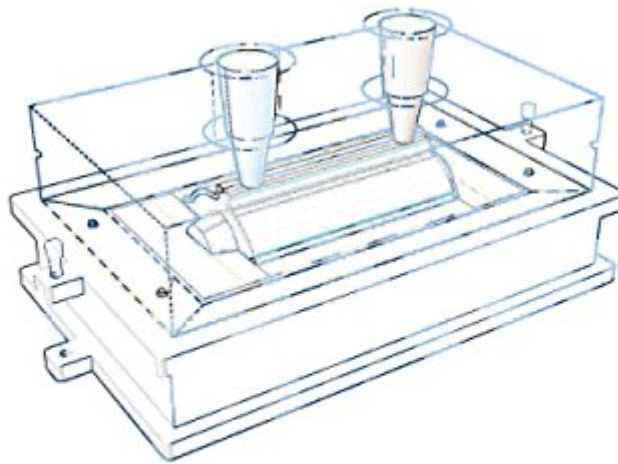


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# Sand Casting Archive: Bronzecasting.co.uk Files - Information For Artists & Designers (bronzecasting.co.uk Archive Files Book 1)

ANPP  
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sand casting archive

bronzecasting.co.uk website files - information for artists & designers



## Synopsis

The ANPP Sand Casting Archive is a newly revised and re-edited archive collection based on content formerly available in the [bronzecasting.co.uk](http://bronzecasting.co.uk) resource. The Sand Casting Archive offers an window into the techniques, materials and working practices used by dedicated Fine Art Foundries, and their Commercial Foundry counterparts, to produce casts in bronzes and other metals for sculpture, design and architectural features, ideal as a first reference for creative practice - the artist, designer and architect. The contents of the Archive have been compiled to provide the reader with a level of understanding about sand casting that helps them to make cost effective, confident and informed decisions about their casting projects. Used in conjunction with other reference materials, the Archive may also be helpful for use in a practical workshop setting. The contents start with a brief historical overview and information on the casting techniques (past and present) used to produce monumental sculpture. A section on Lost Pattern (Evaporative Foam Casting), then describes the methods and materials used to cast basic 'one off' copies by directly burning off a polystyrene template during a metal pour. More sophisticated sand piece moulding techniques (used to create multiple cast copies of more complex sculptures and designs), are explained in detail with the aid of new 3D CAD illustrations (including exploded and transparent views for clarity). The adaptive moulding methods used by foundries specialising in sculpture casting are contrasted with the high volume technologies of their commercial foundry opposites. The Archive explores respective variations in foundry pattern [sculpture template] design and process materials, as well as production work-flow and moulding technique. Guidance is offered on 'good practice' preparation of art and design works destined for either fine art or commercial sand casting; highlighting both advantages and common pitfalls in order to help readers achieve the best possible outcome for their project. In addition to comprehensive illustrations, flow charts and graphic tables are provided for easy reference. A wide range of casting materials and technologies is introduced in the Archive, in addition to common processes such as green sand and sodium silicate moulding, the potential of alternative sand and other 'rigid moulding' techniques is noted (for example - die casting, plaster mould casting, continuous casting and so on). The ANPP Sand Casting Archive includes an added section that unpacks the detail of Computer Aided Design and Manufacturing (CAD/CAM), and how these technologies have become relevant in the foundry; both for the production of design templates (patterns), and for directly forming moulds in sand for metal casting. A list of tips and hints are provided as a concise reference for artists and designers who are intending to have their work professionally cast. Likewise, a tips and hints are included for those looking to experiment with sand casting themselves. A comprehensive list of keywords and definitions is available, together with

further reading, references and illustrations lists, and an A-Z index. Other archive files from the bronzecasting.co.uk resource are currently being prepared for this series, including collations on Reproduction Moulding, Lost Wax (Investment) Casting, Metals & Alloys, Welding & Metal Finishing and other topics relating to sculpture and design making.

## Book Information

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