

-12-

ABSTRACT

A DRIVE SYSTEM
FOR A PRINTING MACHINE

In a typical machine line, for example in the production of printed paper board blanks, there is included at least one flexographic printing machine (12, 16) having three rotary members consisting of a printing cylinder (13), an impression roll (14) and an anilox roll (15), the three rolls being individually driven via three separate frameless brushless DC servo motors (30, 31, 32) each connected to a separate digital speed controller (33) all of which are under the command of a micro-processor control system (34). Preferably, an entire machine line is controlled by a single micro-processor control system (50) conveniently connected by optical fibres to a plurality of digital speed controllers (51) each connected to one of the several drive motors within the system. The system provides flexible operating control and extremely accurate print registration previously not possible with single motors drivingly connected to several rotary members.

(FIG. 3)