description	Clutch Hub
Powdered Metal Capabilities Applied/Processes	Primary: Engineering
Equipment Used to Manufacture Part	Standard Molding Press
Overall Part Dimensions	Outside Diameter: Ø 3.400" Body Diameter: 2.173", Lugs on both ends of the part Weight: 463 grams
Tightest Tolerances	0.006" on the I.D
Material Used	FN-0405
In process testing/inspection performed	Dimensional Inspection, Gage Inspection, Hardness Testing
Industry for Use	Valve Control
Volume	10,000 +

Delivery/Turnaround Time	4 Week Delivery
Delivery Location	VA
Standards Met	Customer Specifications, 2D CAD Drawing
Product Name	Clutch Hub

View Other Past Projects »

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Ridgway Powdered Metals Inc.

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