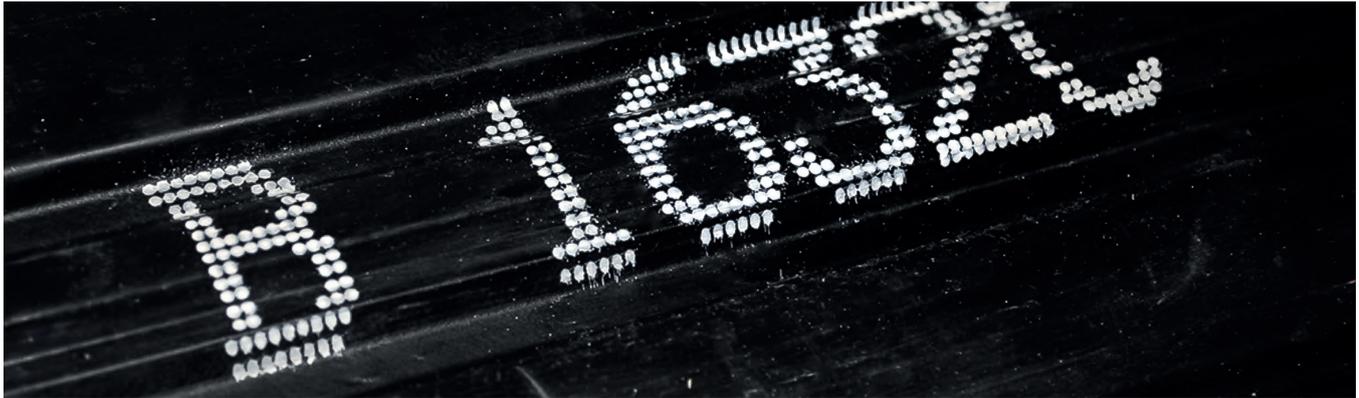


# Agitating & Circulating Ink System (ACIS)

## RUBBER MARKING SYSTEM



Curable ink jet printing system for high contrast, permanent marking.

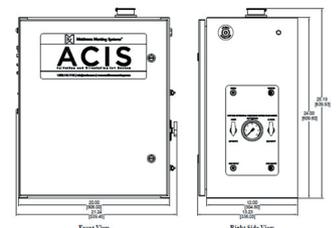
Matthews Marking Systems offers a unique large character ink jet printing system developed specifically for uncured rubber, where the ink must withstand the curing process; including tire and tread marking.

- ➔ Prints real time information, variable text, graphics, barcodes, and 2D codes
- ➔ Improves traceability and limits the potential to incorrectly code products
- ➔ Easily interfaces with PLC or network controls
- ➔ Reduces maintenance required to clean and maintain equipment
- ➔ Performs reliably, even in the harshest environments
- ➔ Eliminates damages to the rubber with no contact

This system features a curable rubber marking ink that is fast dry, HAPS free, and eliminates transfer or shadowing in the mold.

It also features Matthews exclusive 8000+ macro-valve print head technology, the most reliable drop-on-demand system in the industry, providing tremendous reliability, easy maintenance, and dramatically lower ink consumption:

- ➔ 6 billion cycles before retuning, outlasting the competition
- ➔ Higher operating pressure reduces potential print head clogging issues
- ➔ Impressive print quality and speed capability



## ACIS

### Technical Specifications

print-head	lines of print	min. char. size	max image size	max speed	max imprint distance*	operating temp range and humidity
16(v)	1-2	1/4" (6.35 mm)	2 1/2" (63.5 mm)	780 fmp/ 3.96 mps	1/2" (12.7 mm)	41°F-113°F (5°C-45°C)
32(v)-	up to 4	1/4" (6.35 mm)	5" (127 mm)	780 fmp/ 3.96 mps	1/2" (12.7 mm)	humidity range: 10%-85% (non-condensing)

\* greater print distance can be supported, by reducing print quality.

Utilities Required	Air: 30 to 40 PSI, 1 SCFM (2.76 bar, 0.47 L/sec.) Clean, dry air- an air filter/regulator kit is available as an option Electrical: External power supply Input: 100-240 VAC, 50-60 Hz, 2.0 A Output: 24 VDC, 3.75 A (90 W max.)
Cabinet Weight	Approximately 82 lbs. (37.2 kg)
Cabinet Dimensions	25.5" H x 21.25" W x 13.25" D (Approximate; includes door and filler tube cap)
Ink Supply Pressure	Factory set for 15 PSI (1 bar)
Maximum number of printheads	Maximum 64 valves, using two 16, or two 32 valve 8000+ Series Printheads; Configured for pigmented heptane based ink
Ink Reservoir Capacity	4 liter (135.26 oz)
Output/Input	Print trigger circuit offered to halt print 30 minutes after low ink detected or to send low ink output to PLC

### Acis warning beacon

- green: normal running condition
- red: low Ink Level
- flashing red: warning that low ink level has not been corrected
- yellow: high ink level – too much ink has been added; overfil situation

### Inks

Unlike many of our competitors, Matthews formulates and produces the ink used in our ink jet print technology. By choosing Matthews for printers and consumables, you benefit from other supplier, one source, one partner.