



Saudi Aluminium Casting Foundry

المصبك السعودى لصب الألمنيوم



SAUDI ALUCAST

The Aluminium Foundry is established in Madina Munawwarah, aligned with the VISION 2030 of Saudi Arabia to cater for the increasing demand of casted parts in the local, regional and global markets.

ALUCAST, a Joint Venture between Obeikan Glass Company and Al-Esra Aluminium aims to produce high-quality castings and machined products for defence, aerospace, automotive and industrial sectors.

- The primary objective of the project is to build a facility which is capable of producing High quality engineered parts to serve local and international industrial sectors.
- Major and potential customers are Armed Forces, oil field, automotive, and aerospace sectors.
- The project is planned for a capacity of 5,000 Tons per year of high quality products.

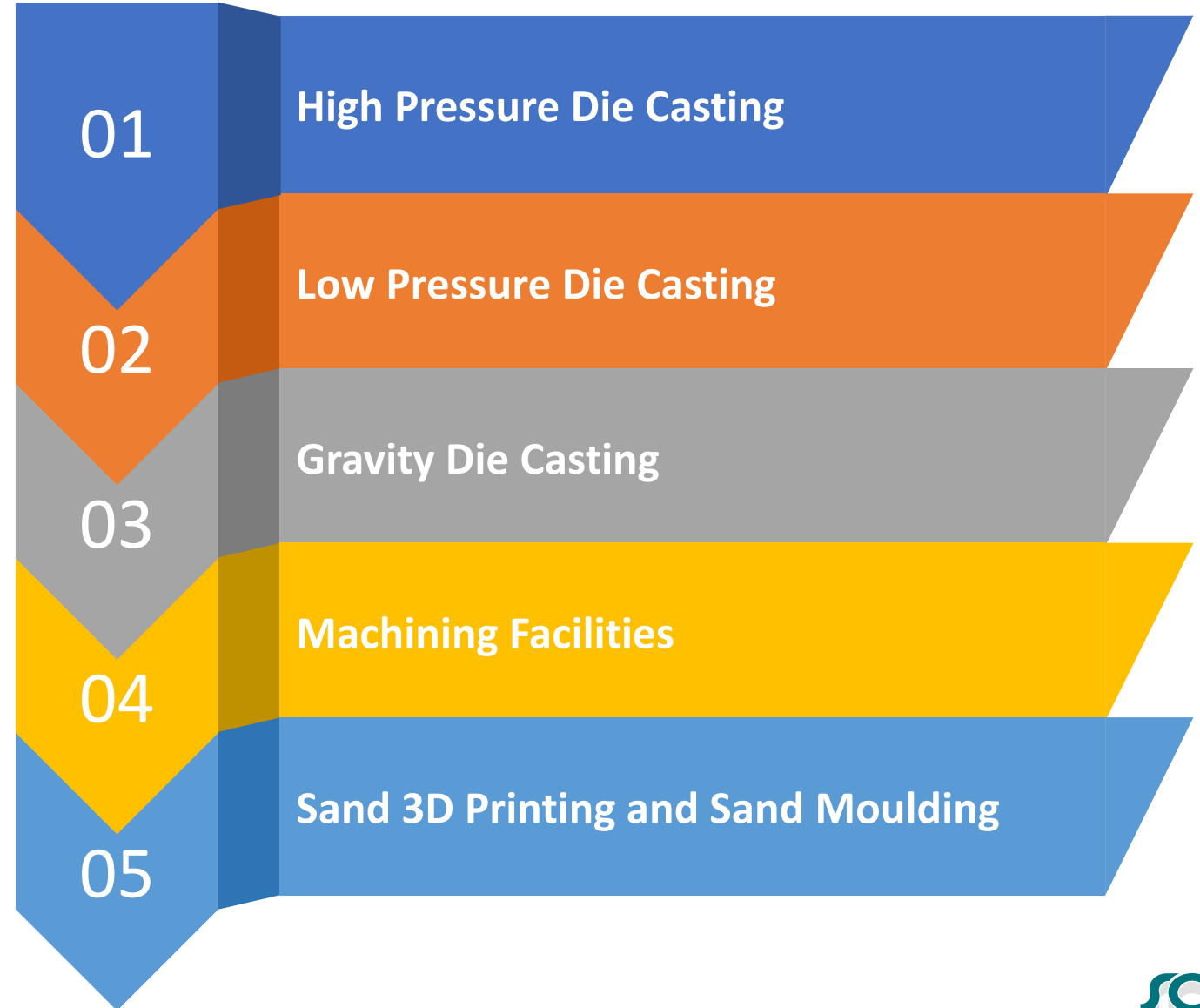


Project Plans

The Project has been Planned to be executed in two phases:

