



# THE DEFINITION OF **HIGH END CASTING**





## ABOUT

**OMAN ALUMINIUM CAST LLC (OAC)** produces its products exclusively using horizontal continuous casting process. (HSG) This process enables high quality, contemporary and economical production with an international quality standard according to DIN EN ISO 9001.

OAC is strategically located to Sohar Aluminium Smelter and international port in Sohar in Oman. Oman is considered one of world's safest countries and with a secure energy supply.

**OAC focuses on the following product groups.**

- **Al CAST PLATES** / Slabs
- **Al FORGING MATERIAL** / Billets
- **Al CAST MATERIALS** / Ingots
- **AL BUSBARS**

OAC is capable to special customer requirements and needs with our in-house alloy development and mould designing and manufacturing.





# KEY FIGURES

- Founded/erected: 2008, revamped 2016
- **Revenues:** ~50 Mio USD (depending on LME)
- **Private owned company**
- **Products: (AL)** Busbars, primary foundry alloys/ingots, slabs and billets.  
**Maximum capacity: ~ 40,000 To** per annum depending on product mix.
- Other capabilities or services offered: Mould designing and fabrication, metal cutting and machining of bus bars.
- **Strategically located close to Sohar International port. Access to global market.**





# SKILLS AND EQUIPMENT

- **Experienced top class experts** on alloying and horizontal continuous casting of Aluminium products.
- **State of the art spectroscopy** (chemical composition) with all necessary standards.
- **Physical laboratory**
- **Own mould technology**, development and manufacturing (by Lefebvre Engineering)
- Quality standards: **ISO 9001:2015, ISO 14001:2015 & OHSAS45001:2018**
- **2 tiltable 50 ton chamber furnaces** (see Picture 1), gas fired with melt treatment by pouring stones.
- **1 horizontal continuous caster** with format thickness up to **320 mm x width max 2.200 mm** (see Picture 2).
- **1 horizontal continuous caster** with format thickness up to **500 mm x width max 1.400 mm** (see Pictures 3).



Picture 1



Picture 2



Picture 3



## OAC PRODUCT SPECIFICATIONS

### ALUMINIUM BUSBARS

- OAC has two horizontal casters which are capable of casting maximum cross sections.
- OAC Busbars are produced with low Hydrogen content (quantified by Density Index – DI) and superior electrical conductivity (measured by IACS).
- Maximum length up to 15 m (or even longer per request).

### ALUMINIUM INGOTS

- OAC focus is HDCC grade primary foundry alloys, especially those with low Fe content, ranges from 0.06..0.12 wt% Fe.
- Even ultra-low Fe alloys are feasible down to an Fe content of up to 0.04 wt% Fe.
- Any desired specification from foundry primary alloys to hypereutectic AlSi alloys, bright or refined with Na or Sr can be offered.
- Bars with standard cross-section 92.30 x 47.8 mm in desired lengths are available.

