A new generation balloon technology for the next generation of balloons.

SmartForm™ delivers a new standard for medical device balloon development & manufacturing.

Why should you choose SmartForm™ technology to create your balloons?

- SmartForm™ is optimized for efficient and uniform heat transfer to the balloon mould.
- SmartForm™ accurately forms small and large balloons from 1.25mm to 50mm+ diameters.
- SmartForm™ technology is completely flexible and adaptable to a variety of forming processes.
- SmartForm™ forms the highest quality balloons with defect free, superior thin cones.
- SmartForm™ delivers predictable, repeatable and better results.

SmartForm™’s 3 Secrets

Building on the basic fundamentals of balloon forming, SmartForm™ features ultimate control across the 3 key forming parameters of temperature, pressure and stretching.

1. Accurate Temperature Control

SmartForm™’s temperature control, combined with a unique high pressure control system accurately displaces the required amount of pressure and volume to control the timing and position of the balloon form. This level of control is key to forming the highest quality balloons with defect free and superior thin cones, essential to controlling the balloon profile for folding, wrapping or rewrapping and seamless transitions across delivery sheaths. The pressure control can be rapidly increased and decreased when balloon definition and shape is critical along with the displacement of material from the balloon necks when it comes to the most demanding catheter profile requirements.

2. Precision Pressurization

SmartForm™’s temperature control, combined with a unique high pressure control system accurately displaces the required amount of pressure and volume to control the timing and position of the balloon form. This level of control is key to forming the highest quality balloons with defect free and superior thin cones, essential to controlling the balloon profile for folding, wrapping or rewrapping and seamless transitions across delivery sheaths. The pressure control can be rapidly increased and decreased when balloon definition and shape is critical along with the displacement of material from the balloon necks when it comes to the most demanding catheter profile requirements.

3. Variable Speed Stretching

The technology’s stretching capability aids the control of even material displacement before, during and after the balloon form. This feature delivers accurate forming from small coronary or neurovascular balloon sizes, to large esophageal or gastric balloon sizes of up to 50mm+ in diameter. The technology is completely flexible and adaptable to a variety of forming processes, with independent proximal and distal stretches and added speed control, creating an advantage when forming differential low profile neck design requirements. Along with control of the timing of the balloon form, the rate of material displacement is optimized to achieve even DWT right into the balloon cones and necks.

Today’s balloon designs increasingly demand greater complexity in balloon performance and profile. The design and superior control of SmartForm™ technology is optimized to deliver these designs today and into the future. SmartForm™: eliminate variation, control precisely, design without boundaries.
Now you can design your balloon online using our custom design module.

Standard and custom balloon designs available.

www.cregannatactx.com/technologies/medical-balloons/design-a-balloon