

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:

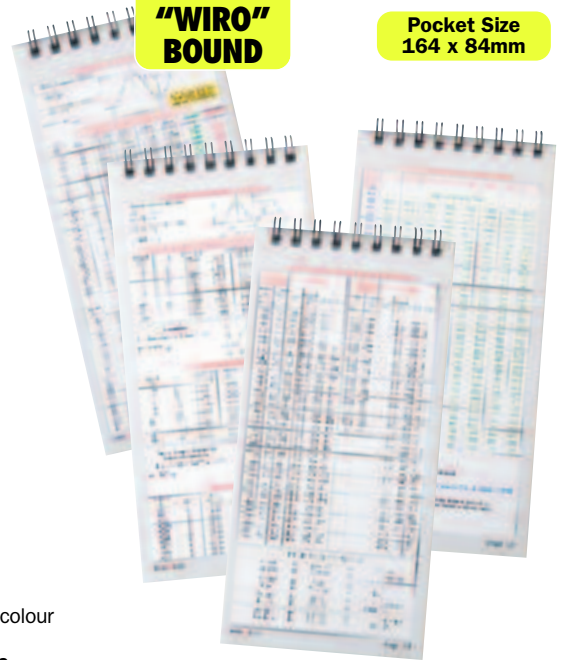
- **Basic forms of heat treatment**
Colour charts for tempering and for hardening & forging.
- **Material groups**
Colour coded machineability chart and hardness listing.
- **Tensile strength and hardness**
Shore hardness and equivalent tensile strengths and conversions included.
- **Lubricant selection**
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.

FOURTH EDITION
Extended Content Version

**NEW
"WIRO"
BOUND**

**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.

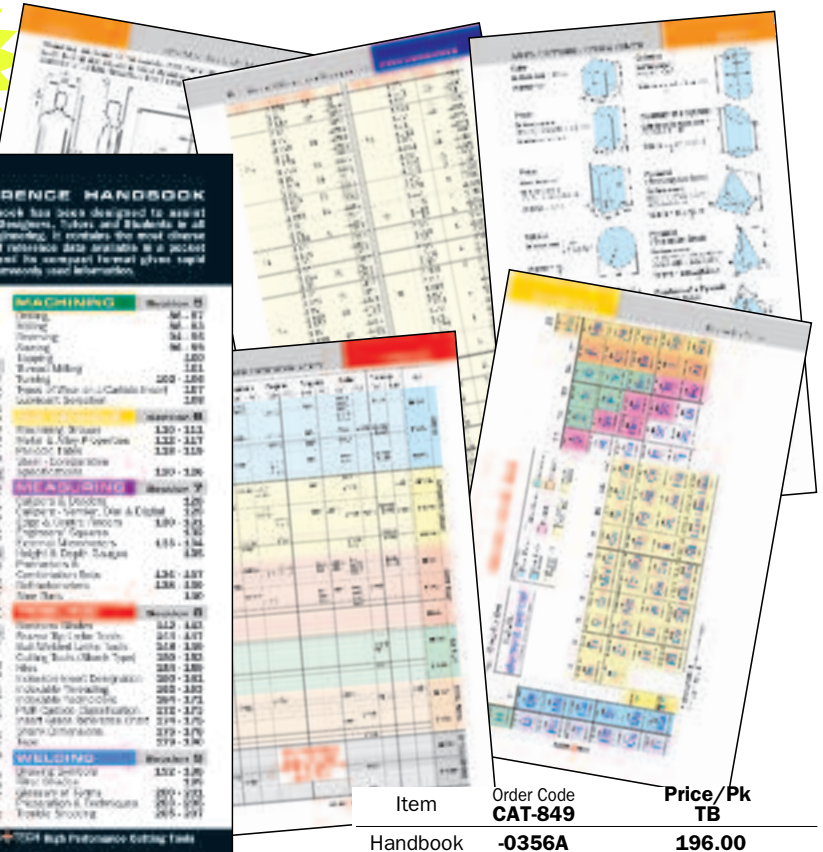
Item	Order Code CAT-849	Price/1 TB
Data Charts	-2621A	205.00

Engineers Reference Handbook

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

**DESK
EDITION**

**Pocket Size
148 x 100mm**



Item	Order Code CAT-849	Price/Pk TB
Handbook	-0356A	196.00

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