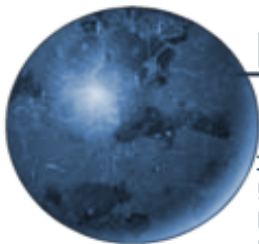


Nichroloy's Answer to Typical Arguments for Steel Forgings

03.06.03

<u>Typical Forging Claims</u>	<u>Vs. Average Steel Bars</u>	<u>Vs. Nichroloy</u>
Broader ranges of size and shape per material grade.	Steel bars products are limited by dimensions, while forgings can be manufactured to most shapes and greater size ranges. Forgings are at times the only available products in certain ranges.	Nichroloy is available in a wide range of sizes, and can be provided rough-turned and oversized to allow easy machining to desired dimensions.
Cleaner grain structure.	Due to machining processes, machined bars may be susceptible to irregularities in fatigue and corrosion. In many cases, forgings provide a uniform grain structure without yielding faults in strength, ductility and resistance.	The grain structure of Nichroloy is enhanced through Clean Steel Technology production standards, providing a clean, uniform pattern comparable to most forging standards, even exceeding many.
More efficient material usage.	Forgings do not come with the economic waste associated with many types of machining.	Rigid control standards allow Nichroloy to be easily machined without excessive waste.
Less scrap and more cost-effective production.	In most cases, forgings generate little scrap, having a cost advantage in production runs of high volumes.	With close tolerances furnished in the oversized condition, Nichroloy can be formed effectively and correctly the first time, eliminating scrap costs.
Fewer second tier operations needed.	Forgings rarely require additional operations to achieve desired strength, finish, dimensions, etc. (e.g. turning, grinding and polishing). These operations can be expensive.	Compared to the cost of forging, the additional machining costs on Nichroloy are minimal, while allowing a second phase of quality control. Whereas, a malformed forging can rarely be salvaged.

Nichroloy can efficiently replace many large shaft forgings. It is relatively inexpensive, easy to machine and available in stock in many sizes. Please inquire on how Nichroloy can improve your business with your local sales representative or contact the main office listed below.



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