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## Custom Capabilities

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### POWDER METAL MANUFACTURING OF AN ADJUSTING NUT



[click to enlarge]

This Adjusting Nut used in a break system is an ideal **Powder Metal** item.

**PM** offers unparalleled flexibility and cost effectiveness in the production of complex components such as this 4 3/4" hexagon Adjuster shown on the left. The internal gear, multiple cross-sections and the small dimples on its face are all compacted with the **PM** tooling. Each of these features will be very costly machining operations with other metal working techniques. Complex geometry of this kind readily lends itself to **PM** manufacture.

After compacting and sintering, this part must be subjected to additional threading and heat treating for its completion. In this case the customer wishes to perform these operations. However, **RPM** normally ships completely finished products with any/all of the required machining, heat treating, plating, etc. steps applied.

Engineers at **Ridgway Powdered Metals** are eager to assist its customers he 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 their required dimensions, tolerances and geometry. For more information about this custom powdered metal component project please [contact us](#) directly.

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#### Highlights of this Custom Powder Metal Components Project:

Product Description:	Axel Bearing, Adjusting Nut
Powdered Metal Capabilities Applied/Processes	<b>Primary:</b> Engineering Tool Making Process Sourcing Compacting/Molding Sintering  <b>Secondary:</b> Machine - By Customer Heat Treat and Draw - By Customer
Equipment Used to Manufacture Part	550 Multi-Platen Compacting Press
Overall Part Dimensions	Outside Diameter - 4.745 Hex. Weight - 1400 grams
Tightest Tolerances	0.006" on all dimensions
Material Used	FC-0208-50
In process testing/inspection performed	Dimensional Inspection, Gage Inspection, Hardness Testing
Industry for Use	Trailer Break Systems
Volume	10,000 +
Delivery/Turnaround Time	4 Week Delivery
Delivery Location	NY & MI

Standards Met

Customer Specifications, 2D CAD Drawing

Product Name

Axel Nut

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Ridgway Powdered Metals Inc.  
6931 Ridgway - St. Marys Road, Ridgway, PA 15853  
Phone: 814.772.5551 • Fax: 814.772.1492



**Ridgway Powdered Metals Inc.**

Email: [sales@ridgwaypm.com](mailto:sales@ridgwaypm.com) | [Privacy Policy](#) | [Site Map](#)