



batten&allen
engineering reliability



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Batten and Allen has been built on **Engineering Reliability** not only supplying precision stamped and plated parts for over 45 years but also providing all of the services required to support long lasting customer relationships. With 85% exports all around the world high importance is placed on robust quality management systems and communication throughout the whole supply chain to ensure we deliver consistently conforming products, on time and in full.

Based in Cirencester, UK Batten and Allen are a family owned precision engineering company supplying precision stamped and plated parts to all corners of the world.

We aim to provide a complete service for both custom manufactured and B&A components built on our core competences;

- Stamping Reliability
- Plating Reliability
- Tooling Reliability



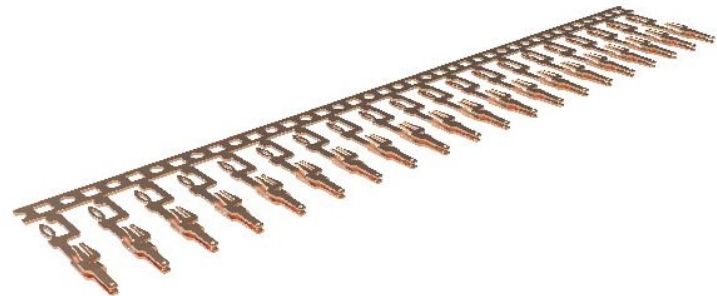
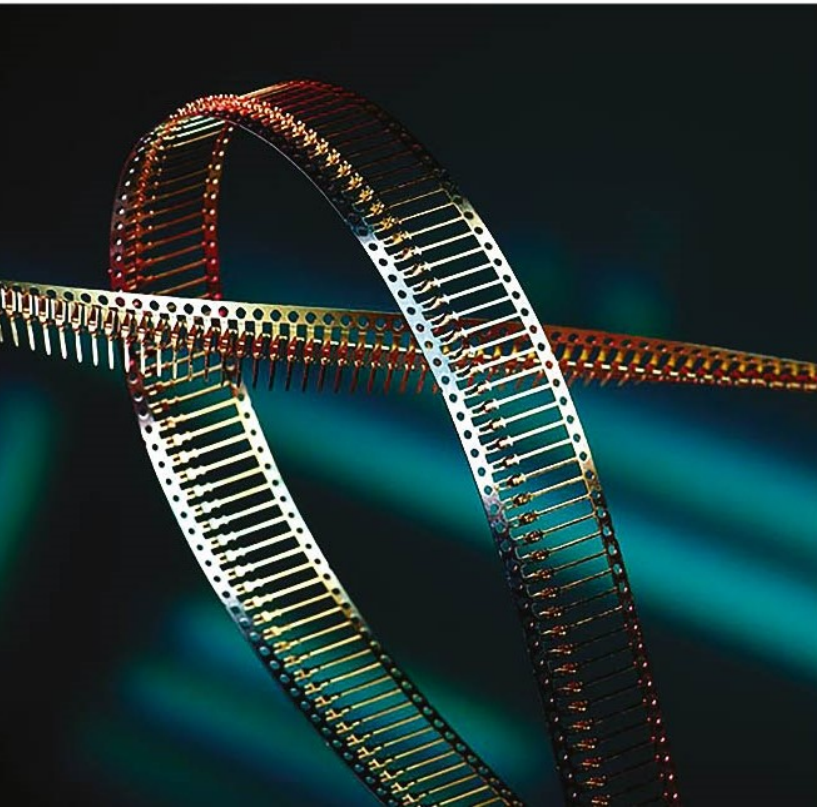
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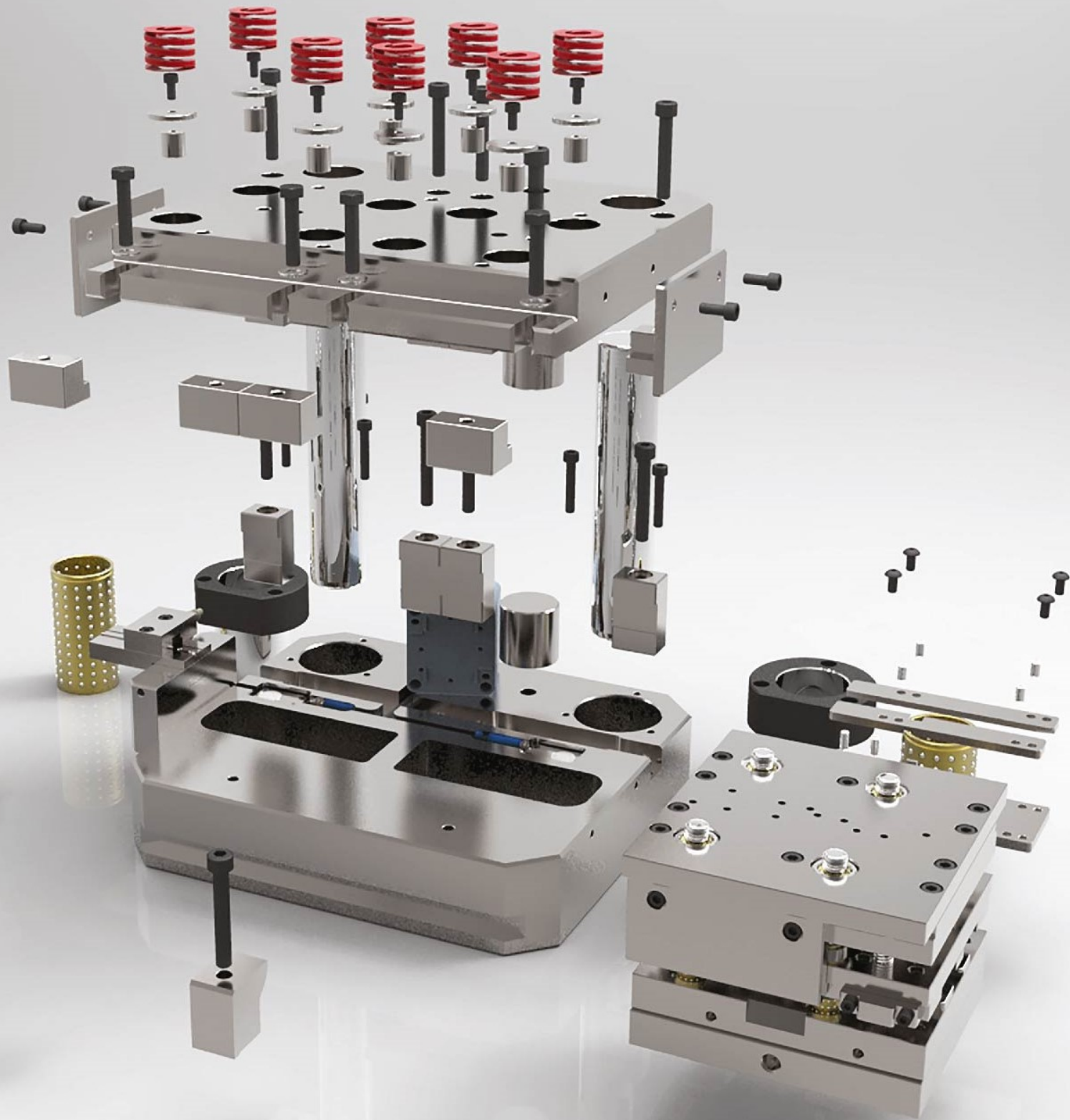
engineering reliability

A precision engineering company specialising in the supply of precision stamped, plated and assembled parts.

