



Biomaterial DELIVERY DEVICES



INNOVATIVE BIOMATERIAL DELIVERY DEVICES

Backed by Nordson, a global leader in precision dispensing systems, Nordson MEDICAL is a leader in developing proven products for accurate and precise delivery of biomaterials including tissue sealants, hemostats, adhesion barriers and other autologous or synthetic biomaterials required in surgical applications.



SA-1001

Ratio applicator assembly with 11:1 ratio to apply two materials to a localized treatment site

SA-3678

10 cm, topical connector with mixer to facilitate the blending of dual component biomaterials



SOPHISTICATED DESIGNS

The “Gold Standard” for Dispensing Biomaterials

- Part design, mold design, build, and plastic processing expertise
- Gas assisted laparoscopic applicators for biomaterials
- Patented spray applicators with positional spray tips
- Patented Orthobiologic Graft Delivery Devices

Custom Product Development and Design

- Modular designs that allow for easy customization
- Concept and prototype development capabilities
- Research and development labs
- DFM part design
- CAD files - SolidWorks and FEA
- Solid modeling
- Use of Computational Fluid Dynamics (CFD) software
- 3-D printing and rapid prototyping
- Mixing characterization
- Bench testing
- Verification and validation testing including sterilization, packaging, shelf life, and biocompatibility process validation
- Assembly and packaging
- Private labeling options

UNIQUE SOLUTIONS



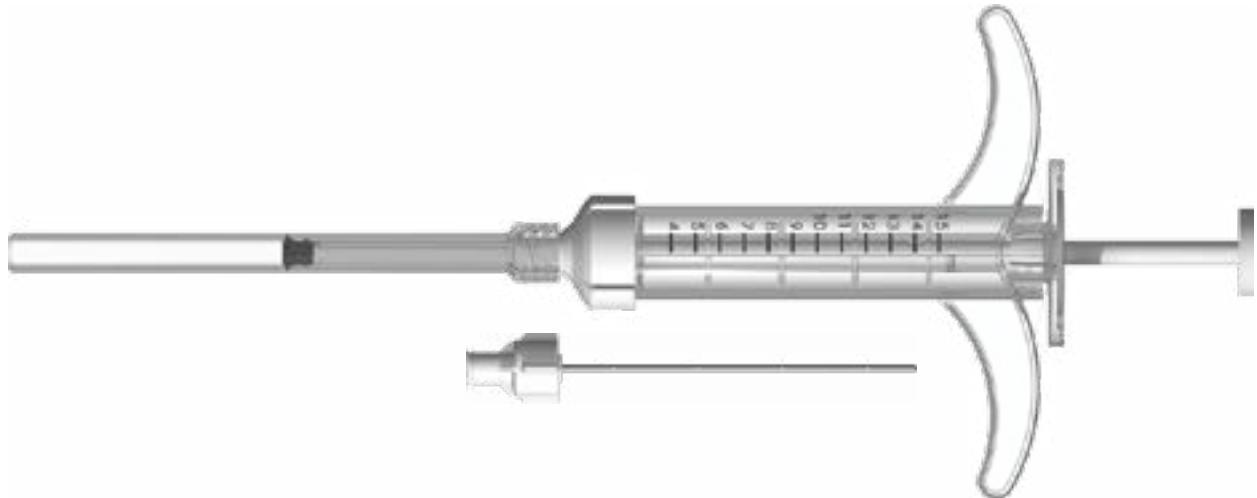
With more than 30 years experience in providing OEM solutions to biomaterial manufacturers, Nordson MEDICAL can provide the detailed support you need from idea to market. All products can be customized to meet your specific user requirements.

Custom Product Development

Concept and prototype design capabilities available for custom product development