### ALUMINIUM SLABS

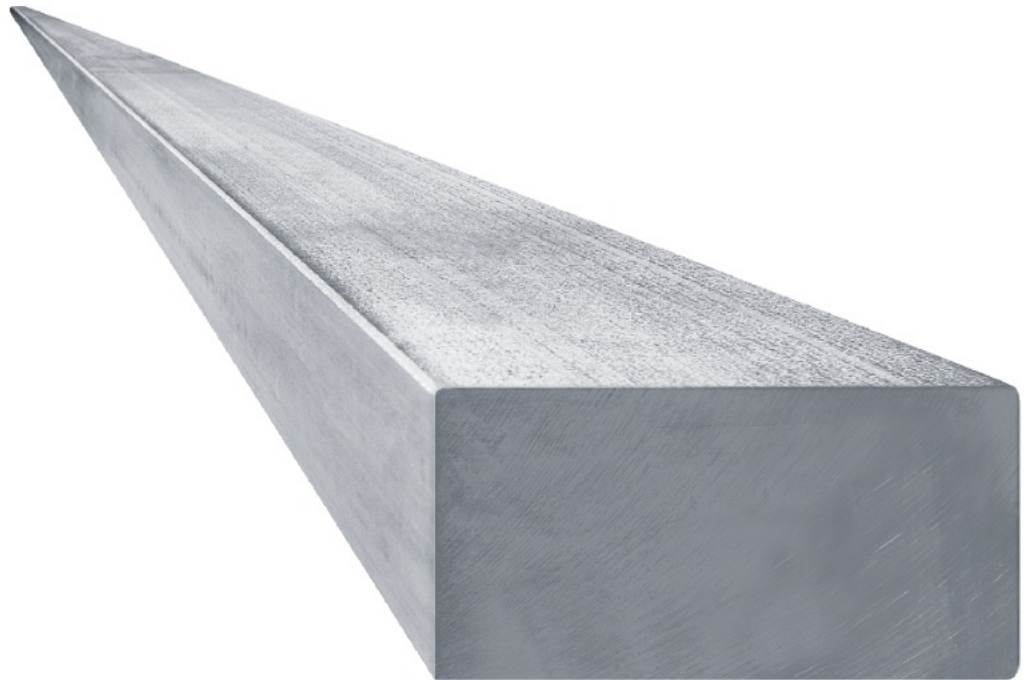
- Our Slabs are manufactured exclusively using the horizontal continuous casting process and we request the following alloys.
- 5083, 5754, 6101, 7021, 1050, 1350, 1370, 4043, 5005, 5052, a.o.
- Slabs with standard cross-section 1575 x 300mm in desired lengths are available.

### ALUMINIUM BILLETS

- Our billets for extrusion and forging are produced using the horizontal continuous casting process and delivered in homogenised condition.
- Hard alloys, high-gloss qualities, a variety of diameters and highly flexible delivery times are ideal foundations to be able to offer not standard quality but most of all customer specific solutions.
- Range of alloys: Pure Aluminium, AlCu, AlMn ,AlSi, AlMg, AlMgSi, AlZn
- Diameter available: 40mm – 216mm



## CAST MATERIALS BUSBARS



Best electrical conductivity resistance and a distinct welding tendency are the prerequisites for optimal function. The horizontal continuous casting process and the usage of high purity aluminum alloys guarantee that our busbars meet all the requirements.



## CAST MATERIALS INGOTS

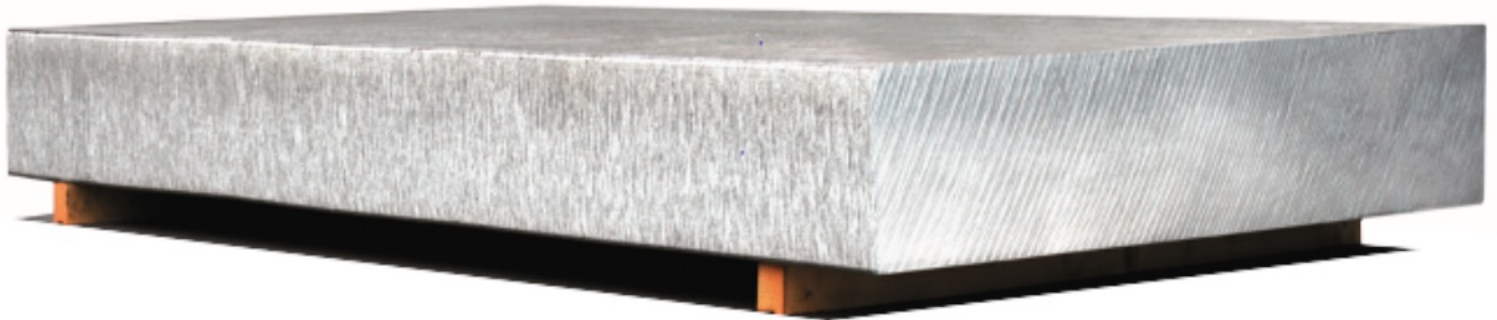


OAC produces multiple sizes of horizontally cast ingot for remelting purpose with particular focus on “specialized” foundry alloys.

