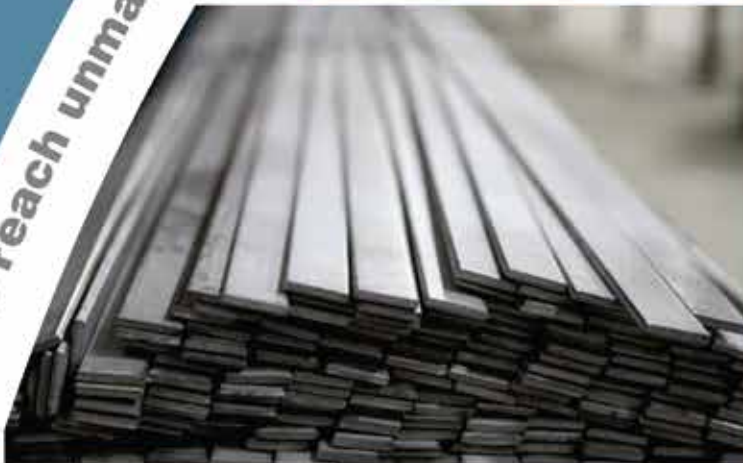




SUN FLAG STEEL

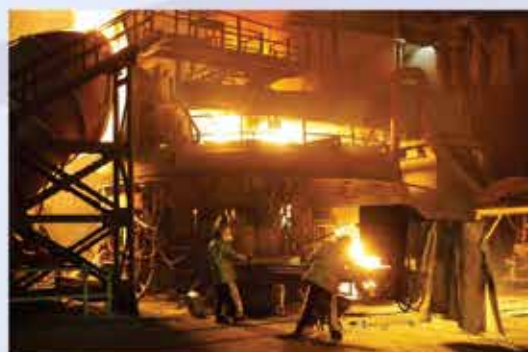
BIS Approved
NABL Accredited Chem & Mech Labs.
ISO 9001 & IATF 16949 Certified by UL DQS
ISO 14001 & OHSAS 18001 Certified by TUV Nord
AD 2000 Merkblatt WO /PED Certified by TUV Nord

To reach unmatched quality standards, one has to go through fire.

