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# Unfolding Our Story

Quality at Baheti Silicones and Metals pvt. Itd. is not just plant and machinery. It is an everyday discipline. It is technology shaped in experience. It is an attitude that masters the challenges of growth and change. Change in consumer's perception about product and new aspiration arising from a highly volatile ends changing market.





# Our maestro



Rajesh Baheti Managing Director



Sanjay Baheti Managing Director



Satyadeo Purohit
Technical Director



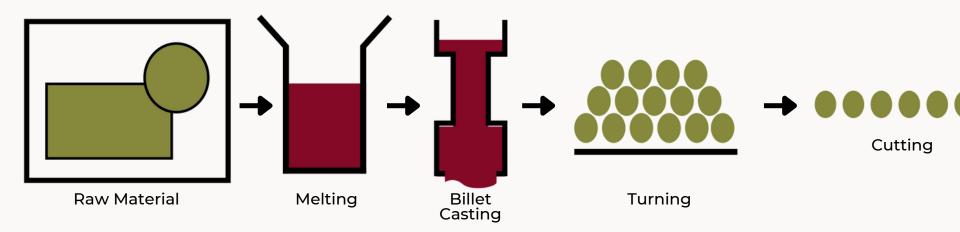
Vedant Baheti Marketing Director

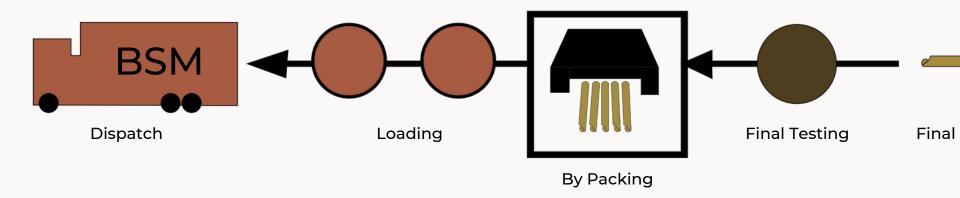


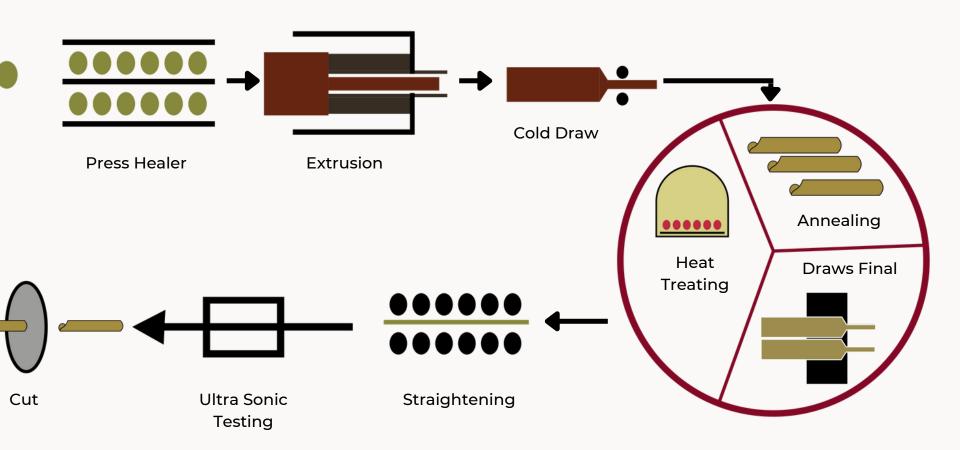
Shridhar Baheti Marketing Director

They are the power source that drives the energy of BSM. They are involved in planning, implementing, and integrating the strategic direction of the organization. They have always been passionate about finding smart ways and innovative ideas for the growth of the company as well as delivered best quality products for the customers.

2011	2014	2016
Started in 2011, with only one melting furnace and semi continuous casting machine to produce cast and machine rods.	Started production in 2014 and gradually added various alloys and customers indigenously.	To up-lift plant and product range added hot extrusion and cold drawing plant with heat treatment facilities.
2019	2021	2022









