



Lufkin[®]

PRO SERIES

Auto & Laser Levels and Accessories


COOPER Tools



Measuring
Experts
Since
1869

Automatic Levels

LAL20X, LAL24X

Automatic Level Kit LAL20XKT

LAL20X, LAL24X Includes: Auto level & hard carry case

LAL20XKT Includes: Auto Level (20X), survey rod, dome head tripod, hard carry case, safety vest

APPLICATIONS

- General surveying up to 200m, sited slab preparation, determining water drainage, kitchen cupboards, wall and floor tiling

FEATURES

- Dampened compensator
- Compensator lock protects instrument during transport or storage
- The lock can also be used as a compensator checking tool
- Top-mounted optical peep-sight for quick reference
- Large, easy to use focusing knob
- Levelling screws
- Weather sealed housing
- 5/8" x 11 tpi thread to fit standard tripods
- Includes hard carry case
- Safety orange for easy visibility on building sites

LAL20X / LAL24X

- Includes Auto level and hard carry case
- LAL20X = 20x magnification
- LAL24x = 24x magnification

LAL20XKT

- Includes Auto level (20X), survey rod (4m) dome head tripod, safety vest and hard carry case

LAL20XKT



LAL20X/LAL24X



Specifications	LAL20XKT LAL20X	LAL24X
Levelling Accuracy	3mm @ 30m	3mm @ 30m
Standard deviation for 1km Double run levelling	2.5mm	2.0mm
Image	Erect	Erect
Magnification	20X	24X
Objective aperture	34mm	36mm
Field of view	1° 20'	1° 20'
Minimum focus	0.5m	0.5m
Multiplication constant	100	100
Compensator range	15'	15'
Sensitivity of bubble	8'/2mm	8'/2mm
Horizontal circle-reading	1° or 1 gon	1° or 1 gon
Instrument net weight	1.55kg	1.55kg
Tripod thread	M16 or 5/8"	M16 or 5/8"

Laser Distance Measurer LLM40

Includes: Laser distance measurer with integrated spirit level

APPLICATIONS

- Indoor and outdoor applications
- Virtually any dry measuring application where an object can be measured to between 0.3m and 40m from unit

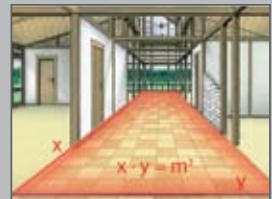
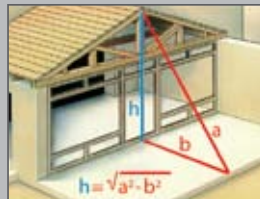
FEATURES

- The Lufkin Laser Range-Master 40 Laser Distance Measurer provides point precise measuring and allows exact measurement over great distances
- Highly visible laser spot
- Simple height measurement for outer walls with the Pythagoras function: This value is calculated automatically at the press of a button
- Simple assessment of room perimeter with the Addition and Subtraction functions
- Area and Volume functions permit the measurement of room sizes
- Measurement units can be selected in metres or feet
- Measurement point can be selected from front or rear of housing
- Integrated bubble spirit-level permits precise alignment of the device, especially important when measuring large distances
- Recall memory for the last 10 measured values
- Illuminated LCD display
- IP 54 rated water and dust protection



Operating Information

- The laser points precisely to the location that will be measured. No objects should obstruct the laser's line of measurement.
- A spirit level allows the device to be precisely levelled horizontally while measuring.
- The device has an energy-saving function and switches itself off automatically.
- The laser does not penetrate glass (window panes).
- The device compensates the measurement for different room temperatures. Therefore allow the device a brief period when changing locations with large temperature differences, to stabilise temperature.
- Carpeting, upholstery or curtains will not reflect the laser well. Measure to smooth light-coloured surfaces where possible.
- Ensure that rain, fog and snow do not influence measurement results when making outdoor measurements.



