

English

Symbols glossary can be found at www.arthrex.com/symbolsglossary.

A. DEVICE DESCRIPTION

The DynaNite™ Nitinol Staple and DynaNite™ SuperMX™ Staple provide a means of fixation for the management of fractures and reconstructive surgery.

- DynaNite Staples are designed to exhibit super-elastic properties.

- The Staples are sold in two configurations:
 - As a single use disposable kit - the kit includes a staple, pre-loaded onto a delivery device, a drill bit, a drill guide, alignment pins and a ramp and
- as a staple loaded on a delivery device – for procedures requiring additional same sized staples.

B. INDICATIONS

The DynaNite Nitinol Staple and DynaNite SuperMX Staple are intended to be used for fixation such as: Lisfranc arthrodesis (except in Canada), mono- or bi-cortical osteotomies in the foot (except in Canada), first metatarsophalangeal arthrodesis (except in Canada), skin osteotomy, midfoot and hindfoot arthrodesis or osteotomies (except in Canada), fixation of osteotomies for hallux valgus treatment (Scaraf and Chevron) (except in Canada), and arthrodesis of the metatarsophalangeal joint to reposition and stabilize metatarsus primus varus (except in Canada).

The DynaNite Nitinol Staple and DynaNite SuperMX Staple are indicated for:

- Fracture and osteotomy fixation and joint arthrodesis of the hand and foot (except in CE Accepting Countries and Canada)
- Fracture of proximal tibia metaphysis osteotomy (except in CE Accepting Countries and Canada)
- Hand and foot bone fragment and osteotomy fixation and joint arthrodesis (except in CE Accepting Countries and Canada)
- Fracture of small bone fragments (i.e. small fragments of bone which are not committed to the extent to preclude staple placement). These fragments may be located in long bones such as femur, tibia and tibia in the lower extremities; the humerus, ulna or radius in the upper extremities; the clavicle and ribs in the chest; the pelvis, scapula and sternum (except in CE Accepting Countries and Canada). The Small Staples are intended to be used for skin Osteotomy only.

The Small and Spineless Ligament Staples are used in the repair of torn muscle, tissue, or ligaments (not the ACL).

C. CONTRAINDICATIONS

- Active infection or active wound.
- Blood supply limitations and previous infections, which may retard healing.
- Foreign body sensitivity. Where material sensitivity is suspected, appropriate tests should be made and sensitivity ruled out prior to implantation.
- Any active infection or blood supply limitations.
- Conditions that tend to limit the patient's ability or willingness to restrict activities or follow directions during the healing period.
- The use of this device may not be suitable for patients with insufficient or compromised bone. The device should carefully assess bone quality before performing orthopedic surgery on patients who are skeletally immature. The use of this medical device and the placement of hardware or implants must not bridge, distort or disrupt the growth plate.
- Do not use for surgeries such as pelvic, scapula and sternum (except in CE Accepting Countries and Canada).
- DynaNite Staple only:** Contaminated bone surface that would not allow for staple placement.
- DynaNite Staple only:** Pathologic bone conditions such as osteopenia that would impair the ability to securely fix the implant.

D. ADVERSE EFFECTS

- Infections, both deep and superficial.
- Foreign body reactions.

