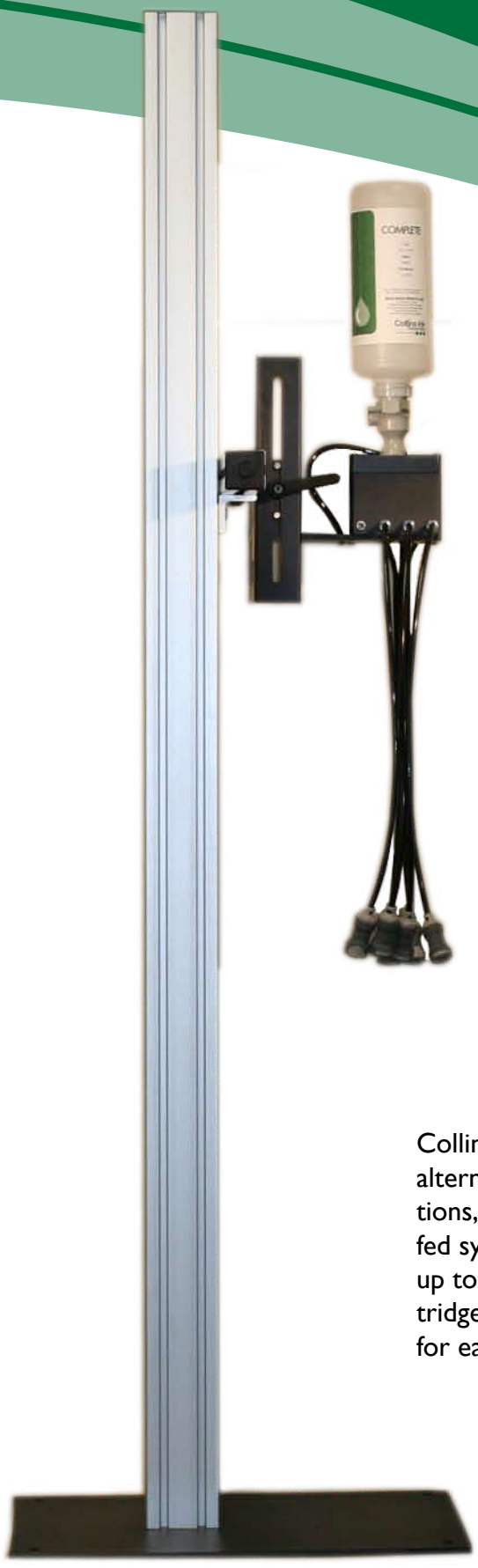
Collins Ink

Bulk Supply Station



Collins Ink's Bulk Supply Station provides a simple alternative to cartridges for high volume applications, while cutting ink costs up 50%. Each gravity fed system consists of a 1-liter ink bottle that feeds up to eight cartridges. Both the bottles and cartridges have a quick disconnect feature that allows for easy changes.

Station and Ink

Bulk Supply Stations

BS4MA
4 Port Manifold system

BS6MA
6 Port Manifold System

BS8MA
8 Port Manifold System

BSFS
Floor Stand

BSS Inks

Complete - BS1	Complete Black, 1 liter
Complete - IM1	Complete Black cartridge with connection
CM-150-BS1	CM-150 Hi-Speed, 1 liter
CM-150-IM1	CM-150 Hi-Speed cartridge with connetion
TWK-1758-BS1	Core Black, 1 liter
TWK-1758-IM1	Core Black, cartridge with connetion
TWK-1386-BS1	Max2 Black, 1 liter
TWK-1386-IM1	Max2 Black, cartridge with connection
TWK-1796-BS1	Max2-H Black, 1 liter
TWK-1796-IM1	Max2-H Black, cartridge with connection

*All prices reflect the less than two cartridge pricing. Refer to the master price sheet for quantity discounts.

*Two cartridges must be purchased with every one liter bottle.

*Standard colors and security inks are also available.

Parts & Pricing

BSPT01 Nipple fitting

BSPT02 Female no drip fitting

BSPT05 Port plug

BSPT06 Four line connected tubing
3 ft. long

BSPT08 Sliding elbow

BSPT09 Slotted crossbar

BSPT10 Adjustable kit

Collins Ink
Bulk Supply Station
Installation Instructions

Step 1. Mounting

Horizontal (Case Coding) Applications

The bulk ink supply should be mounted so that the top of the reservoir is 1 3/8" (3.5cm) above the product print path. This location has been confirmed and tested, however altitude and atmospheric pressure will influence this level. Therefore, you may need to adjust the height of the reservoir in 1/4" increments.