Specifications	LLM40
Operating Range	0.3m to 40m (20m in direct sunlight)
Working Environment	Indoor and outdoor use
Accuracy	+/- 3mm @ 40m
Levelling System: Range	Spirit Level
Laser Type / Class	635nm / Class 2
Battery Type	2 x type "AA" batteries
Protection Rating	IP 54 – dust & water resistant
Weight	270g

Cross Line Laser Level Kit LCL3

Includes: Cross line laser, tripod with mounting base and hard shell carry case

APPLICATIONS

- Cross line, horizontal and vertical lines for multiple applications including plumbing, panelling, door hanging, wall papering, cabinet installation, dado panelling, curtain track levelling, two tone painting lines, wall and floor tiling, picture hanging, window framing, switch and fitting placement
- Ideal for indoor use

FEATURES

- Wide beam angle for maximum coverage
- High intensity, high visibility laser lines - cross line, horizontal and vertical line
- Auto levelling with out-of-level warning
- Estimated battery life of 30 hours, 4 of AA(LR6) / 1.5V batteries included



Cross,
Vertical and
Horizontal line



Vertical line



Horizontal line



Cabinet installation



Wall papering



Bathroom tiling



Floor tiling



Wall tiling



Drilling and sawing alignment



Specifications	LCL3
Operating Range	Indoor up to 15m depending on light conditions
Working Environment	Indoors
Accuracy	+/- 5mm @ 10m
Levelling System: Range	Self levelling: Up to +/- 5°
Laser Type / Class	650nm / Class 2
Battery Type	4 x type "AA" batteries
Estimated Battery Life	30 hours continuous use
Weight	460g

Laser Square LLS1

Includes: Laser, goggles, carrying case

APPLICATIONS

- Floor and wall tiling
- Placement of paving
- Window and door frames
- Two laser lines make it the ideal instrument for all types of alignment work on the floor

FEATURES

- Simple alignment for right angles
- Vertical levelling inbuilt spirit levels
- Two easily visible laser lines for all alignment work on the floor and vertical alignment on walls
- Back-lit illuminated spirit levels
- Robust 90° metal try square edge
- Right angle accuracy 0.05°
- Levelling foot, removable, for use with tripods with 1/4" thread

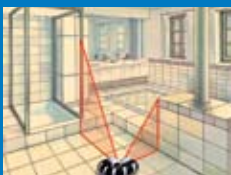


On-floor applications:

Turn on the unit with the ON / OFF switch. The laser lines now produce a 90° angle on the floor. These projected lines allow tiles to be laid easily, yet precisely. The 90° square recess makes it easy to align the first floor tile.

Wall applications:

The long-range laser beams also project very visible laser lines on walls. Level the instrument with its levelling feet according to the spirit-level indicators. The spirit-levels are back-lit to guarantee good visibility even in reduced ambient light.



Specifications	LLS1
Operating Range:	Up to 20 metres
Working Environment:	Indoor use
Accuracy:	+/- 5mm @ 10m
Levelling System: Range	Self levelling: Up to +/- 5°. Spirit level for vertical
Laser Type / Class	635nm / Class 2
Battery Type:	2 x type "AA" batteries
Estimated Battery Life:	24 hours continuous use
Weight	400g

Multi-Line Laser Kit LCL4

Includes: Multi-line laser, bracket, square attachment, carry case

APPLICATIONS

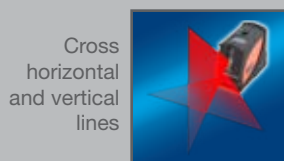
- **Electrical:** Level electrical outlets, transfer lighting layout from floor to ceiling using plumb beam
- **Carpentry:** Level and set cabinets and counter tops and install trim
- **Stair Layout:** Level and plumb decks, plumb framing and partition walls, plumb windows and door frames
- **Concrete:** Set forms and footings
- **Plumbing:** Layout piping, sewer lines, drainage and supply lines, transfer sprinkler system layout from floor to ceiling using plumb beam
- **Interior Decorating:** Picture hanging, wall or floor tiling, wallpapering

FEATURES

- Cross line and plumb spot beam
- Suitable for indoor and outdoor applications
- Wide beam angle for maximum coverage
- High intensity, high visibility laser line
- Auto levelling with out-of-level warning
- Weather resistant housing
- Magnetic universal mount
- Includes bracket, square and padded carry case
- Auto-off feature
- Pulse mode - use with optional detector for outdoor applications
- Fits standard tripod with 5/8" thread



Plumb up/
down



Cross
horizontal
and vertical
lines



Vertical
line



Horizontal
line

Beam combination options include:

- Horizontal line and plumb spot beam
- Vertical line and plumb spot beam
- Cross lines and plumb spot (and locked) beam
- Any beam individually



