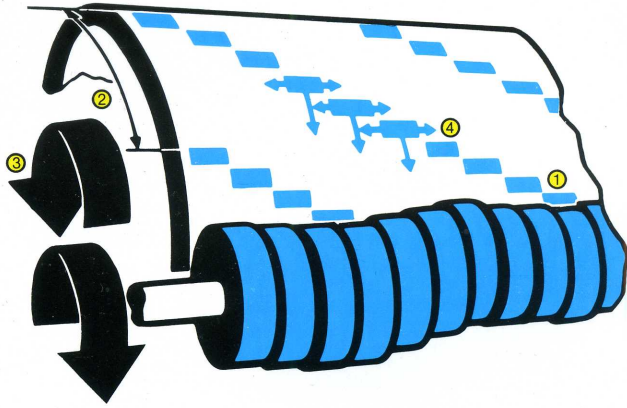


## CUIM INKING SYSTEM

- 1 Schematic arrangement of ink film over the surface of the copper plated roller.
- 2 Variable pitch.
- 3 Direction of rotation of the roller.
- 4 Spreading of the ink film is illustrated by the arrows.



The inking system used by Baker Perkins is specially worth mentioning. It is a patented system, unique in printing presses — called the CUIM system.

The CUIM roller is a 'continuously undulating inking mechanism' feeding ink between the duct roller and the distribution system.

The roller consists of 13 rubber covered discs which are individually mounted on ball bearings. Each bearing is then mounted on an eccentric bush. The rubber discs are then mounted on a shaft with a 60° radial displacement relative to each other. This results in rubber discs in groups of six, each with varying contact pressures between the duct roller and the first copper roller in the distribution system. The CUIM shaft is driven by a variable speed motor and the resulting pattern of ink shown on the accompanying diagram ensures that ink distribution starts with the initial application. This is a great improvement over reciprocating duct roller application.