



REDUCT® Headless Compression Screw System

INSTRUCTIONS FOR USE **Basic UDI**: 00841506102054

R: For use by physicians only. Federal Law restricts this device to sale by or on the order of a physician.

Failure to follow instructions may lead to patient injury.

This package insert is designed to provide Instructions for Use of the REDUCT Headless Compression Screw System; it is not a reference to surgical techniques.

Description

The REDUCT® Headless Compression Screw (HCS) System consists of the following screws from medical grade titanium alloy (ASTM F-136).

- · 2.5mm cannulated HCS screws
- · 3.5mm cannulated HCS screws
- 4.5mm cannulated HCS screws
- 2.0mm non-cannulated HCS Arthrodesis screws
- · 2.5mm cannulated HCS Arthrodesis screws
- · 3.5mm cannulated HCS Arthrodesis screws

The REDUCT® Headless Compression System includes instrumentation identified for the associated surgical techniques. Both the REDUCT® Headless Compression Screws and instrumentation are provided non-sterile and must be sterilized in the user facility.

Indications

The Skeletal Dynamics REDUCT® Headless Compression Screw System is intended for fixation of osseous fragments or fractures, arthrodesis of small joints, and osteotomies, with the appropriately sized screw.

Contraindications

Prior to using the REDUCT® Headless Compression Screw System, ensure that none of the following patient conditions are present: active or latent infection, sepsis, osteoporosis, insufficient quantity or quality of bone and/or soft tissue, material sensitivity (if sensitivity is suspected, tests are performed prior to implantation), or patients who are unwilling or incapable of following post operative care instructions. These devices are not intended for screw attachment or fixation to the posterior elements (pedicles) of the cervical, thoracic, or lumbar spine.

Warnings

- The patient must be cautioned about the use, limitations, and potential adverse effects of this device including
 the possibility of delayed union, non-union, device or treatment failure as a result of loosening, stress, excessive
 activity, or weight bearing or load bearing, and the possibility of nerve or soft tissue damage related to either
 surgical trauma or the presence of the device.
- The patient should be informed about the importance of following the post-operative rehabilitation protocol and to understand the limitations in activities of daily living. The patient must be warned that failure to follow postoperative care instructions may cause the implant or treatment to fail.
- For safe effective use of the implant, the surgeon must be thoroughly familiar with the surgical technique, implants, and associated instruments.
- The device is not designed to withstand the stress of weight bearing, load bearing, or excessive physical
 activity. Improper insertion of the device during implantation may also increase the possibility of loosening, or
 migration.
- DO NOT reuse any of the REDUCT[®] Headless Compression Screw System's implantable components. Reuse
 may compromise the structural integrity of the screw.
- Seek medical help immediately if implant malfunctions.

Precautions

- Protect the System's implantable components against scratching or nicking. Such stress concentration can lead to implant failure.
- Before using the REDUCT[®] Headless Compression Screw System, inspect all implants and instruments for wear, disfiguration and physical damage. If evidence of wear, disfiguration or physical damage is found, DO NOT use and contact your local Skeletal Dynamics representative or the Skeletal Dynamics Customer Care Department.
- DO NOT permanently implant the Skeletal Dynamics K-Wires; they are only intended to be used for provisional fixation and guidance.
- K-Wires are double trocar. User should handle K-Wires accordingly during insertion and removal to prevent unintended K-Wire penetration or injury.
- Do not mix system specific devices from different manufacturers for metallurgical, biomechanical and functional reasons.
- DO NOT use implant lengths that will excessively protrude through the far cortex as it may result in soft tissue irritation.
- The benefits from implant surgery may not meet the patient's expectations or may deteriorate over time, requiring revision surgery to replace the implant or to carry out alternative procedures. **Note:** To maintain traceability of the implantable components, record each of the respective components LOT numbers in the patient records post implantation.

MRI Safety Information

The REDUCT® Headless Compression Screw System has not been evaluated for safety and compatibility in the MRI environment. It has not been tested for heating, migration, or image artifact in the MRI environment. The safety of REDUCT Headless Compression Screw System in the MRI environment is unknown. Scanning a patient who has this device may result in patient injury.

Potential Adverse Events

Possible adverse effects associated with headless compression screws are infection, pain, stiffness, discomfort, or abnormal sensations and nerve or soft tissue damage due to the use of an implant or due to surgical trauma. The implant may break due to excessive activity, prolonged loading, incomplete healing, or excessive force on the implant during insertion. Metal sensitivity or histological or allergic or adverse foreign body reaction resulting from implantation of a foreign material may occur. Nerve or soft tissue damage, necrosis of the tissue or inadequate healing may result from the presence of an implant or due to surgical trauma.

