MCS

INDUSTRIAL INKJET TECHNOLOGY

MCS TK 17
Inkjet Web Printing Systems

MCS TK 17 Inkjet Web Printing System

TK 17 with Eagle 8530: Low-cost, high-quality, page printing on web presses
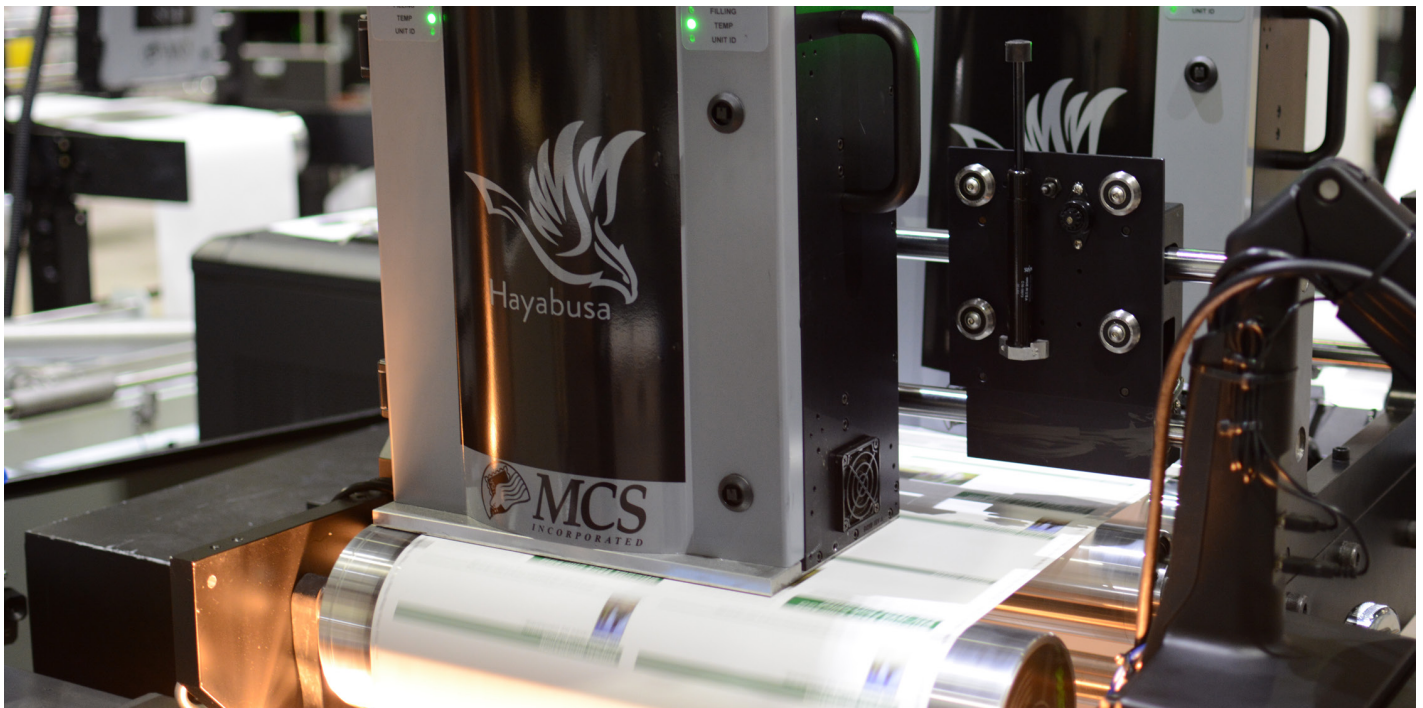**TK 17 with Eagle 8540: High-speed, high-quality, page printing on web presses**
TK 17 with Hayabusa: Ultra-high-speed, high-quality, page printing on web press

The MCS Difference

The MCS TK 17 Inkjet Web System is engineered to maximize the print quality of MCS inkjet print heads on web based systems. The TK 17 works with most existing web configurations including presses, bindery lines, or stand alone systems.

