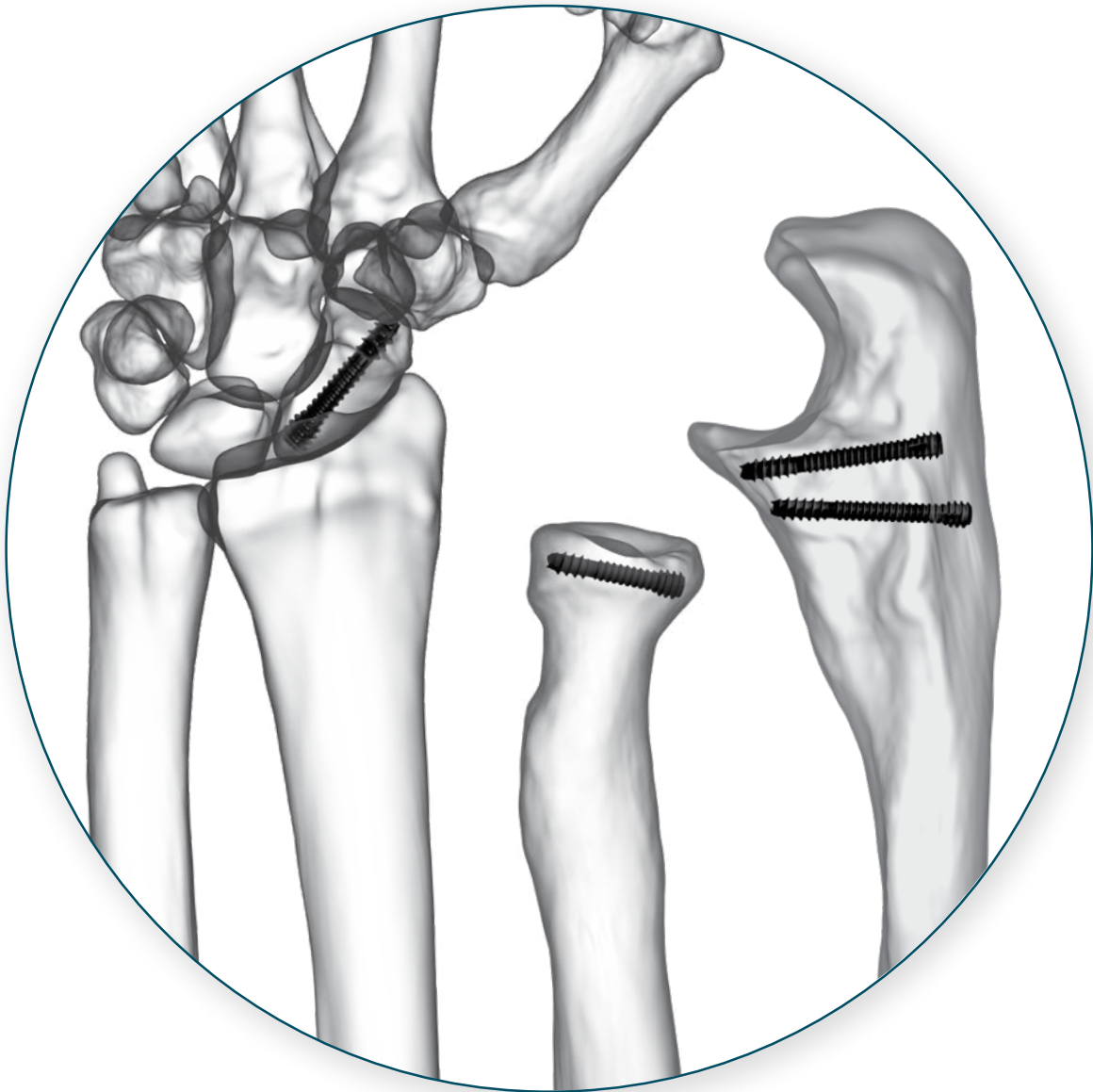


SURGICAL TECHNIQUE GUIDE

REDUCT[®]

headless compression screw



 **skeletal dynamics**[®]
UNDERSTANDING THE UPPER EXTREMITY

As described by:
Jorge L. Orbay, M.D.
Miami Hand & Upper Extremity Institute

REDUCT[®]

