

## OPERATIONAL DESCRIPTION

MDP40C is a multi-purpose Passbook compact desktop printer, designed to be integrated in an ergonomic environment. The dot matrix printer support a wide range of applications, including a variety of passbooks and one-part and multi-part cut forms. MDP40C provides a high level of reliability, form-handling accuracy and data integrity.

A complete paper handling is provided by the basic printer and its options:

- High print pressure for multi-part document
- High print quality by a 24-wire printhead
- Paper thickness adjustment (AGA)
- Automatic paper loading/ejection.
- Auto Document Alignment feature

The printer can be described as the complex of following parts:

### *MECHANISM:*

- a) A stepper motor and a minipitch belt provide the movement of a carriage carrying a print head. The print ribbon cartridge is driven by a mechanical coupling to the carriage movement.
- b) A stepper motor provides the movement both to the rear tractor assembly and to the paper pressing rollers.
- c) A stepper motor drives a guide that allows to open/close the paper pressing rollers and to activate the alignment mechanism to provide the *Auto Document Alignment*.
- d) A stepper motor performs the function of Automatic Gap Adjustment (AGA) of the printhead gap to the paper thickness.
- e) Printhead having 24 wires.
- f) Cabinet which allows lifting of front cover for ribbon substitution and paper path check and lifting of rear cover for tractor management and paper loading.

## *ELECTRONICS :*

- a) Main board which controls both the engine and the external interfaces, particularly all the mechanical and electrical parts (carriage, print head, motors, sensors, o.p. etc...).
- b) Two interface connectors ( serial or parallel ), providing all signals adapting for connection to host (MS-DOS Personal Computer or similar equipment ).
- c) Operator panel placed on the front cover, providing seven push buttons, and seven lights, that interacts with parameters setting for menu operation.
- d) Cabinet with a cover open sensor, in order to inform the printer when the front cover has been lifted for ribbon substitution and paper path check.
- e) Two power supply versions, 120VAC 60Hz and 230VAC 50Hz