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24/7 COIL-FED MACHINING

IN THE ELECTRONICS INDUSTRY

As the electronics industry continues to evolve, manufacturers face increasing pressure to deliver robust, high-precision components that can withstand the rigours of the sector. With the growing demand for advanced electronics, production processes must be both efficient and scalable.

Coil-fed machining has emerged as a powerful solution – offering continuous, automated manufacturing that reduces waste, cuts labour costs, and ensures consistent quality. This guide from Muller England outlines how coil-fed machining works, its benefits within the electronics industry, and why it is becoming essential to competitive manufacturing in the UK and beyond.



The image features a close-up of industrial machinery, likely a press or cutting tool, with a blue frame and a yellow diagonal overlay. The text is positioned on the yellow background.

**Ensuring
repeatable
quality across
global supply chains.**

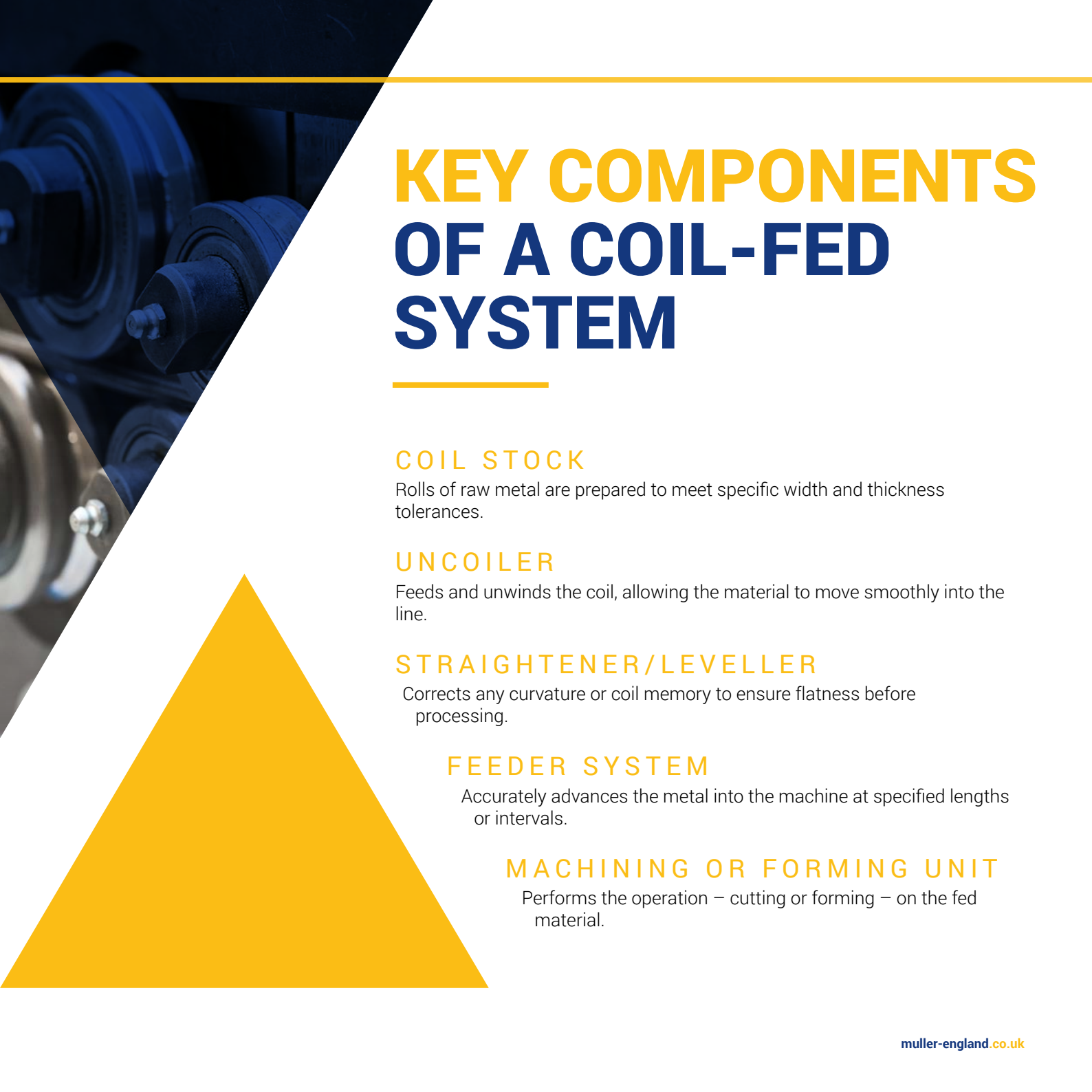
WHAT IS COIL-FED MACHINING?

Coil-fed machining is a manufacturing process in which metal material – typically steel, aluminium, brass or stainless steel – is supplied in a coil and automatically fed into a machining or forming system.

Unlike traditional bar-fed systems that require manual handling of individual blanks, coil-fed systems provide a continuous flow of material, ideal for high-volume, repetitive part production.

This technology is well-suited to lights-out manufacturing, where machines operate 24/7 with minimal human intervention – maximising output and efficiency.





KEY COMPONENTS OF A COIL-FED SYSTEM

COIL STOCK

Rolls of raw metal are prepared to meet specific width and thickness tolerances.

UNCOILER

Feeds and unwinds the coil, allowing the material to move smoothly into the line.

STRAIGHTENER/LEVELLER

Corrects any curvature or coil memory to ensure flatness before processing.

FEEDER SYSTEM

Accurately advances the metal into the machine at specified lengths or intervals.

MACHINING OR FORMING UNIT

Performs the operation – cutting or forming – on the fed material.

ELECTRONICS INDUSTRY APPLICATIONS

In electronics, components must be durable, corrosion-resistant, and manufactured to tight tolerances. Coil-fed machining is used to produce:

CONNECTORS

PINS

SCREWS

By using coil-fed technology, Muller England can produce these parts in high volumes with minimal downtime, supporting both batch and mass production.



MANUFACTURING BENEFITS

CONTINUOUS PRODUCTION

Operate 24/7 with lights-out capabilities, reducing reliance on shift workers and manual input.

IMPROVED EFFICIENCY

Automated feeding eliminates load/unload delays and reduces setup times.

MATERIAL SAVINGS

Continuous feeding results in less offcut waste compared to bar-fed methods.

LABOUR REDUCTION

Minimal manual intervention is required, lowering labour costs and reducing risks of human error.

SCALABILITY

Easily adapt to increased production demands without the need for significant retooling.

CONSISTENT QUALITY

Automated processes ensure uniformity in parts, which is critical for components used in this industry.

GLOBAL MARKET COMPETITIVENESS



As UK electronics companies expand into global markets, competitiveness hinges on innovation, efficiency and consistency. With countries investing heavily in sustainable and technologically advanced solutions, Muller England's ability to produce precision parts quickly and cost-effectively is a strategic advantage.

Coil-fed machining is more than a production upgrade; it is a strategic asset for electronics manufacturers aiming to scale efficiently, improve quality, and stay competitive in a global marketplace.

By embracing automation and continuous production, companies can better support the growing demand for advanced electronic equipment while aligning with sustainability, innovation and precision goals.

For the electronics industry, the future of manufacturing is fast, flexible, and coil-fed.

The future is Muller England.



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