

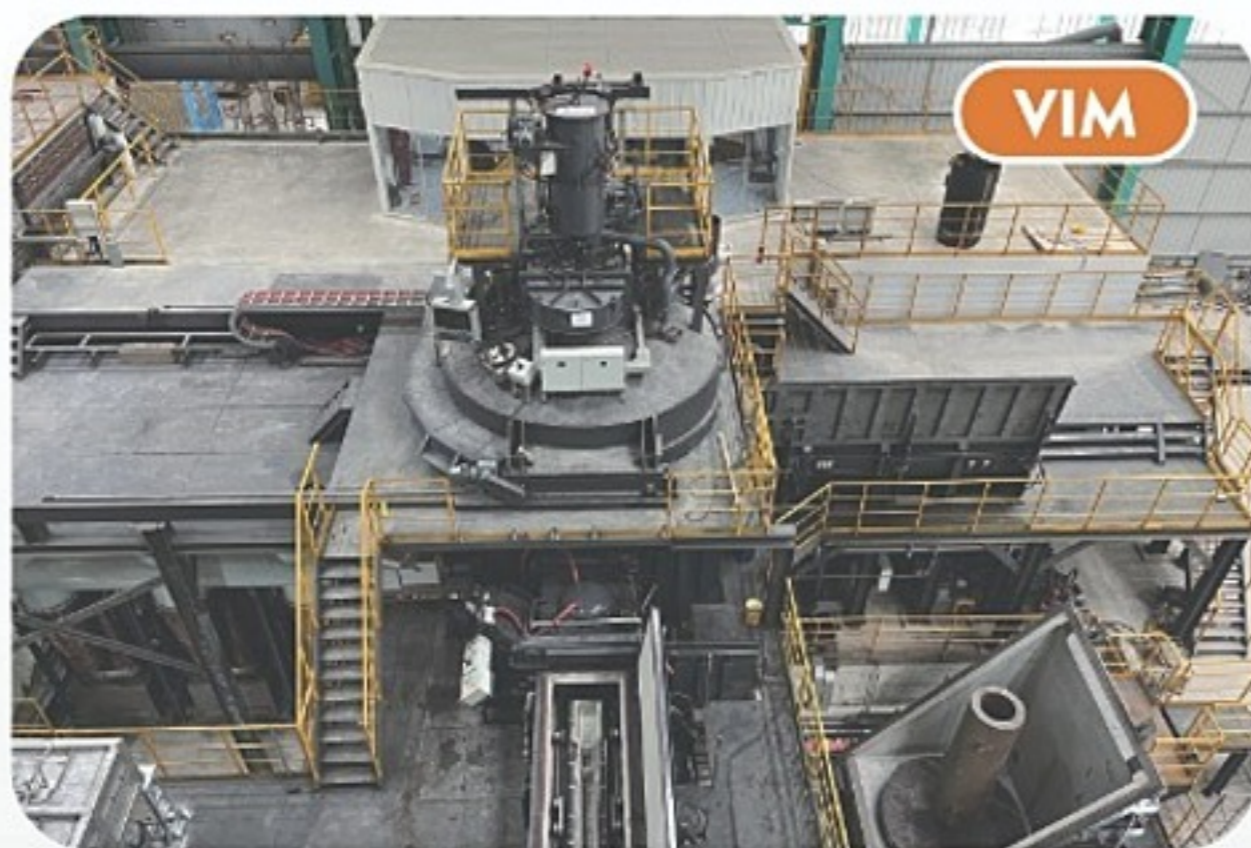
# SHANGHAI VACUUM MELTING TECHNOLOGY CO., LTD.



An industry-leading manufacturer of vacuum metallurgical equipment integrating R&D, design, production, sales and service. VIV is the Indian partner of VMT

## PRIMARY MELTING >>>

Vacuum Induction Melting (VIM) and Induction Melting and Vacuum Degassing (IMVD) are the first step in creating metals used in the most demanding applications. A VIM furnace incorporates an induction furnace within a vacuum chamber in order to prevent oxidation of volatile elements during the melting and refining stages. The IMVD furnace is designed for induction melting a solid charge in an air atmosphere or vacuum, with final degassing stage under vacuum. The final pouring of the metal is performed in air or under protective atmosphere of inert gas.



## SECONDARY PROCESSING >>>

Remelting and casting are secondary melting processes used to further refine and improve the quality of materials produced from primary melting. During the remelting processes, a metal alloy ingot is melted in a controlled atmosphere environment to remove impurities and/or improve the macro and microstructure of the ingot or cast part, depending on the final application. The hallmark of secondary melting is not the melting but rather the controlled solidification which is what gives the final product its refined structure for use in high-temperature and high-stress applications.



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