E. WARNINGS

- Caution: Federal law restricts this device to sale by or on the order of a physician.
- This device is intended to be used by a trained medical professional.
- An internal fixation device must never be re-used.
- All metallic implants and devices used in the surgical procedure should have the same metallurgical composition.
- Postoperatively and until healing is complete, fixation provided by this device should be considered as temporary and may not withstand weight bearing or other unsupported stress. The fixation provided by this device should be protected. The device removal should be followed by adequate postoperative management.
- Pre-operative and operating procedures, including knowledge of surgical techniques and proper selection and placement of the devices, are important considerations in the successful utilization of this device. The appropriate Arthrex delivery system is required for proper implantation of the device.
- DETERMINED SELECTION**
Consider the following points during selection of the cleaning detergent:
 - Suitability of the cleaning agent for ultrasonic cleaning (no foam development).
 - Compatibility of the cleaning agent with the instruments. Arthrex recommends the use of neutral pH or enzymatic cleaning agents. Alkaline agents may be used to clean devices in countries where required by law or local ordinance, or where prior diseases such as Transmissible Spongiform Encephalopathy (TSE) or Creutzfeldt-Jakob disease (CJD) are a concern (apply only outside of the US). Arthrex does not recommend the use of a specific brand of cleaning agent. Enzoxol® and neodisher® MedClean forte were utilized during the validation of these instructions. **Caution: Low acid or alkaline solutions are not recommended, as they corrode metal parts and oxidize aluminium and composite polymer plastics. If non-neutral pH cleaning chemistries are utilized, care should be taken to ensure appropriate rinsing, as validated by the end-user facility, and neutralization steps are taken so as to not negatively impact the fit, finish, or function of the device.** Pay attention to the instructions of the detergent manufacturer with respect to neutralization and post-rinsing. Follow the instructions of the detergent manufacturer regarding use concentration and temperature for either manual or automated cleaning. Use only freshly prepared solutions as well as purified/highly purified water at least for final rinse, and a soft, low-linting cloth or filtered medical grade air for drying, respectively.

- Detailed instructions on the use and limitations of this device should be given to the patient.
- DynaNite Staple only:** The implants are not designed to replace normal healthy bone or withstand the stress placed upon the device by full or partial weight-bearing or load bearing in the presence of nonunion, delayed union or incomplete healing. Immobilization of the treatment site using routine methods (casting, splinting, etc.) should be maintained until bone healing has occurred (4-6 weeks).
- DynaNite Staple only:** Reduction of the fracture should be achieved and maintained prior to implanting the device. The staple should not be relied upon to achieve closure or reduction of the fracture line.
- DynaNite Staple only:** Additional processing or pre-processing of the implant, may affect the material properties of the Nitinol, changing or otherwise reducing the effectiveness of the implant.

- DynaNite Staple only:** Drill bits are designed for use specifically with the Arthrex supplied drill guides. Using any tool which affect the compatibility of other instruments and usability of the instruments.
- DynaNite Staple only:** If sterilization is compromised prior to insertion, a different sterile implant will need to be used. Do not re-sterilize or re-use devices.
- Bioburden waste, such as exsiccated devices, needles and contaminated surgical equipment, should be safely disposed in accordance with the institutions policy.

- Serious incidents should be reported to Arthrex, Inc., or an in-country representative, and to the health authority where the incident occurred.

F. MRI SAFETY INFORMATION

I. MR Conditional

Non-clinical testing and in-vivo electromagnetic simulations demonstrated that the Arthrex Staples are MR Conditional. A patient with this device can be scanned safely in an MR system meeting the following conditions:

- Static magnetic field of 1.5-Tesla and 3-Tesla
- Maximum spatial gradient magnetic field of 3000 Gauss/cm (30 mT/m)
- Maximum MR system reported, whole body averaged specific absorption rate (SAR) of 2W/kg for 15 minutes of scanning in the Normal Operating Mode of operation for the MR system.

Under the scan conditions defined above, the Arthrex Staples are expected to produce a maximum temperature rise of less than 4.6°C after 15-minutes of continuous scanning.

The presence of this implant may produce an image artifact.

G. PRECAUTIONS

- Surgeons are advised to review the product-specific surgical technique prior to performing any surgery. Arthrex provides detailed surgical techniques in print, video, and electronic formats. The Arthrex website also provides detailed surgical technique information and demonstrations. Or, contact your Arthrex representative for an onsite demonstration.
- Surgeons must apply their professional judgment when determining the appropriate sized staple for operation on the specific indication, preferred surgical technique, and patient history.
- For proper fixation, an adequate amount of bone must be between the device leg and the fracture (or osteotomy) line.
- For hard cortical bone, select the appropriate size guidewire or drill bit for the device.

