



KALYANI
DRIVING INNOVATION

KALYANI STEELS LTD



www.kalyanisteels.com



COMPANY PROFILE



PHILOSOPHY

“ To use our specialized skills and innovative technology to contribute to the welfare of society. It is our intention to grow along with our employees and to aid and encourage them to participate in our goals in order that they realize their full potential. ”

B. N. Kalyani

Group Chairman

Kalyani Steels was established in 1973 as a part of Kalyani Group.

With four decades of experience in Alloy Steels, we have acquired for ourselves, the status of preferred supplier for leading national and international OEMs in the space of Automotive, Engineering, Energy, Aluminium Smelting, Defence and so on.

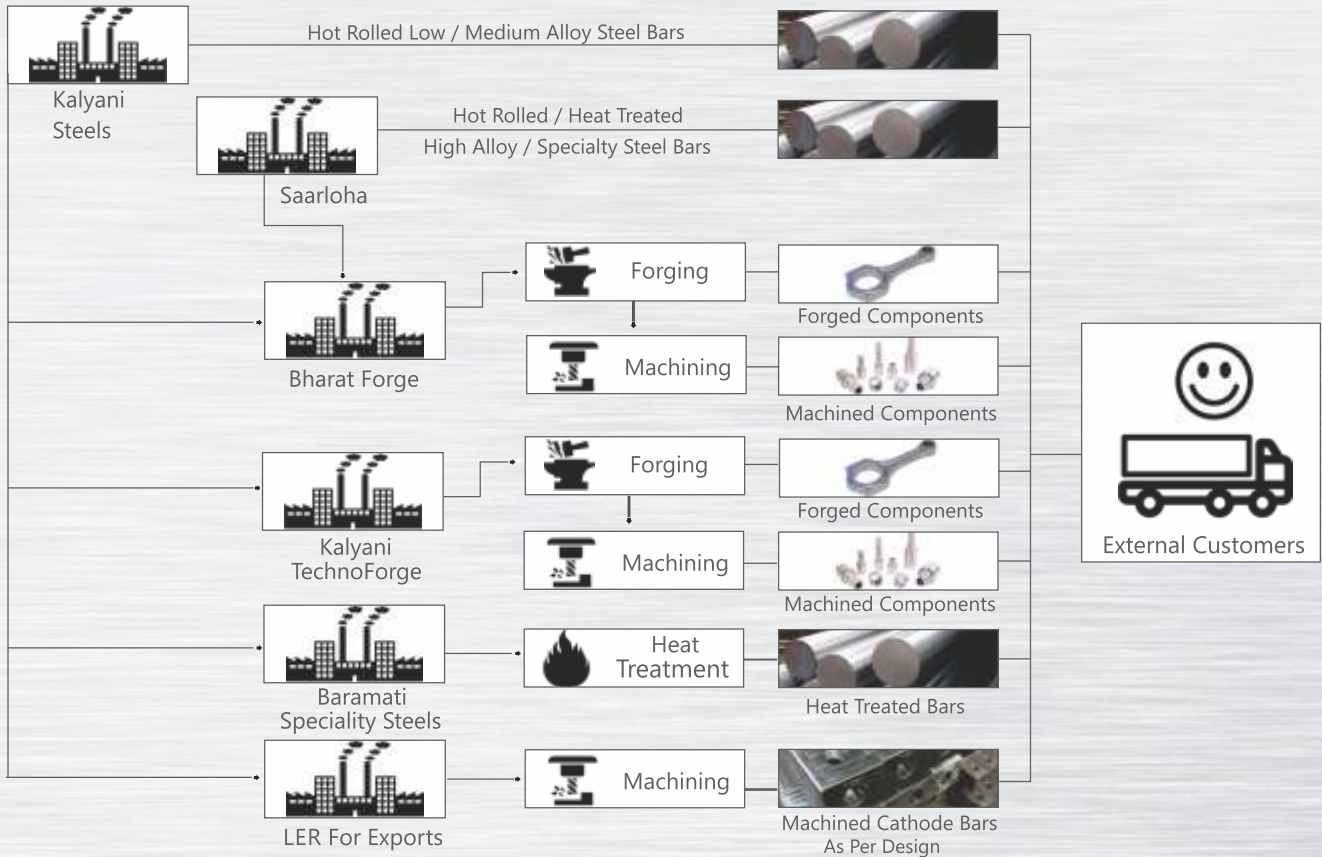
Kalyani Group, established in mid 1960s, now stands strong and diversified across Speciality Steels, Automotive & Engineering Forgings, Urban Infrastructure, Renewable Energy and Speciality Chemicals, with end-to-end capabilities and manufacturing footprint across India, Germany, Sweden and China. This \$ 3 Billion group has joint ventures with some of the world leaders such as Meritor (USA), Maxion Wheels (Brazil) and Alstom (France).



