

IMPLATE® Wrist Arthrodesis Nail System INSTRUCTIONS FOR USE

Basic UDI: 00841506102320

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 IMPLATE® Wrist Arthrodesis Nail (WAN) System; it is not a reference to surgical techniques.

Description:

The IMPLATE® WAN System is designed as an intramedullary nailing platform to address wrist arthrodesis procedures utilizing a minimally invasive dorsal approach into the third metacarpal and distal radius by trained physicians. The respective nails are secured within the intramedullary canals by means of unicortical bone screws, and then assembled into a completed construct using a connector and two set screws.

The IMPLATE® WAN System is comprised of:

- Titanium alloy distal radius & metacarpal intramedullary nails
- Titanium alloy connectors in various lengths and angles
- · Titanium alloy unicortical screws
- · Cobalt chrome set screws
- System specific instrumentation

Note: All references contained in this document pertaining to distal radius nails, metacarpal nails, connectors, set screws, unicortical screws and other instrumentation are specific to the IMPLATE® WAN System by Skeletal Dynamics.

Indications for Use:

The IMPLATE® WAN System is intended for wrist arthrodesis. Specific indications include post-traumatic arthritis of the joints of the wrist; rheumatoid wrist deformities requiring restoration; complex carpal instability; post-septic arthritis of the wrist; severe unremitting wrist pain related to motion; brachial plexus nerve palsies; tumor resection; and spastic deformities.

Contraindications:

Prior to using the IMPLATE® WAN System, ensure that none of the following patient conditions are present: active or latent infection, insufficient quantity or quality of bone and/or soft tissue, material sensitivity, or patients who are unwilling or incapable of following post operative care instructions. The system should not be used in pediatric patients or patients with open growth plates.

☆Warnings & Precautions:

- Every connector must be secured to the construct using two (2) set screws (one at each end for metacarpal and distal radius nails). If either of the set screws are not attached and/or fully tightened, a non-union, delayed union or construct failure may occur.
- All unicortical screws must be implanted and fully tightened into the radial and metacarpal nails to maintain the
 integrity and strength of the finished construct. If the unicortical screws are not attached and/or fully tightened, a
 non-union, delayed union or construct failure may occur.
- The information in this document should be shared with the patient.
- The patient should be informed about the importance of following the post-operative rehabilitation in order to fully 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. 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 device is not designed to withstand the stress of excessive weight bearing, load bearing, or physical
 activity. Improper insertion of the device during implantation may also increase the possibility of loosening, or
 migration.
- 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.
- Potential construct failures such as implant breakage, loosening, delayed union, or non-union may occur as a result of non-compliance to post-operative rehabilitation, excessive wrist activities or construct overloading.
- Ensure sufficient space is available for proper application when used in conjunction with other implants to
 prevent interference. Interference with other prostheses may lead to failure of the implant or postoperative
 complications.
- DO NOT REUSE any of the system's implantable components. Reuse may compromise the structural integrity
 of the construct.
- Protect the system's implantable components against scratching or nicking. Such stress concentration can lead
 to implant failure.
- Before using the 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 during provisional fixation.
- DO NOT mix system specific instrumentation or implants from different systems or manufacturers for metallurgical, biomechanical and functional reasons.
- Dispose of contaminated implants and instruments per established facility guidelines and protocols.
- Caution should be taken for interference to pacemakers during the use of an electrocautery or uncertified drill power sources.
- Seek medical help immediately if implant malfunctions.
- To maintain traceability of the system's implantable components, you must record each of the respective components LOT numbers into the patient records.

Potential Adverse Events:

The following are potential risks that have been associated with wrist fusion surgery: infection, nonunion, persistent pain, stiffness of the fingers, loosening or migration of the implants.

MRI Safety Information:

The IMPLATE® WAN 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 the IMPLATE® WAN System in the MRI environment is unknown. Scanning a patient who has this device may result in patient injury.

Directions for Use:

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

Please refer to the IMPLATE[®] WAN Surgical Technique Guide to review the surgical approach to minimally invasive wrist arthrodesis as described by Jorge L. Orbay, M.D. of the *Miami Hand & Upper Extremity Institute* located in Miami, Florida (USA).

Cleaning, Sterilization, and Inspection

For instructions on cleaning, disinfection, sterilization and inspection of the IMPLATE® WAN 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.

