

OPERATIONAL DESCRIPTION

The Compuprint Castore 10200 is a multifunctional printer intended to support EDP and/or Office Environment applications requiring high throughput (up to 1100 cps), high level print quality and graphic capabilities, either in black or colour, in order to print texts, diagrams, business or technical graphics .

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

- Two coexistent fanfold paper paths, performed by the upper and the lower front tractors;
- Automatic Parking and Loading for both the paths;
- Automatic alternance between the two fanfolds: upper and lower fanfold paper tractors are automatically engaged/disengaged according to the paper selection.
- Automatic or programmable adjustment of the print head position according to the paper thickness (AGA).

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

MECHANISM:

- a) A brushless motor (cooled by fan) and a minipitch belt provide the movement of a carriage carrying a print head.
- b) The rubber drum movement for paper translation is obtained via stepper motor and paperpressing rollers which applies to the single plain paper transport. Dedicated clutches connect each transport to the motor and allow an automatic paper movement alternance.
- c) Three additional stepper motors which control, the first one the vertical motion of the ribbon cartridge (color option), the second one the horizontal motion of the inked ribbon and the last one the adjustment of the printhead gap according to the paper thickness or to the values inserted through the operator panel .
- d) Two coexistent motorized tractor assemblies, push type standard; the two mechanisms can be alternatively engaged/disengaged according to the paper selection.
- e) Print head having 24 needles.
- f) Ribbon cartridge.
- g) Cabinet which allows lifting of upper cover for ribbon substitution and paper path check and lifting of front cover for tractors management and paper loading.
- h) An optional rear pull-only tractor improves the paper speed.

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) An on-board interface connector (Centronics), providing all signals adapting for connection to host (MS-DOS Personal Computer or similar equipment).
- c) Optional interfaces boards to install in the interface drawer, to perform connection to the host via serial interface or future LAN interface
- d) Operator panel placed horizontally on the front of the cover, providing seven push buttons, lights and alphanumeric LCD display, that interacts with parameters setting for menu operation and interlock switch.
- e) Two connectors which provide to manage options: the rear pull tractor and future uses.
- f) Cabinet with a cover open sensor, in order to inform the printer when the upper cover has been lifted for ribbon substitution and paper path check.
- g) A multi-voltage power supply, cooled by fan, performing both 120VAC 60Hz and 230VAC 50Hz
- h) Two brushless fans for cooling carriage motor, power supply and main board components.
- i) An optional brushless fan for cooling the printhead, to improve the printer performances.