Kalyani Group As One Stop Shop

The group's capabilities can offer the customers end-to-end solutions - from steel production (raw materia) to forging & machining (component).

Spanning The Steel Value Chain



Quality Assurance

Kalyani Steels takes utmost pride in a well earned record for supply of clean steels and reliable deliveries . Use of captive iron ore and coke enables to achieve low levels of tramp elements, resulting in clean steel, necessary for various critical applications in automotive and engineering industries. Computerized control at various stages in steel making gives an assurance of consistent product quality.

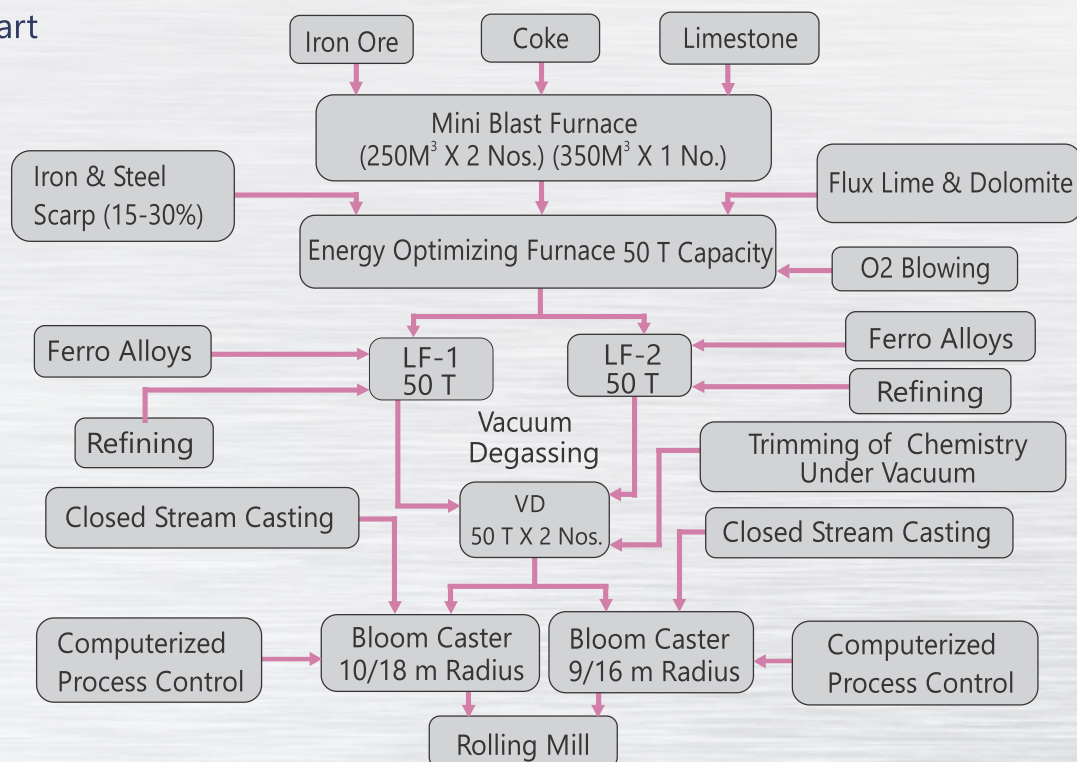
Every customer order is first evaluated by technical services cell. This Cell sets the production standard after considering the technical parameters. This detailed well- documented production quality standard is scrupulously followed at every stage of manufacturing. Further it is coupled with process control as well as level 2 Automated production facilities. Special requirements can also be tailor made.