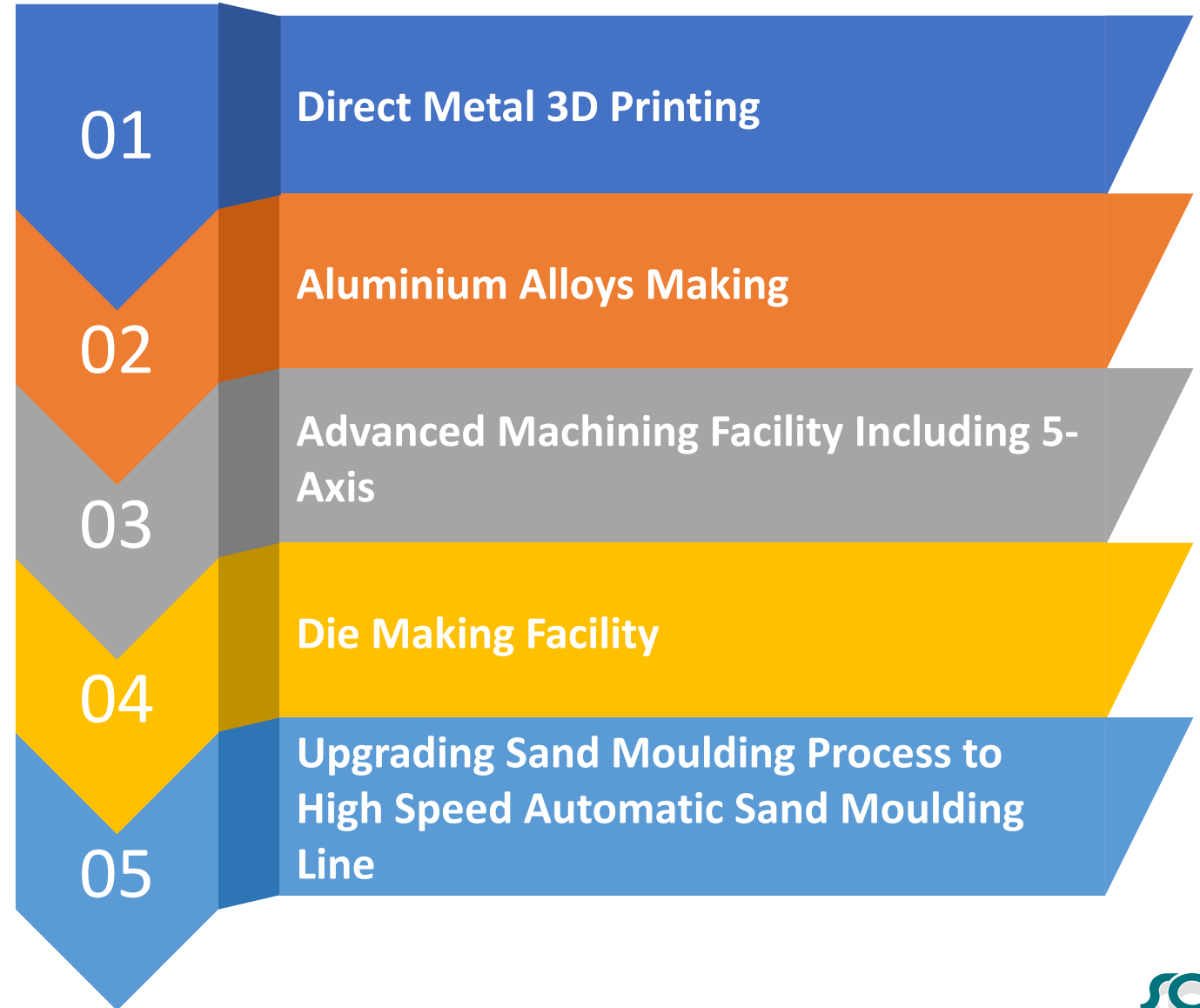
PHASE 1: Casting Processes:

- In phase 1, various casting processes along with comprehensive machining facilities will be installed.
- Machines are selected from best manufacturers/suppliers around the globe and having high degree of automation to make the processes efficient and cost effective, utilizing **Industry 4.0 revolution**.