Directions for Use

The REDUCT® Headless Compression Screw System should only be used by surgeons who have experience with this system. Each surgeon must evaluate the appropriateness for the use of the Headless Compression Screw System based on their clinical experiences.

The surgeon should select the type and size implant to best meet the patient's needs. Although the surgeon is the medical intermediary between the company and the patient, this document contains important medical information provided in this document should be shared to the patient.

It is the responsibility of the surgeon to be familiar with the procedure before use of this device. Additionally, it is the responsibility of the surgeon to be familiar with relevant publications regarding the procedure prior to use. Please refer to the Headless Compression Screw System Surgical Technique Guide to review the surgical approach as described by Jorge L. Orbay, M.D. of the *Miami Hand Institute* located in Miami, Florida.

Cleaning, Sterilization, and Inspection

For instructions on cleaning, disinfection, sterilization and inspection of the REDUCT® Systems products please refer to cleaning and sterilization instructions for use (IFU-04056-00).

Resources

The latest version of the Instructions for Use may be requested in a physical format by email (orders@skeletaldynamics.com) or by phone (+1-877-753-5396). The physical copy will be provided within 7 calendar days of receiving a request from the user or at the time of delivery of the device if so requested at the time of order.

For the most current instructions for use visit www.skeletaldynamics.com/resources. Instructions for Use should always be reviewed before using or implanting a device

Disclaimer of Warranty and Limited Remedies

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1-877-753-5396



UK Representative: Emergo Consulting (UK) Limited c/o Cr 360 - UL International Compass House, Vision Park Histon Cambridge CB24 9BZ United Kingdom







SYMBOLS GLOSSARY

Symbols that follow BS EN ISO 15223-1 / Medical Devices-Symbols to be used with medical device labels, labelling and information to be supplied.

Symbol	Symbol Reference Number and Title	Description	
	5.2.7 Non-Sterile	Indicates a medical device that has not been subjected to a sterilization process	
1	5.1.6 Catalogue Number	Indicates the manufacturer's catalogue number so the medical device can be identified	
1	5.4.3 Consult Instructions for Use	Indicates the need for the user consult the instructions for use	
\rightarrow	5.1.5 Batch Code	Indicates the manufacturer's batch code or lot can be identified	
—	5.4.2 Do Not Re-use	Indicates a medical device that is intended for one single use only	
\(\)	5.1.3 Date of Manufacture	Indicates the date when the medical device was manufactured	

Ú	5.1.1 Manufacturer	Indicates the medical device manufacturer	
EC REP	5.1.2 Authorized Representative in the European Community	Indicates the authorized representative in the European union. Symbol is accompanied by the name and address of the authorized representative adjacent to the symbol	
UK REP	Authorized Representative in the United Kingdom *Note symbol not found in BS EN ISO 15223-1	Indicates the authorized representative in the United Kingdom. Symbol is accompanied by the name and address of the authorized representative adjacent to the symbol	
\bigcirc	5.2.8 Do Not Use if Package is Damaged	Indicates a medical device that should not be used if the package has been damaged or opened	
\	5.1.4 Use-by-date	Indicates the date after which the medical device is not to be used	
UDI	5.7.10 Unique Device Identifier	Indicates a carrier that contains unique device identifier information	

REDUCT® Headless Compression Screw System Inventory Control Sheet

2.5mm Headless	Compression Screw
Screw, Headless Compression, 2.5mm x 10mm, Ti	Screw, Headless Compression, 2.5mm x 18mm, Ti
HCS-25010	HCS-25018
(01)00841506101835	(01)00841506101873
(01)008415061018	35 (01)00841506101873
Screw, Headless Compression, 2.5mm x 11mm, Ti	Screw, Headless Compression, 2.5mm x 20mm, Ti
HCS-25011	HCS-25020
(01)00841506115207	(01)00841506101880
(01)0084150611520	7 (01)00841506101880
Screw, Headless Compression, 2.5mm x 12mm, Ti	Screw, Headless Compression, 2.5mm x 22mm, Ti
HCS-25012	HCS-25022
(01)00841506101842	(01)00841506101897
(01)008415061018	(01)00841506101897
Screw, Headless Compression, 2.5mm x 13mm, Ti	Screw, Headless Compression, 2.5mm x 24mm, Ti
HCS-25013	HCS-25024
(01)00841506115214	(01)00841506101903
(01)0084150611521	(01)00841506101903
Screw, Headless Compression, 2.5mm x 14mm, Ti	Screw, Headless Compression, 2.5mm x 26mm, Ti
HCS-25014	HCS-25026
(01)00841506101859	(01)00841506101910
(01)008415061018	(01)00841506101910
Screw, Headless Compression, 2.5mm x 15mm, Ti	Screw, Headless Compression, 2.5mm x 28mm, Ti
HCS-25015	HCS-25028
(01)00841506115221	(01)00841506101927
(01)0084150611522	(01)00841506101927
Screw, Headless Compression, 2.5mm x 16mm, Ti	Screw, Headless Compression, 2.5mm x 30mm, Ti
HCS-25016	HCS-25030
(01)00841506101866	(01)00841506101934
(01)008415061018	(01)00841506101934
Screw, Headless Compression, 2.5mm x 17mm, Ti	
HCS-25017	
(01)00841506115238	
(01)0084150611523	3
3.5mm Headless	Compression Screw
Screw, Headless Compression, 3.5mm x 10mm, Ti	Screw, Headless Compression, 3.5mm x 20mm, Ti
HCS-35010	HCS-35020
(01)00841506101941	(01)00841506101996
(01)0084150610194	(01)00841506101996
Screw, Headless Compression, 3.5mm x 11mm, Ti	Screw, Headless Compression, 3.5mm x 22mm, Ti
HCS-35011	HCS-35022
(01)00841506115245	(01)00841506102009
(01) 0084150611524	(01) 00841506102009

