



The Mould Design Guide

By Peter Jones

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This book provides design engineers, toolmakers, moulding technicians and production engineers with an in depth guide to the design and manufacture of mould tools that work successfully in production. It highlights the necessity to design a mould tool that allows overall production to make an acceptable profit, and whilst it is recognised that not all design engineers will be able to influence the profitability factor it is an important aspect to consider. The guide focuses on designs that will produce the required production rate and quality of mouldings in a consistent and reliable fashion; the key components of a successful mould tool. The introductory chapters outline the injection moulding process, basic moulding parameters and overall machine construction. Dedicated chapters give a full account of all the variables that should be taken into account. All the major types of mould tools are covered in the text including two plate, three plate, split, side core, stack and hot runner. Also, some less frequently used designs are discussed including multi plate and rotary side core moulds. Additionally, there are chapters devoted to stress analysis and fatigue. The theme through the book is based on design simplicity. The simpler the design of the mould is, the more likely it is to provide trouble free mouldings. The information contained in this book is based on over thirty five years experience in the injection moulding industry and on over 3,000 successful mould designs. It contains many tips, wrinkles and tweaks discovered over this period to equip the reader with information that will contribute significantly to successful mould tool designs and avoid common pitfalls.

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