

# Capstan Atlantic

## The Powdered Metal Gear Specialists

Capstan Atlantic is the largest East Coast producer of precision Powdered Metal gears. Our capabilities include high density, high strength gears and our proprietary HP3 process™. Specializing in a large variety of applications, Capstan Atlantic provides solutions for the Automotive, Appliance, Lawn & Garden, Power Tool and Power Transmission Industries.



### Gear Types:

Helical  
Spur  
Bevel  
Pinion  
Combinations  
HP3 Densification Process™

### Capabilities and Facilities

- Gears to AGMA Class 9  
High performance gears by combining high strength alloys and unique secondary operation
- Selective densification to 7.8 grams/cc
- Presses from 4 to 600 tons  
In house design, engineering and tooling capabilities
- Metallurgical and Gear laboratory

## Capstan Atlantic

Capstan Atlantic is the leading East Coast producer of precision Powdered Metal gearing and multi-level structural components. Combining advanced gear engineering with proprietary secondary operations, Capstan Atlantic offers precision Powdered Metal gears to meet demanding applications. Our process allows the customer to achieve original design tolerances, improved dimensional accuracy and reduced wear and noise characteristics while maintaining a cost advantage. AGMA class 9 quality gears are produced using this process.

Large multi-level components manufactured on 200 to 600 ton presses allow Capstan to respond to tough customer demands. Capstan combines a highly qualified engineering staff with advanced production techniques to create and implement solutions to our customers most demanding and challenging applications.



Call today for a free brochure and to discuss with our Engineering group how Capstan can improve your gear applications.

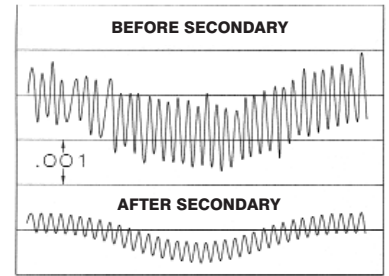


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## HP3™ High Performance Gear Manufacturing Process

- High Performance, High Precision Gears
- Improved surface smoothness:
  - Decreases wear
  - Increases gear life
  - Reduces noise levels
- Increased surface density:
  - Increases strength
  - Enhances durability
- Eliminates secondary operations
  - Hobbing
  - Shaving
  - Grinding
- HP3™ provides cost reduction benefits of the Powdered Metal process with all the quality benefits of cut gears.



The T.C.E. of a typical P/M gear before and after the HP3™ process

Density Enhancement Near Part Surface:  
 Gear Tooth Density Map