H. PACKAGING AND LABELING

- Arthrex devices should be accepted only if the factory packaging and labeling arrive intact.
- Contact Customer Service if the package has been opened or altered.

I. VALIDATION

The recommended cleaning, disinfection, and sterilization methods in this DFU have been validated in compliance with federal and international guidance standards. In accordance with ISO 17665, the "sterilizable" approach was used for sterilization validation and demonstrates a sterility assurance level (SAL) of 10⁻⁶. Cleaning, disinfection, and sterilizing equipment and materials vary in performance characteristics. Therefore, it is the responsibility of the facility end user to perform the appropriate validation testing for any use beyond recommended performance characteristics.

- Remove the devices from the washer-disinfector following established standards for the product. In assessing the level of cleaning residues following the manual cleaning and disinfection process or the machine (automated) cleaning and disinfection process, a critical cleaning if soil is visible and re-inspect, otherwise, proceed to sterilization cycle.

IV. MANUAL CLEANING AND DISINFECTION

Following preliminary cleaning, the instructions for Manual Cleaning and Disinfection may be followed as an alternative cleaning method to Machine (Automated) Cleaning and Thermal Disinfection if an automated procedure is not available.

- After preliminary cleaning is complete, repeat steps 1-5 provided in the Preliminary Cleaning section within this DFU, including rinsing, immersion and sonication, and post-rinsing. Final handling should be completed with purified (critical, e.g. ISO R or DI) water.
- Check devices for visible soil. Repeat cleaning if soil is visible and re-inspect.
- Soak the devices for the given soaking time (provided by the disinfectant manufacturer) in disinfectant solution so that the devices are sufficiently covered. Make sure that there is no contact between the devices. Ensure that the device is in the open position during soaking. Apply movable parts at least five times during disinfection, as applicable.
- Remove the devices from the disinfectant solution and rinse per disinfectant manufacturer's instructions.
- Dry devices thoroughly utilizing filtered medical grade air or a soft, low-linting cloth. Proceed to Sterilization section.

K. STERILIZATION

This device may be provided either sterile or non-sterile. Check the package labeling for more information. For devices that are not provided in a terminally sterilized configuration, sterilization is to be performed following cleaning, disinfection, and staple packaging prior to use, and may be re-sterilized (if available) following cleaning, disinfection, and staple packaging prior to use.

Devices that are provided in a terminally sterilized configuration should never be re-sterilized under any conditions.

Certain Arthrex instruments that may be used during this procedure are provided non-sterile and should be adequately cleaned and sterilized prior to use for re-use. Please refer to DFU-0023-XX and ANSI/AAMI ST79 for specific information.

L. STERILE PACKAGING

Singly: Single devices should be packed so as to ensure that the pack is large enough to contain the device without stressing the seals. Packaging should be completed utilizing a pouch or wrap which conforms to the recommended specifications for steam sterilization as outlined below. If a wrap is utilized, it should be completed following AAMI double-wrap or appropriate guidelines with an appropriate wrap. An appropriate wrap is one that, for example, is cleared by the FDA or the local governing body at the point of use. Devices that may be adequately cleaned and sterilized using rigid sterilization container. Ascuspil SteriContainer™ and Genesis® rigid containers with perforated bottoms and lids are approved for use with Arthrex, Inc. devices.

Sets: Where appropriate, cleaned, disinfected and inspected devices should be placed into trays/cases as provided or in general-purpose sterilization trays. The total weight of trays/cases should not exceed 11.4 kg/25 lbs. (other local limits below 11.4 kg/25 lbs. may apply). Trays/cases should be double wrapped following AAMI or equivalent guidelines with an appropriate wrap. An appropriate wrap is one that, for example, is cleared by the FDA or the local governing body at the point of use.