**Casting Process** 



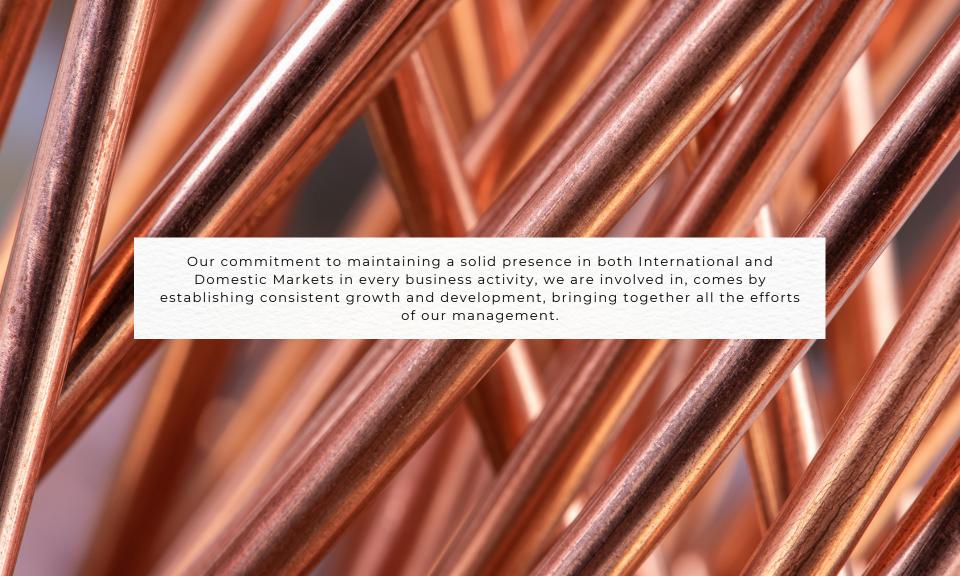
**Draw Bench Section** 

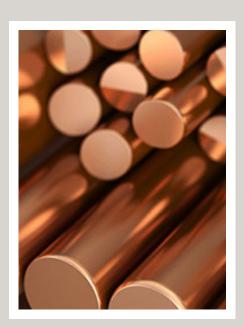


**Extrusion Process** 



Final Inspection





### COPPER

A soft, malleable, and ductile metal with very high thermal and electrical conductivity. Copper is used as a conductor of heat and electricity, as a building material, and as a constituent of various metal alloys.

# **ALUMINIUM BRONZE**

Aluminium bronze is a type of bronze in which aluminium is the main alloying metal added to copper, in contrast to standard bronze (copper and tin) or brass (copper and zinc).

# COPPER NICKEL

An alloy of copper that contains nickel and strengthening elements, such as iron and manganese. The copper content typically varies from 60 to 90 percent.

# SILICON BRONZE

Silicon bronze offers added strength in conjunction with the self-lubricity of silicon for excellent bearing and load properties. This is especially useful when silicon bronze is used for bearing cages, raceways and spaces specifically for the aerospace industry.

# Continuous casting



# PHOSPHORUS BRONZE

Phosphorus bronze is a member of the family of copper alloys. It is composed of copper that is alloyed with 0.5–11% of tin and 0.01–0.35%.

# **GUN METAL**

Gunmetal, also called G Metal, variety of bronze, formerly used for ordnance. Modern admiralty gunmetal is composed of 88 percent copper, 10 percent tin, and 2 percent zinc and is used for gears and bearings that are to be subjected to heavy loads and low speeds.

## LEADED BRASS

Lead brass is used for its high machinability and atmospheric corrosion resistance. The machinability of brass is increased by the addition of lead because it acts as a microscopic chip breaker and tool lubricant. The leaded brasses are used for copper base screw machine material. The alloys have excellent machinability, good strength and corrosion resistance.

# Copper

Copper					
Tellurium Copper	C14500	C109	CW118C		
Sulphur Copper	C14700	C111	CW114C		
Cadmium Copper	C16200	C108	-		
Chromium Copper	C18200	CC101	CW105C		
Leaded Copper	C18700	-	CW113C		
Copper Chromium Zirconium	C18150	CC102	CW106C		
Copper Nickle Silicon Chromium	C18000	-	CWIIIC		
Copper Zirconium Cobalt Chromium	C17500	C112	CW101C		
Copper Zirconium	C15000	-	CW120C		

Round			Н	Hex		Square	
Extruded & Drawn	Extruded	Cast & Turned	Extruded & Drawn	Extruded	Extruded & Drawn	Extruded	
6MM To 80MM	>80MM To 120MM	100MM To 500MM	10MM To 100MM	>75MM To 100MM	10MM To 75MM	>75MM To 100MM	
6ММ То 80ММ	>80MM To 120MM	100MM To 500MM	10MM To 100MM	>75MM To 100MM	10MM To 75MM	>75MM To 100MM	
6MM To 80MM	>80MM To 120MM	100MM To 500MM	10MM To 100MM	>75MM To 100MM	10MM To 75MM	>75MM To 100MM	
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6MM To 80MM	>80MM To 120MM	100MM To 500MM	10MM To 100MM	>75MM To 100MM	10MM To 75MM	>75MM To 100MM	
6MM To 80MM	>80MM To 120MM	100MM To 500MM	10MM To 100MM	>75MM To 100MM	10MM To 75MM	>75MM To 100MM	

# Copper nickel

Copper Nickle				
90/10 Cu Ni	C70600	CN102	CW305H	
70/30 Cu Ni	C71500	CN107	CW307H	

