



مصنع سهيل للبرونز ذ.م.م
SUHAIL BRONZE FACTORY W.L.L



COMPANY PROFILE



His Highness Emir of The State of Qatar
Sheikh Tamim Bin Hamad Al-Thani



His Highness The Father Emir
Sheikh Hamad Bin Khalifa Al-Thani

Sheikh Khalid Bin Ahmed Bin Mubarak Al Thani

Chairman

‘Qatar has successfully solidified its position as one of the most resilient, diverse, and competitive economies in the region.’

This is in line with the approach set by His Highness the Amir Sheikh Tamim Bin Hamad Al-Thani, to achieve Qatar’s National Vision 2030, which aims to transform Qatar into an advanced country, capable of sustaining its own development and providing a high standard of living for all its people for generations to come.

Qatar has worked on balancing its strategies and plans to promote comprehensive development by embracing integrated economic policies that raise the contribution of the non-hydrocarbon sector to GDP.

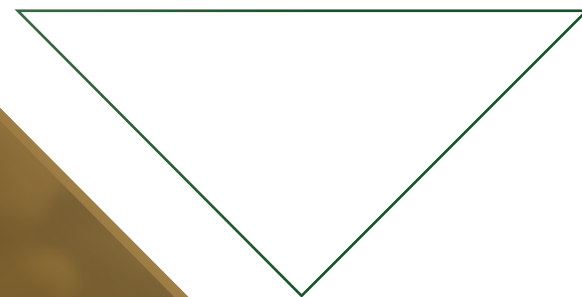
Qatar also continues to focus on the energy sector as an important source of national revenue while channeling these revenues into supporting all economic sectors and transforming national industries and trade sectors into active partners in achieving the objectives of its National Development Strategy.

Along these lines, **SUHAIL INDUSTRIAL HOLDING GROUP**, which is considered the first of its kind in the country, has prioritized the development of a favorable business to meet the needs of the country and build a strong production base that will achieve balanced economic growth for Qatar.



ABOUT THE GROUP

Suhail Industrial Holding Group, Qatar's leader in industrial products, technology, and services, is providing the most innovative industrial solutions from Qatar to the rest of the world.