REDUCT® Headless Compression Screw System Inventory Control Sheet

Screw, Headless Compression, 3.5mm x 12mm, Ti	Screw, Headless Compression, 3.5mm x 24mm, Ti
HCS-35012	HCS-35024
(01)00841506101958	(01)00841506102016
(01)00841506101958	(01)00841506102016
Screw, Headless Compression, 3.5mm x 13mm, Ti	Screw, Headless Compression, 3.5mm x 26mm, Ti
HCS-35013	HCS-35026
(01)00841506115252	(01)00841506102023
(01)00841506115252	(01) 00841506102023
Screw, Headless Compression, 3.5mm x 14mm, Ti	Screw, Headless Compression, 3.5mm x 28mm, Ti
HCS-35014	HCS-35028
1-3873	1-393
(01)00841506101965	(01)00841506102030
Screw, Headless Compression, 3.5mm x 15mm, Ti	Screw, Headless Compression, 3.5mm x 30mm, Ti
HCS-35015	HCS-35030
(01)00841506115269	(01)00841506102047
(01/00041300113203	(01)00841506102047
Screw, Headless Compression, 3.5mm x 16mm, Ti	Screw, Headless Compression, 3.5mm x 35mm, Ti
HCS-35016	HCS-35035
(01)00841506101972	(01)00841506105840
(01) 00841506101972	(01) 00841506105840
Screw, Headless Compression, 3.5mm x 17mm, Ti	Screw, Headless Compression, 3.5mm x 40mm, Ti
HCS-35017	HCS-35040
(01)00841506115276	(01)00841506105857
(01)00841506115276	(01)00841506105857
Screw, Headless Compression, 3.5mm x 18mm, Ti	Screw, Headless Compression, 3.5mm x 45mm, Ti
HCS-35018	HCS-35045
1	I DANSON
(01)00841506101989	(01)00841506105864
4	
	Compression Screw
Screw, Headless Compression, 4.5mm x 20mm, Ti	Screw, Headless Compression, 4.5mm x 30mm, Ti
HCS-45020	HCS-45030
(01)00841506115771	(01)00841506108711
(01)00841506115771	(01)00841506108711
Screw, Headless Compression, 4.5mm x 22mm, Ti	Screw, Headless Compression, 4.5mm x 35mm, Ti
HCS-45022	HCS-45035
(01)00841506115788	(01)00841506108728
(01)00841506115788	(01)00841506108728
Screw, Headless Compression, 4.5mm x 24mm, Ti	Screw, Headless Compression, 4.5mm x 40mm, Ti
HCS-45024	HCS-45040
(01)00841506108681	(01)00841506108735
(01)00841506108681	(01)00841506108735
Screw, Headless Compression, 4.5mm x 26mm, Ti	Screw, Headless Compression, 4.5mm x 45mm, Ti
HCS-45026	HCS-45045
[1465	F-167.5
(01)00841506108698	(01)00841506108742
(01)00041200108048	(01)00041300108/42

REDUCT® Headless Compression Screw System

Inventory Control Sheet

Screw, Headless Compression, 4.5mm x 28mm, Ti

HCS-45028

(01)00841506108704



(01)00841506108704

Screw, Headless Compression, 4.5mm x 50mm, Ti

HCS-45050

(01)00841506108759



(01)00841506108759

Single Use	(Disp	osable)	Instruments
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K-Wire, 0.9mm x 152mm, Double Trocar KWIR-HCS-09152