DETERMINED SELECTION
Consider the following points during selection of the cleaning detergent:

- Suitability of the cleaning agent for ultrasonic cleaning (no foam development).
- Compatibility of the cleaning agent with the instruments. Arthrex recommends the use of neutral pH or enzymatic cleaning agents. Alkaline agents may be used to clean devices in countries where required by law or local ordinance, or where prior diseases such as Transmissible Spongiform Encephalopathy (TSE) or Creutzfeldt-Jakob disease (CJD) are a concern (apply only outside of the US). Arthrex does not recommend the use of a specific brand of cleaning agent. Enzoxol® and neodisher® MedClean forte were utilized during the validation of these instructions. **Caution: Low acid or alkaline solutions are not recommended, as they corrode metal parts and oxidize aluminium and composite polymer plastics. If non-neutral pH cleaning chemistries are utilized, care should be taken to ensure appropriate rinsing, as validated by the end-user facility, and neutralization steps are taken so as to not negatively impact the fit, finish, or function of the device.** Pay attention to the instructions of the detergent manufacturer with respect to neutralization and post-rinsing. Follow the instructions of the detergent manufacturer regarding use concentration and temperature for either manual or automated cleaning. Use only freshly prepared solutions as well as purified/highly purified water at least for final rinse, and a soft, low-linting cloth or filtered medical grade air for drying, respectively.

II. PRELIMINARY CLEANING
Note: No assembly/disassembly of these devices is required unless stated on the labeling, directions for use, or literature assembly instructions (LAI) pertaining to cleaning, disinfection, and sterilization. Devices that require disassembly are to be disassembled prior to cleaning.

- Remove excess soil from devices, especially in areas such as joints and crevices, by cleaning the surfaces with a sponge or brush under cold running water or with a non-shedding detergent solution.
- Rinse the devices at least 1 minute under running utility water (temperature < 35 °C/95°F). Special attention should be given to lumens, joints, crevices, and other hard-to-reach areas.
- Remove the devices in cleaning solution inside an ultrasonic bath. While immersed in solution, brush the devices for 1 minute using a soft-bristled brush. Special attention should be given to lumens, joints, crevices, and other hard-to-reach areas.

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- After brushing, turn on ultrasonic power and soak and sonicate for 10 minutes at a minimum of 40±2.5 kHz. Ensure devices are in the open position and that lumens have complete contact with cleaning solution during soaking.

II. MATERIAL SPECIFICATIONS

Refer to the package label for the materials.

Implants: Stainless steel, titanium, Cobalt Chromium or Nitinol.

- Remove the devices from the cleaning solution and rinse at least in-country with water, and/or aggressively rinse with saline, lumens, joints, crevices, and other hard-to-reach areas.

- After the completion of preliminary cleaning, the end user has the option to perform either Manual Cleaning and Disinfection or Machine (Automated) Cleaning and Thermal Disinfection (per #I).

III. MACHINE (AUTOMATED) CLEANING AND THERMAL DISINFECTION

Considerations for the selection of the washer-disinfector:

- Capable of providing an approved program for thermal disinfection (appropriate exposure time and temperature according to AIA concept)
- Final rinse completed with purified (critical, e.g. RO or DI) water, and utilizes only filtered air for drying

- After preliminary cleaning is complete, load the devices in the washer-disinfector such that all design features of the device are accessible to cleaning and such design features that might retain liquid can drain (for example, hinges should be open and cannulators/loops positioned to drain).
- If using alkaline cleaning agents, a neutralization step should be utilized as appropriate.
- Run an automated wash cycle with fundamentally approved efficiency of the washer-disinfector. For example, CE marking according to EN ISO 15883 or FDA approval (clearance, registration). The following minimum recommended automated wash cycle parameters were utilized by Arthrex during the validation of these instructions.