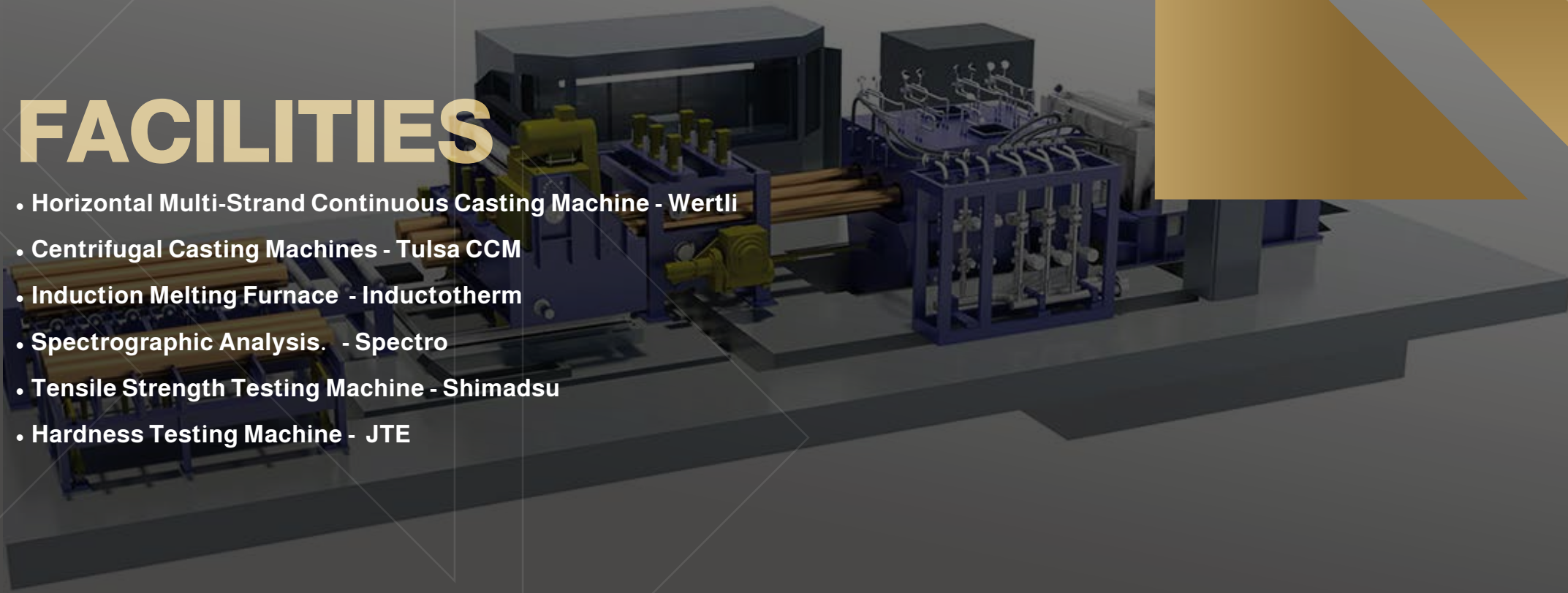


ABOUT US

SUHAIL BRONZE FACTORY is one subsidiary of Suhail industrial holding group. Which is manufacturing continuous cast bronze including square, round, hexagonal, solid and hollow bar/ tubes .

FACILITIES

- Horizontal Multi-Strand Continuous Casting Machine - Wertli
- Centrifugal Casting Machines - Tulsa CCM
- Induction Melting Furnace - Inductotherm
- Spectrographic Analysis. - Spectro
- Tensile Strength Testing Machine - Shimadsu
- Hardness Testing Machine - JTE



WHAT WE DO?

SUHAIL BRONZE FACTORY is having two Horizontal multi-strand casting lines & Horizontal Centrifugal Casting equipment for bars, tubes and profiles made of Copper-Base Alloys. Covering an area of 5000 M², Suhail Bronze Factory, is capable to produce up to 12,000 Tons/ Annum.

ADVANTAGES OF CONTINUOUS CASTING PROCESS:

1. Reduced machining allowance
2. Higher machining speeds
3. Reduced tool wear
4. Excellent mechanical properties
5. Homogeneous close-grain structure

► WHY WE ARE THE BEST:

SUHAIL BRONZE FACTORY is a part of Suhail Industrial Holding Group, which gives us access to other state of the art factories and service companies. Where we all team up to produce quality products in a timely and cost-effective manner:

- ¶ **Scrap Processing Factory.**
- ¶ **Recycling and base material preparation.**
- ¶ **Design, Research, and Development Facilities (SEI).**
- ¶ **CNC machining Facilities (SEI).**
- ¶ **Local & International Logistics Services (SUHAIL GLOBAL).**

In addition, having proximity and immediate access to the world through Hamad Port & Qatar Airways cargo warehouses.





► VISION

To be a leading global manufacturer and dependable partner for our clients, offering engineered goods and solutions.

► MISSION:

- Supporting Qatar's social and economic development.
- Improve local content by transferring technologies and developing human capital.
- Assist in the development of oil and gas, water, and other prospective industrial projects proactively involved with our major stakeholders.
- Taking care of our people, our community, and the environment.
- Focus on operational excellence in engineered product manufacture

► OUR PHILOSOPHY IS TO:

- 1) Engage motivated, high-quality people.
- 2) Provide high-quality equipment and tools for our employees.
- 3) Enable people to make decisions about their area of responsibility.
- 4) Step away from them and let them do their job.
- 5) Provide training and advice where appropriate.
- 6) Provide opportunities and encourage self-development.
- 7) Provide a clean and safe workplace.

▶ PRODUCT RANGE AND SPECIFICATIONS:

