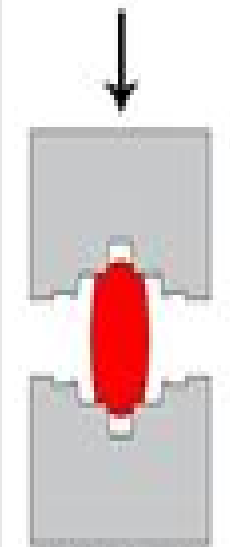
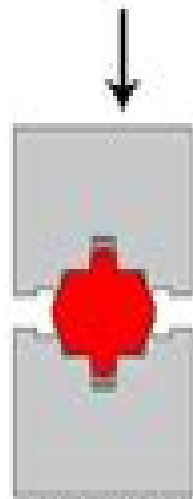


Three Methods Of Forging

Closed Die



Hot Metal Billet In Contact With Moving Die

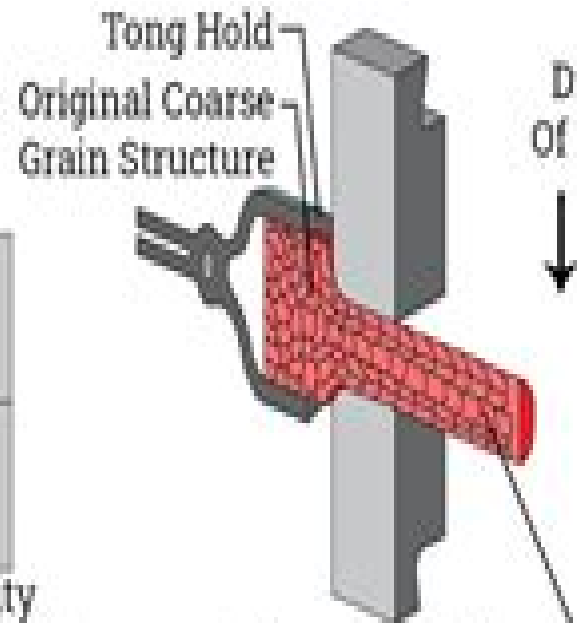


Restriction Of Lateral Flow Causing Cavity To Fill



Die Cavity Finally Filled

Open Die

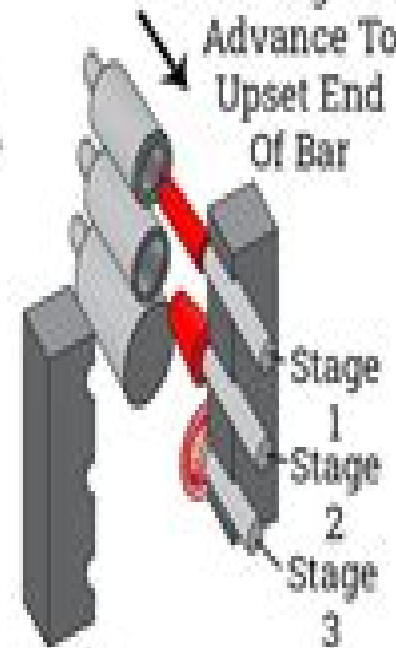


Tong Hold
Original Coarse Grain Structure

Direction Of Hammer Blow

Elongated Grains And Closer Grain Structure Improves Mechanical Properties

Upset Heading Tool Advance To Upset End Of Bar



Die Closes To Grip Bar

Aluminum Forging Design Guide

James M. Kyed, James M. Matarazzo



Aluminum Forging Design Guide:

Aluminum Forging Design Manual Aluminum Association, 1995 Forging Design Handbook S. A. Sheridan, American Society for Metals, 1972 The Handbook is intended to portray state of the art procedures and concepts available to the aerospace design community for the conversion of advanced performance requirements into designs for reliable high strength parts Author **Aluminum Forging Design Manual** Aluminum Association. Forgings Division, 1967

Aluminum Forging Design Manual, 1967 **Aluminum Forging Design Manual** Aluminum Association, 1967

Hot Deformation and Processing of Aluminum Alloys Hugh J. McQueen, Stefano Spigarelli, Michael E. Kassner, Enrico Evangelista, 2016-04-19 A comprehensive treatise on the hot working of aluminum and its alloys Hot Deformation and Processing of Aluminum Alloys details the possible microstructural developments that can occur with hot deformation of various alloys as well as the kind of mechanical properties that can be anticipated The authors take great care to explain and differenti NBS Special Publication, 1971 **An Index of U.S. Voluntary Engineering Standards** United States. National Bureau of Standards, 1971 *An Index of U.S. Voluntary Engineering Standards* William J. Slattery, 1971

Aluminum Standards and Data, 1977 **ASM Handbook** S. L. Semiatin, ASM International. Handbook Committee, 1990 These volumes cover the properties processing and applications of metals and nonmetallic engineering materials They are designed to provide the authoritative information and data necessary for the appropriate selection of materials to meet critical design and performance criteria **Aluminum Standards & Data**, 1974 Engineering Materials and Processing Methods, 1930 Issues for 1929 include section Contents noted 1929 1939 called Metallurgical abstracts Jan 1940 Sept 1945 called Engineering digest Oct 1945 called Materials beginning in 1942 included in the complete index to the periodical

Airframe Structural Design Chunyun Niu, Ch'un-yün Niu, 1988 Scientific, Engineering, and Medical Societies Publications in Print, 1980 **Michigan Purchasing Management**, 1969-03 Includes a list of members **Aluminum Now**, 2007 **Handbook of Workability and Process Design** George E. Dieter, Howard A. Kuhn, S. L. Semiatin, 2003 If you design evaluate or produce metal parts this is an indispensable reference on the principles and practices of workability evaluation and process design Workability is a complex technological concept that is related to both material and process characteristics and this book describes the underlying concepts and practical methods for effective design evaluation and optimization of bulk working operations such as forging rolling and extrusion The Handbook of Workability and Process Design includes updated content from a previous ASTM publication Workability Testing Techniques 1984 as well as substantial new coverage in the areas of process design numerical simulation and computer based modeling of testing and processing conditions Contents Introduction Overview of workability and process design Bulk working behavior of metals Evolution of microstructure during bulk working Workability testing techniques Bulk workability testing Cold upset testing Hot compression testing Hot tension testing Torsion testing to assess bulk workability Hot working simulation by hot torsion

testing Thermomechanical testing Process design and workability Design for deformation processes Workability theory and application in bulk forming processes Workability in forging Forging process design Modeling techniques in forging process design Data acquisitions and control Rolling Workability and process design in rolling Drawing Extrusion Workability and process design in extrusion and wire drawing Multidisciplinary process design and optimization Computer aided and multidisciplinary optimization of forging processes Microstructure driven computer aided process optimization Process design of gas turbine engine components using process optimization software Computer aided optimization to improve process engineering productivity for complex die and preform design and process control Index *Scientific, Technical, and Engineering Societies Publications in Print* ,1974 **Scientific, Technical, and Engineering Societies Publications in Print** James M. Kyed,James M. Matarazzo,1974

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