PHASE 2 : New Technologies and New Machines:

The Second Phase will further improve manufacturing facility by installing:



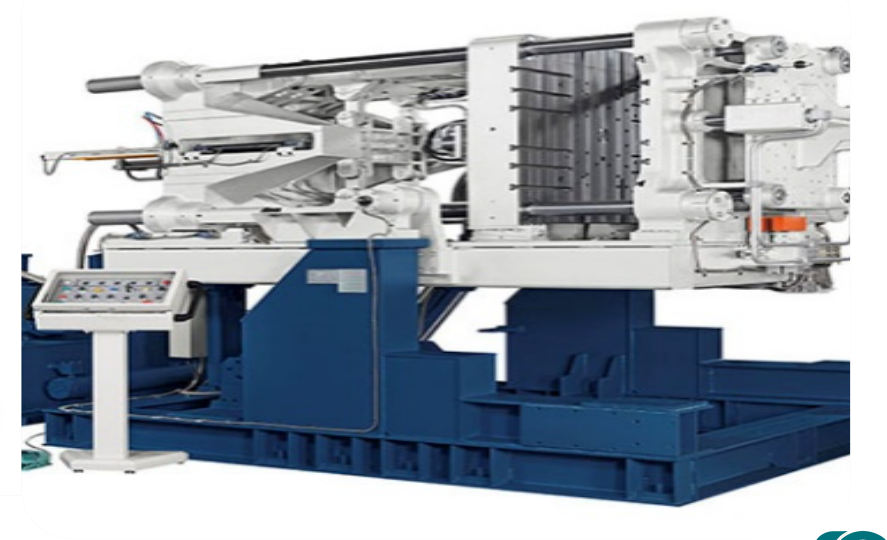
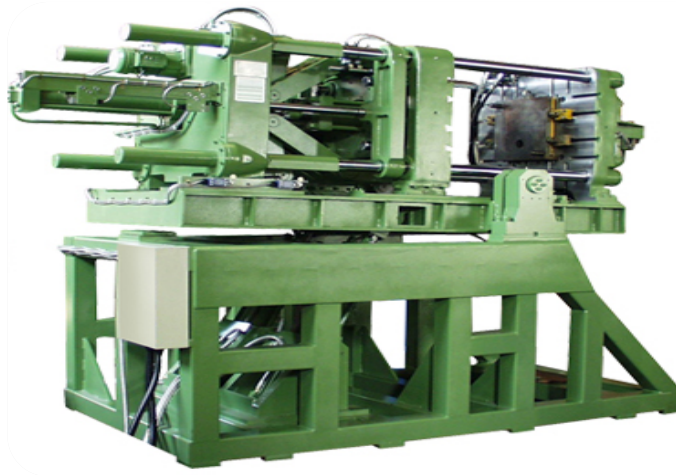
The Project Site



Melting / Holding Furnaces



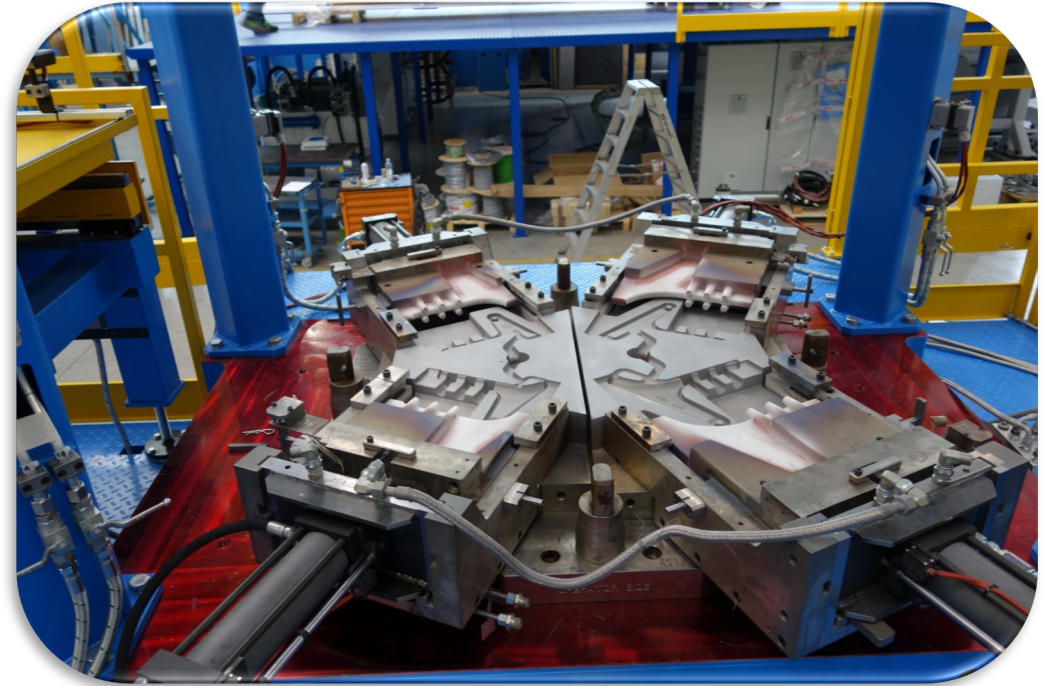
Casting Machines



Heat Treatment Machines



Sand 3D Printing



Sand 3D Printing



► **Sizes & Complexity:**

- Unlimited design freedom.
- Complex internal geometry.
- Largest build size in the industry allow for virtually limitless casting dimensions.