MCS TK17 Inkjet Web Printing Systems

- No click charge - one of the lowest operating cost monochrome inkjet presses.
- High-Speed and Ultra-High-Speed - Up to 1,000 fpm (over 130,000 letters per hr)
- Size and Mounting Flexibility - 4 1/2", 8 1/2", 17" and 34" systems.
- Ink Flexibility - Dye, pigment and polymer pigment inks
- Printing Flexibility - Print on porous, coated, aqueous coated , up to 12pt stocks including label stock.
- Specialty Applications - Including invisible barcodes & text and MiCR ink

MCS TK 17 is ideal for:

- Letters
- Labels
- Barcodes
- Self-mailers

Optional Configurations

Bindery

- Roll to Roll
- Roll to cut
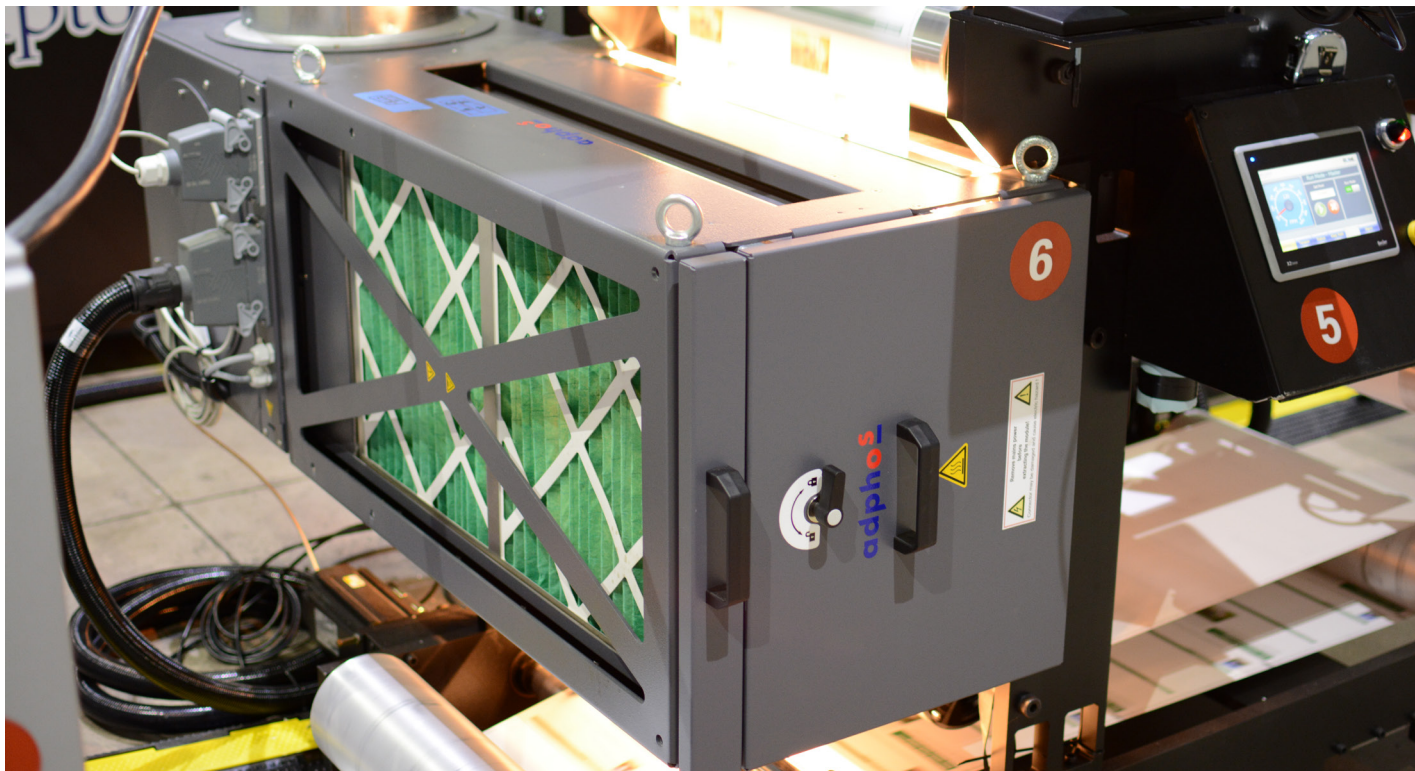- Roll to cut to fold

Presses

- In-line with forms press
- In-line with flexo press

Imaging Savings

Inkjet imaging offers flexible imaging configurations at 75 to 90% less imaging cost than comparable toner technology. With inkjet imaging, you pay for the imaging that you use, no click fee.

