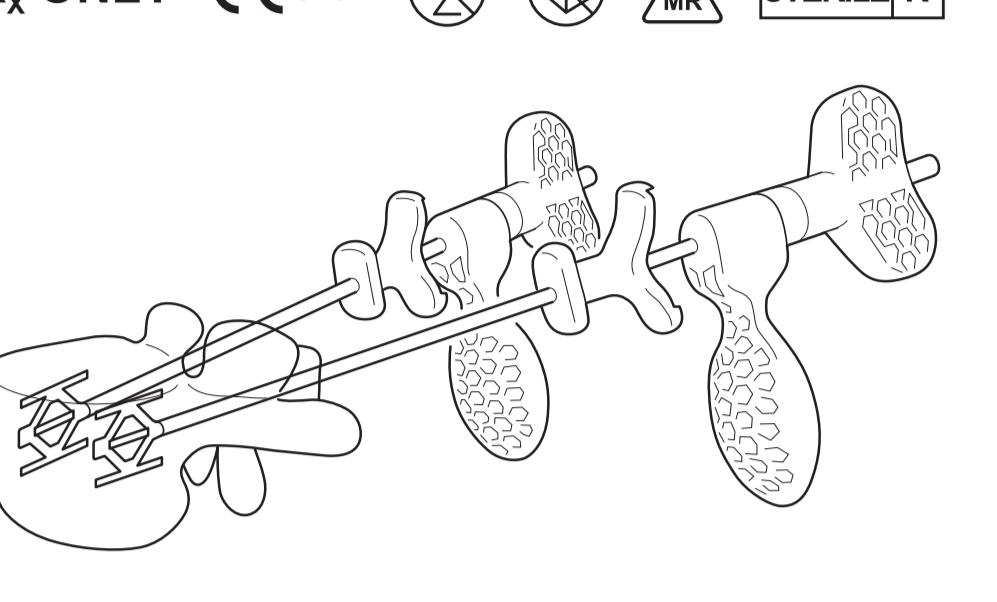


**SpineJack® Systems**

<b>Preparation Kit</b>	REF KP004 REF KP001 REF KP058
<b>Expansion Kit</b>	REF KE004 REF KE001 REF KE058
<b>Cement Pusher</b>	REF TC04003 REF TC05003
<b>Injector Transfer Tube</b>	REF TC04004 REF TC05004

**Instructions For Use**

ENGLISH (EN)  
ESPAÑOL (ES)  
DEUTSCH (DE)  
FRANÇAIS (FR)  
ITALIANO (IT)  
NEDERLANDS (NL)  
DANSK (DA)  
SUOMI (FI)  
PORTUGUÉS (PT)  
POLSKI (PL)



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2021-11

097-1102-00 Rev-AC

www.stryker.com

Figure 1, Figura 1, Abbildung 1, Figure 1, Figure 1, Kuva 1, Figure 1, Rysunek 1

Figure 2, Figura 2, Abbildung 2, Figure 2, Figure 2, Kuva 2, Figure 2, Rysunek 2

Figure 3, Figura 3, Abbildung 3, Figure 3, Figure 3, Kuva 3, Figure 3, Rysunek 3

Figure 4, Figura 4, Abbildung 4, Figure 4, Figure 4, Kuva 4, Figure 4, Rysunek 4

Figure 5, Figura 5, Abbildung 5, Figure 5, Figure 5, Kuva 5, Figure 5, Rysunek 5

Figure 6, Figura 6, Abbildung 6, Figure 6, Figure 6, Kuva 6, Figure 6, Rysunek 6

Figure 7, Figura 7, Abbildung 7, Figure 7, Figure 7, Kuva 7, Figure 7, Rysunek 7

Figure 8, Figura 8, Abbildung 8, Figure 8, Figure 8, Kuva 8, Figure 8, Rysunek 8

Figure 9, Figura 9, Abbildung 9, Figure 9, Figure 9, Kuva 9, Figure 9, Rysunek 9

Figure 10, Figura 10, Abbildung 10, Figure 10, Figure 10, Kuva 10, Figure 10, Rysunek 10

EN

097-1102-00 Rev-AC

**EN****IMPORTANT**

This device must be prepared, handled, and implanted by a surgeon and by practitioners who are familiar with these instructions for use.

The information contained in these instructions for use must be followed during the treatment of the patient.

It is important that for any complications or harmful consequences, you may receive an inadequate indication, from inappropriate use of the material, or from non-observation of the instructions for use and surgical technique.

The SpineJack procedure should only be performed in medical settings in which emergency decompressive surgery is available.

**Target Treatment Population:** The SpineJack system is intended to be used in adult patients who do not meet contraindications for the SpineJack system, may also be used in patients under the age of 18, at the discretion of the attending surgeon.

**Contact Information**

For additional information, including safety information, in-service training, or current literature, contact your Stryker sales representative or call Customer Support at 1-800-253-3210. Outside the US, contact your nearest Stryker subsidiary.