Using three-dimensional printing technology to create various sizes of complex molds and cores for a variety of industries. By selectively printing a specially-engineered binder into paper thin layer of foundry grade sand.

The process is capable of achieving a geometric complexity and scale not possible with conventional casting methods.

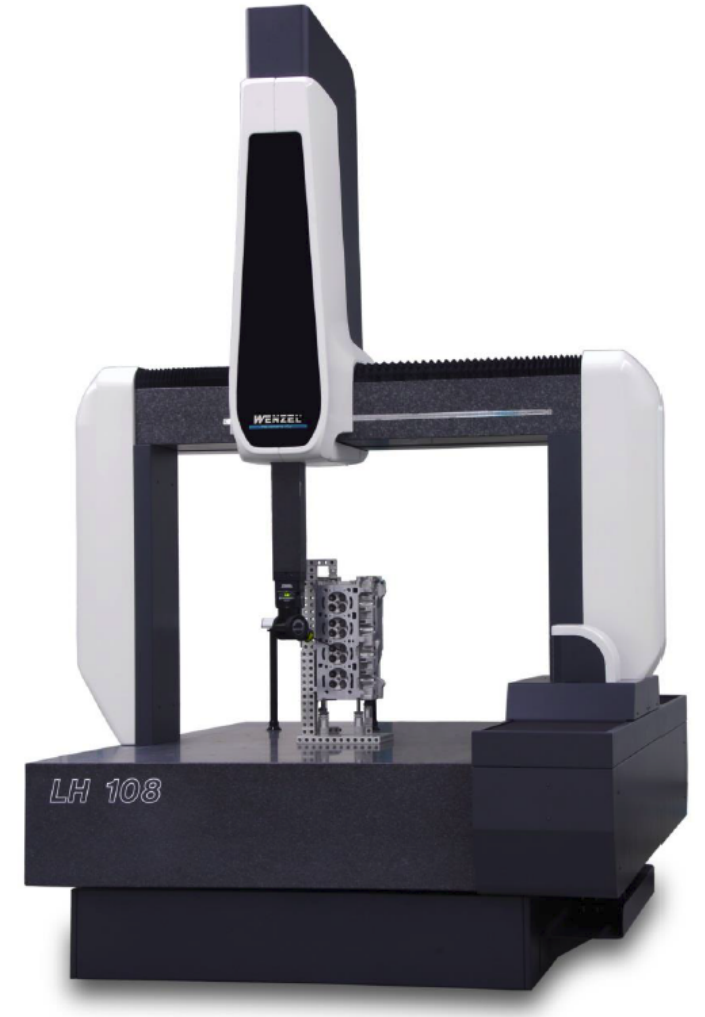
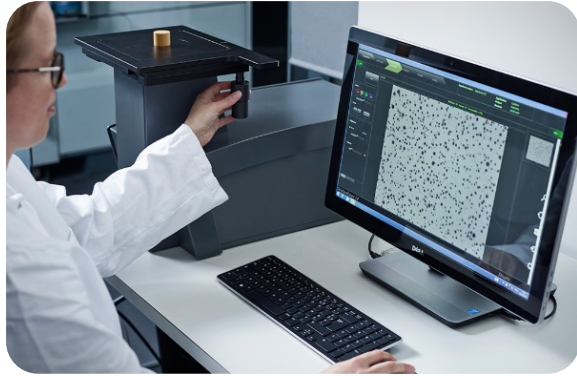
The process produce accurate, uniform cores and molds rapidly which significantly reducing the lead time.

