



MCS

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IN-HOUSE DESIGN AND DEVELOPMENT

MCS designs and develops its system entirely in-house and is not a reseller of third party systems. From software and hardware development to on-site installation and telephone support, MCS provides a direct line to personnel that are the best equipped to answer questions and solve problems. MCS is unique among the major suppliers of industrial inkjet equipment – as there are no required monthly service charges on new equipment purchases.

All MCS inkjets have the capability of running at high press speeds for integration into popular flexographic label presses such as Mark Andy.

TWO TECHNOLOGIES

Two technologies provide the cornerstone of all MCS inkjet products: The MCS Eagle inkjet has the widest high-resolution print head in the industry. With a width of 4.25" or 8.5", and a print resolution of 600 dpi, this system is geared for label converters or forms printers that require the high resolution demanded by small bar codes such as the HarvestMark or large bar codes and numbering.

The wide print format also allows much greater impositioning and layout possibilities without the problem of crossing print-head boundaries or "stitching." This eliminates the common industry problem of not being able to print a long bar code across the web.

The Eagle print-head can run at speeds of over 300 feet per minute when in print mode of 600 x 300 dpi. Using the UV curing, native to many presses – or with add-on curing modules from MCS, the system can also be mounted on rewind or inspection systems in addition to flexo presses.

The Eagle has a new PDF option to allow complex graphics to be loaded directly



from PDF files. This is an easy way to accommodate ultra-short black versioning jobs instead of changing the black flexo plate.

The UV-Curable ink has some of the smallest drop sizes available. In addition to providing a greater production yield from each bottle, the smaller drops provide a thinner layer of ink. This allows quicker curing and the thin layer makes products like "scratch-off" numbering now possible without a raised, "braille-feel" to numbering or text. The ink is VOC free and more environmentally friendly than older solvent technologies.

The Falcon is MCS's low-cost HP-based inkjet system that also has 600 dpi resolution and top print speeds of 250 feet per minute. The system is comprised of 4" and 2" print heads that are made up of stitched, industrial ink cartridges from HP. Multiple heads can be integrated to provide total print width capability of up to 24". These systems are well suited for numbering, text and simple bar coding jobs.

Each of these MCS inkjet systems operate under the MCS Raptor Controller System. It provides easy job layout—whether the need is for bar coding, numbering or variable graphics. All variable information can be driven by internal counters or from database files. In addition MCS provides a PDF option that allows direct input of variable PDF files.

MCS customers have consistently reported production increases of 30% to 50% and ink use decreases of 25% to 40% compared to previous technologies.