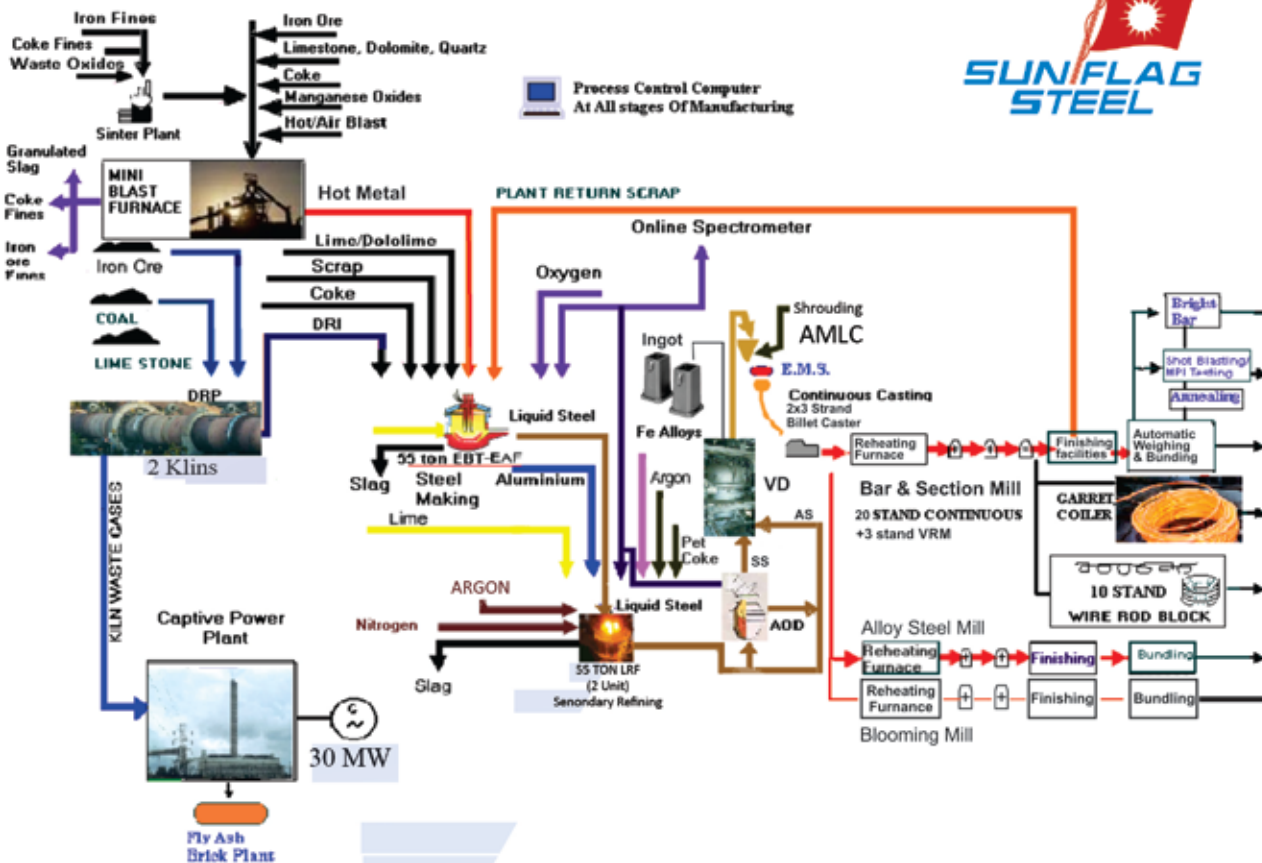


About

A mission and commitment to add qualitative value for enhanced customer satisfaction has been the guiding philosophy at the Sunflag Group which has a major presence in Kenya, Nigeria, Tanzania, Cameroon, Thailand, U.K., Canada & India. The well diversified group has interests in Steel, Synthetic Yarn, Fabric, Garments & Non-woven Textiles. With setting up of the one of most advanced composite steel plant in the world, Sunflag has revolutionized the steel industry in India. This plant has a capacity of producing 5,00,000 tones per annum of high quality rolled products of a varied product mix, including a wide range of Carbon Steels, Alloy Steels, Free Cutting Steels, Spring Steels, Stainless Steels, Bearing Steels, Cold Forging Steels, Engine Valve Steels, Microalloyed Steels & Value Added Steels. Sunflag's clientele includes original equipment manufactures in Automobiles, Railways, Defence, Forging and Bright Bar Industries.



Process Route



DRP : Direct Reduction Plant
 DRI : Direct Reduced Iron
 EAF : Electric Arc Furnace
 EBT : Eccentric Bottom Tapping

LRF : Ladle Refining Furnace
 AOD : Argon Oxygen Decarburisation
 VD : Vacuum Degassing
 EMS : Electro Magnetic Stirrer

AMLC : Auto Mould Level Controller
 VRM : Variable Reduction Mill
 AS : Alloy Steel
 SS : Stainless Steel

For downstream processing of hot rolled bars/coils, the following facilities are available

- Pickling / Phosphating • Normalising • Spheroidize Annealing • Hardening Tempering • Solution Annealing
- Bright Bar manufacturing by peeling, drawing & centreless grinding • Wire drawing

Research & Development :

R & D division of Sunflag Iron Steel Co. Ltd plays a pivotal role in retaining and consolidating Sunflags' leadership position in automobile industry.

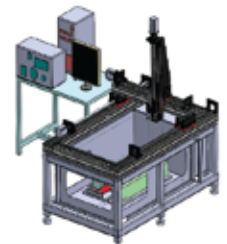
R & D focus on development of new steel grades, process improvement, continuous up-gradation of Quality, Customer Satisfaction through customized products matching with their specific requirement.

Sunflag R&D lab is equipped with following state of the art equipment:-

- Scanning Electron Microscope with Energy Dispersive X-Ray Spectroscopy (SEM-EDS) of Make - JOEL
- Immersion Ultrasonic Testing Facility of Make- Olympus/Blue Star
- Optical Microscope with Automatic Multiaxis Stage Movement and Image Analysis software
- Micro-hardness tester
- Ferritometer



SEM - EDS



Immersion UT



Phased Array Auto UT



MFLT

Online Inspection Facility :

● Phased Array Auto Ultrasonic Testing

Ultrasonic testing unit for round bars (15 to 120 mm size) base on phased array technology. It has great detection sensitivity with high detection repeatability of unique Olympus floating head concept that provides capability to detect defects smaller than SDH 0.5mm

● Magnetic Flux Leakage Testing (MFLT)

MFLT (make-Novaflux) is an automated flux leakage inspection system for ferromagnetic round bars (15 to 120mm size) to find longitudinal surface flaws using high energy alternating current magnetic leak fields.

