

## Preface

The Mechanical and Metal Trades Handbook is well-suited for shop reference, tooling, machine building, maintenance and as a general book of knowledge. It is also useful for educational purposes, especially in practical work or curricula and continuing education programs.

### Target Groups

- Industrial and trade mechanics
- Tool & Die makers
- Machinists
- Millwrights
- Draftspersons
- Technical Instructors
- Apprentices in above trade areas
- Practitioners in trades and industry
- Mechanical Engineering students

### Notes for the user

The contents of this book include tables and formulae in eight chapters, including Tables of Contents, Subject Index and Standards Index.

The **tables** contain the most important guidelines, designs, types, dimensions and standard values for their subject areas.

Units are not specified in the legends for the **formulae** if several units are possible. However, the calculation examples for each formula use those units normally applied in practice.

**Designation examples**, which are included for all standard parts, materials and drawing designations, are highlighted by a red arrow (⇒).

The **Table of Contents** in the front of the book is expanded further at the beginning of each chapter in form of a partial Table of Contents.

The **Subject Index** at the end of the book (pages 417–428) is extensive.

The **Standards Index** (pages 407–416) lists all the current standards and regulations cited in the book. In many cases previous standards are also listed to ease the transition from older, more familiar standards to new ones.

We have thoroughly revised the **2nd edition** of the "Mechanical and Metal Trades Handbook" in line with the 44th edition of the German version "Tabellenbuch Metall". The section dealing with PAL programming of CNC machine tools was updated (to the state of 2008) and considerably enhanced.

Special thanks to the **Magna Technical Training Centre** for their input into the English translation of this book. Their assistance has been extremely valuable.

The authors and the publisher will be grateful for any suggestions and constructive comments.

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