Production Capability:

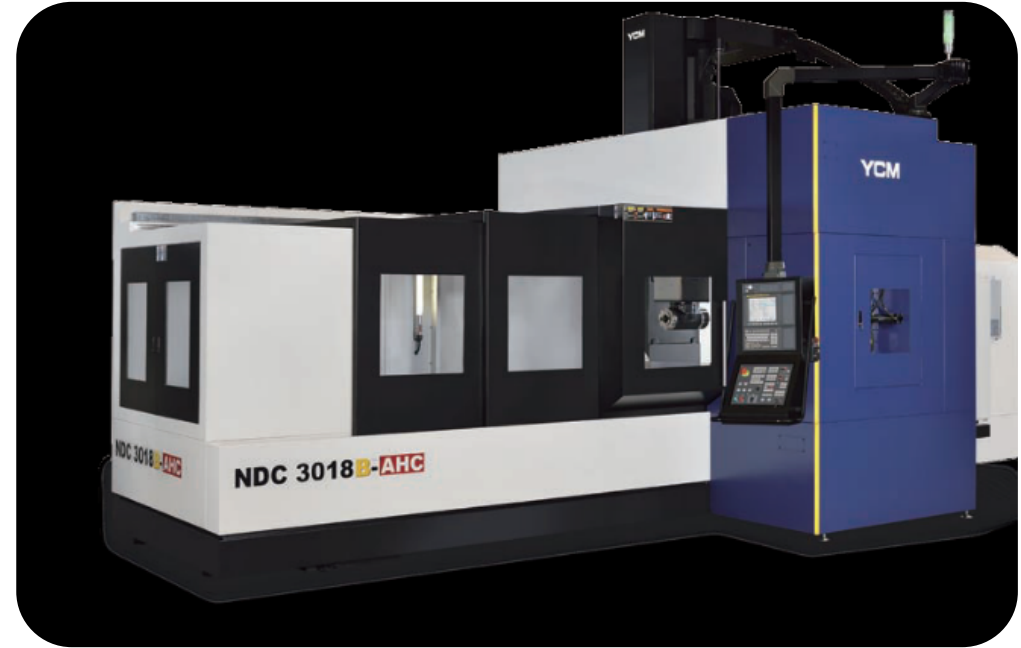
- Scalable production volumes.
- Foundry-grade material.
- Mass Customization
- Delivery in days not weeks.



Quality Assurance Facilities



Machining Facilities



Casting Applications

Following are the major sectors of applications of aluminum casting products

Architectural Building, Decorative
& Construction



Engineering & Industrial



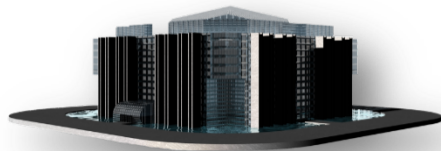
Automotive



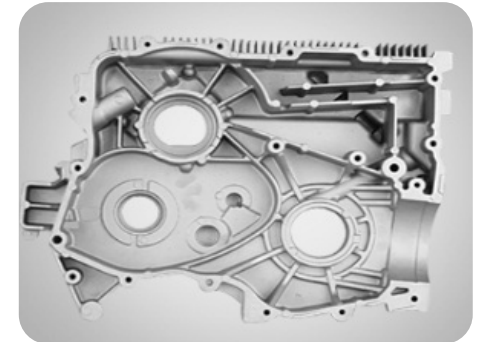
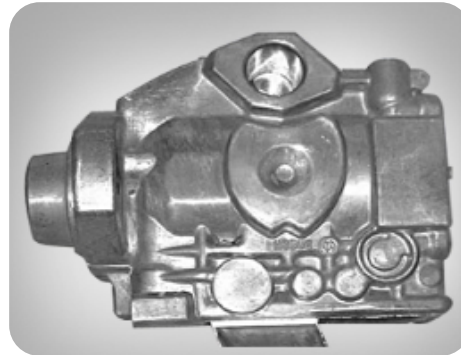
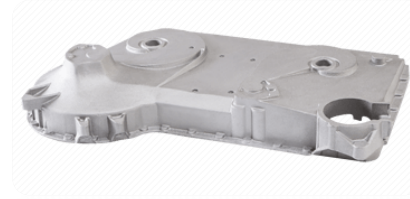
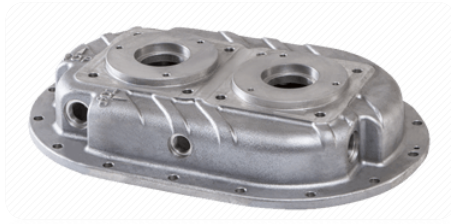
Aerospace



Defence



Automotive & General Castings



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Casting Foundry
المصنع السعودي لصبب الألمنيوم



New Machines / Technologies

3D Metal Printing Machine



3D Metal Printed Parts





Saudi **Aluminium** **Casting Foundry**

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Contact us:

www.Alucast.sa

Info@alucast.sa

THANK YOU

