

About

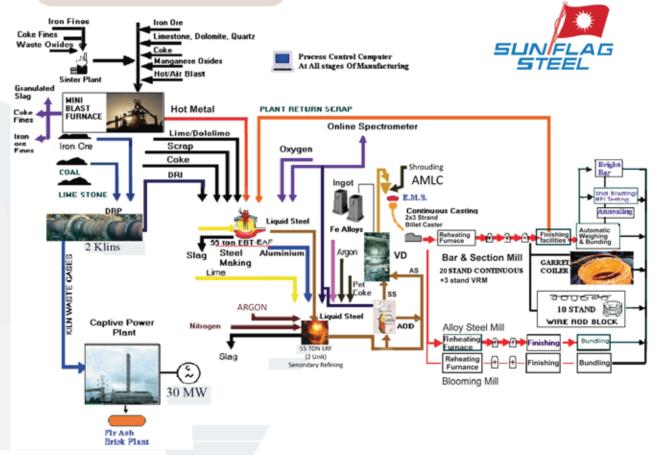
A mission and commitment to add qualitative value for enhanced customer satisfaction has been the guiding philosophy at the Sunflag Group which has a major presence in Kenya, Nigeria, Tanzania, Cameroon, Thailand, U.K., Canada & India. The well diversified group has interests in Steel, Synthetic Yarn, Fabric, & Non-woven Textiles. With Garments 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 • Spherodize Annealing • Hardening Tempering • Solution Annealing

Bright Bar manufacturing by peeling, drawing & centreless grinding
 Wire drawing

Sunflag Product Range

Ingot size & WT.	Billet/Bloom size	Rolled Product		Bright Bar	
		Shape	Size Range	Type	Size Range
540 x 700 x 1700 - 5T	130 x 130 mm	Straight length rounds	15-350mm dia	Peeled &	5-100 mm dia
480 x 637 x 1700 - 4.2 T	160 x 160 mm	Straight length Hexagons	15.5-42mm A/F	ground bars	J-100 mm dia
402 x 500 x 1700 - 3T	210 x 232 mm	Wire rod rounds	5.5-38mm	Drawn &	(2/1
323 x 412 x 1700 - 2.7T	240 x 280 mm	Wire rod hexagon	13.5-25.5 A/F	ground bars	6-34mm dia
290 x 445 x 1700 - 1.8T	280 x 320 mm	Round corner squares	40-350mm	Drawn/	5 to 30mm
		Flat (Width/Thickness)	50-150/5-34 mm	SAPPD wires) to John

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.



SEM - EDS

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

- Scanning Electron Microscope with Energy Dispersive X-Ray Spectroscope (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



Immersion UT

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



Phased Array Auto UT

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.



MFLT

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, Schaefller, 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 Vaccum 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 Consistancy 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 remperature in billet, minimum decarburisation in rolled product

Good size control for defect free rolling by controlling inter stand tension

VRM ensures close dimensional tolerence of 1/4 th of standardDIN 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 Accereditation Board for Testing & Calibration Laboratoies)	Sunflag Chemical & Mechanical Laboratories certified by NABL.	NABL India



WORKS

Bhandara Road Bhandara-441905 Maharashtra, India Ph. No. (07184) 285551-285555 Fax: (07184) 285570 email: admin@sunflagsteel.com

DELHI OFFICE

D-47, Defence Colony, 2nd floor, New Delhi-110024 Ph. No. (011) 49576030/6040/4650 email: delhioffice@sunflagsteel.com

FARIDABAD OFFICE

Plot No. 12, Sector-6
Mathura Road, Faridabad
Contact Person: Mr. S. Sanjeev
Ph. No.: (0129) 2311116/7/2
Mobile No.: 8527096700
Fax No.: (0129) 4061646
email: s_sanjeev@sunflagsteel.com

CHENNAI OFFICE

705, 7° Floor, Challamall,
11/11A Sir Thiagaraya Road,
T Nagar, Chennai - 600017
Contact Person: Mr. T.M. Elango
Ph. No.: (044) 24342262 - 63
Mobile No.: 9840744474
Fax No. (044) 24347649
email: tm_elango@sunflagsteel.com

BANGALORE OFFICE

138-A, 8th Main Road, 3rd Phase, Peenya Industrial Area, Bangalore-560058 Contact Person : Mr. C.V. Prasanna Ph No. : (080) 28391568

MUMBAI OFFICE 307, Hamilton - B,

Ghodbunder Road, Thane (West) - 400607 Contact Person : Mr. S. K. Chanda Ph. No. : (022) 25862294 Mobile No. : 09323221481 email: chanda@sunflagsteel.com

Hiranandani Business Park,

REGD. OFFICE:

33, Mount Road, Sadar, Nagpur-440001

Ph. No.: +91(0712) 2524661 / 2532901, email: jsingh@sunflagsteel.com Web Site: www.sunflagsteel.com

PUNE OFFICE

Office No. 65 - 69 5th Floor, Sai Kripa Bhavan, Pune Mumbai Highway, Opp. KSB Pump, Survey No. 5743, Kharalwadi, Pimpri, Pune - 411018 Contact Person : Mr. S.K.Chanda Ph. No. : (020) 2424685 Mobile No. : 09323221481 email: chanda@sunflagsteel.com

CENTRAL & ESTERN OFFICE

33, Mount Road, Sadar,

Nagpur-440001 Contact Person : Mr. Ashutosh Rakhade

Ph. No. : +91 (0712) 2524661/2532901 Mobile No. : 09923356632 email: amrekhade@sunflagsteel.com

FOR EXPORT ENQUIRIES

33, Mount Road, Sadar, Nagpur-440001 Contact Person: Mr. Prasanna Rout Ph. No.: + 91 (0712) 2548104, Mobile No.: +91 9372496588 email: prasanna_rout@sunflagsteel.com



FOLLOW US



sunflagsteel sunflagsteel.com

