



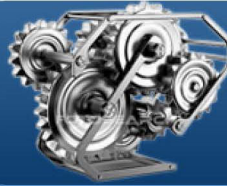
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Call: **814.772.5551**

Email: [sales@ridgwaypm.com](mailto:sales@ridgwaypm.com)

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## Custom Capabilities

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## RPM Product Examples

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## POWDER METAL MANUFACTURING OF HAMMER DRILL GEARS



[\[click to enlarge\]](#)

The Hammer Drill (Output) Gears – shown at right – are the top and bottom of the same item – a magnificent **PM** application..

Part is complete as-sintered except for hardening and grinding upper counterbore. **RPM's** multi-platen compacting equipment produces this four-level cross-sectional part with its two external gears, its splined inside diameter, deep upper counterbore and lower counterbore in one operation at several hundred each hour.

In material savings alone – where 1.33 pounds of steel are used to complete a fully machined part - only 0.371 pounds of **PM** steel are needed for the pressed and sintered **PM** part - an obvious and significant cost saving. Machining this part from bar stock requires at least 16 operations to complete. **PM** requires only four, which includes the heat treatment and grinding.

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

Product Description	Output Gear
Powdered Metal Capabilities Applied/Processes	<b>Primary:</b> Engineering Tool Making Process Sourcing Compacting/Molding Sintering <b>Secondary:</b> Machine – By Customer Heat Treat
Equipment Used to Manufacture Part	Multi-Level Press
Overall Part Dimensions	Outside Diameter: Ø 1.769" Weight: 168.5 grams
Tightest Tolerances	0.002"
Material Used	Warm Compaction
In process testing/inspection performed	Dimensional Inspection, Gage Inspection, Hardness Testing
Industry for Use	Hand Tools
Volume	m 5,000 +
Delivery/Turnaround Time	4 Week Delivery

Delivery Location	MD
Standards Met	Customer Specifications, 2D CAD Drawing
Product Name	Hammer Drill Output Gear

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**Ridgway Powdered Metals Inc.**

6931 Ridgway - St. Marys Road, Ridgway, PA 15853

Phone: 814.772.5551 • Fax: 814.772.1492



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