OAC is capable to cast aluminium alloys with very low Iron (Fe) and impurity contents, and depending on customers remelting technology, an improved yield of 1-2% (\*) can be achieved compared to standard ingots due to reduced burn-off and dross.



## CAST PLATES SLABS



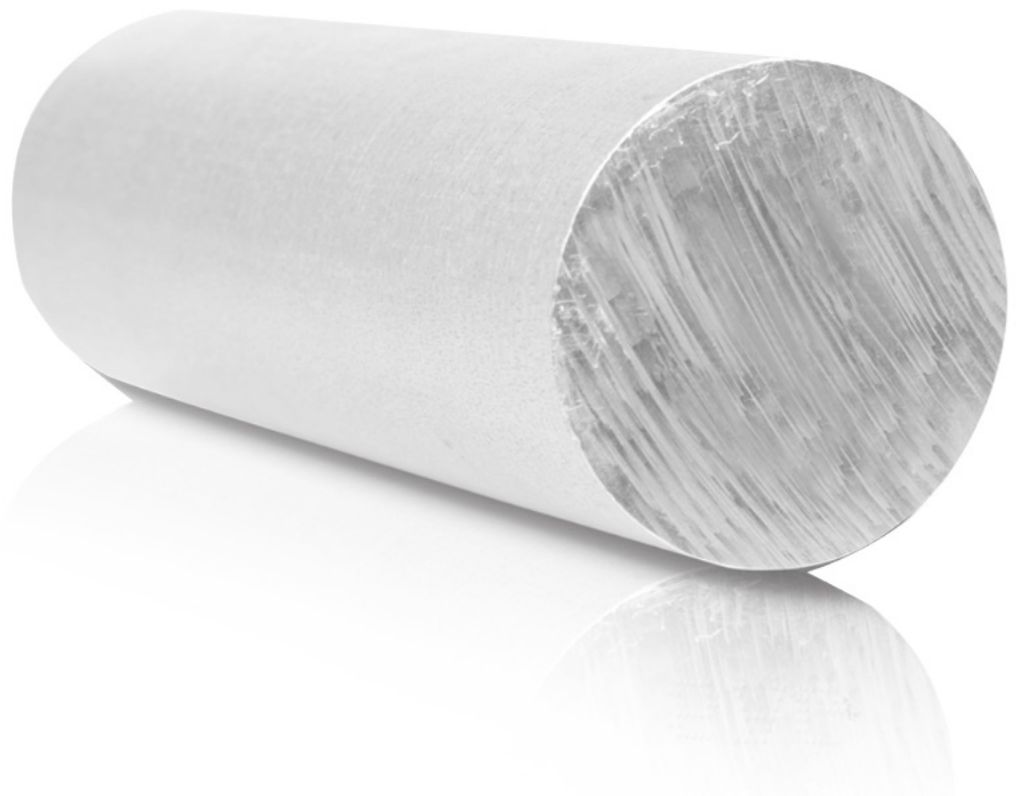
OAC's cast plates feature optimal mechanical and technical properties, ensured by the horizontal continuous casting process: high strength, low stress, excellent dimensional stability, as well as a superb workability. Thus, our cast plates allow easy anodizing, welding, and machining (for HCS machining).





CAST  
MATERIALS  
FORGING  
BILLETS

EXTRUSION  
BILLETS



Any profile in the automotive industry, in construction or mechanical engineering is only as good as the material it is made of.

OAC's extrusion billets are produced exclusively by the proven horizontal continuous casting process. All alloys produced by OAC are characterized by the best functionality, a high surface quality, and consistent mechanical and physical properties.



SCAN ME

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