Round		Hex		Square		
Extruded & Drawn	Extruded	Cast & Turned	Extruded & Drawn	Extruded	Extruded & Drawn	Extruded
15 MM To 80 MM	>80MM To 100MM	100MM To 500MM	20MM To 75 MM	>75MM To 100MM	20MM To 75MM	>75MM To 100MM
15 MM To 80 MM	>80MM To 100MM	100MM To 500MM	20MM To 75 MM	>75MM To 100MM	20MM To 75MM	>75MM To 100MM

# Aluminium bronze

Aluminium Bronze						
Al. Bronze 1 C62300 CA103 CW305G						
Al. Bronze 2 C63000 CA104 CW307G						

Round		Hex		Square		
Extruded & Drawn	Extruded	Cast & Turned	Extruded & Drawn	Extruded	Extruded & Drawn	Extruded
8 MM To 60 MM	>60MM To 100MM	80MM To 500MM	20MM To 60 MM	>60MM To 80MM	10MM To 50MM	>75MM To 100MM
8 MM To 60 MM	>60MM To 100MM	80MM To 500MM	20MM To 60 MM	>60MM To 80MM	10MM To 50MM	>75MM To 100MM

# Silicon bronze

Silicon Bronze					
Low Silicon Bronze	C65100	-	CW109C		
High Silicon Bronze	C65500	-	-		
Aluminium Silicon Bronze 1	C64200	CA107	CW302G		
CUN12Si	C64700	-	CWIII		

Round			ŀ	lex	Square	
Extruded & Drawn	Extruded	Cast & Turned	Extruded & Drawn	Extruded	Extruded & Drawn	Extruded
10MM To 80MM	>60MM To 100MM	80MM To 100MM	15MM To 75 MM	>75MM To 100MM	15MM To 75MM	>75MM To 100MM
10MM To 80MM	>60MM To 100MM	80MM To 100MM	15MM To 75 MM	>75MM To 100MM	15MM To 75MM	>75MM To 100MM
10MM To 80MM	>60MM To 100MM	80MM To 100MM	15MM To 75 MM	>75MM To 100MM	15MM To 75MM	>75MM To 100MM
10MM To 80MM	>60MM To 100MM	80MM To 100MM	15MM To 75 MM	>75MM To 100MM	15MM To 75MM	>75MM To 100MM

# Continuous casting products

Phosphorus Bronze					
95/5	PB102	C52100	C451K		
92/8	-	-	-		
90/10	-	PB-1	-		
88/12	-	PB-2	-		

Round	Hollow	Hex	Square
10MM To 300MM	10MMID - 130MMOD	10MM To 80MM	15MM To 75MM
10MM To 300MM	10MMID - 130MMOD	10MM To 80MM	15MM To 75MM
10MM To 300MM	10MMID - 130MMOD	10MM To 80MM	15MM To 75MM
10MM To 300MM	10MMID - 130MMOD	10MM To 80MM	15MM To 75MM

Gun Metal				
85/5/5/5	LG-2	-	-	
85/7/3/3	LG-4	-	-	

Leaded Brass					
C31400	-	-	-		

Round	Нех	Square
10MM To 300MM	10MM To 80MM	15MM To 75MM
10MM To 300MM	10MM To 80MM	15MM To 75MM
10MM To 300MM	10MM To 80MM	15MM To 75MM



### A. RAW MATERIAL PREPARATION MACHINES: 1. Bailing press 2. Hand magnet and scraping tools

- B. MELTING: 1. Coreless medium frequency melting furnace with two pots.
- 350 KW, 500 HZ, DUAL TRACK.
- 2. Coreless medium frequency furnace 100 KW with 500 HZ
- C. CASTING: Direct Chill type semi continuous casting machine duly PLC controlled.
- Can cast from 100 mm to 500 mm diameter up to length 3.0 meter but max weight 1.0 ton
- D. CONTINUOUS CASTING: From 15 mm to 135 mm diameter solid, 7 mm and above thickness with 130 mm outer diameter hollow and 7 mm and above thickness with 125 mm width flats.
- E. BILLET CUTTER
- F. BILLET SAWING MACHINES
- G. LPG GAS FIRED BILLET HEATER
- H. HOT EXTRUSION: Hot extrusion press of capacity 1800 ton/250 ton piercing fully PLC controlled.
- I. PICKLING: Acid tank and heating further rinsing tank.
- J. POINTING MACHINES: Two swaying and four roller pointer with one flat pointer.
- K. COLD DRAWING: Two cold drawing draw benches with 100 ton and 50 ton pulling load,
- L. STRAIGHTENING AND LENGTH CUTTING: Two roll concave/ convex type and multi roll round straightening machine up to 110 mm, square/ hex/ rectangular bar multi roll straightening machine
- M. HEAT TREATMENT FURNACE: 120 KW up to 900 deg centigrade and 2 ton per batch with auto heat treat cycle control system via PLC