(01)00841506109145

K-Wire, 1.4mm x 165mm, Double Trocar KWIR-HCS-14165

(01)00841506102481



K-Wire, Single Trocar, 0.9mm x 152mm

KWIR-ST-09152

(01)00841506115283

K-Wire, Single Trocar, 1.4mm x 165mm

KWIR-ST-14165

(01)00841506115290



K-Wire, Double Trocar, 0.9mm x 152mm

KWIR-DT-09152

(01)00841506115320



(01)00841506115320

K-Wire, Double Trocar, 1.4mm x 165mm KWIR-DT-14165

(01)00841506115337



REDUCT® Arthrodesis Screw System Inventory Control Sheet

	2.0mm Arthr	odesis Screw	
Screw, Arthrodesis, 2.0 x 20mm, Ti HCSD-20020 (01)00841506112749	(01) 00841506112749	Screw, Arthrodesis, 2.0 x 32mm, Ti HCSD-20032 (01)00841506115535	(01)00841506115535
Screw, Arthrodesis, 2.0 x 22mm, Ti HCSD-20022 (01)00841506115498	(01)00841506115498	Screw, Arthrodesis, 2.0 x 34mm, Ti HCSD-20034 (01)00841506115542	(01)00841506115542
Screw, Arthrodesis, 2.0 x 24mm, Ti HCSD-20024 (01)00841506115504	(01)00841506115504	Screw, Arthrodesis, 2.0 x 36mm, Ti HCSD-20036 (01)00841506117157	(01) 00841506117157
Screw, Arthrodesis, 2.0 x 26mm, Ti HCSD-20026 (01)00841506115511	(01)00841506115511	Screw, Arthrodesis, 2.0 x 40mm, Ti HCSD-20040 (01)00841506108926	(01)00841506108926
Screw, Arthrodesis, 2.0 x 28mm, Ti HCSD-20028 (01)00841506115528	(01) 00841506115528	Screw, Arthrodesis, 2.0 x 44mm, Ti HCSD-20044 (01)00841506117164	(01) 00841506117164
Screw, Arthrodesis, 2.0 x 30mm, Ti HCSD-20030 (01)00841506108902	(01)00841506108902		
	2.5mm Arthr	odesis Screw	
Screw, Arthrodesis, 2.5 x 26mm, Ti HCSD-25026 (01)00841506115559	(01)00841506115559	Screw, Arthrodesis, 2.5 x 34mm, Ti HCSD-25034 (01)00841506115580	(01) 00841506115580
Screw, Arthrodesis, 2.5 x 28mm, Ti HCSD-25028 (01)00841506115566	(01) 00841506115566	Screw, Arthrodesis, 2.5 x 36mm, Ti HCSD-25036 (01)00841506115597	(01)00841506115597
Screw, Arthrodesis, 2.5 x 30mm, Ti HCSD-25030 (01)00841506108957	(01)00841506108957	Screw, Arthrodesis, 2.5 x 38mm, Ti HCSD-25038 (01)00841506115603	(01) 00841506115603
Screw, Arthrodesis, 2.5 x 32mm, Ti HCSD-25032 (01)00841506115573	(01)00841506115573	Screw, Arthrodesis, 2.5 x 40mm, Ti HCSD-25040 (01)00841506108971	(01)00841506108971

REDUCT® Arthrodesis Screw System Inventory Control Sheet

3.5mm Arthrodesis Screw			
Screw, Arthrodesis, 3.5 x 32mm, Ti		Screw, Arthrodesis, 3.5 x 40mm, Ti	
HCSD-35032	\$900	HCSD-35040	P40360
(01)00841506115429	62 00	(01)00841506109039	9 7 0
	(01) 00841506115429		(01)00841506109039
Screw, Arthrodesis, 3.5 x 34mm, Ti		Screw, Arthrodesis, 3.5 x 42mm, Ti	
HCSD-35034	E COMME	HCSD-35042	1920 0
(01)00841506115436	45	(01)00841506115467	200
	(01)00841506115436		(01)00841506115467
Screw, Arthrodesis, 3.5 x 36mm, Ti		Screw, Arthrodesis, 3.5 x 44mm, Ti	
HCSD-35036	\$982	HCSD-35044	\$902
(01)00841506115443		(01)00841506115474	
	(01)00841506115443		(01)00841506115474
Screw, Arthrodesis, 3.5 x 38mm, Ti		Screw, Arthrodesis, 3.5 x 46mm, Ti	
HCSD-35038	\$908g	HCSD-35046	P9992
(01)00841506115450	£25€	(01)00841506115481	130 8
	(01) 00841506115450		(01)00841506115481
Single Use (Disposable) Instruments			
K-Wire, 0.9mm x 127mm, Double Trocar		K-Wire, HCS, 1.1mm x 127mm, Double	Γrocar
KWIR-DT-09127	P3096	KWIR-DT-11127	\$50 8 6
(01)00841506109060		(01)00841506209098	k ara
	(01)00841506109060		(01)00841506209098