Ink Options:

- Eagle AS100 Ink – Surpasses UV and solvent based inks with higher reliability and performance at a lower operational cost.
- Dye, pigment & polymer ink formulas available. Print on porous, coated and even aqueous coated stocks. Over 10 inks sets available!
- Users are able to change ink formulas between jobs with the Eagle systems.

Drier Option

The TK17 is designed to handle all popular stocks used by mail manufacturers. It utilizes a combination of specially designed nano-polymer inks along with Near-Infrared Drying technology. The result of several years of development now gives the customer the capability to:

- Print on high gloss, aqueous coated stocks at full speed.
- Print on coated label stock with full adhesion and without adverse impact to heat-sensitive glues.
- Print on uncoated and offset coated stocks to create richer blacks than traditional inkjet.

Why MCS?

Founded in 1991, MCS is the leading manufacturer of industrial DOD (drop on demand) inkjet systems used in the mail manufacturing industry worldwide. MCS is heavily involved in many areas of the mail manufacturing industry including inkjet addressing systems, high-speed page printing systems, and high-speed inserting systems.

TK 17 Specifications			
Maximum Paper Width	20"		
Maximum Transport Speed	1,000 fpm		
Simplex / Duplex Print Head Configurations	Standard Simplex Configuration: 2 x 8.5" Print Heads Optional Duplex Configuration: Additional 2 x 8.5" Print for reverse side		
Operating Speeds / Resolutions	**Hayabusa** 1,333 fpm* (600 x 300 DP) 1,000 fpm (600 x 400 DPI) 667 fpm (600 x 600 DPI)	**TK 1740** 667 fpm* (600 x 300 DP) 500 fpm (600 x 400 DPI) 333 fpm (600 x 600 DPI)	**TK 1730** 500 fpm (600 x 300 DPI) 375 fpm (600 x 400 DPI) 250 fpm (600 x 600 DPI)
Throughput 8.5 x 11 letters per hour (lph) (simplex)**	**Hayabusa** 174,000 lph* (600 x 300 DPI) 130,000 lph (600 x 400 DPI) 86,000 lph (600 x 600 DPI)	**TK 1740** 87,316 lph* (600 x 300 DPI) 65,455 lph (600 x 400 DPI) 43,593 lph (600 x 600 DPI)	**TK 1730** 65,455 lph (600 x 300 DPI) 49,091 lph (600 x 400 DPI) 32,727 lph (600 x 600 DPI)
Maximum Paper Weight	100 lb cover (Up to 12 pt)		
Inkjet Resolutions	Variable Drop Size for Gray-Scale 600x600 DPI 600x400 DPI 600x300 DPI	Variable Drop Size for Gray-Scale 600x600 DPI 600x400 DPI 600x300 DPI	Constant Drop Size 600x600 DPI 600x400 DPI 600x300 DPI
Workflows / Documents accepted	PDF & IJPDS Workflows. MCS Raptor Native Workflow.		
Document Registration / Top of Form Indicator	Registration Marks, Pin Feeds, Other Optional Sensors		
Electrical (excluding dryers)	240 V 3 Phase 30 AMP		
Electrical (for Dryers)	480 V 3 Phase 30 AMP (2 for Duplex)		
Inline Integration	Tight Web and Loose Web options Integrate with: • High-Speed Cutters (MBO, Hunkeler, etc) • Loose web pre & post – Spedo, RSI, ESP, etc. • Flexo and offset presses		
Options	Simplex / Duplex MICR Print Heads Invisible Ink Printing & Tracking		
* Print speeds are higher but recommend limit of transport is 1,000 fpm. ** Duplex speeds result in exactly twice the number simplex pages and the number of duplex sheets is the same as the number of simplex pages			