Full service provider for all aspects of your engineering requirements from prototype through to mass production:

- ISO 9001 : 14001
- IATF 16949
- Tooling Reliability
- Stamping Reliability
- Plating Reliability





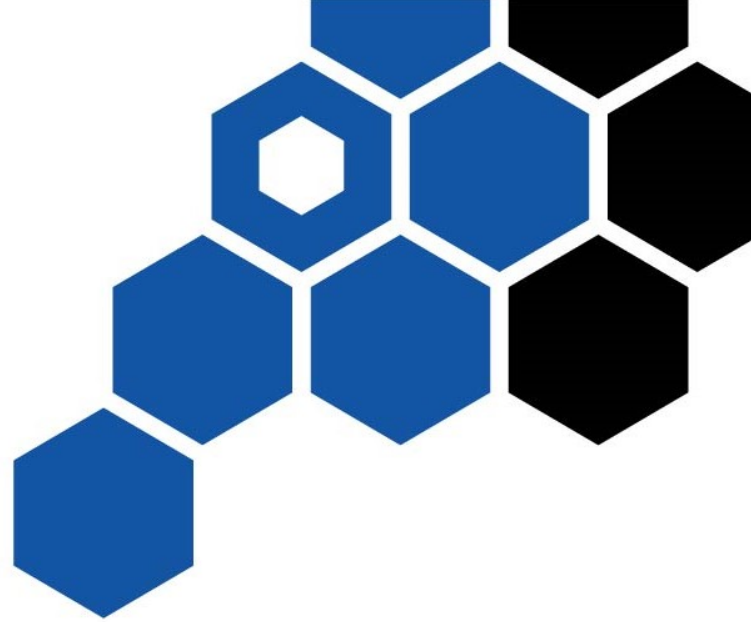


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stamping reliability

Our range of presses can offer small close pitch components with material thicknesses in the range of 10 microns thick foil to more heavy duty single piece stampings up to 2mm thick.

With 22 high speed Bruderer presses capable of running on a three shift system we have the ability at Batten & Allen to produce over 650 million parts per month.





Batten & Allen Limited
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Stamping Reliability

- 22 Bruderer High Speed Presses
- Up to 1500 spm
- Real time OEE monitoring
- Up to 650M components produced per month
- Latest in press ancillary equipment for best press efficiency
- Full tool and process protection

Quality Management Systems

- ISO 19001
- ISO 14001
- IATF 16949
- CFSI (conflict free supply Chain)
- REACH
- RoHS

Market Sectors

- Electronics
- Automotive
- Telecoms
- Medical
- Industrial
- Aerospace
- Power Electronics
- Consumer



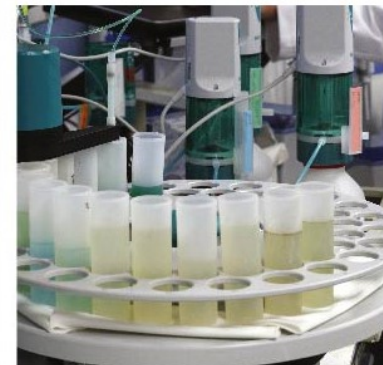
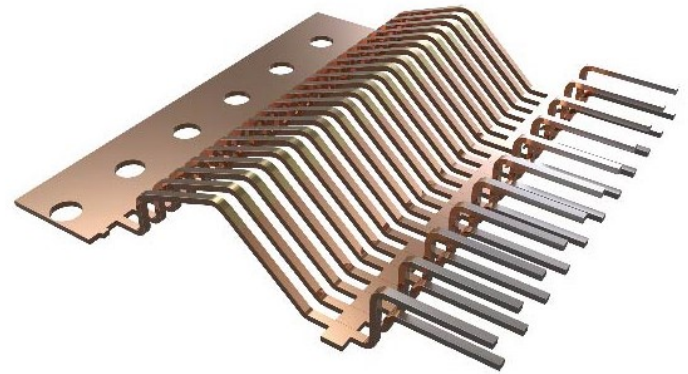
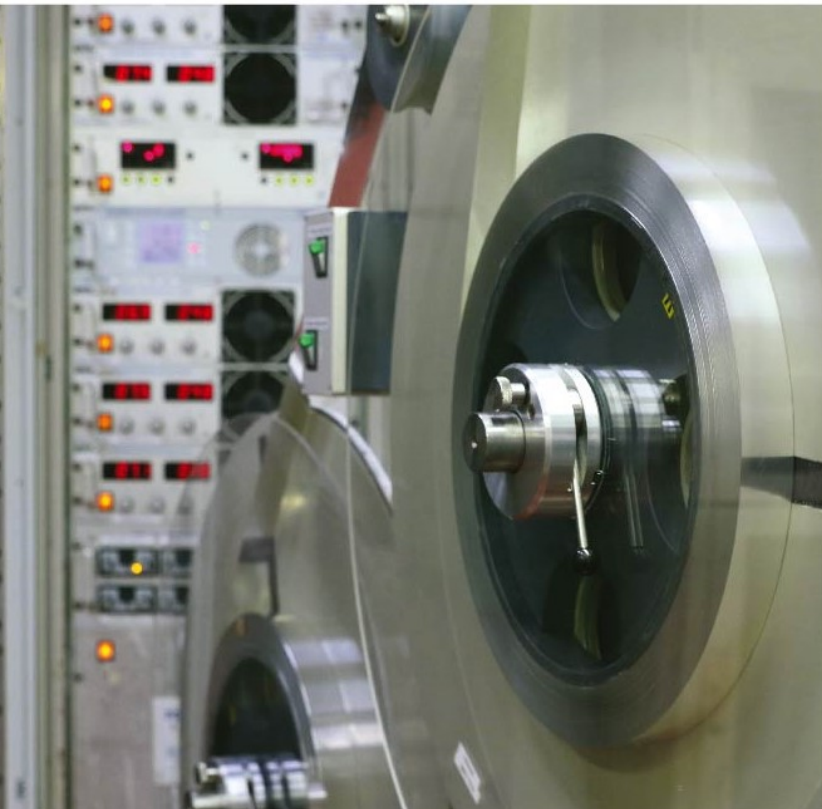
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plating reliability