| RECOMMENDED WASHING CYCLE PARAMETERS | | | | |
|--------------------------------------|--|--|---------------------------------|--|
| Phase | Recirculation Time | Temperature | Detergent | |
| Pre-Wash | 3 Minutes | Cold Water | N/A | |
| Cleaning Wash | 10 Minutes | Follow detergent manufacturer's recommendation | Enzymatic or alkaline detergent | |
| Neutralization Rinse (optional) | 2 Minutes | Follow detergent manufacturer's recommendation | Neutralizing agent (as needed) | |
| Rinse | 3 Minutes | Cold Water | N/A | |
| Thermal Disinfection Rinse | 5 Minutes | 90°C (194°F) | N/A | |
| Drying | Minimum 6 Minutes or until visibly dry | Minimum 100°C (212°F) | N/A | |

- Remove the devices from the washer-disinfector following the completion of the program and check devices for visible soil. Repeat cleaning if soil is visible and re-inspect, otherwise, proceed to sterilization cycle.

IV. MANUAL CLEANING AND DISINFECTION

Following preliminary cleaning, the instructions for Manual Cleaning and Disinfection may be followed as an alternative cleaning method to Machine (Automated) Cleaning and Thermal Disinfection if an automated procedure is not available.

- After preliminary cleaning is complete, repeat steps 1-5 provided in the Preliminary Cleaning section within this DFU, including rinsing, immersion and sonication, and post-rinsing. Final handling should be completed with purified (critical, e.g. ISO R or DI) water.
- Check devices for visible soil. Repeat cleaning if soil is visible and re-inspect.
- Soak the devices for the given soaking time (provided by the disinfectant manufacturer) in disinfectant solution so that the devices are sufficiently covered. Make sure that there is no contact between the devices. Ensure that the device is in the open position during soaking. Apply movable parts at least five times during disinfection, as applicable.
- Remove the devices from the disinfectant solution and rinse per disinfectant manufacturer's instructions.
- Dry devices thoroughly utilizing filtered medical grade air or a soft, low-linting cloth. Proceed to Sterilization section.

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Certain Arthrex instruments that may be used during this procedure are provided non-sterile and should be adequately cleaned and sterilized prior to use for re-use. Please refer to DFU-0023-XX and ANSI/AAMI ST79 for specific information.

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II. PRELIMINARY CLEANING
Note: No assembly/disassembly of these devices is required unless stated on the labeling, directions for use, or literature assembly instructions (LAI) pertaining to cleaning, disinfection, and sterilization. Devices that require disassembly are to be disassembled prior to cleaning.

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- Rinse the devices at least 1 minute under running utility water (temperature < 35 °C/95°F). Special attention should be given to lumens, joints, crevices, and other hard-to-reach areas.
- Remove the devices in cleaning solution inside an ultrasonic bath. While immersed in solution, brush the devices for 1 minute using a soft-bristled brush. Special attention should be given to lumens, joints, crevices, and other hard-to-reach areas. Lumens should be brushed with appropriate diameter and length bristle sizes for the particular lumen. Accurate movable parts at least (5) times during soaking, as applicable.

- After brushing, turn on ultrasonic power and soak and sonicate for 10 minutes at a minimum of 40±2.5 kHz. Ensure devices are in the open position and that lumens have complete contact with cleaning solution during soaking.

II. MATERIAL SPECIFICATIONS

Refer to the package label for the materials.

Implants: Stainless steel, titanium, Cobalt Chromium or Nitinol.

- Pre-sterilization of one or more of the following Zustände (i.e. country with water, and/or aggressively rinse with saline, lumens, joints, crevices, and other hard-to-reach areas.