Copper Alloys	ASTM	Related Standards		Nominal Chemical Composition %									Mechanical Properties		
	UNS/CDA	EN 1982	EN	Cu	Sn	Pb	Zn	Ni	Al	Fe	Mn	Bi	TS/ksi	YS/ksi	EI %
Aluminium Bronze	C95200	CuAl10Fe2	CC331G	87.8	.....	.....	.....	.....	9	3.2	.....	.....	68	26	20
	C95300	CuAl9	CC330G	88.8	.....	.....	.....	.....	10	1.2	.....	.....	70	26	25
	C95400	CuAl11Fe4		85.2	.....	.....	.....	.....	10.8	4	.....	.....	85	32	12
	C95500	CuAl10Fe5Ni5	CC333G	81	.....	.....	.....	4.2	10.8	4	.....	.....	95	42	10
Tin Bronze	C90300	.....	.....	87.5	8.2	.....	4	.....	.....	.....	.....	.....	44	22	18
	C90500	.....	.....	87.5	10	.....	2	.....	.....	.....	.....	.....	44	25	10
	C90700	CuSn10	CC480K	89	11	.....	.....	.....	.....	.....	.....	.....	40	25	10
Leaded Bronze	C83600	CUSn5ZnPb5	CC491K	85	5	5	5	.....	.....	.....	.....	.....	36	19	15
	C84400	.....	.....	80	2.9	7	8.5	.....	.....	.....	.....	.....	30	15	16
	C93200	CuSn7ZnPb	.....	83	6.9	7	3	.....	.....	.....	.....	.....	35	20	10
	C93700	CuSn10Pb10	.....	80	10	9.5		.....	.....	.....	.....	.....	35	20	6
Manganese Bronze	C86200	CuZn25Al5Mn4Fe3	CC762S	63	.....	.....	25	.....	4	3	3.8	.....	90	45	18
	C86300	.....	.....	63	.....	.....	25	.....	6.2	3	3.8	.....	110	62	14
	C86500	CuAlZn37Al1	CC766S	57.5	.....	.....	39	.....	1	1.2	0.08	.....	70	25	25
Lead-Free Bronze	C89320	.....	.....	89	6	0.05max	.....	.....	.....	.....	.....	5	35	18	15

Note: Other ASTM B505 copper alloys will be available upon customer request.



Cast Products Size Ranges and Tolerances

Con Cast Products	Size	Minimum	Maximum	Standard Length	Rods & Tubes Tolerances			Rods & Tubes Tolerances	
					Size (mm)	OD	ID	Dimension	OD
Round Solid bars	O.D.	20mm	200 mm	3000 mm					
Round Tubes	O.D.	25 mm	200mm	3000 mm	< 50	+1.5 mm	-1.5 mm	<100 mm	+2.0 mm
	I.D.	Min. 6 mm wall thickness			50-90	+1.8 mm	-1.8 mm	100- 150 mm	+2.5 mm
Strip Bars	Width	50mm	350mm	3000 mm	>90-120	+2.2 mm	-2.2 mm	>150-350 mm	+3.0 mm
	Thickness	10mm	50mm		>120-150	+2.5 mm	-2.5 mm	Note: Final Cutting length as per customer requirement.	
Hexagon	AF	22 mm	60 mm	3000 mm	>150-170	+2.75 mm	-2.75 mm		
Centrifugal Cast Tubes	O.D.	200 mm	635 mm	2000 mm	>170-200	+3.15 mm	-3.15 mm		
	I.D.	Min. 6 mm wall thickness			>200-635	+5.0 mm	-5.0 mm		

BRASS ALLOYS

ALLOYS	ASTM	Related Standards		Chemical Composition %				
		JIS	EN	Cu	Pb	Fe	Fe+Sn	Zn
Brass Alloys	UNS							
Free Machining Brass	C36000	C3601	CW614N	59.0-63.0	1.8-3.7	0.3 max	0.5 max	Rem
		C3602		59.0-63.0	1.8-3.7	0.5 max	1.2 max	Rem
		C3603		57.0-61.0	1.8-3.7	0.3 max	0.6 max	Rem
		C3604		57.0-61.0	1.8-3.7	0.5 max	1.2 max	Rem
Forging Brass	C37700	C3771	CW617N	57.0-61.0	1.0-2.5	.....	1.0 max	Rem

Brass Products Size Ranges and Tolerances					
Con Cast Products	Size		Standard Length	Tolerances	
	Minimum	Maximum		Size (mm)	OD
Rods/Billets	80 mm	200 mm	3000 mm	>80-120	+2.5 mm
				>120-150	+3.0 mm
				>150-170	+3.25 mm
				>170-200	+3.50 mm

▶ PRODUCT GALLERY:



Round / Flat bars



Pipes/Bushes



Machined/Finished Products



Machined/Finished Products



Rods/Tubes/Hexagonal/ Billets



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