As part of our policy of maximum self-sufficiency, we design and build our own high-speed electroplating plating lines.

We currently have 8 in-house electroplating lines with the capability of plating stamped components reel to reel as well as pre-plating of continuous coil material for subsequent stamping.

Our Engineers can help our customers with selection of plating finishes and with our fully equipped process laboratory we can monitor and control plating solutions and thickness of plating to ensure we minimise waste and meet our customer and environmental requirements.





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Plating Reliability

8 in-house reel to reel electroplating lines:

- Precious metal plating
- Selective plating

Fully equipped laboratory for process control and customer repeated testing:

- Metrohm Titrand 905 Titration Unit
- 3 x Fischer XDL-B Multi-Layer X-ray
- Agilent 4200 Microwave Plasma Atomic Emission Spectroscopy
- Merck Prove 600 UV Spectrophotometer
- CEM Microwave Digestion
- Buehler Grinder Polisher
- Effluent treatment plant

Quality Management Systems

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Market Sectors

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- Automotive
- Telecoms
- Medical
- Industrial
- Aerospace
- Power Electronics
- Consumer



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tooling reliability

All of our tooling is made in house which integrates into our core objectives.

With a fully equipped toolroom we manufacture tooling to meet our customer demands.

One of the most significant investments in tooling we have made is in the design, development and implementation of the standard modular tool format which allows us to standardise the design thus resulting in significantly reduced lead times and cost to the customer.





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Tooling Reliability

All Batten and Allen tooling is made 'in-house':

- Fire proof tool storage as part of our disaster recovery planning
- High accuracy modular design for high volume and SMED activities
- Bespoke 'standard' tooling for high accuracy mid volume
- Prototype, development and low volume 'soft' tooling

5 x GF Machining WEDM

- Twin wire capability
- 0.03mm minimum diameter
- Carbide, sintered tool steel and more

Quality Management Systems

- ISO 19001
- ISO 14001
- IATF 16949
- CFSI (conflict free supply Chain)
- REACH
- RoHS

Market Sectors

- Electronics
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40 Years of Board to Board Connecting and Still Setting the Standard

Dual In Line (SIL)