Quality testing system comprises modern equipment such as metallographic microscope with image analyzer, X-ray fluorescence instrument, electron emission spectrometer, Gas analyzers, Automatic ultrasonic testing machine, magnetic particle inspection and mechanical & chemical testing.

Kalyani Steels Advantage

- Business partner to leading automobile manufacturers.
- Fully integrated operations.
- Clean steel manufacturing and reliable deliveries

Flow Chart



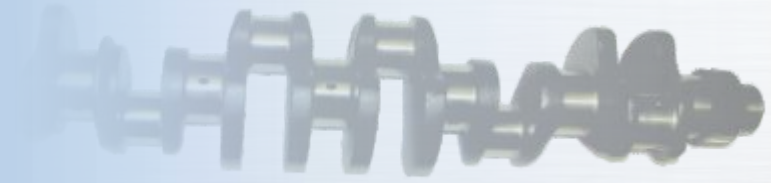
Automatic UST (Phase Array) Inspection Line (20 -130 mm) Round & (45 -130 RCS)

Equipment Type	Ultrasonic Testing Machine (Phase Array)
Make	Olympus NDT , Canada
Size	Round bars - 20 mm to 130 mm Rounds & 45 mm to 130 mm RCS Length - 3 meters and more
Test Frequency	5.7 MHz
Probe Size	Each element size - 0.6 to 0.8mm, Total 128 elements in each probe
Speed	0.5 - 1.5 meters / sec - for SDH method 0.1 - 1.5 meters / sec - for FBH method
Defect detection Sensitivity	SDH - 0.5 (capability down to 0.3mm, 0.5mm x 15mm Length) FBH - 0.7 to 1.5mm

Automatic MFL Inspection Line Round Bar (45 -130mm)

Equipment Type	Magnetic Flux Leakage
Make	Pruftechnik NDT GmbH
Size	20 mm to 130 mm diameter Length up to 6 meters
Frequency	7 Khz (Typically 6 KHz)
Speed	Up to 2.4 m/sec max
Defect detection Sensitivity	Depth - 0.30mm - in hot rolled black bar (Capability down to 0.15mm) Depth - 0.10mm - in peeled bar

All material inspected through above are Shot blasted and Machine Straightened with 2 mm / meter (0.2%) straightness [Capability up to 1 mm / meter]



Product Sizes

As Cast Billets / Blooms - Rounds -	125 X 125, 160 X 160, 200 X 200, 240 X 280 mm 160, 200, 220 mm Diameter
As Rolled Rounds	30, 32, 34, 36, 38, 40, 42, 45, 48, 50, 53, 55, 56, 58, 60, 63, 65, 68, 70, 75, 80, 83, 85, 90, 95, 97.5, 100, 105, 115, 117.5, 120, 125, 130, 135, 160 mm
Round Cornered Squares (RCS)	50, 55, 60, 63, 65, 70, 75, 85.90, 95, 100, 103, 110, 118, 125, 130, 136, 140, 147, 150, 160, 180 mm
Rectangles	160 X 70, 180 X 80, 160 X 140, 150 X 100, 150 X 190, 170 X 130, 170 X 140 mm

Note : Special requirements can also be accepted on mutual agreement.





Product Category and Applications

Automotive :

Engine components (Crankshaft, Camshaft, Connecting Rods), Axle Beams, Transmission Components, Steering Knuckles, Bearings.



Oil & Gas and Energy :

Seamless Tube applications for High Pressure Boilers, Oil Lines, Casing and Tubing Pipes for Oil Exploration.



Aluminium Smelting :

Low Electrical Resistivity Cathode Collector Bars, for consistency even at elevated temperatures (800OC).



Defense :

Bomb Shells and Barrel Applications, Components for Heavy vehicles.