Cabinet installation



Wall panelling



Floor tiling



Wall tiling
Cabinet installation



Hanging pendant lamps



Window framing



Bathroom tiling



Hanging pictures



Drilling & sawing



Aligning shelves



Specifications	LCL4
Operating Range	Indoor up to 15m / Outdoor up to 50m with detector (optional)
Working Environment	Indoors and Outdoors up to 50m with detector (optional)
Accuracy	+/- 3mm @ 10m
Levelling System: Range	Self levelling: Up to +/- 5°
Laser Type / Class	635nm / Class IIIA
Battery Type	3 x type "AA" batteries
Estimated Battery Life	12 hours continuous use
Protection Rating:	IP54 - Dust and water resistant
Weight	470g
Detector	LVH800 (Optional)
Range - Laser Reception	50m
Battery Type	1 x 9V battery

Rotary Laser level Kit LR502

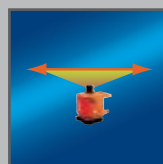
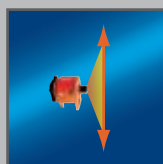
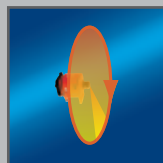
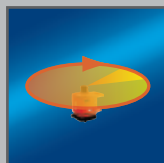
Includes: Rotary laser, detector, DC adaptor input and carry case

APPLICATIONS

- Designed for builders, plasterers and contractors and can be used for levelling, vertical alignment, plumbing and squaring
- Cabinets & shelves, doors and windows, carpentry, sliding door installation, marking elevation, remodelling, masonry, foundations, floors, aligning 90°, joint and edges
- landscaping, drainage work, plumbing, walls and partitions, fencing

FEATURES

- Manual levelling in both horizontal and vertical modes
- Variable speed 360° rotation, 0 to 150rpm
- Plumb beam up for vertical alignment projects
- DC adaptor input and low battery level indicator
- Two scan modes (short and long) to create a visible laser line (indoor applications)
- Safety orange for easy visibility on building sites
- Rain and dust proof.
- Fits standard tripod with 5/8" thread
- Includes padded carry case





Indoor work



Floor & ceiling



Wall mount & magnetic target



Precise vertical alignment



Pouring a concrete slab



Range of up to 150m



Specifications	LR502
Operating Range	Indoor up to 30m / Scan Mode 50m / Outdoor up to 150m with detector supplied
Working Environment	Indoors and Outdoors - House lot
Accuracy	+/- 2mm @ 10m
Levelling System: Range	Manual levelling
Laser Type / Class	635nm / Class 2
Battery Type	4 x type "C" batteries or 6V D/C external power supply (not provided)
Estimated Battery Life	18 hours continuous use
Weight	1.8kg
Detector	LS6
Range - Laser Reception	150m
Battery Type	1 x 9V battery

Self Levelling Rotary Laser and Detector LSL160

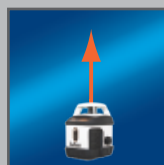
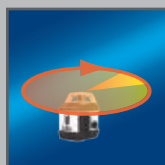
Includes: Rotary laser, detector, bracket, DC adaptor, rechargeable batteries, charger and carry case

APPLICATIONS

- For all horizontal and vertical alignment work
- General surveying
- Levels for slab preparation
- Determining water drainage
- Site preparation
- Indoor and outdoor tiling and carpentry applications

FEATURES

- Horizontal self-levelling by magnetically-dampened pendulum system, vertical alignment via adjustable base
- Laser 635nm, accuracy 2mm/10m, dust and splash-water protected per IP 54
- Self-levelling range, 3.5° with tilt function
- The vertical plumb reference beam is suitable for dropping a perpendicular or for aligning partition walls
- The wall/floor bracket can be used to level the unit vertically or fasten it to a wall
- Includes: Laser Detector (SL210) with range of 200m, wall mount, rechargeable batteries & charger





External Levelling



Levelling Slabs



Site Preparation



Foundation Work



Specifications	LSL160
Operating Range	Up to 200m with detector supplied
Working Environment	Indoors and Outdoors, House lot
Accuracy	+/- 2mm @ 10m
Levelling System: Range	Self levelling: Up to +/- 3.5°
Laser Type / Class	635nm / Class 2
Battery Type	Rechargeable battery / 6 x type "AA" batteries
Estimated Battery Life	Rechargeable battery: 20 hours 6 x type "AA" batteries: 45 hours
Protection Rating	IP54 - Dust and water resistant
Weight	1.7kg
Detector	SL210
Range - Laser Reception	200m
Battery Type	4 x type "AA" batteries

