ISOFORCE

GENERAL PRODUCT INFORMATION

ISOFORCE is a mechanical outrigger component designed to be integrated into custom-made support configurations.
It allows controlled force transmission within the assembled application according to the design specifications defined by qualified professionals.

PRODUCT RANGE

ISOFORCE is available in three different sizes.

Art. no.	Product	Size
35322	Isoforce	Small (S)
35323	Isoforce	Medium (M)
35324	Isoforce	Large (L)

PRECAUTIONS BEFORE USE

- Ensure the workplace is well ventilated.
- Use appropriate tools and ensure safe handling during preparation and assembly.
- Ensure a comfortable and stable working position during use.

⚠ Never use an open flame when working with ISOFORCE.

WORKING TECHNIQUE

Preparation of the Base Support

1. Prepare the base support according to the required design specifications using a suitable thermoplastic material. Ensure sufficient material is available to create a stable base for integration of the ISOFORCE component.
2. Mark the required position for the ISOFORCE unit according to the intended mechanical axis and design configuration.
3. Ensure that the base support allows the required range of movement and provides a stable attachment surface for the ISOFORCE component.

Preparation of the Attachment Component

1. Prepare the attachment component using a suitable thermoplastic material and allow it to cool and harden before trimming.
2. Attach the thread or connection element securely according to the intended configuration. Ensure that all attachment points are firmly fixed.

Attachment of ISOFORCE

1. Select the appropriate ISOFORCE size according to the required configuration.

Size of Isoforce	Circumference of Proximal Interphalangeal Joint	Distance between Isoforce Pegs
Small	4.0 cm – 5.5 cm (1.75”- 2.25”)	15.8 mm (0.6”)
Medium	5.5 cm – 7 cm (2.25” -2.75”)	21.8 mm (0.85”)
Large	7 cm and greater (2.75” and greater)	27 m (1.06”)

2. There are two methods to apply the Isoforce unit to the base orthosis:

   Method 1: Cover the pegs of the Isoforce with small scraps of dry heated thermoplastic material. Place the covered pegs immediately on the marked axis of motion of the PIP joint on the base orthosis and press firmly together to lock the Isoforce in place.

Method 2: Using a hole punch and create holes in the markings for the joint axis of motion of the PIP joint on both sides in the base orthosis. Cover the pegs of the Isoforce with small scraps of dry heated thermoplastic material and press into the punched holes at the PIP joint axis of motion. Press firmly in place.

The Isoforce unit should move easily forward and back with the pegs securely embedded in the holes.

THREADING THE ISOFORCE

1. Install the component assembly in the intended configuration before threading.
2. Position the connection element according to the required direction of pull. Use an Allen wrench or another suitable straight tool to select the appropriate hole in the ISOFORCE outrigger that provides the desired pulling angle.
3. Trim any excess outrigger material if required.
4. Thread the non-elastic connection element through the selected hole of the ISOFORCE outrigger and secure it with a knot or suitable fixation method.

Creating the Tension Force

Use elastic thread when a dynamic adjustment is required or use non-elastic thread when a progressive positioning configuration is required.

A. Elastic Thread Configuration

1. Secure one end of the elastic thread and protect the knot using a small piece of dry-heated thermoplastic material. Thread the opposite end through the designated pulling hole.
2. Create a guiding tunnel using ORFITUBE or a suitable piece of thermoplastic material on the support surface.
3. Route the elastic thread through the guide to ensure correct alignment of the pulling direction. ORFITUBE length may be adjusted to regulate the tension.
4. Secure the elastic thread using a knot or adjustable loop system to allow tension adjustment.
5. Adjust the tension by securing the loop connection to the designated fixation point.

B. Non-Elastic Thread Configuration

1. Secure one end of the non-elastic thread and protect the knot using a small piece of dry-heated thermoplastic material. Thread the opposite end through the designated pulling hole.
2. Create a guiding tunnel using ORFITUBE or a suitable piece of thermoplastic material on the support surface.
3. Route the non-elastic thread through the guide to ensure correct alignment of the pulling direction.
4. Attach the thread to the designated fixation point using a loop connection or suitable fixation method.
5. Adjust the tension according to the required configuration.

Ensure that the final configuration provides a controlled and comfortable level of tension. The applied force should not cause excessive pressure or discomfort during use.

MAINTENANCE

- All orthoses made with ORFIT low temperature thermoplastic materials including Isoforce can be cleaned with lukewarm water and liquid soap, biological detergent, or toothpaste. Rinse thoroughly and dry completely. Pre-moistened isopropyl alcohol wipes may also be used.

⚠ If you are not sure about the cleaning agent, do not use it.
⚠ Do not use solvents or abrasive detergents.

- ISOFORCE is not suitable for autoclave sterilization.

WASTE MANAGEMENT

The orthosis can be disposed of with normal household waste after use.

USER INFORMATION

The qualified professional responsible for the preparation, application, or integration of the product into the final application shall provide the user with appropriate information regarding its use, maintenance, and limitations. The user should follow the instructions provided for the correct use of the final application. Contact the qualified professional if adjustments, modifications, or further guidance are required.

STORAGE

- It is advised to store the product in a dark, cool, dry place in the original packaging at the temperature of min. 10°C (50°F) and max. 30°C (86°F).
- Do not lose the labels. They are crucial for product traceability.

GENERAL SAFETY ADVICE

- For external use only. Do not use it on open wounds or in the mouth.
- ISOFORCE may only be modified or incorporated by qualified professionals.

ADDITIONAL INFORMATION

For additional information such as distributor contact information, product brochures, Safety Data Sheets and regulatory information, please visit our website www.orfit.com

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