

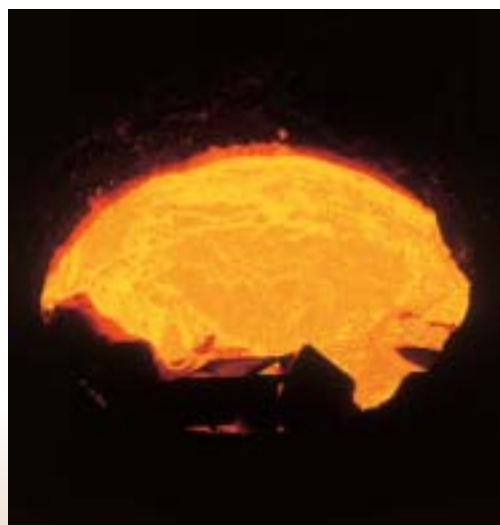
Cast Metal 鋳物

ものづくり
Manufacturing in Wakayama
和歌山



かつては日用品の生産が主流であった和歌山の鋳物産業も、近代工業や繊維産業の発展とともに機械鋳物の需要が増え、順調に発展してきました。現在では産業機械、金属工作・加工機械、回転電気機械など幅広い分野で利用されており、各種産業の基盤を支える重要な産業となっています。

The cast metal industry in Wakayama, which used to mainly produce daily necessities, has steadily developed thanks to increasing demand for machinery casting as a result of the development of modern industry and the textile industry. At present, the industry makes products in a wide range of fields, such as industrial machinery, metal work, processing machinery, and rotary electric machines. Cast metal has thus become an important industry that supports the foundations of various other industries.



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図1 廃砂・ガラス焼結発泡材料の試作品

Fig. 1 Prototype for a foam material made by sintering waste sand and glass

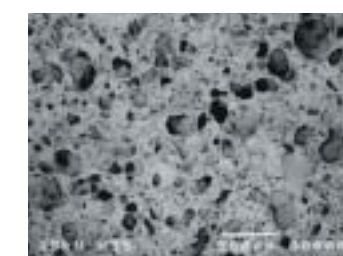
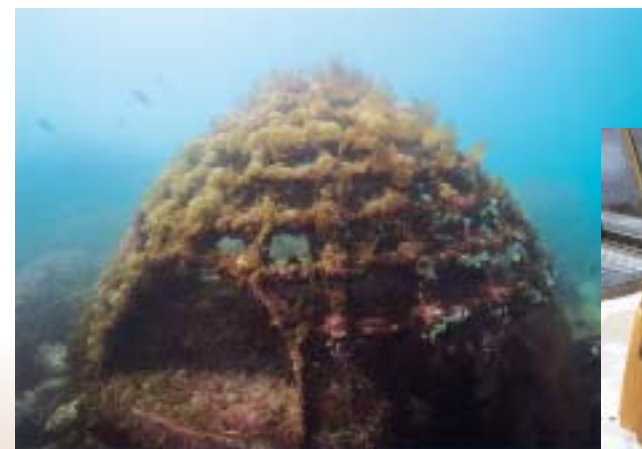
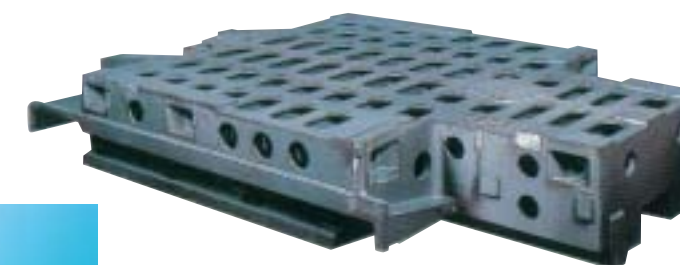


図2 試作発泡材料の電子顕微鏡像

Fig. 2 Electron microscope image of prototype foam material

和歌山県工業技術センターでは、鋳物製造過程で排出される廃砂を廃棄ガラスとともに焼結して発泡体をつくる研究開発を行っています。この発泡体を屋上緑化用の培土や水耕栽培用の保持材として活用するための検討を進め、廃棄物の有効利用を図っています。

The Industrial Technology Center of Wakayama Prefecture is conducting research and development into making foam material by sintering waste glass with waste sand discharged in the cast metal manufacturing process. By studying the use of this foam material as molding for rooftop gardening and maintenance material for hydroponic farming, the center is promoting the utilization of waste.



現在、組合では鋳物を利用した魚礁の開発など、新製品の研究開発を行っています。

At present, the cast metal industry cooperative is conducting research and development into new products such as a fish-breeding habitat made from cast metal.