Self Levelling Rotary Laser (with Gradient) & Detector Kit LSL250

Includes: Rotary laser, detector, remote, bracket, DC Adaptor, rechargeable batteries, charger, and carry case

APPLICATIONS

- Recommended for all civil and construction engineering applications
- Gradient work up to 5° (or greater when used with optional tilt plate LLTP1)

FEATURES

- Automatic horizontal alignment controlled by continuous operation of electronic positioning motors and temperature stable sensors
- Slope mode permits the layout of gradients up to 5°, however additional extensive gradient work can be completed with the addition of a Lufkin Tilt Plate (LLTP1)
- ADS Tilt: Automatic shutoff by ADS (Anti drift system), electronic monitoring of the measurement is continuous and switches the laser off when there is an external disturbance
- The detector has a water-resistant housing, front and rear LC displays and strong holding magnets
- SpotLite marking: prevents parallax error and enables exact marking of the reference height
- Highest reliability
- Robust water-resistant housing, IP66 rating
- Optional tilt plate for larger angles (LLTP1)





External Levelling



Levelling Slabs



Site Preparation



Foundation Work



Specifications

LSL250

Operating Range	Up to 300m with detector supplied
Working Environment	Mostly outdoors, large areas
Accuracy	+/- 1mm @ 10m
Levelling System: Range	Self levelling: Up to +/- 5°
Remote Control	Infrared IR
Laser Type / Class	635nm / Class 2
Battery Type	Rechargeable battery / 4 x type "D" batteries
Estimated Battery Life	Rechargeable battery: 60 hours 4 x type "D" batteries: 90 hours
Protection Rating	IP66 - Dust proof and water resistant
Weight	3.0kg
Detector	SL310
Range - Laser Reception	300m
Range - Remote Control	15m
Battery Type	4 x type "AA" batteries

Dual Axis Self Levelling Rotary Laser (with Gradient) & Detector Kit LDAL310S

Includes: Rotary laser, detector, remote, magnetic sighting scope, bracket, DC adaptor, rechargeable batteries and charger, carry case

APPLICATIONS

- Suitable for all civil and construction engineering applications

FEATURES

- Digital Gradient Setting allows deviation from the horizontal plane to be set digitally in X and Y axis
- Automatic horizontal alignment is achieved by Electronic positioning motors, controlled by temperature-stable sensors
- Automatic shutoff by ADS (Anti-drift system). Electronic monitoring of the measurement is continuous and switches the laser off when there is an external disturbance
- Laser Sector mode: The operating circle of the laser beam can be restricted to 4 individual sectors
- Rotation speeds (0; 300; 600; 1100rpm)
- Magnetic Scope allows the laser to be oriented precisely
- Includes SL310 300m detector
- Large illuminated LCD display
- Robust water resistant housing IP66
- Remote control of all functions from a distance of up to 15m
- SpotLite marking prevents parallax error and enables exact marking
- Manual slope function - can deactivate autolevelling and use with optional tilt plate (LLTP1) for greater deviations from horizontal and vertical planes





Levelling Slabs



Site Preparation



External Levelling



Foundation Work



Specifications	LDAL310S
Operating Range	Up to 300m with detector supplied
Working Environment	Mostly outdoors, large areas
Accuracy	+/- 0.5mm @ 10m
Levelling System: Range	Self levelling: Up to +/- 5°
Remote Control	Infrared IR
Laser Type / Class	635nm / Class 2
Battery Type	Rechargeable battery / 4 x type "D" batteries
Estimated Battery Life	Rechargeable battery: 35 hours 4 x type "D" batteries: 80 hours
Protection Rating	IP66 - Dust proof and water resistant
Weight	5.2kg
Detector	SL310
Range - Laser Reception	300m
Range - Remote Control	15m
Battery Type	4 x type "AA" batteries

Accessories and Detectors

□ Laser Tilt Plate LLTP1

- Precision tilt plate with micrometer
- Turns most laser levels into gradient levels
- Coarse graduation in 5° and fine adjustment down to 1/10 of 1°

□ Detector for Rotary Lasers LS6

- For use with LR502, LSL160, LSL250, LDAL310S. Also compatible with other Rotary Laser Levels
- Range 150m
- Includes Clamp

