



## Custom Capabilities

Powder Metal Services

Advantages of the PM Process

Materials

Tolerances

Industries served

Design considerations

## RPM Product Examples

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 SHOE



[click to enlarge]

directly.

The **PM Clutch Shoe** – shown at right – is profiled here to illustrate how a very complex geometrical shape – if it were to be machined from steel bar stock -several features would need to be produced with electrical discharge machining. It proves to be simple as a **PM** part once its tooling is designed and built correctly and then placed within the proper compacting press. Many hundreds, of this part, are pressed each hour. Following sintering and deburring this **PM Clutch Shoe** is ready for shipment and assembly.

Engineers at **Ridgway Powdered Metals** are eager assist its customers in the design of their custom **PM** components. **RPM** Engineers and/or its Sales Representatives can consult with customers about the most economical way to produce accurate, high quality parts with the required dimensions, tolerances and geometry. For more information about this custom powdered metal component project [contact us](#)

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### Highlights of this Custom Powder Metal Components Project

Product Description	Clutch Shoe
Powdered Metal Capabilities Applied/Processes	<b>Primary:</b> Engineering Tool Making Process Sourcing Compacting/Molding Sintering <b>Secondary:</b> None
Equipment Used to Manufacture Part	Multi-Platen Compacting Press
Overall Part Dimensions	Part will fit within the confines of a theoretical box 1 1/2" Long X 1 3/16" Wide X 3/4" Deep; Weight: 59.5 grams
Tightest Tolerances	0.005"
Material Used	FN-0405
In process testing/inspection performed	Dimensional Inspection, Gage Inspection, Hardness Testing
Industry for Use	Magnetic Clutch
Volume	10,000 +
Delivery/Turnaround Time	4 Week Delivery
Delivery Location	IN
Standards Met	Customer Specifications, 2D CAD Drawing

Product Name

Clutch Shoe

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