

In-process

Technology

Support

Iron Making:

- ▶ Sinter Bed Permeability Measurement and Control
- ▶ Online FeO Measurement in Sinter Plant
- ▶ Online sinter quality monitoring
- ▶ Online Raw Material Granulometry
- ▶ Burden Trajectory Measurement
- ▶ 3G stave thickness measurement
- ▶ Hearth thickness measurement
- ▶ Blast Furnace Productivity Improvement

Steel Making:

- ▶ EAF Operations and handling
- ▶ Mill-Scale and sliver Reduction
- ▶ Improve yield and strike rate
- ▶ Intelligent Quality Monitoring Systems

Rolling Mills:

- ▶ Reheating furnace energy optimization
- ▶ Mash Seam Welding Inspection system
- ▶ Defectology approach
- ▶ Waste utilization – LD and LF slag
- ▶ Fe alloy consumption optimization
- ▶ Productivity improvement initiatives
- ▶ Optimal chemistry for desired Steel specs

Plant Infrastructure:

- ▶ Greenfield and Brownfield Support
- ▶ Setting up Quality Assurance/Quality Control frameworks
- ▶ Establishing New Product Development process
- ▶ Technology consultancy
- ▶ Designing Application Engineering division

CONTACT DETAILS :

+91 92255 09992

consulting.tatasteel.com

tsic@tatasteel.com

Advanced Technical Support and Maintenance Offerings :

Advanced Technical Support to end-users

- **Vehicle Teardown Analysis – Auto OEMs:**

to identify the design strategy, material trend, manufacturing process, and compare the vehicle with another



- **Value Analysis and Value Engineering – Auto OEMs:**

to build mutually rewarding partnerships with customers in their journey toward reducing vehicle weight and cost



- **Welding**

Laser Welding, CMT, MIG, TIG Resistance Seam Welding, Flash Butt Welding, Self Piercing Rivet and Magnetic Pulse Welding



Maintenance Offerings to improve OEE

- **Maintenance Technology Roadmap**



- **Asset Management and Structural Integrity**



- **Condition Monitoring and AMDC (Asset Monitoring and Diagnostic Centre)**



MATERIAL TESTING

Sheet metal forming is one of the important processes used in the automotive industry. To design a robust forming process, it is important to know about the deformation behavior of steel sheets

- High Strain Rate testing
- Tensile Test
- Hole Expansion Ratio
- Uniaxial Tensile Test
- Fatigue
- Forming Limit Diagram:
- Friction Test:
- Static or Dynamic Dent Resistant Test

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