Categories	Forging Quality	Carbon, High Carbon, C-Mn, Cr, Cr-Mn, Cr-Mo, Cr-Mo-B, Cr-V, Cr-W, Mn-N2, Ni-Cr-Mo, Micro Alloyed
	For Seamless Tube	ASTM-A213-T11/T12, SA210Gr.A1/C, SA192, SA106Gr.C, SAE1010, SAE4042, MSL-I/IA/II/IV/7/8, BS3059, Gr440, SAE1537(V), SAE52100, SKFGrd3
	For Cathode Bar	ASTM-A36, ASTM-A663, Gr60, LER, SAE1006/8
	Spring Steel	65Si7, 50CrV4, 58CrV4, 65Si7, SUP7, SUP9, SUP12V, SAE 9254



Steels Commonly Manufactured for Forging Applications

CATEGORY	SPECIFICATION				GENERAL APPLICATION
	AISI/SAE	DIN	B.S	JIS	
Plain Carbon Steel	1010	Ck10	En 2A	S10C	Gears, Hub front axel beam, Spindle wheel, Spindle, Spindle housing, R. A. Shaft, Camshaft
	1015	Ck15	En 32B	S15C	
	1025	Ck25	En 3B	S25C	
	1035	Ck35	En 8, En 8A	S35C	
	1045	Ck45	En 43B	S45C/S48C	
	1055	Ck55	En 9	S55C	
	1065	Ck65	En 43D	S58C	
Carbon + Manganese Steel	1541, 1548, 1043M	28Mn6/30Mn 5/40Mn4	En 15/A	SMn420H/SM n443H	Steering knuckle, Crankshaft, Front axle beam, Axle arm
Semi free cutting & free cutting steels	1137, 1141, 1212	28Mn6/30Mn 5/40Mn4	En 15AM		Fastners
Carbon + Manganese + Titanium + Steel				SS4510	R. A. Tubes
Chrome + Manganese Steel		16MnCr5		SCR415, SUM420,	Stub axle, Axle arm, Transmission Gears
		20MnCr5			
Chrome + Nickel Steel	1320	15CrNi6	En 352		
Low Carbon Chrome + Nickel Moly Steel	8822H				Differential bevel gear, Crown Wheel/ Pinion, Drill bits, Piston pins
	8620 8622	21NiCrMoV5H	En 353, En 354, En 355	SNCM420H,	
	4320	17CrNiMo6	En 361, En 362, En 36C En 363		
Chrome Steel	5130	34Cr4,40Cr4B/ C,41Cr4	En 18A, En 18C	SCR435	Front axle beam, Crank shaft, Steering knuckle, Connecting rod
	5137H				
	5140	39Cr5 41Cr4		SCR440	
Chrome + Moly Steel	4130	25CrMo4	En 19C	SCM440H	Crank shaft, Steering knuckle, MCA knuckle, Stub axle, Rocker lever forging, Spigot
	4135	34CrMo4		SCM435 SCM420	
	4140	42CrMo4	En 19B		
Medium Carbon + Chrome + Nickel + Moly Steel	4340		En 24	SCM431, SCM439 SCM447	Input shaft
Bearing Steel	SAE52100	100Cr6, SKF Grd3	En 31	SUJ1, SUJ2	Bearing races and rolling elements
Spring Steel	SAE5160		En 45A	SUP6, SUP7, SUP9, SUP11,	Leaf spring, Helical springs
Boron Steel	94B17, 15B25, 15B41	20MNCr5B		SCRB435, S48C(M)	Crown wheel & Pinion, Links Bushes, Pins
	ASB43				
Micro Alloyed Steel	V2904, V2903, 38MnVs6Ti, 38MnSiVs5, SHAEM105, C38+N2, 46Mn5, 38MnS6, 15V24, C70S6, 44MnSiVs6, SAE1538MV				Front axle beams, Crank shaft, Connecting rods, Case differentials



ACCREDITATIONS



**BUREAU
VERITAS**

IATF 16949



**BUREAU
VERITAS**

ISO 14001: 2015



**BUREAU
VERITAS**

OHSAS 18001: 2007



**BUREAU
VERITAS**

ISO 9001: 2015



NABL

ISO/IEC 17025:2005



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