

# THE DIFFERENCE BETWEEN LONG AND SHORT GRAIN PRINTING

YM Group have a broad range of both long grain and short grain web offset presses

Long grain presses are configured to print traditional A4 and A5 size products.

Short grain presses were introduced to offer more flexibility with a wider range of product formats, without wasting paper.

## Technical Difference

Short and long grain printing presses have different size printing cylinders in terms of circumference and width. Long grain presses have printing cylinders with larger circumferences than short grain. Short grain presses use wider cylinders than long grain. This affects the width of the paper reels used on the different presses and consequently the size of the most cost effective print format.

## To explain further let's compare...

48pp long grain press vs 48pp short grain press

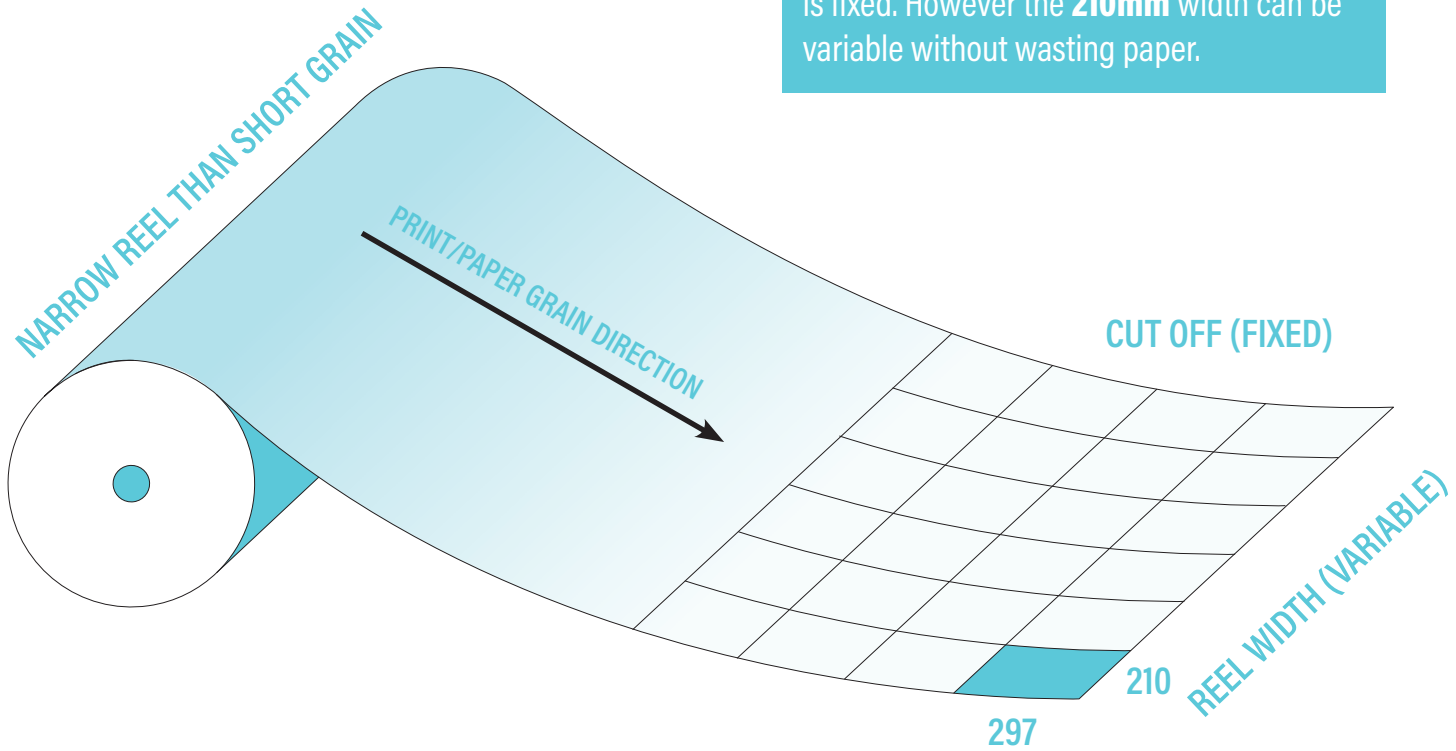
For both presses:

- Paper is fed by reels
- The paper reel width is variable. We buy paper to suit product size
- The section cut off size (length) is determined by the circumference of a roller and is fixed

The key difference is the lay down direction of the printed image on the section as shown on the next page...

# LONG GRAIN

If you reduce the **297mm** length, the paper will be wasted because the section cut off is fixed. However the **210mm** width can be variable without wasting paper.



# SHORT GRAIN

If you reduce the **210mm** length, the paper will be wasted because the section cut off is fixed. However the **297mm** width can be variable without wasting paper.

