Pristine product quality is especially important when producing medical products. Any kind of product defect is intolerable. Melt degradation, excessive screw RPM, contamination, excessive shear, and inadequate screw and valve design can be causes for product defects. A wide selection of resins are processed in medical injection applications, and the screw designs should be tailored to the specific characteristics of each resin, to help increase quality and profitability.

The Nordson Advantage
For maximum performance, select the right design and manufacturing partner, Xaloy®

When selecting a design and manufacturing company, seek out a partner that has the right industry and process experience to serve your needs best. With Nordson, be assured that as the only company in the USA that entirely manufactures your injection barrel at their state-of-the-art facility, they will help you meet your operational needs and long-term vision. Maximize your production’s efficiency by combining a Xaloy® barrel with a custom-designed Xaloy® screw. With the industry’s leading screw designs and compatibility, you will reach peak results and extend the lifetime of your components, maximizing profitability.
Nordson Packages for Medical Injection Applications

Poor product quality can occur when a screw design is not tailored to the specific resin. Improper screw design can create high shear stress, which can result in resin degradation. A wide selection of Xaloy® designs cater to resins, such as FEP, PA, PE, PET, PPS, PVC. For each resin, Nordson suggests the optimum Xaloy® screw design to reach peak performance.

For better product quality, Xaloy® Pulsar® Mixing Screw

A screw model that has a proven record in medical molding applications is Nordson’s Xaloy® Pulsar® Mixing screw. This screw design features low shear distributive mixing providing a uniform and homogenized melt, resulting in enhanced product quality and reduced scrap.

Optimum mixing action for defect-free product!

For Barrels that last longer, Xaloy® Barrel Inlays

Your equipment must run at peak performance, especially when manufacturing medical products. For optimum wear protection, Nordson offers proprietary Xaloy® backing materials and inlays that not only extend the working life of your barrel, but will also stand up to most polymers and production environments, helping minimize downtime due to barrel wear. The most cost-effective choice for unfilled or lightly filled polymers is the Xaloy® X-102® barrel alloy. It has proven to outlast generic competitive barrels in comparative testing. For filled or more abrasive applications, the Xaloy® X-800® alloy is ideal, with outstanding resistance to both abrasive wear and corrosion.

Innovative wear protection that keeps your machines running longer than any other competitive offering!

For gentle cleaning of your plasticizing equipment, BKG® Jet Cleaners

Nordson offers the most advanced cleaning method for fast and safe removal of polymer residue from metal parts safely and efficiently. The Jet Cleaners are available in an array of sizes to meet your part cleaning requirements.

Safe and gentle cleaning of your components!