GD-1215-150

15 cm Cannula
Sterile



EXCEEDING CLINICIAN NEEDS

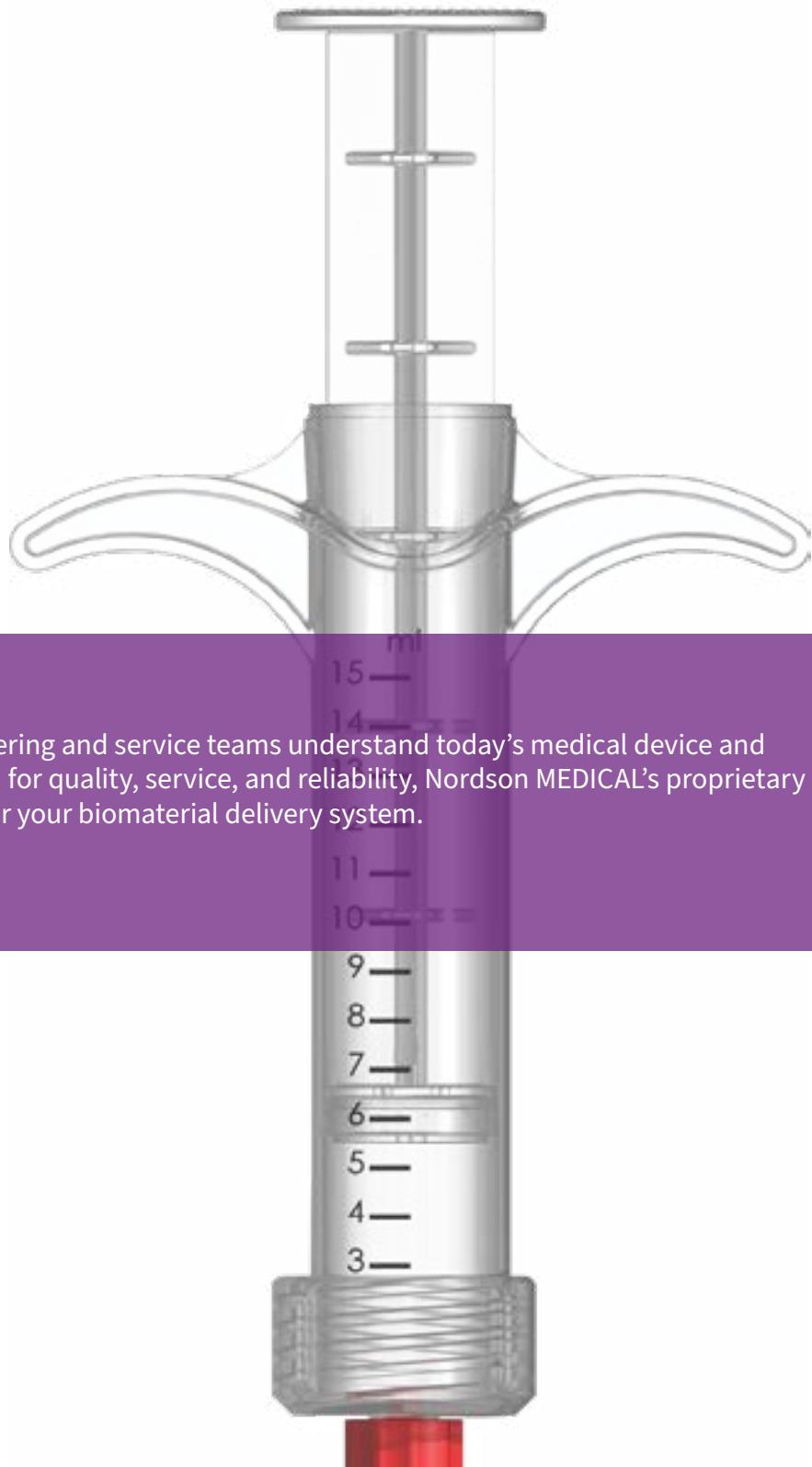
Molding Capabilities

- In-house molding and overmolding
- Mold qualifications and process qualifications

Assembly and Finishing Capabilities

- Hypo tube bending and welding
- Ultrasonic welding and bonding
- Pressure and leak testing
- Torque and pull testing
- Secondary operations
- In-process quality inspections with image dimension systems (KEYENCE and Microuve)
- ETO sterilization (outsourced)
- Manual and semi-automatic finished good assembly

SOLID REPUTATION



Nordson MEDICAL's experienced engineering and service teams understand today's medical device and biotech markets. With a solid reputation for quality, service, and reliability, Nordson MEDICAL's proprietary and custom products are the solution for your biomaterial delivery system.

GD-5515
OsteoXpress Graft Delivery Device
Designed to deliver allograft, autograft or synthetic bone graft
materials to an orthopedic surgical site

MA-1601

Single Cannula Malleable Applicator Tip,
Dual Wire-Reinforced, Sterile



TRUE RELIABILITY

Quality and Regulatory Capabilities

- Comprehensive global regulatory and registration support
- US FDA 21 CFR Part 820 compliance
- EU ISO 13485 certified
- Canadian Medical Device Conformity Assessment System compliance
- Production and packaging meet Class 8 clean room standards
- Continuous improvement and commitment to lean manufacturing
- Global registration expertise to improve speed to market

Nordson MEDICAL Biomaterial Delivery Devices.

For more information or samples, call 800-624-5662 or visit us online at nordsonmedical.com.

Nordson MEDICAL is the partner of choice for biomaterial delivery devices with innovative development and design expertise, comprehensive global regulatory support, and broad manufacturing and packaging capabilities. For over 30 years, Nordson MEDICAL has been a global provider of innovative products and has earned a solid reputation for quality, service and reliability. All of our products and services are backed by Nordson Corporation, a global leader in precision dispensing equipment serving man consumers and industrial manufacturing industries, helping customers succeed.



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