

# InkMax

## Precision Ink Level Control



## Automatic Ink Leveler System

The Inkmax ink leveling system is a simple and low-cost solution to automatically maintain consistent ink levels in press fountains. Maintaining a uniform level of ink minimizes ink density variations, improves final print quality, and reduces clean-up time during changeovers.

The InkMax system is easy to install, maintain, and operate. The leveler mounts to the fountain cheek plate brackets and fits within a 4 x 5 inch profile. The leveler assembly is available in both right-hand or left-hand configurations to match operator side control. The system also includes an optional easy-to-replace in-line ink filter. Quick-disconnects for air and ink supplies are provided for easy removal.

The InkMax system features a high-quality capacitive proximity sensor to detect and maintain ink level to within .125 inches (3mm). The sensor is mounted on a slide mount assembly which allows users to position the sensor to any desired position over the fountain. When used with the optional shut-off valve nozzles and fountain dividers, this configuration allows operation with half-web press runs.

An optional ultrasonic sensor is available for applications that require greater distance between the leveler and fountain. This type of sensor is useful to avoid interference with agitators or other components installed nearby. The ultrasonic sensor includes additional outputs that can be used to detect extreme under or overfill conditions.

The control box, mounted on top of the ink leveler frame, features a single three-position switch for manual or automatic control. The Power and Fill indicators provide visual indication of system operation. When the switch is placed in the Automatic position, the system automatically maintains ink level as determined by the distance from the sensor. The Manual position is a momentary-contact position, the system fills the fountain as long as the operator holds the switch.

Let the InkMax system provide you with an effective, reliable solution to maintain your press ink levels.

- One-piece design allows quick and easy installation.
- Controls ink level to within .125" (3mm).
- Control box on operator side for easy and safe operation.
- Adjustable sliding sensor for split fountain or half-web applications.
- Power and Fill indicator lights for easy monitoring.
- Available in left or right hand configurations. Both designs also allow reversible use.
- Compact and lightweight Design.
- Available in custom lengths.

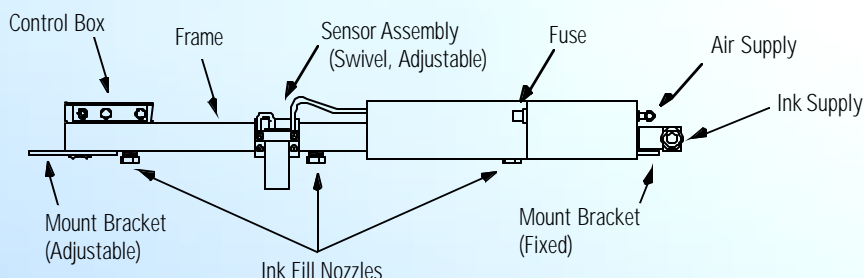


*Ink leveler operation is automatically disabled when the sensor is rotated 90°. This feature prevents unintended operation during changeovers and preparation.*

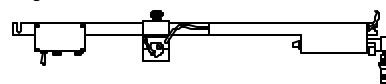
**U.S. Automation, Inc.**



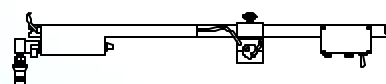
## Module Features & Configurations



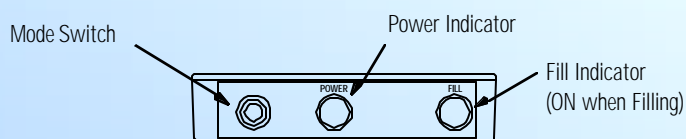
Right-hand Model



Left-hand Model



### Control Box



### Mode Switch Positions

- Left = Manual Fill (Momentary only)
- Center = Power OFF
- Right = Automatic Fill (Power ON)

## Specifications & Performance

### Electrical

Voltage: 110/120 (50/60 Hz) @ 1/2 Amp  
 Fuse: 1/2 Amp  
 Optional 220/240 Volt Model Available

### Air Supply

CDA @ 125 PSI Maximum  
 Connector: 1/4-inch O.D. Push-in  
 Air Filter: Built-in

### Ink Supply

Fitting: Male 1/2 inch NPT w/ Swivel Mount  
 Max Pressure: 5000 PSI

### Overall Dimensions - Inches

Length: 24 to 92 (660 to 2337mm)  
 Height: 4.6 (117mm)  
 Depth: 3.6 (91mm)

### Mounting

Bracket Center Hole Distances:  
 Minimum: 22" (560mm)  
 Maximum: 90 (2250mm)  
 Mounting Slot/Bolt Sizes:  
 Gear Side: 10-24 x 1/4 Shoulder Bolt  
 Operator Side: 3/8" Locking Lever

### Ink Nozzles

Total Nozzles: 4 (Typical), up to 8 Max.  
 (Total depends on Frame Base Length)  
 Types: Standard or w/ Shutoff Valve

### Sensor

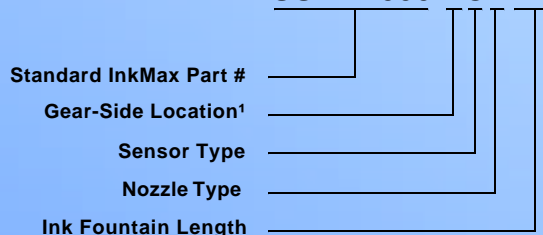
Type: Capacitive or Ultrasonic  
 Sensing Distance (Typical)  
 Capacitive: 1-inch (25mm)  
 Ultrasonic: 5-inches (127mm)  
 Adjustment Range: 9 Inches

### Hose Information

Type: 1/2 inch I.D. High Pressure  
 Fittings: Male 1/2 inch NPT & Female OD  
 Length: Any required. Specify when ordering.

## Part Number & Ordering Options

### USIM-1000-LC1-XX



<sup>1</sup>Gear-Side location determines which end the control box is located. Typically the lever is ordered such that the control box is located on the operator-side of the press.

Ink Max Part	USIM-1000
<b>Gear-Side Location</b>	L = Gear drive on left R = Gear drive on right NOTE: Gear side when facing fountain.
<b>Sensor Type</b>	L = Capacitive U = Ultrasonic
<b>Nozzle Type</b>	1 = Standard 2 = With Shutoff Valve
<b>Ink Fountain Length</b>	Minimum: 24 inches (660mm) Maximum: 92 inches (2237mm) NOTE: Fountain length is inside distance between cheek plates.



21360 Gateway Court  
 Brookfield, WI 53045  
 Phone: 1-262-717-0477  
 Fax: 1-262-717-0479

Web: [usautocorp.com](http://usautocorp.com)  
 Email: [autous@aol.com](mailto:autous@aol.com)

