



# Mounting instructions

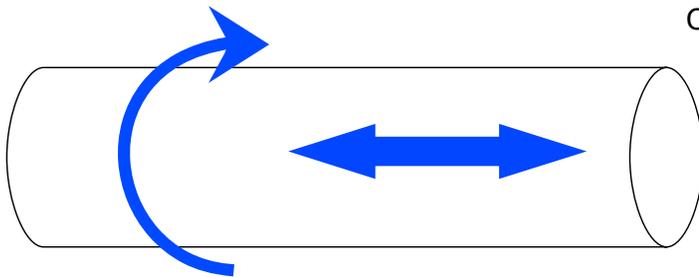
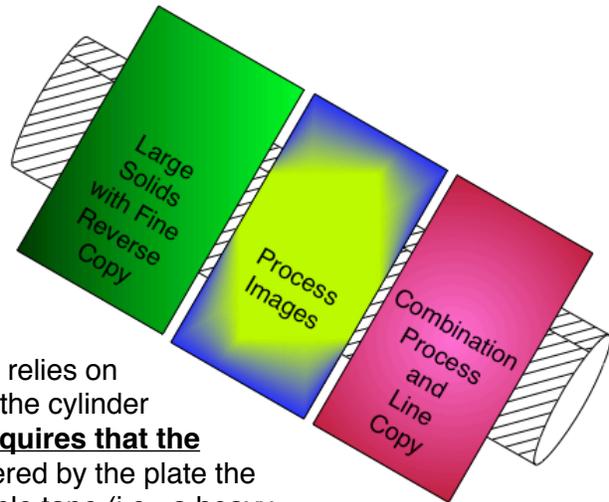
*“Different Technology...”*

*Different Techniques!”*

## Understanding the difference between cellular foam tape and ChannalBAC™

ChannalBAC’s patented technology eliminates the need for multiple density tapes, making it ideal for combination plates, large solids with fine reverses, and other challenging graphics.

In combination with the adhesive system, ChannalBAC relies on the polyester base to hold the plate and the cushion to the cylinder or sleeve during high-speed press runs. This in turn, **requires that the seam be covered with the plate**. If a seam is not covered by the plate the seam must be sealed with a piece of dimensionally stable tape (i.e.. a heavy gauge polyester based packing tape).



ChannalBAC, like cell foam, is supplied with adhesive on both sides, self wound, with the release liner on the plate side. As you un-roll ChannalBAC, the rib side is exposed. This side is adhered to the print cylinder or sleeve. ChannalBAC can be applied around the cylinder, in the cylinder’s rotational direction or across the cylinder face; in either orientation, the ribs will be on a 45° angle.

**Applying ChannalBAC to the cylinder or sleeve surface:** When applying ChannalBAC to the cylinder or sleeve, the material needs to be applied **without a bow**, you want the material to lay perfectly flat.

**Applying ChannalBAC in the cross cylinder orientation:** The key to assuring ChannalBAC lays out flat, is to adhere a 2”, to 3” wide footprint, at the materials lead edge, from the center out, using the palm of your hand.

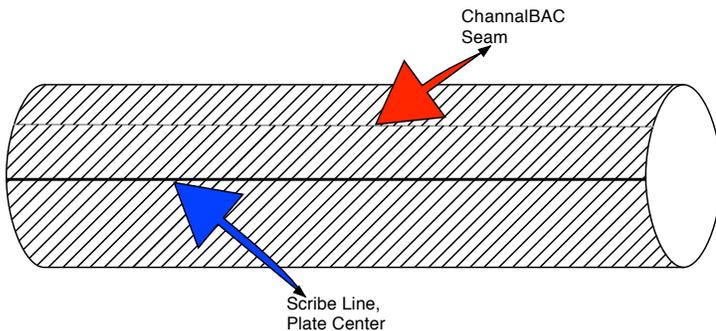
**Note:** If when adhering ChannalBAC to the cylinders surface you notice ripples consistent with what you would describe as air pockets when using cell foam, you have a slight bow in ChannalBAC. The only way to remove these ripples is to remove ChannalBAC from the cylinder and re-apply it, beginning with the lead edge.



**Applying ChannalBAC in the cylinders rotational direction:** This is the preferred method of application. When applying ChannalBAC in the rotational direction, (regardless of the cylinders repeat length), you will have a single seam that needs to be covered by the plate. However, depending on the width of the job, you may have to lay-down more than one lane of ChannalBAC.

Several manufacturers of mounting equipment offer a tape dispenser as an option, if one is not available for your mounting equipment, installing a “tape dispenser” is pretty straightforward. (For additional information on retro-fitting your equipment with a tape dispenser, contact your ChannalBAC distributor or CDT directly). The use of the tape dispenser will assure a flat uniform application of ChannalBAC to the cylinder or sleeve, as well as a tight butt between lanes.

