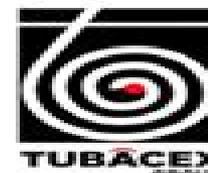


Analysis of different manufacturing routes for austenitic stainless-steel bars

Tubacex

Tubacex is a seamless steel manufacturer founded in 1963 and established in Bilbao, Spain. The company provides a wide range of innovative tubular solutions such as tubes, pipes, fittings and special components (tailor-made dimensions and designs). Tubacex gathers several companies located all around the world, allowing to get a leading position on many industries including oil and gas, power generation, petrochemical, fertilizers, aerospace, automotive and engineering. One of the most important asset of the group concerns the fully integrated production: bars production, hot and cold forming and distribution steps are all carried out by Tubacex.



Casting, forging and blooming operations carried out at Tubacex facilities

Customer

Tubacex, Spain
www.tubacex.com

Processes

Ingot casting, forging and blooming

Challenge

Analyze and compare the quality of two different manufacturing routes for austenitic stainless steel with new ingot design. Focus on porosity and strain results.

Solutions

Transfer THERCAST® results of the casting operation into FORGE® software for the forging and blooming operations.

Challenge

Tubacex wants to produce austenitic stainless-steel round bars with a new ingot design to meet high quality requirements, especially in terms of porosity and strain results. With this new ingot design, the productivity in terms of volume will be maximized.

The company has to choose between two different manufacturing routes to maximize the new ingot productivity and to achieve quality requirements. Each of the manufacturing routes begins with the casting operation of a 6,3 tons 316L stainless steel ingot. Then, the ingot is heated prior to the hot forming operation.

The hot forming operation consists in either a forging or a blooming process.

- Forging: it starts with a 340mm square section ingot alternatively held by a manipulator on each side. The ingot is deformed with a series of passes including multiple strokes between a hammer and the anvil. After several passes, the part is rotated by 90 degrees and hammered again before being reheated at the middle of the sequence. Another series of passes comes next until the workpiece presents a 270 mm octagonal cross-section.

THERCAST®
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Forging The Chain A Case Study

BM King



Forging The Chain A Case Study:

This book delves into Forging The Chain A Case Study. Forging The Chain A Case Study is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Forging The Chain A Case Study, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Forging The Chain A Case Study
 - Chapter 2: Essential Elements of Forging The Chain A Case Study
 - Chapter 3: Forging The Chain A Case Study in Everyday Life
 - Chapter 4: Forging The Chain A Case Study in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Forging The Chain A Case Study. This chapter will explore what Forging The Chain A Case Study is, why Forging The Chain A Case Study is vital, and how to effectively learn about Forging The Chain A Case Study.
3. In chapter 2, this book will delve into the foundational concepts of Forging The Chain A Case Study. The second chapter will elucidate the essential principles that need to be understood to grasp Forging The Chain A Case Study in its entirety.
4. In chapter 3, the author will examine the practical applications of Forging The Chain A Case Study in daily life. This chapter will showcase real-world examples of how Forging The Chain A Case Study can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Forging The Chain A Case Study in specific contexts. The fourth chapter will explore how Forging The Chain A Case Study is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Forging The Chain A Case Study. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Forging The Chain A Case Study.

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