□ Detector for Rotary Lasers SL310

- For use with LR502, LSL160, LSL250 & LDAL310S
- Also compatible with other Rotary Laser Levels
- Range 300m

□ Laser Detector for Cross Line Lasers LVH800

- For use with LCL4 Multi-Line Laser Level
- Range 50m

□ Survey Rod SR4MS4

- 4 metre length
- Four sections
- Simple to read

□ Tripod, Dome Head TRIDH

- Quick Clamp, 5/8" Thread

□ Tripod, Flat Head TRIFH

- Quick Clamp, 5/8" Thread

□ Hi-Viz Safety Vest SVO1

- Durable & washable lightweight nylon
- Bright orange Hi-Viz colour for high visibility in daytime applications
- Easy to use velcro fasteners
- With reflective stripes front and back



Measuring Wheels

Measuring Wheel 100mm dia.

PSMW10M

- Soft comfort rubber grip handle
- Compact measuring wheel with telescopic handle adjustment. Handle extends to 980mm, and folds down to 480mm for easy storage
- Heavy duty ABS counter housing
- Measures to 999.99 metres.

Measuring Wheel 160mm dia.

PSMW16M

- Wheel is calibrated to counter for accurate measurements
- Compact and foldable measuring wheel, convenient for quick measurements - folds down to 430mm
- Rubber moulded handle
- Magnified counter display
- Counter reset and Trigger brake
- Measures to 9999.9m
- Included carry bag

Measuring Wheel - 318mm dia

PSMW32M

- Convenient reset trigger in both handle and counter
- Collapsible handle for storage
- Solid rubber tyre for improved traction
- 5 digit counter measures 9999.9 metres without resetting
- Built in kick stand supports wheel
- Measures to 9999.9m

Classique Professional - 318mm dia

MW1000

- 1 Metre circumference wheel
- Folds easily in half and snaps open to full size
- Tested accuracy over 30 m - 10mm = 99.96% accurate
- Includes carry bag



Application Chart

Highly Recommended

Suitable

Application/Task

	LAL20x & 24x	LLM40	LCL3	LLS1	LCL4	LR502	LSL160	LSL250	LDAL310S
General surveying, up to house lot size	<input type="checkbox"/> <input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Levels for Slab preparation	<input type="checkbox"/> <input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Determining water drainage	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Site preparation	<input type="checkbox"/> <input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Kitchen cupboards	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Placement of paving				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wall and floor tiling			<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>				
Hanging pictures and posters correctly			<input type="checkbox"/>		<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Placing wall friezes			<input type="checkbox"/>		<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Two tone painting lines			<input type="checkbox"/>		<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Curtain track levels			<input type="checkbox"/>		<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Placing picture rails			<input type="checkbox"/>		<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Window and door frames			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
General Surveying, areas up to 50m	<input type="checkbox"/> <input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
General Surveying, areas up to 200m	<input type="checkbox"/>						<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Adjustable for both X & Y Grades						<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Automatic setup, place and switch on			<input type="checkbox"/>		<input type="checkbox"/> <input type="checkbox"/>		<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Fitted with Scan Mode for indoor use						<input type="checkbox"/>			
Measurement of Distances		<input type="checkbox"/> <input type="checkbox"/>							
Operation only requires 1 person		<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

Highly Recommended
 Suitable

Detectors/Tripods/Tilt Plate

LXH800
LS6
SL310
SC310*
TRIFH
TRIDH
Tilt Plate (LLTPL) can be used with levels

*Suitable for earlier model lasers
 LSL150 & LSL200

Lufkin®
 Measuring Experts
 Since 1869



	LAL20x & 24x	LLM40	LCL3	LLS1	LCL4	LR502	LSL160	LSL250	LDAL310S
LXH800					<input type="checkbox"/>				
LS6						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SL310						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SC310*									
TRIFH	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TRIDH	<input type="checkbox"/>					<input type="checkbox"/>		<input type="checkbox"/>	
Tilt Plate (LLTPL) can be used with levels					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>





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Cooper Tools Pty Limited

519 Nurigong Street,

ALBURY NSW 2640

Ph: 02 6021 6666

Fax: 1800 021 940

Cooper Electrical Pty Limited

205-209 Woodpark Road,

SMITHFIELD NSW 2164

Ph: 02 8787 2777

Fax: 02 9609 2342

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