**NOTE:** The user and/or patient should report any serious product-related incident to both the manufacturer and the Competent Authority of the European Member State where the user and/or patient is resided.

**Indications For Use**

The SpineJack system is indicated for use in the reduction of fractures vertebral bodies resulting from osteoporosis, trauma (fracture type A according to the Magier classification), and malignant lesions (myeloma or metastases).

The SpineJack system is intended to be used in combination with bone cement, and to be placed, using a transpedicular approach, through a vertebral pedicle with a minimum internal diameter (see *Technical Information* section), as verified with a preoperative CT scan.

**Contraindications**

The SpineJack device is not indicated for any application other than that for which the device is designed.

The list of contraindications given below is not limited.

Refer to the instructions for use of the PMMA cement.

**Patient presenting a > 5° of vertebral height -50% compared to estimated pre-fracture height:**

• Patient presenting type B or C traumatic vertebral fractures according to Magier classification

• Schizotypic fracture or fracture not showing a pseudarthrosis

• Patients with a prior history of infection or of allergic reaction to titanium and/or one of the components of the PMMA cement

• Patient suffering from irreversible comorbidity or undergoing decompressive treatment. If the patient is at risk of death 8 months post-inclusion

• Active infection (systemic or in the target vertebra)

• Patient suffering a pathological fracture with the presence of a mass within the spinal canal

• Patient suffering neurological damage caused by vertebral fracture

• Patient pregnant or breastfeeding

• Patient vertebral anatomy not compatible with the size of the implant or instrumentation

• Fracture geometry making the insertion of the implant impossible

**Adverse Events**

The use of the SpineJack system may directly or indirectly cause side effects and complications as presented in, but not limited to, the list below. These are inherent to the SpineJack system and are not related to the injection of PMMA cement in the vertebral body.

The SpineJack system is intended to be used in combination with bone cement, and to be placed, using a transpedicular approach, through a vertebral pedicle with a minimum internal diameter (see *Technical Information* section), as verified with a preoperative CT scan.

**Product Overview (Figure 1)****SpineJack Preparation Kit**

A Guide Wire 2 mm Blunt (2)  
B Cannula Plug  
C Working Cannula (2)  
D Reamer  
E Template

**SpineJack Expansion Kit**

F Implant Expander Tube  
G Implant  
H Palm Handle  
I Butterfly Handle  
J Quick Release Pin

**Cement Injection Tools**

K Cement Pusher  
L Injector Transfer Tube

**Procedure**

The SpineJack implant is a device designed to be implanted into a column of bone. Once inserted, the SpineJack is expanded in order to restore the anatomical height of the body of the vertebrae and to maintain the restoration until the injection of the PMMA cement. Once the implant expander is removed, the SpineJack implant is then inserted into the vertebral body in order to stabilize the restoration.

The practitioner must use exclusively the SpineJack Preparation Kit and the SpineJack Expansion Kit.

The use of two implants is recommended; however, depending on the fracture type to be treated (e.g., unilateral fracture), the practitioner may decide to use and expand a single SpineJack implant.

• Use fluoroscopy or radiograph to obtain a transpedicular approach.

• Insert an 11 G access cannula with stylet through the pedicle to one-third the depth of the vertebral body (Figure 2).

• Remove the stylet and place the working cannula into the access cannula (Figure 3).

• Insert the reamer into the working cannula and begin drilling toward the desired implant position.

• Continue to ream until you reach the desired implant position. **NOTE:** The tip of the reamer is the same length as the implant and is visible under fluoroscopy.

• Remove the reamer from the working cannula. **NOTE:** The same reamer is used for both implant site preparations.

• Insert the template through the working cannula, and verify the final position (Figure 4).

• Rotate the template to clean the implant site.

• Remove the template.

• Insert the cannula plug through the working cannula into the template (Figure 5). The cannula plug will stabilize the working template during preparation of the second implant site.

• If using two implants, repeat step 2 for the second implant site with another Expansion Kit.

• Remove the template.

• Insert the cannula plug through the working cannula into the template (Figure 6). The cannula plug will stabilize the working template during preparation of the second implant site.

• If using one of the following recommended cement injection systems:

• AutoPlex® System (REF 060X-XBT-0000 series)

• PCD® Precision System (REF 050X-XBT-0000 series)

• One of the following cement injection tool sets:

**SYSTEM (COLOR) INJECTION TOOL, REF**

4.2 mm (Gold) Cement Pusher TC04003  
Injector Transfer Tube TC04004

5 mm (Blue) Cement Pusher TC05003  
Injector Transfer Tube TC05004

5.6 mm (Green) Cement Pusher TC05008  
Injector Transfer Tube TC05009

**Note:** One Precaution: wait for bone expansion. If the same bone expansion kit is used, 4.2 mm, 5 mm or 5.6 mm are necessary to position two SpineJack implants.