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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 to consult the instructions for use	
→	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	

IMPLATE® WAN System

Inventory Control Sheet

	IMPLATE	Nails (Ti)		
IMPLATE Nail, Metacarpal, Standard, 4.0		IMPLATE Nail, Distal Radius, Short		
IMP-MCN-S40	PAGE:	IMP-DRN-SHT	P9003	
(01)00841506102160		(01)00841506102122	1988	
•	(01)00841506102160		(01)00841506102122	
IMPLATE Nail, Metacarpal, Standard, 4.6		IMPLATE Nail, Distal Radius, Long		
IMP-MCN-S46	\$90% \$400	IMP-DRN-LNG	P902#	
(01)00841506102177	633	(01)00841506102115		
	(01)00841506102177		(01)00841506102115	
IMPLATE Nail, Metacarpal, Mini, 4.0		IMPLATE Nail, Metacarpal, Mini, 4.6		
IMP-MCN-M40	P9038	IMP-MCN-M46	P2000	
(01)00841506102153	22	(01)00841506117096	26	
	(01)00841506102153		(01)00841506117096	
	IMPLATE Co	nnectors (Ti)		
IMPLATE Connector 2mm x 0°		IMPLATE Connector, 7mm x 15.0°		
IMP-WC-0200	F-2038	IMP-WC-0715	1986	
(01)00841506102337	<u>6</u> 23	(01)00841506102399	2336	
	(01)00841506102337		(01)00841506102399	
IMPLATE Connector, 2mm x 7.5°		IMPLATE Connector, 7mm x 22.5°		
IMP-WC-0207	P3093	IMP-WC-0722	2336	
(01)00841506102344	84%	(01)00841506102405	600E	
	(01)00841506102344		(01)00841506102405	
IMPLATE Connector, 2mm x 15.0°		IMPLATE Connector, 12mm x 0°		
IMP-WC-0215	K00000 194000	IMP-WC-1200	100000 100000	
(01)00841506102351	444	(01)00841506102412	888	
	(01)00841506102351		(01)00841506102412	
IMPLATE Connector, 2mm x 22.5°		IMPLATE Connector, 12mm x 7.5°		
IMP-WC-0222	機器	IMP-WC-1207	200	
(01)00841506102368		(01)00841506102429		
	(01)00841506102368		(01)00841506102429	
IMPLATE Connector, 7mm x 0°		IMPLATE Connector, 12mm x 15.0°		
IMP-WC-0700	100000 100000	IMP-WC-1215	1988	
(01)00841506102375	06636	(01)00841506102436	<u>₩36</u>	
	(01)00841506102375		(01)00841506102436	
IMPLATE Connector, 7mm x 7.5°		IMPLATE Connector, 12mm x 22.5°		
IMP-WC-0707	2000	IMP-WC-1222	2000 E	
(01)00841506102382	7.4.200	(01)00841506102443		
	(01)00841506102382		(01)00841506102443	
IMPLATE Set Screws (CoCr)				
Set Screw, 3.0mm x 2.0mm	Kraes			
STSC-30020-CS				
(01)00841506103105	(01) 00841506103105			
(01)00841506103105	(01) 00841506103105			

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Inventory Control Sheet

Unicortical Screws (Ti)						
Unicortical Screw, 2.8mm x 4.0mm UCNL-28040-TS (01)00841506103631	(01) 00841506103631	Unicortical Screw, 2.8mm x 8.0mm UCNL-28080-TS (01)00841506103679	(01) 00841506103679			
Unicortical Screw, 2.8mm x 5.0mm UCNL-28050-TS (01)00841506103648	(01) 00841506103648	Unicortical Screw, 2.8mm x 10.0mm UCNL-28100-TS (01)00841506103686	(01)00841506103686			
Unicortical Screw, 2.8mm x 6.0mm UCNL-28060-TS (01)00841506103655	(01)00841506103655	Unicortical Screw, 2.8mm x 12.0mm UCNL-28120-TS (01)00841506103693	(01) 00841506103693			
Unicortical Screw, 2.8mm x 7.0mm UCNL-28070-TS (01)00841506103662	(01) 00841506103662	Unicortical Screw, 2.8mm x 14.0mm UCNL-28140-TS (01)00841506103709	(01)00841506103709			
Single Use (Disposable) Instruments						
K-Wire, Standard Tip, 1.6mm x 127mm KWIR-STD-15127 (01)00841506102504	(01)00841506102504					