● Eddy Current Testing (ECT)

Eddy current testing is a non destructive testing technique making use of electromagnetic induction to detect and characterize surface and subsurface flaws for bright bars.

Product Acceptance :

- GM, Volvo, Ford, Daimler, Tata Motors, Mahindra & Mahindra, Ashok Layland, Eicher Volvo, Force Motor, JCB
- Honda, Nissan, Maruti Suzuki, Hyundai, Fiat, Toyota, Lamborghini
- Bajaj Auto, TVS, HMSI, Yamaha, Hero, Suzuki, Royal Enfield
- Escorts, Jhon Dere, TAFE, Sonalika, New Holland
- Bosch, Sona Koyo, GKN, JTEKT, NHK, Meritor, TRW, Schaeffler, NBC, NTN, Sonic ZF, Nexteer, GNA, Graziano Oerlikon, Carraro, Sona BLW, Sundram Fastners, Musashi, Stumpp Schuele, Dana Copr., Denso
- BHEL, L&T, NTPC
- Indian Railways
- Defence (Ordinance Factory)



Competitive Advantage of Sunflag Products

FACILITIES

- 1 Inhouse manufacturing facility for DRI and Pig Iron
- 2 100% virgin material in charge mix
- 3 Steel making through Process control computers
- 4 Vacuum Degassing
- 5 Equipped with Mould Electromagnetic stirrer (EMS)
- 6 100% close casting facility from ladle to tundish and tundish to mould
- 7 Automatic mould level controller
- 8 Auto mould powder feeder
- 9 Foot EMS
- 10 Ingot Casting Facility
- 11 Duplex/Triplex process for stainless steel
- 12 Computer control heating and furnace Oxygen atmosphere in walking beam reheating furnace
- 13 Sophisticated PLC controlled 20 stand continuous mill with water quenching facility
- 14 Danieli make 3 stand VRM
- 15 Danieli make 10 stand block mill facility
- 16 Cooling bed fully covered for controlled cooling of rolled product
- 17 Rake type cooling bed
- 18 Cold shear equipped with mechanical gauge control
- 19 Cut length optimization through cooling bed computers
- 20 Marketing offices & stock yard are connected with plant by SAP
- 21 Sunflag online posting order on website and app

PRODUCT STRENGTH

- Reliable and dependable supplier
- Consistency in input material quality
- Products with very low tramp elements and free from radioactive contamination
- Close chemistry range with high repeatability
- Reduction in gas level & improved cleanliness of steel
- Improved cleanliness
- Free from central segregation, piping, central porosity and minimum columnar structure, Enhanced mechanical properties
- Controlled Hardenability Band
- Cleaner steel due to absence of reoxidation
- Ensure high integrity of chill zone in the cast billet / bloom assuring high degree of surface and subsurface soundness
- Improved surface quality of billet
- Reduction in carbide segregation in bearing steel
- To produce high alloy steel & rolled product with high reduction ratio
- Very low gas levels in stainless steel
- Uniform temperature in billet, minimum decarburisation in rolled product
- Good size control for defect free rolling by controlling inter stand tension
- VRM ensures close dimensional tolerance of 1/4 th of standard DIN 1013 or 60% IS 3739 .Assurance of minimum size variation along the length of bar.As per customer's urgency , size changing flexibility helps in minimising changeover time.
- Good size control and effective temperature control in finish product and uniform control cooling
- Controlled 'As rolled hardness' and controlled grain size of rolled products
- Assured straightness of rolled products
- Fixed length product
- Minimisation of short length generation
- Effective monitoring of progress on order execution
- Customer can track order status at any time on app.

QMS Certification and Approvals

The guiding Philosophy in Sunflag Steel is enhancing customer satisfaction through continual improvement. To continuously achieve higher level of performance in these areas sunflag had adopted and effectively implemented various Quality Management system.

QMS Standards Certified	Standard Scope	Certification Body
ISO 9001	Quality Management Systems	UL DQS , Germany
IATF 16949	Global Automotive Quality Management Systems	UL DQS , Germany
ISO 14001	Environment Management Systems	TUV Nord, Germany
OHSAS 18001	Occupational Health & Safety Management Systems	TUV Nord, Germany
AD 2000 - Merkblatt WO / PED	QA System for Material Manufacturer as per Pressure Equipment Directives 97/23/EC & AD 2000 - Merkblatt WO	TUV Nord, Germany
NABL (National Accreditation Board for Testing & Calibration Laboratories)	Sunflag Chemical & Mechanical Laboratories certified by NABL.	NABL India

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