**Additional Equipment Required**

In addition to the SpineJack Preparation Kit and Expansion Kit(s), the following products are required to create a safe combination:

• Access cannula and stylet with a minimum diameter of 3 mm (11 Gauge), used for the transpedicular approach.

• Vertical Bone Graft Expander Bone Cement Twin Pack (REF 0406-622-000)

• Vertical Bone Graft Expander Bone Cement Twin Pack (REF 0406-622-000)

The use of any other bone cement is done under the practitioner's responsibility.

• Orient each implant. The implant expander tube is aligned the palm handle of the implant (Figure 7).

To obtain a combination, the SpineJack kits and related components must be used together as a system:

**SYSTEM (COLOR) REQUIRED KITS, REF**

4.2 mm (Gold) SpineJack Preparation Kit KP004  
SpineJack Expansion Kit KE004  
Cement Pusher KP001  
Injector Transfer Tube TC04004

5 mm (Blue) SpineJack Preparation Kit KP001  
SpineJack Expansion Kit KE001  
Cement Pusher KP008  
Injector Transfer Tube TC05009

5.6 mm (Green) SpineJack Preparation Kit KP008  
SpineJack Expansion Kit KE008  
Cement Pusher KP004  
Injector Transfer Tube TC05004

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SpineJack Expansion Kit KE004  
Cement Pusher KP001  
Injector Transfer Tube TC04004

5 mm (Blue) SpineJack Preparation Kit KP001  
SpineJack Expansion Kit KE001  
Cement Pusher KP008  
Injector Transfer Tube TC05009

5.6 mm (Green) SpineJack Preparation Kit KP008  
SpineJack Expansion Kit KE008  
Cement Pusher KP004  
Injector Transfer Tube TC05004

**Note:** One Precaution: wait for bone expansion. If the same bone expansion kit is used, 4.2 mm, 5 mm or 5.6 mm are necessary to position two SpineJack implants.

**Precautions**

• The SpineJack system must be used in accordance with good surgical practices.

• Knowledge of the spine for the patient selection, the surgical technique, the fitting of the implant, and the control of the patient are essential conditions to ensure the effectiveness of the device and the patient's safety.

• The choice of the adequate indication, the respect of all the safety features and the surgical technique for each patient are essential.

• Each practitioner must assess the adequacy of the procedure and instruments used, taking into account the experience and training to accomplish the procedure.

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• Non utilizzare. L'implante può essere utilizzato una sola volta perché l'esistenza dell'implante non è rispettata. Una volta avviata il meccanismo di espansione, l'implante non può rientrare alla sua forma iniziale.

• Se si rilascia, si consiglia di riferirsi a riferimenti qualificati del sistema, e se necessario di provare a estrarre il dispositivo stesso, ma a sua volta, può compiere lesioni. Inoltre, ricomporre la retenzione di dispositivo non protegge il rischio di contaminazione e/o causare infusione o infettiva cresciuta del paziente, compresa, tra l'altro, la trasmissione di malattie infettive da altri.

• La contaminazione del dispositivo può causare lesioni, malattia o morte del paziente.

• Attenzione alle indicazioni locali, legate ai tagli e i rifugi a potenziale rischio biologico.

• Seguire SEMPRE le raccomandazioni e/o le norme locali legati al materiale di protezione dell'ambiente e di rischi associati a riciclaggio o allo smaltimento dell'apparecchiatura al termine delle sue funzionalità.

#### Definizione dei simboli

I simboli che si trovano sull'apparecchiatura e/o nella documentazione sono indicati nel diagramma nella Tabella di definizione dei simboli. Fare riferimento alla Tabella di definizione dei simboli in dattiloscrittura all'apparecchiatura.

#### SIMBOLI DEFINIZIONE

Istruzioni d'uso: Istruzioni d'uso sono fornite con l'apparecchiatura.

Informazione sulla sicurezza: Non contiene mercurio.

Informazione sulla sicurezza: Non contiene piombo.

Informazione sulla sicurezza: Non contiene cadmio.

Informazione sulla sicurezza: Non contiene arsenuro.

Informazione sulla sicurezza: Non contiene cromo(6).

Informazione sulla sicurezza: Non contiene polichlorinato di bifenile.

Informazione sulla sicurezza: Non contiene amianto.

Informazione sulla sicurezza: Non contiene polichlorinato di dibenzodioxina o dibenzofuran.

Informazione sulla sicurezza: Non contiene polichlorinato di dibenzop-dioxepin.

Informazione sulla sicurezza: Non contiene polichlorinato di dibenzofuran.

Informazione sulla sicurezza: Non contiene polichlorinato di dibenzodioxina.

Informazione sulla sicurezza: Non contiene polichlorinato di dibenzodioxepin.

Informazione sulla sicurezza: Non contiene polichlorinato di dibenzofuran.

Informazione sulla sicurezza: Non contiene polichlorinato di dibenzodioxepin.

Informazione sulla sicurezza: Non contiene polichlorinato di dibenzod