



مصنع سهيل للبرونز  
SUHAIL BRONZE FACTORY

f @suhailindustries

# COMPANY PROFILE

# 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.

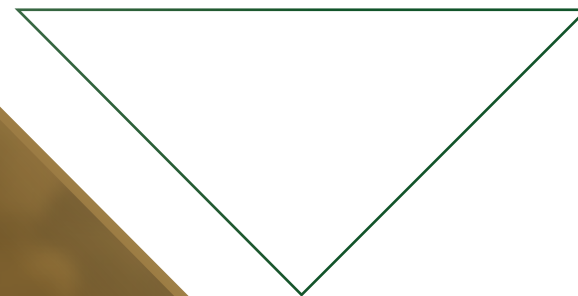
Qatar also continues to focus on the energy sector as an important source of national revenue while channeling these revenues into supporting all economic sectors and transforming national industries and trade sectors into active partners in achieving the objectives of its National Development Strategy.

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.



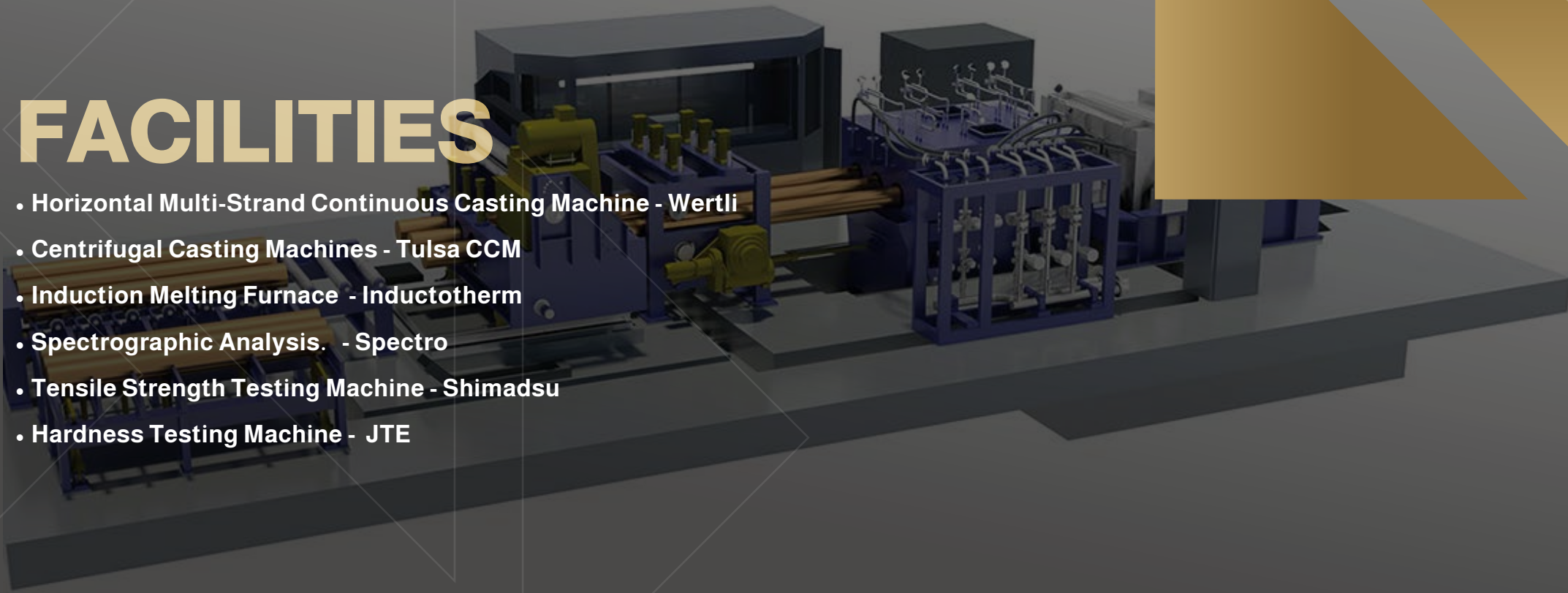


# ABOUT US

**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 - Shimadzu
- 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 M<sup>2</sup>, Suhail Bronze Factory, is capable to produce up to 14,400 Tons/ Annum.

## ADVANTAGES OF CONTINUOUS CASTING PROCESS:

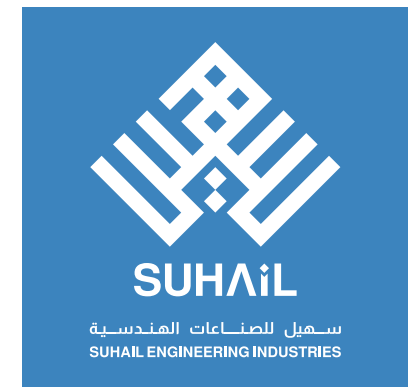
1. Reduced machining allowance
2. Higher machining speeds
3. Reduced tool wear
4. Excellent mechanical properties
5. Homogeneous close-grain structure

# ► 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  |
| <b>Brass Alloys</b>         | UNS    | JIS               | EN     | Cu                     | Pb      | Fe      | Fe+Sn   | Zn  |
| <b>Free Machining Brass</b> | 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 |
| <b>Forging Brass</b>        | C37700 | C3771             | CW617N | 57.0-61.0              | 1.0-2.5 | .....   | 1.0 max | Rem |

| <b>Brass Products Size Ranges and Tolerances</b> |         |         |                 |             |          |
|--|---------|---------|-----------------|-------------|----------|
| Con Cast Products                                | Size    |         | Standard Length | Tolerances  |          |
|  | Minimum | Maximum |                 | Size ( mm ) | OD       |
| <b>Rods/Billets</b>                              | 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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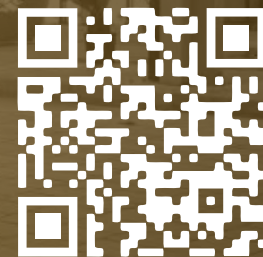
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