



# ENGINEERS Black Book

3<sup>RD</sup> EDITION (METRIC)

Data Sheets  
Reference Tables

Formulae  
Equivalent Charts



*suttontools*

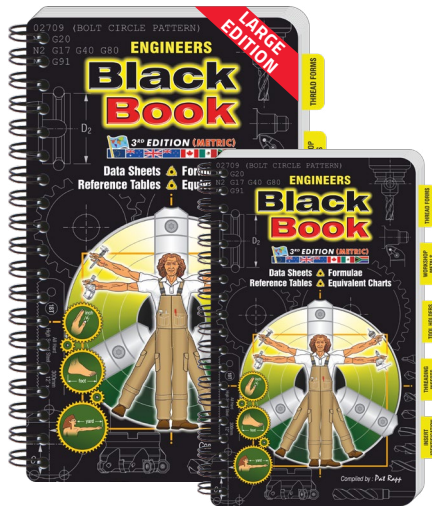
# OTHER

▪ Literature ▪ Cutting Lubricant

# Black Book

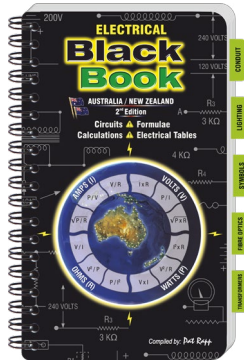
The ultimate reference book

- Pocket sized - grease / tear proof - lay-flat format
- Ideal for engineers, trades people, apprentices, machine shops, tool rooms, technical colleges



L103V3EN

L100V3EN



L300V2EN



L203V1EN

L200V1EN

### Engineers Black Book - 234 Pages of:

- Tables
- Standards
- Illustrations
- Grinding wheels
- Conversion factors
- Tapers
- Lubricants-coolants
- Bolts and nuts
- Spur gear calculations
- Tungsten carbide
- Plastics
- Sharpening information
- G Codes
- Hardening and tempering
- Formulae
- Geometrical construction
- Weights of metal
- Engineering drawing standards
- Tolerances
- Keys and keyways
- Tapping drill sizes
- Speeds & feeds
- Equivalent charts and more...

### Electrical Black Book - 212 Pages of:

- Electrical safety laws of electricity electrical conductors
- Electrical codes and standards
- Electrical conduit and conduit bending
- Electrical formulae and conversion factors transformers and motors
- Electrical socket-outlets, switches and enclosures
- Led lighting, fibre optics and data cabling and more...

### Fastener Black Book - 248 Pages of:

- Screw thread fundamentals
- Standards
- Heat treatment
- Thread classes
- Grades
- Materials and coatings
- Failures and corrosion
- Thread terminology
- Tolerances
- Fastener strengths and markings
- Hydrogen embrittlement
- Screw thread profiles
- Dimensional specifications DIN / ISO / ANSI
- Galling
- Material selection
- Torque control
- Platings
- Elevated temperature effects

Discount Group: Z0502

Description	Edition	Pages	Carton Qty	Bonus	Item #
					<b>L100</b>
Engineers Black Book	3rd	234	40	Labelling Tabs	L100V3EN
					<b>L103</b>
Engineers Black Book - Large Edition	3rd	234	20	Labelling Tabs	L103V3EN
					<b>L200</b>
Fasteners Black Book	1st	248	40	Thread Pitch Gauge	L200V1EN
					<b>L203</b>
Fasteners Black Book - Large Edition	1st	248	20	Thread Pitch Gauge	L203V1EN
					<b>L300</b>
Electrical Black Book	2nd	212	40	Labelling Tabs	L300V2EN

## Other Cutting Lubricant, *Venom*

# suttontools *Venom*

### Venom Endurance+ Cutting Fluid

Venom Endurance+ Cutting Fluid is a highly efficient cutting and lubricating fluid. Formulated to increase tool life and enhance cutting performance in a broad range of metals including carbon steel, aluminium alloys, copper, brass, bronze and stainless steel. Mild clinging action helps fluid adhere to the tool and part when vertical work is required.

### Venom Extreme Power Cutting Paste

Formulated for superior tool life and cutting performance in carbon steel, aluminium alloys, copper, bronze, stainless steel, nickels, titaniums and other super alloys.

Venom Extreme Power Cutting Paste is a high performance low melting point lubricant specifically designed to adhere to the cutting edges, even when using additional coolants

Discount Group Z1006

Size Ref.	Description	Size	Item #
			M800
0050	Venom Cutting Fluid**	50ml	M800 0050
0250	Venom Cutting Fluid	250ml	M800 0250
0300	Venom Cutting Spray*	300g	M800 0300
0400	Venom Cutting Paste	400g	M800 0400
4000	Venom Cutting Fluid	4L	M800 4000

\*Only available in multiples of 6

\*\*Only available in multiples of 12

## EXTREME POWER CUTTING PASTE

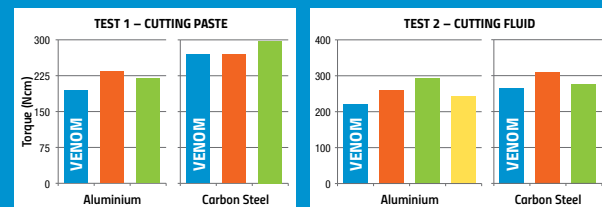
### Features

- Low melting point – adheres to cutting edge for greater tool protection
- Not affected by coolant
- Lowest torque required for higher performance
- Reduced friction for extremely high quality surface finish



M800 0400

Tests indicate Sutton Tools Venom requires less torque – it performed up to 30% better than its competitors



Tests were conducted using a M6 forming tap in carbon steel and aluminium. The results clearly indicate 'less torque' was required using Sutton Tools Venom Cutting Fluid & Paste compared with leading brands on the market.

\*Less torque indicates improved performance.



## ENDURANCE+ CUTTING FLUID

### Features

- Reduces torque and friction
- Extends tool life
- Improves surface finish
- Accurate thread quality
- Environmentally friendly mineral oil base with 10% organic coconut oil. Free from Trichloroethane – low odour.



M800 0050



M800 0250



M800 4000

## ENDURANCE+ CUTTING SPRAY

### Features

- Comfort nozzle allows an accurate spray flow in hard-to-reach working areas
- Precise spray flow within 1.5m range
- Non-flammable
- Reduces torque and friction
- Extends tool life
- Improves surface finish
- Accurate thread quality
- Environmentally friendly mineral oil base with 10% organic coconut oil. Free from Trichloroethane – low odour.
- Suitable for use in non-ventilated areas



M800 0300



