NiColoy™ Tip Forming Dies

Why choose NiColoy™ dies?

- **Quick delivery, two weeks or less!**
- **Low cost**
- **Repeatability**
- **Dimensional stability**
- **Short cycle times.**
- **Mirror surface finish.**
- **Internal hardness of 50 Rc**

Individual Highlights:

- Integral Hubs
- Olive Tip Dies
- Endo-Tracheal Dies
- Multi-Lumen with Integral pins
- From Print to Die in *Two Weeks* or Less

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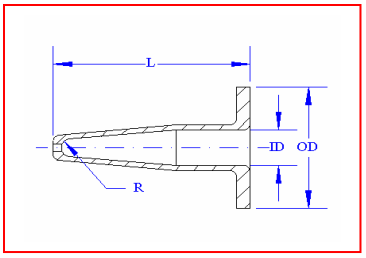
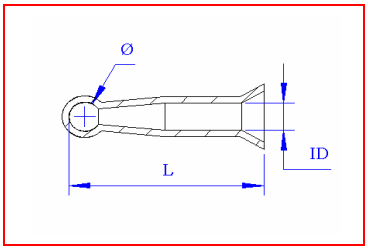
www.nicoform.com/catheter.shtml

New Designs for 2003!



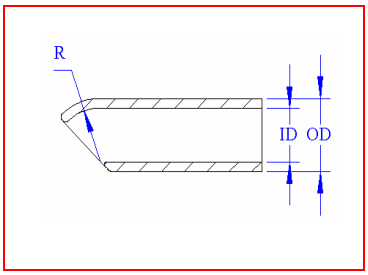
Integral Hubs

In an ongoing effort to offer our customers improved product characteristics, we have developed tipping dies with hubs permanently electroformed to the die. This design, as seen to the left, eliminates the need for additional soldering after electroforming - the mold is ready for use as delivered.



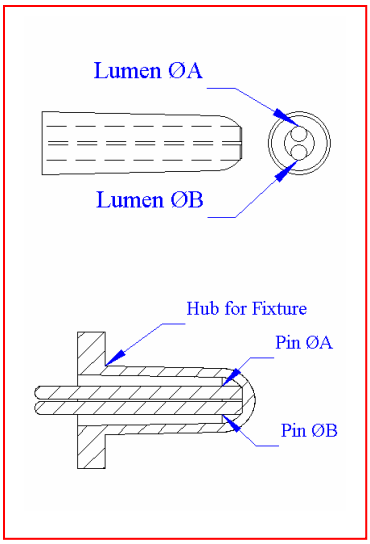
Olive Tip Dies

Our method for producing Olive Tip Dies allows us to offer a highly polished interior surface finish and dimensional stability at an affordable price. We also offer the ability to construct dies of other varied geometries on an as needed basis.



Endo-Tracheal Dies

Creating an endo-tracheal die with a highly polished interior surface finish and an integrated pin to hold the lumen open was a challenge put in front of us earlier last year. We have developed a construction that does both of these and is simply a robust, more reliable die with a better surface finish than those produced with plastic or rubber mandrels.



Multi-Lumen with Integral Pins

The drawings to the left show a double lumen tip (top) and its tip forming die (bottom). Calibrated pins, electroformed into the die, serve as guides. They can cut off material and hold the inside diameter of the lumen open. Dies can be made with any number of integral pins of any diameter held to the nearest .0005". A clamping hub or a heat sink can be permanently electroformed to these and all dies assuring a perfect fit, high dimensional accuracy and eliminate the need for post-electroforming soldering and/or machining. Every die produced on the same mandrel has the exact same dimensions and surface finish, assuring the highest degree of consistency and repeatability.

Every part that we produce goes through a rigorous QC inspection. We understand that quality and accuracy are critical to the success of your applications and we want you to be confident that you will receive the best product on the market. We will work hand in hand with you to guarantee your satisfaction. If you'd like a copy of our in house inspection report for your die, just ask and we'll gladly send it along with your finished product.

If you need assistance...

Are you new to catheter tipping or just don't have the time to optimize your tipping operation or design a new die? If so, our business partners can help. Rose Technologies, a Grand Rapids, MI manufacturer can develop, test and supply you with either a die or a tipping system complete with NiColoy™ dies.

"We started using NiColoy™ dies last year," said Todd Grimm, President of Rose Technologies, "and liked their high release properties, uniform wall thickness and excellent surface finish so much that we now specify these dies in practically every application. Their use can significantly reduce your cycle time and improve the tip quality."

From Print to Die in *Two Weeks* or Less!

Quick turnarounds and significant savings are achieved by electroforming catheter tipping dies. NiColoy™ is deposited in a stress-free state on permanent or expendable mandrels. Using permanent mandrels reduces the per piece die cost. The high degree of polish achieved on even the smallest of tip forming dies assures excellent release properties.

*Eric King of MEDRON Inc., Salt Lake City, Utah has used NiColoy™ dies for the past three years: "We were looking for a company that could incorporate an intricate design with integral pins and a hub. **NiCoForm's** electroformed dies offer us geometry and accuracy, that we found could not be produced using other known methods. NiCoForm not only meets our needs but provides us with quick turnarounds as well."*

Electroforming dies with a low uniform wall thickness (down to .005") allows significantly shorter cycles leading to increased productivity. Unconventional configurations including balloon ends, double lumen dies, integrated hubs, guide pins, and calibrated through-holes are possible.

Call now for a quote! All we need is a drawing and brief description of the die or tip you want.

Call Toll Free: 877-NiColoy
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