Vertical (Printing Down/Mailing) Applications

The bulk ink supply should be mounted so that the silver out ports (nipples) of the reservoir measures 1.5" to 2" below the print head (cartridge nozzles). This location has been confirmed and tested, however altitude and atmospheric pressure will influence this level.

Once your Bulk Supply Station is installed and primed, you may need to adjust the height of your system in order to find the optimal ink distribution level. The best measurement is in 1/4" to 1/2" increments.

Step 2. Tubing Installation

Please make sure you trim your tubing to allow for the least amount of slack in the lines. You will receive 3 feet of tubing per port and 10" of tubing is attached to each cartridge. You do not want your tubing to have a "rollercoaster" or "spaghetti" effect to it because it can cause a resistance to ink flow.

Step 3. Install the connections

If your bulk ink supply is not configured, you should make your connections at this time.

The reservoir has 8 tapped holes for accommodating different mounting requirements: 4 on opposite sides. Holes can be closed off with the stainless threaded plugs.

Connection locations should have either nylon or stainless steel male connections for installation. All threaded connections should have Teflon tape applied to the threads to ensure a leak free connection. Make sure the Teflon tape does not extend past the threads, because it may block ink flow. Simply screw in these fittings.

To connect the ink tubes, separate them from each other at the ends. Initially, you should separate about 4" (10cm) to allow for connection to fittings. Push the tubes firmly, but carefully, over ink ports on the reservoir. Use caution not to break the fittings.

Next, install the quick connects to the other end of the tubing using the same method. Emery cloth can be used to grip the tubing better. Attachment of these parts is easiest if you moisten the end of the tubing and/or the barb fittings.

Step 4. Prime the bulk ink supply

It is now time to prime the reservoir and tubing with ink. It is recommended that you wear latex or similar gloves also eyeglasses or safety glasses should be used when performing this procedure, as leaks are possible. Locate the 1 liter ink bottle and attach it to the quick connection fitting on the top of the bulk ink supply. At this point ink may or may not begin to fill the reservoir. If ink begins to flow allow it to fill the reservoir. If it does not begin to flow you will need to apply gentle pressure to the sides of the bottle in a squeezing motion to get the ink flowing. Caution: do not overfill. If you overfill the reservoir, ink will begin to spill out of the overflow vent located on the top of the reservoir. Step 4 will allow you to determine the level of the ink.

After attaching the ink tubes to the all of the out ports and attaching the female no-drip fitting to the other end of the tubing, you will need to prime each individual ink line. After all lines are connected, and female no-drip fittings are in place, insert the BS1 bottle with male coupling into the 38mm female coupling allowing the manifold to fill with ink. Now you will be ready to prime each ink line for printing. If you have a 4 port BSS, you will need to prime 4 lines, if you have a 6 port system will need to prime 6 lines and so on.

Priming the lines is very simple:

- Locate the priming piece (pictured above)
- Have a waste container available for the ink to go into.
- Plug the priming piece (male fitting) into one of the out port ink lines (female fitting).
- Allow at least 5mL of ink to run into the waste container.
- Disconnect the priming piece from the primed line. Repeat this process until each of the out-port lines on the Bulk Supply Station have been primed.
- You are now ready to attach the lines to the IM1 cartridges (while the cartridges are in their specific print stall).

Step 5. Install the cartridges

Installation of the cartridges is no different than with ordinary cartridges. Once the cartridges are installed in the print heads, remove the orange connection covers and connect the ink supply tubes.

Once the connections are made, you must use caution when removing cartridges from the print head. If you lower the cartridge below the top of the reservoir, the cartridges will bleed ink. If you raise the cartridge over 6" above the print head, you will pull air into the cartridge. This will cause it to de-prime and possibly be unrecoverable.

Step 6. Check your level

Once all of your connections are made, you may observe a small bubble of air form in the apex of the tube. This is normal. Test the print quality by running several purge patterns and test patterns. After these tests, leave a clean sheet of paper under the print head(s).

Check the paper within 1 minute of initial placement. If there is no noticeable ink, wait 5 minutes and check again. If there still is no sign of ink, check back again after 20 minutes. If there is no weeping or dripping, this is a good installation height.

If the cartridges are leaking or weeping after the first check, immediately lower the bulk ink supply 1/4" (3/4 cm) and wipe the cartridges with a lint free cloth. Perform test again and continue this procedure using 1/4" (3/4 cm) increments until ink no longer weeps from cartridges.

Your installation is complete! If you have any questions, please contact us and a technician will assist you.