- Trümmerrückstände, Osteoporose, angeschlossen instabile Trümmerfrakturen oder einer der Faktoren, die im Abschnitt „Kontraindikationen“ und/oder unter „Warnhinweise“ und „Vorsichtsmaßnahmen“ aufgeführt sind – kann folgendes auftreten: (1) Zerstörung von Gewebe, zusammen mit lokaler Gewebekonstruktion oder Schmerzen; (2) Wanderung des Implantates; (3) Infektionen; (4) Brüche; (5) Risiko weiterer Verletzungen aufgrund eines postoperativen Traumas; (6) Verbiegung, Lockern und/oder Bruch; wodurch eine Entfernung unmöglich oder schwierig werden könnte; (7) Schmerzen, Unbehagen oder abnormale Empfindungen aufgrund des Vorhandenseins des Produkts; (8) möglicherweise ein erhöhtes Infektionsrisiko; und (7) Knochenwachstum aufgrund einer Inaktivitätsstrategie (z.B. Stress-Shielding). Der Chirurg sollte bei der Entscheidung zur Entfernung des Implantats sorgfältig die Risiken gegen die Vorteile abwägen. Als die Materialentfernung muss ein geeignetes postoperative Management anschließen, um eine erneute Fraktur zu verhindern.

II. STORAGE CONDITIONS

Sterile devices must be stored in the original unopened packaging, away from moisture and should not be used after the expiration date.

- Non-sterile metal devices should be stored in a clean, dry environment. The shelf life of non-sterile devices is not limited; the devices are manufactured from non-degradable material, which does not raise any question of device stability when stored under recommended conditions.
- It is the responsibility of the end-user to ensure devices, once sterilized, are stored in such a way as to maintain the sterility of the device until its use. Sterile, packaged devices should be stored in a designated, limited access area that is well ventilated and provides protection from dust, moisture, insects, and temperature/humidity extremes. Sterile device packages should be carefully examined prior to opening to ensure that package integrity has not been compromised. Maintenance of sterile package integrity is generally event related. If a sterile wrap is torn, shows any evidence of tampering, or has been exposed to moisture, the device or set must be cleaned, repackaged, and sterilized.

N. INFORMATION

- In CE Accepting Countries:** Procedures carried out using these devices may be used on the general population.
- In CE Accepting Countries:** The clinical benefits associated with the use of these devices outweigh the known clinical risks.
- In CE Accepting Countries:** There are no unacceptable risks or uncertainties associated with the clinical use of these devices.

- Nur DynaNite-Klammer:** Die Implantate sind nicht als Ersatz für normales, gesundes Knochengewebe vorgesehen und sind nicht dafür ausgelegt, den auf das Gerät wirkenden Belastungen durch volle oder teilweise Gewebeschwellung bzw. Belastung bei Vorliegen von Pseudarthrosen, verzögerter Knochenheilung oder unvollständiger Heilung standzuhalten. Die behandelte Stelle muss bis zum Abschluss der Knochenheilung (4-6 Wochen) mit den üblichen Methoden (Gips, Schiene usw.) immobilisiert werden.

- Nur DynaNite-Klammer:** Vor der Implantation des Geräts muss die Fraktur repariert und die Reposition aufrechterhalten werden. Der Chirurg darf sich zum Verschluss bzw. zur Reposition der Frakturlinie nicht auf die Klammer verlassen.

- DynaNite-Klammer:** Eine zusätzliche Aufbereitung oder Wiederbearbeitung des Implantats kann die Materialeigenschaften des Nitinol beeinträchtigen und dadurch die Wirksamkeit des Implantats verändern oder anderweitig herabsetzen.

- Nur DynaNite-Klammer:** Die Bohrer sind speziell zur Verwendung zusammen mit den von Arthrex gelieferten Bohrführungen vorgesehen. Eine Wiederanfertigung kann die Verträglichkeit mit anderen Instrumenten und die Nutzbarkeit der Instrumente beeinträchtigen.

- Nur DynaNite-Klammer:** Die Sterilisation vor dem Einführen beeinträchtigt wird, muss ein anderes steriles Implantat verwendet werden. Nicht reststerilisiert oder wiederverwendet.

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