

BIOMATERIAL Graft Delivery Devices

Nordson MEDICAL's graft delivery devices are designed to deliver hydrated allograft, autograft, or synthetic bone graft materials to an orthopedic surgical site. They are designed to facilitate the premixing of bone graft materials with fluids such as IV fluids, blood, plasma concentrate, platelet rich plasma, bone marrow, or other specified blood components as deemed necessary by the clinical use requirements. Nordson MEDICAL products are manufactured in an ISO 13485 certified facility and are marketed to a wide variety of customers including distributors, surgeons, OEMs, hospitals, and outpatient clinics. All products can be private labeled or customized to meet your specific user requirements.

OSTEOPRECISION™ FEATURES & BENEFITS

- **Integrated Stylet**

Maximizes material utilization and simplifies delivery with an all-in-one configuration that also minimizes packaging size for easier storage.

- **Vented Configuration Option**

Vents air for better saturation and hydration of materials.

- **Non-Vented Configuration Option**

Allows for pre-filling of materials when hydration is not required.

- **Tapered Cap & Wide Bore Cannula**

Allows for the extrusion of high viscosity bone materials.

- **Easy Operation**

15cc devices with 5cm, 10cm, and 15cm cannula options. Available female luer adapter connects directly with a standard syringe for easy hydration (vented version only). Optional hydration tube evenly distributes liquids into material for consistent hydration. Large finger flanges allow for a better grip for one-handed use.

OSTEOXPRESS™ FEATURES & BENEFITS

- **Easier Filling**

For simple integration of graft material and hydration fluid. Unique tray with funnel allows for convenient filling of barrel with graft material. 5cc and 15cc barrels create small or large logs based on procedure.

- **Improved Hydration**

Patented, vented membrane releases air during hydration, eliminating air pockets and improving saturation of material. Female luer on distal end permits simple connection to hydration syringe, without need for an adapter.

- **Open Bore Delivery**

Removable threaded cap maximizes graft utilization and allows for easy delivery of graft log. Large finger flanges establish a better grip when expressing graft.

GRAFT DELIVERY DEVICES OsteoPrecision™



Vented

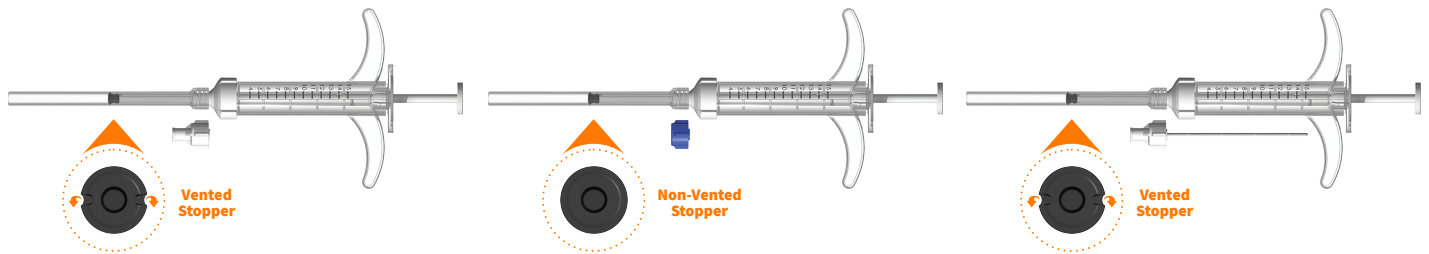
| Sterile | Non-Sterile |
|-----------------------------|-------------------------------|
| 5cm Cannula GD-1115-050 | 5cm Cannula GDNS-1115-050 |
| 10cm Cannula GD-1115-100 | 10cm Cannula GDNS-1115-100 |
| 15cm Cannula GD-1115-150 | 15cm Cannula GDNS-1115-150 |

Non-Vented

| Sterile | Non-Sterile |
|-----------------------------|-------------------------------|
| 5cm Cannula GD-1015-050 | 5cm Cannula GDNS-1015-050 |
| 10cm Cannula GD-1015-100 | 10cm Cannula GDNS-1015-100 |
| 15cm Cannula GD-1015-150 | 15cm Cannula GDNS-1015-150 |

Vented with Hydration Tube

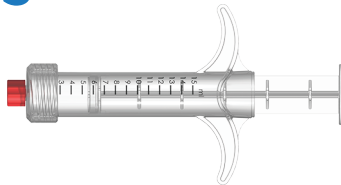
| Sterile | Non-Sterile |
|-----------------------------|-------------------------------|
| 5cm Cannula GD-1215-050 | 5cm Cannula GDNS-1215-050 |
| 10cm Cannula GD-1215-100 | 10cm Cannula GDNS-1215-100 |
| 15cm Cannula GD-1215-150 | 15cm Cannula GDNS-1215-150 |



GRAFT DELIVERY DEVICES OsteoXpress™

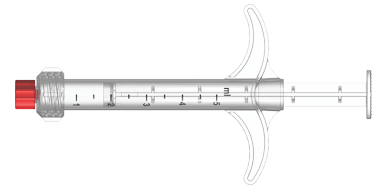
GD-5515

Tray Kit, Sterile
Graft Delivery Device, 15cc
Graft materials not included.



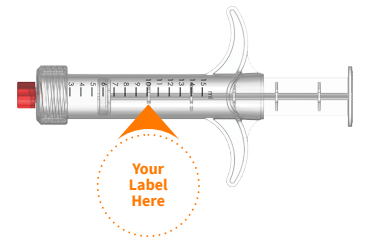
GDNS-5505

Non-Sterile
Graft Delivery Device, 5cc
Graft materials not included.



Custom OEM Solutions

We have 30+ years experience providing OEM solutions to biomaterial manufacturers. We can provide support from concept to commercialization. Custom solutions and private labeling are available.



Sterile OsteoPrecision™ Graft Delivery Devices and GD-5515 OsteoXpress™ Graft Delivery Devices are FDA cleared, CE marked, and registered in Canada and Australia.

All Micromedics products are developed, manufactured and tested in accordance with applicable standards of the Food and Drug Administration (FDA) 21 CFR 820 and International Organization for Standardization, the Canadian Medical Device Conformity Assessment System, and the European Medical Device Directive 93/42/EEC. The Micromedics line of biomaterial delivery devices is certified to ISO 13485 and a recognized CMDCAS Registrar and CE marks products accordingly.

Rx only. Federal (USA) law restricts these devices for sale by or on the order of a physician. Indications, warnings and instructions for use can be found in the product labeling supplied with each sterile device. ©Nordson MEDICAL. OsteoPrecision™ and OsteoXpress™ Graft Delivery Devices are registered trademarks of Micromedics, Inc. All rights reserved. 80034 Rev. A 2018-11