

Domino A200 Cabinet



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Ink Jet Printer
Domino Type A200

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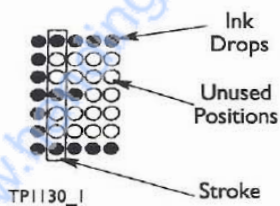
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 All measures in mm.

Lager nr. /LH

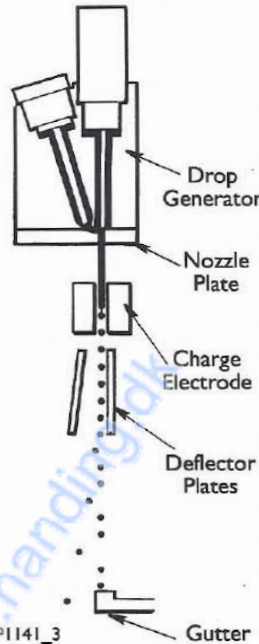
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PRINT HEAD

General Principles



Each printed character consists of a dot matrix made up of lines, or strokes, of ink drops. The ink drops in each stroke are spaced apart by electronic deflection and the strokes are spaced apart by the movement of the print surface under the head.



Inside the print head, ink is supplied under pressure to the drop generator, and emerges through a small nozzle as a very fine jet. The drop generator contains a drive rod which creates ultrasonic pressure waves in the ink, making the jet break up into a stream of separate drops shortly after leaving the nozzle.

The break-up is adjusted to occur within the charge electrode, where each ink drop is given an electrostatic charge by putting a voltage onto the charge electrode as the drop breaks off. The size of the charge on the ink drop depends upon the voltage on the charge electrode.

The ink drops then pass through the electrostatic field set up between two high voltage deflector plates. The direction of flight of each charged ink drop is deflected by an amount dependent upon the size of the charge.

Ink drops not required for printing are not given electrostatic charges and are collected in the gutter.

Details

The print head components are mounted on a rigid chassis, with a fully enclosed top section containing the connections between the print head and conduit wiring.

The print head slides into a protective holster and is locked into place by a screw in the rear. The holster is mounted in the printing position and contains precision guide rails to ensure that the print head always returns to exactly the same position if the print head is removed and replaced.

Ink jet. The ink jet is created by the drop generator assembly, which consists of the drop generator, fitted with a nozzle plate through which the ink jet emerges. The drop generator contains a drive rod which generates the ultrasonic pressure waves into the ink. The drop generator also has a heater built into it with the temperature controlled by a sensor embedded into the drop generator wall. Heating the ink reduces the effects of variations in ambient temperature and improves drying times with certain inks. A solenoid-operated plunger seals the nozzle when the jet is switched off.

The control system includes a bleed function which increases the ink flow through the drop generator and sweeps out any traces of air or solid material.



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