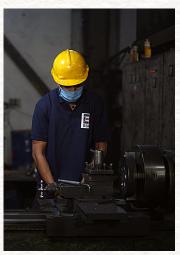














- 1. Emission type spectrometer CCD base
- 2. Electrical conductivity meter.
- 3. Ultrasonic testing machine.
- 4. Dye penetration tester.
- 5. Macro etching testing facilities.
- 6. Universal testing machine (tensile strength, yield strength, proof strength, % elongation, compressive strength, bend test, shear strength stc-40 ton.
- 7. Vickers cum brinell hardness tester.
- 8. Rockwell hardness tester, HRF, HRB, HRC
- 9. Impact strength testing machine.
- 10. Metallurgical microscope.
- 11. Fracture testing machine.
- 12. Mercurous nitrate testing facilities.
- 13. Ammonia vapor testing facilities.
- 14. Dezincification testing facilities.
- 15. Dimensional cheking equipments like verniers, micrometers etc.











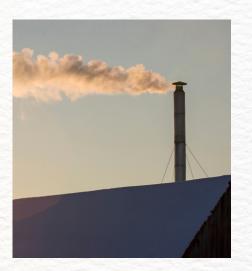






# Solar Energy

At BSM, we believe that energy is both an enabler and a bottleneck for business growth. While it largely remains as an inimitable resource, the demand-supply deficit may cause hiccups in the long-term business continuity. Over the years, we have been successful in improving our energy productivity by investing in energy efficient processes and practices.



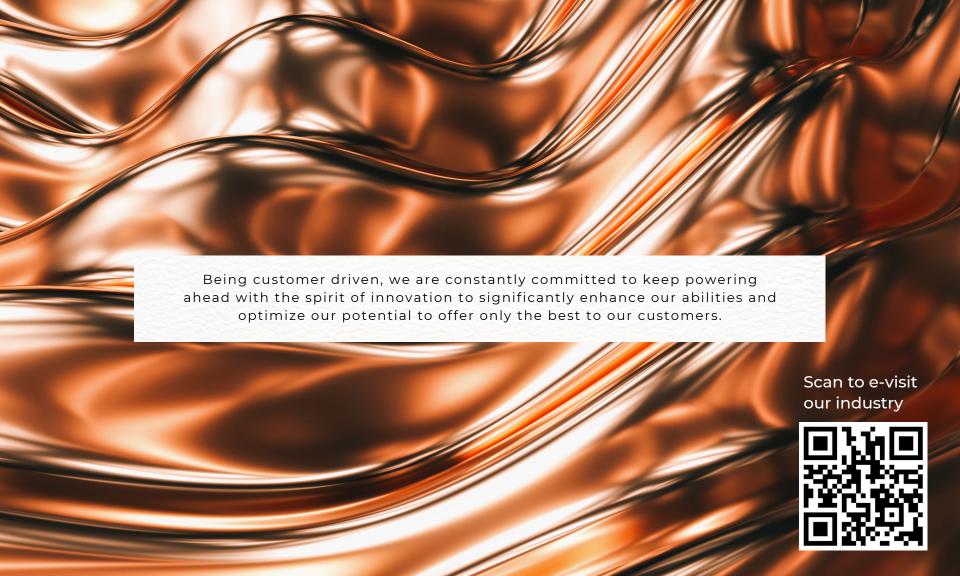
# Water Plant

Efficient treatment & recycling mechanisms Well-thought-out conservation projects. We understand that water is not something that can be completely substituted in the manufacturing process in the foreseeable future, but it can be consumed more judiciously and responsibly.



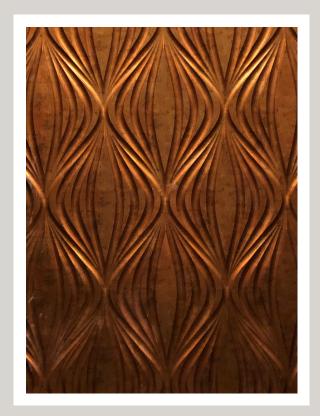
# Air Purifier

The implications of use, overuse, and abuse of energy are not just hindering the environment but also the business and the society. With implanted white smoke chimney in the premises, that purifies more than 80% of the fumes coming out of the industry.



# handmade in India

What is beautiful is increasingly difficult to come by in a world where a premium is placed on speed, and things are made to be disposable. We often sacrifice real craftsmanship at the altar of expediency. While we are still capable of recognizing the value of something that has been expertly constructed, we often choose the cheap and easy option instead. Here at BSM, we focus on workforce ability and perfection.

















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