

AIFI

TECHNICAL JOURNAL 2022

The background of the cover is a dark blue-grey color. It features a complex, light blue-grey technical drawing or schematic. This drawing includes various elements such as concentric circles, radial lines, and detailed outlines of mechanical components, possibly gears or parts of a machine. The lines are thin and precise, giving it the appearance of a professional engineering or technical sketch.

AIFI

Association of Indian Forging Industry

TECHNICAL JOURNAL 2022

ASSOCIATION OF INDIAN FORGING INDUSTRY

Regd off: 101/112 Nyati Millennium, Off. Nagar Road,
Viman Nagar (Near Datta Mandir) Pune – 411014, INDIA
Telephone: +91-20-2663 4099/ +91-20-2663 4451 / +91-9322450873

WEBSITE:

www.indianforging.org

Foreword

To the reader of the journal,

Over the years, your Association has been publishing technical articles in its quarterly in-house magazine, Focus. And I am pleased to inform you that we have compiled a journal of all the technical articles that have been issued since 2019.

The Technical Journal 2022 is our minuscule effort to present our members with articles related to technological development under a single cover. The journal would also be available in the Publications Section on our official website-www.indianforging.org.

It is my sincere hope that this journal assists you in acquiring new Knowledge.

Thanking you,

On behalf of the Association of Indian Forging Industry

Trupti Vedpathak

Senior Manager

Contents

1. Development of Hot Forging Machinery Under the Industrialized Large-Scale Production Mode.....	4
<i>Mr. Jagen Zhong, China Forging Machinery Co., Ltd., China</i>	
2. Application and Development of Isothermal Forging Technology and Equipment Technology.....	11
<i>Mr. Will Tian, Tianjin Tianduan, China</i>	
3. Introduction of CNC Fully Hydraulic Closed Die Forging Hammer.....	15
<i>Anyang Forging Press Numerical Control Equipment Co., Ltd., China</i>	
4. The Right Drive Unit Every Time.....	21
<i>Mr. Martin Scholles, SMS group GmbH, Germany</i>	
5. Introduction of Power Supply And System Maintenance Cost Effective Preventive Maintenance.....	25
<i>Mr. Joe Stambaugh, Ajax TOCCO Magnethermic Corp., Ohio</i>	
6. Reducing Cost of Coolants, Lubricants, and Quenchants by Automatic Proportioning with Water.....	31
<i>Mr. Srikar Shenoy, Steel Plant Specialities, India</i>	
7. Can Forge Shops be Clean and Hygienic?.....	32
<i>Mr. Srikar Shenoy, Steel Plant Specialities, India</i>	
8. Reducing Fuel Consumption And Maintenance Cost in Furnace Operations.....	35
<i>Mr. S. P. Shenoy, Steel Plant Specialities, India</i>	
9. Cost Reduction in Hot Forging by the Use of Environment Friendly, Graphite-Free Water-Soluble Die Lubricants.....	42
<i>Mr. S. P. Shenoy, Steel Plant Specialities, India</i>	
10. Energy Efficiency Potential in Indian MSME Sector: Focus on Forging.....	51
<i>Mr. Hitesh Asnani, Mr. E Nand Gopal, Mr. Amit Seth, and Mr. Jayakrishnan P Nair, PWC, India</i>	