



## Custom Capabilities

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## POWDER METAL MANUFACTURING OF A PULLEY HUB



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This part was chosen to be profiled to illustrate the excellent machinability of **PM** when the correct materials are chosen.

The Pulley Hub began as a pressed and sintered  $\varnothing 1.750$ " OD X 2.875" long cylinder with a  $\varnothing 0.750$ " X 1.750 deep keywayed ID. At this point it was given to the machine shop for completion. A  $\varnothing 1.250$ " X 1.190 body was first machined on its closed end. That was then machined into a 3/4 - 14 threaded detail. Two holes were drilled through its OD into the center hole and #10-32 threaded.

With all of this secondary work the part still provided a significant cost reduction over its machined bar stock option.

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](#) directly.

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### Highlights of this Custom Powder Metal Components Project

<b>Product Description</b>	Driver Pulley
<b>Powdered Metal Capabilities Applied/Processes</b>	<b>Primary:</b> Engineering Tool Making Process Sourcing Compacting/Molding Sintering  <b>Secondary:</b> Machine Steam Treat
<b>Equipment Used to Manufacture Part</b>	Standard Molding Press
<b>Overall Part Dimensions</b>	OD $\varnothing 1.750$ "; Length - 2.875"; Weight: 652 grams
<b>Tightest Tolerances</b>	- 0.002" on the I.D
<b>Material Used</b>	FN-0208
<b>In process testing/inspection performed</b>	Dimensional Inspection, Gage Inspection, Hardness Testing
<b>Industry for Use</b>	Industrial Sweeper/Scrubber
<b>Volume</b>	2,000
<b>Delivery/Turnaround Time</b>	4 Week Delivery
<b>Delivery Location</b>	MN

Standards Met

Customer Specifications, 2D CAD Drawing

Product Name

Driver Pulley

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