

Engineers Reference Data Charts

Now with 38 pages of engineering data. Each page coated with an anti-glare matt lamination to protect against the dirt and grease encountered in workshop conditions.

Contents:

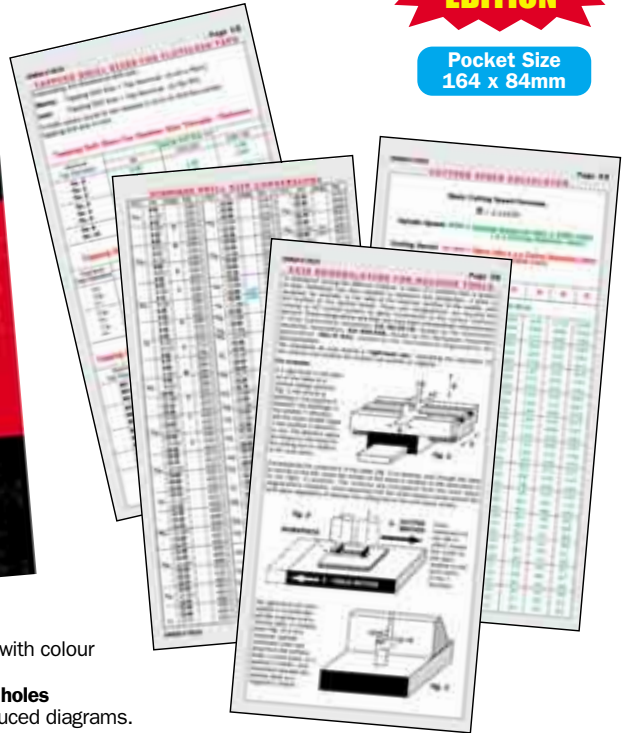
- Basic forms of heat treatment**
Colour charts for Tempering and for hardening & forging.
- Material groups**
Colour coded machineability chart and hardness listing
- Tensile strength and hardness**
Shore hardness and equivalent tensile strengths and conversions included.
- Lubricant selection**
Colour coded materials chart and dilution guidelines
- Hole and shaft tolerances**
H7-e8 tolerances for counterbores included.
- Metric screw and hole sizes**
- Thread Notation**
Explains terminology used to define thread characteristics
- Standard thread forms;**
Sequenced logically, tapping and clearance sizes integrated into single chart and colour highlighted for quick reference. Includes special metric pitches & NPT, distinctions made between 'Rp' and 'G' series BSP. ISO 529 pitch form diagrams shown. Now also lists tapping and clearance drill sizes for fluteless tap
- Dimensions of common shank types**
Now includes screwed shank, Weldon, DIN Taper, BT Taper, ISO Taper in addition to Morse taper shank details.
- Standards for engineering drawings**
Comprehensive listing including contemporary listings and illustrations.
- Abbreviations used in engineering drawings**
- Common CNC codes**
Comprehensive listing including contemporary listings.
- Axis Nomenclature for Machine Tools**
Newly added page explaining the use of letter addresses to define directional motion
- Trigonometry formulae**
Colour coded CAD produced illustrations for quick reference
- Sines and cosines**
Calculated to six decimal places with colour coded axes for quick reference.



THIRD EDITION
Extended Content Version

LAMINATED EDITION

Pocket Size
164 x 84mm



- Tangents and cotangents**
Calculated to six decimal places with colour coded axes for quick reference.
- Co-ordinates for equally pitched holes**
Clear and easy to read CAD produced diagrams.
- Bending allowances for malleable materials**
Listed as metric radius and thickness with nearest equivalent SWG given for guidance. Clear and easy to read CAD produced diagrams.
- Cutting Speed Calculator**
Gives required RPM for known cutter diameters and cutting speeds
- Standard drill size conversions;**
No & letter sizes integrated into a single chart, standard sizes are highlighted in bold text, size range extended from 25.25mm up to 32.50mm. All inch-fractional sizes converted to mm equivalent as well as inch-decimal and Morse taper shank sizes are indicated against drill diameter ranges.

- Abbreviations and formulae**
Definitions of standard meanings with specific attention given to turning, milling and drilling
Comprehensive list of commonly used abbreviations
- Weight and measure systems, useful conversions and constants**
A comprehensive listing of contemporary and old systems, along with the necessary conversion formulae.

Item	Order Code CAT-849	List Price/1	Offer Price/1
Data Charts	-0356C	£3.58	£2.99

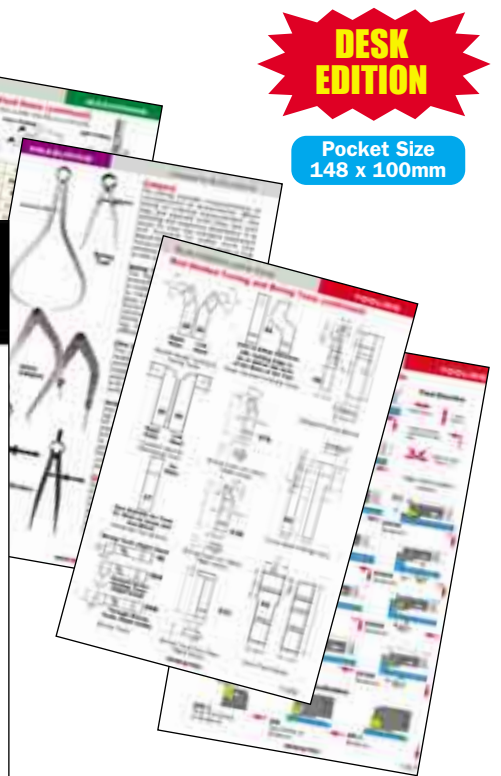
Engineers Reference Handbook

- A handy pocket sized reference booklet of data charts and tables
- Suitable for the drawing office, toolroom or workshop
- 9 sections
- 194 pages



DESK EDITION

Pocket Size
148 x 100mm



Item	Order Code CAT-849	List Price/1	Offer Price/1
Handbook	-0356A	£6.95	£2.99

CONTRACT PRICES AVAILABLE FOR VOLUME PURCHASES