

# New DOD Printhead For Industrial Applications

*Haggai Karlinski  
Aprion Digital  
Herzlia B, Israel*

## Abstract

A novel drop on demand, Piezo based inkjet printhead, was developed in Scitex Corporation in the last 7 Years.

In the last 7 years, a novel inkjet printhead was developed in Scityex Corporation. The printhead is a Drop on demand, Piezo based inkjet. It is built around a core of sintered stainless steel porous material that provides a number of advantages, among them:

- Very high ejection frequencies with low cross-talk
- Structural Simplicity and hence reliable and low cost printhead,
- Very effective ink filtration.
- Building materials tolerant to a wide range of ink formulations.

These features make the new printhead very attractive to Industrial applications.

This paper describes the printhead structure in detail, summerizes the main jetting characteristics and discusses possible printheads arrangements for different applications.

## Biography

Haggai Karlinski is the manager of Ink Jet Printhead Development group in Aprion Digital.

In 1992 joined scitex corp., where he invented and started the development of a new Drop-on-Demand inkjet head. The new Technology, which was later patented, became the basis of a new advanced printing product division in Scitex, of which Aprion Digital was formed in September 1999.

In the last 10 years Haggai has been involved in Drop On Demand technology and worked on almost all aspects of the technology including design and testing of printheads, maintenance stations and ink supply systems.

Prior to Scitex, Haggai worked in Aviation industry both in Israel and in General Electric Aircraft Engines Company in USA in the field of fluid Dynamics.

Haggai Holds a B.Sc. degree in mechanical engineering From Tel Aviv University and M.Sc. Degree in Thermal Power engineering from Imperial College, London.