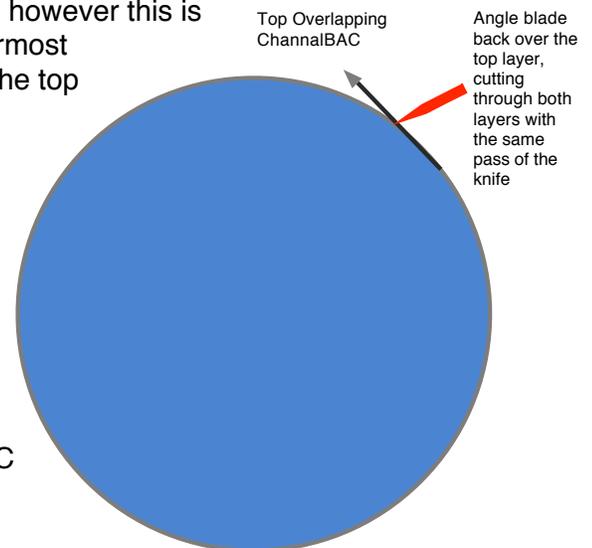
Using this method of application can significantly increase productivity, and reduce the waste typically associated when applying your mounting media in the cross-cylinder orientation.



**Seam location:** The best place to locate the seam is 3", to 4" away from the scribe line, plate center. This will allow you to easily reposition the plate during the initial registration without having to worry about lifting ChannalBAC off the sleeve or cylinder while putting the plate in register.

**Cutting the seam:** Cutting a tight seam is key, just as in cell foam, however this is a bit more challenging due to the dimensional stability, of the uppermost polyester layer. The knife angle needs to be positioned back over the top layer of ChannalBAC, and you need to apply more pressure when cutting a seam. Too steep an angle will result in a wide seam, too shallow and angle will result in an overlapping seam, both unacceptable.

**IMPORTANT:** Once ChannalBAC has been applied to the cylinder or sleeve you **MUST NOT** cut through ChannalBAC's dimensionally stable top layer in the **cross cylinder orientation**, at the plate edge or gap when trimming the plate. This practice may result in you inadvertently cutting through the polyester layer ChannalBAC. Cutting through the polyester surface of ChannalBAC cross web, may result in plate lifting.



### General mounting instructions:

- 1) Thoroughly clean the mounting surface prior to the application of ChannalBAC.
- 2) Thoroughly clean the back of the plate, prior to adhering the plate to ChannalBAC.
- 3) Prime the lead and trail edge of the plate.
- 4) Seal the edges of the plate, all four sides, consistent with the way you seal plates using cell foam.
- 5) De-tack any exposed adhesive areas of ChannalBAC not covered by the plate, by applying talcum powder, consistent with the way you de-tack exposed adhesive with cell foam.
- 6) Spiral wrap the mounted cylinder with a thin extensible film. Leave the job tightly wrapped until installing the cylinders for print. This will ensure maximum adhesion and protect the job during storage.

**Prepping the back of the plate for removal:** Due to the unique construction and adhesive systems, shellacking or soaping the back of the plate to assist in easy clean removal **is not** necessary. (Providing the plate remains mounted for less than 2 weeks, “adhesion builds on residence”). When removing the plate for reuse, you may find it easier to remove both ChannalBAC and the plate from the cylinder or sleeve as a single unit. Once removed, lay flat, facedown, on a clean flat surface, and strip ChannalBAC from the plate. ChannalBAC will remove cleanly and easily.

**Prepping combination graphics on a single plate:** A common practice when using cell foam is to underlay solids on combination plates, so they print better; this is **not required** when using ChannalBAC.

**Selecting a primer:** A common practice in the industry has been to use a black marker “sharpie”. Due to a change in their formulation this is **ineffective**, in fact it actually reduces adhesion. Our test has shown that Primer 94, made by 3-M is far superior as a primer. This is true whether you are using cell foam or ChannalBAC.

We suggest you conduct your own test, using your existing cellular tape. To accomplish this, take an old plate, clean the back, cut it into three sections, coat the back of one section with the magic marker, coat the second section with Primer 94, leaving the third section with no primer. Attach all three samples to your current tape, and let them reside for 5+ minutes. When you remove the three samples the effect of the different primers will be obvious.

**NOTE:** Our tests show that using Primer 94 on hard to stick to sleeves or cylinders (aluminum), especially at tape seams, is also very effective.

Primer 94 is available in convenient applicators directly from, J. Penner Corporation, (215) 340-9700, [jpennercorp.com](http://jpennercorp.com).

## Notes to the press room

Unlike cell foam, ChannalBAC is “crush proof”. What this means is that once you set impression, ChannalBAC will not sink, so there should be no need to increase impression during a long run. Some of the more modern presses are programmed to increase impression with run speed. This feature should be closely monitored and possibly turned off.

You should notice that a plate mounted on ChannalBAC will come into impression more even than with cell foam. Once impression is set, and you’re getting a nice even image but feel that the cushioning characteristics are not firm enough, simply increase impression. By increasing impression, ChannalBAC takes on the characteristics of a harder foam.

### **You may also notice:**

- 1) Impression remains constant through your longest runs.
- 2) Plate life is significantly increased. (The plate will show signs of wear before the cushioning properties of ChannalBAC are affected.)
- 3) Plates should require less cleaning.
- 4) Bounce, banding, and gear marks are reduced or eliminated.
- 5) Increased press speed.
- 6) Printing dots with donuts and halo type should be significantly reduced.
- 7) Large solids should be pinhole free.
- 8) The overall printed image should have better contrast and greater consistency throughout the run.