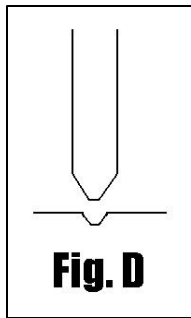


# GRAVOPLY Engraving Tips

Gravoply 3C offers you a simple yet beautiful solution for creating 3-color signage. There are just a few unique characteristics you need to realize.

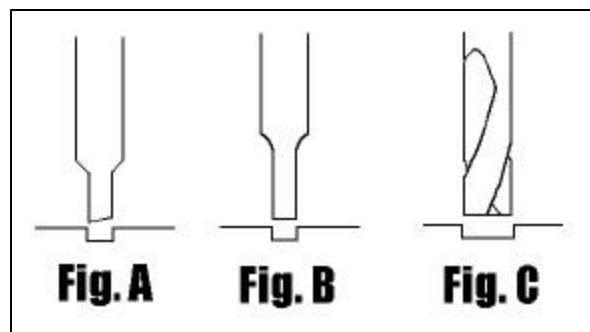
First of all, you need to understand the unique multiple cap construction. Gravoply 3C is made with 2 caps for forward engraving. Together with the core color, this unique construction offers the ability to create signage with 3 independent colors. The top cap is barely .001" thick, similar to the cap on Gravoply 2. Consequently it is not necessary to engrave more than .002-.003" to reach the second color. The second cap is .010" thick, so you will need to engrave to a depth of .011" to .013" to reach the core color.



**Fig. D**

Next you will need to understand how the various engraving cutters work with the 3C material. When engraving into 3C, you may not want to use a standard Gravoply cutter. A standard cutter (**Figure D**) has angled side-walls. When engraving into the final core color of 3C, this cutting angle exposes the second cap color around the edge of the engraving. This exposure of the second cap creates a nice outline around the edge of the engraving. But if you do not want the edge of the second cap layer to be visible when engraving into the final core, it will be necessary to use a parallel cutter (**Figure A**), a router bit (**Figure B**), or an end mill cutter (**Figure C**). Each of

these cutters will engrave the material with a completely vertical side-wall. Engraving with one of these specialty cutters is necessary if you do not want the second cap layer to be visible, when engraving into the third color (the final core color). For more information on cutters available from New Hermes, please visit our complete Cutter Selection Guide at [www.newhermes.com](http://www.newhermes.com).



**Fig. A**

**Fig. B**

**Fig. C**

Finally, you will want to make the best use of your engraving time. If you are using your engraving machine's nose cone to set your engraving depth, you will need to engrave each depth (color) as an individual job – adjusting the nose cone between engravings. But, if you own any New Hermes "IS" series engraving machine with Gravostyle'98 software, you can let the computer control your engraving depth and engrave your 3 color sign in one single pass. To learn more about our "IS" series engraving machines, please contact your local sales representative or give us a call at **1-800-843-7637**.

For more engraving tips, please see the new **Engraving Tips** section under the Resources section of our web site at [www.newhermes.com](http://www.newhermes.com). For even greater in-depth training you may want to consider one of our special **Engravers' Academy** classes. Check out our web site or call us at **1-800-843-7637** for more details.