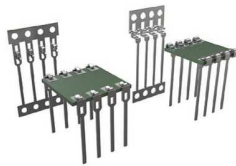
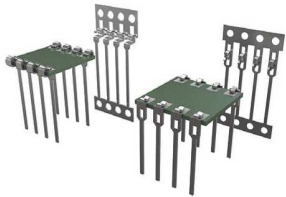
Mounting horizontal board to horizontal board

Features:

- Through hole mount
- Standard Pitch Sizes
- Edge or central mounting
- Break-off tie bars top & bottom
- Multiple orientation options available
- Multiple plating options
- Multiple material options

Benefits:

- Low cost effective solution for through hole board to board interconnect
- High reliability
- Provides framework for board stacks
- Maximises available board space
- Easy rework capability
- Low set-up costs



Surface Mount (SML)

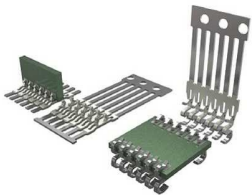
Mounting horizontal board to horizontal board

Features:

- Surface Mount
- Standard Pitch Sizes
- Vertical or horizontal mounting
- Available with break-off tie bars
- Multiple plating options
- Multiple material options

Benefits:

- Low cost effective solution for through hole board to board interconnect
- High reliability
- Maximises available board space
- Easy rework capability
- Low set-up costs



Single In Line (SIL)

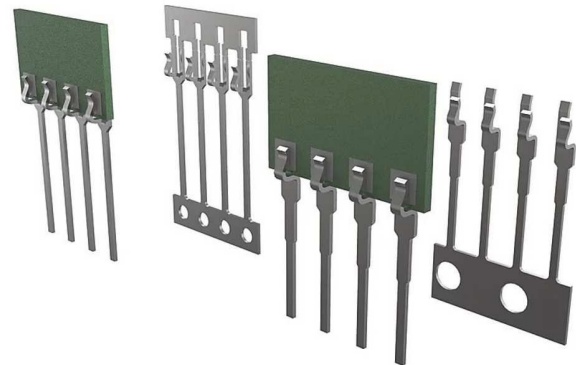
Mounting vertical board to horizontal board

Features:

- Through hole mount
- Mounting in-board or out-board
- Standard Pitch Sizes
- Edge or central mounting
- Break-off tie bars
- Multiple orientation options available
- Multiple plating options
- Multiple material options

Benefits:

- Low cost effective solution for through hole board to board interconnect
- High reliability
- Provides framework for board stacks
- Maximises available board space
- Easy rework capability
- Low set-up costs





NEW TO MARKET

Z-Clips

Mounting horizontal to horizontal board with gap

Features:

- Surface Mount
- Available in different sizes
- Tape & Reel Available
- Compatible with pick and place units

Benefits:

- Low cost effective solution for surface mount board to board interconnect
- High reliability
- Provides vibration resistance
- Maximises available board space
- Provides circuitry air gap
- Low set-up costs



Stacked Ceramic Capacitor Lead frame (SCCL)

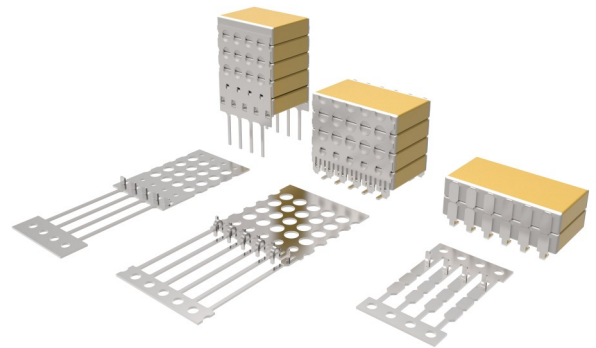
Stacking ceramic capacitors and mounting to horizontal board

Features:

- Through hole or surface mount
- Standard Pitch Sizes
- Available with break-off tie bars
- Allows greater design flexibility of ceramic capacitor arrays

Benefits:

- Low cost & effective solution to capacitor stacking
- High reliability
- Low set-up / entry costs
- Wide range of sizes
- Multi stack height - upto 4 high





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