headless compression screw

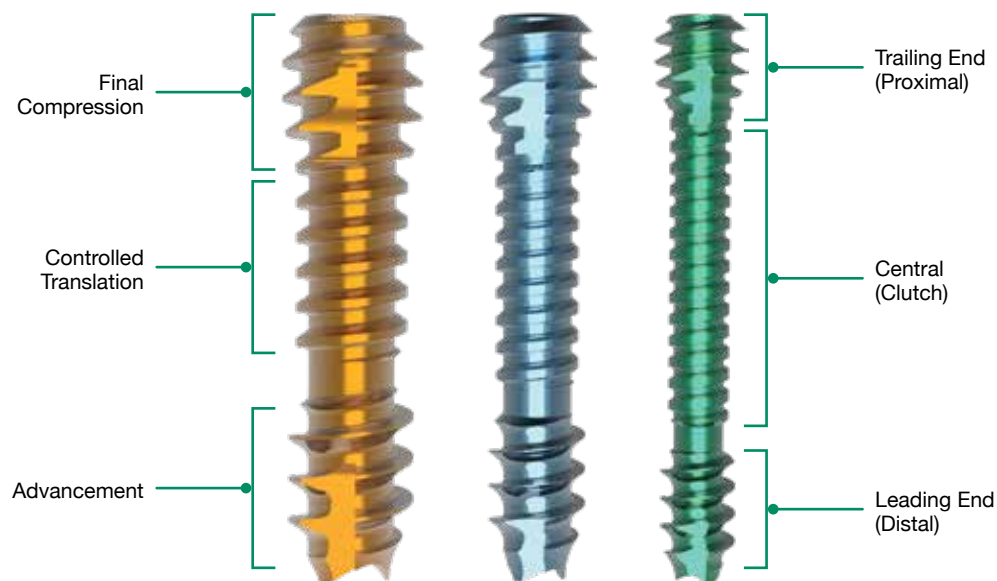
Description

The REDUCT[®] Headless Compression Screw (HCS) System consists of 2.5mm, 3.5mm, and 4.5mm cannulated titanium screws and specialized instrumentation.

- The 2.5mm screw is available in lengths between 10mm - 18mm, with increment of 1mm; 20mm - 30mm, with increments of 2mm
- The 3.5mm screw is available in lengths between 10mm - 18mm, with increment of 1mm; 20mm - 30mm, with increments of 2mm; 35mm - 45mm, with increments of 5mm
- The 4.5mm screw is available in lengths between 20mm - 30mm, with increments of 2mm; 35mm - 50mm, with increments of 5mm

Indications for Use

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.



1 REDUCE AND INSERT K-WIRE



Insert the k-wire until the tip is at the far cortex. A k-wire needle is included to assist with initial k-wire insertion if needed. Use radiographic imaging to confirm the k-wire lies along the central axis in the A/P and LAT planes with the provided handle. A tissue protector drill guide has been provided in the REDUCT® HCS Set if needed.

Note:

The set includes instrumentation for each screw diameter. Select the appropriate k-wire for the selected screw diameter to ensure proper depth gauge reading. Additionally, a double barrel k-wire guide is also included in the set when insertion of parallel screws is desired.



Warning:

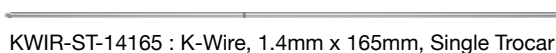
Handle double trocar k-wires carefully during insertion and removal to prevent unintended k-wire penetration or injury.



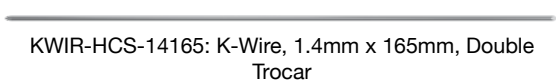
HCS-KWN: HCS K-Wire Needle



HCS-PWG-0X: HCS Parallel K-Wire Guide, X



KWIR-ST-14165 : K-Wire, 1.4mm x 165mm, Single Trocar



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



HCS-TPO: HCS Obturator

2 DRILL



The REDUCT® Headless Compression Screws are designed to be self-drilling and self-tapping. Pre-drilling is recommended to make it easier to insert the screw in dense bone. Pre-drill by passing the cannulated drill over the k-wire with the provided handle. A tissue protector drill guide has been provided for use if needed.

Note:

Remove the drill carefully to prevent backing out the k-wire. Remove the drill bit using the k-wire pusher or by hand once finished with drill.

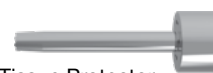


Option:

The system includes countersink drills for drilling into hard cortical bone.



HNDL-SQC-FXD: Handle, Small QC, Fixed



HCS-TPG: HCS Tissue Protector



DRLL-CDC-27: Drill, Quick Connect, 2.7mm Cannulated



DRLL-CSK-35L: Drill, Countersink, 3.5mm Long, Cannulated



HCS-WP: HCS Wire Pusher

MEASURE SCREW LENGTH

3

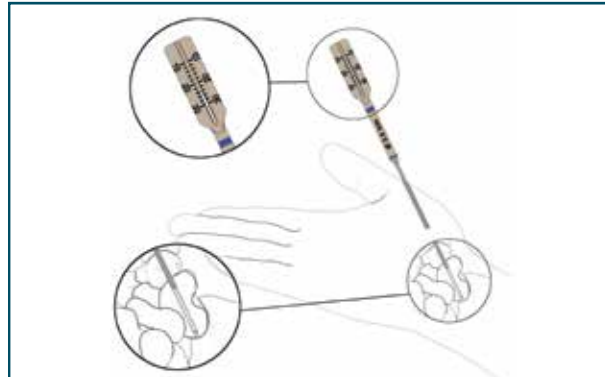
To determine the screw length under radiographic guidance, pass the depth gauge over the k-wire to the intended position for the proximal end of the screw. The reading on the depth gauge at the end of the k-wire indicates the screw length needed to place the screw tip at the tip of the k-wire.

Note:

Select the appropriate depth gauge for the selected screw diameter to ensure proper depth gauge reading.

Option:

The system includes a universal depth gauge that can be helpful during open procedures with direct access to the bone surface.



DPGA-UNV-050: Depth Gauge, Universal, 50mm



VHCS-DGA-35L: HCS Depth Gauge, 3.5mm



INSERT SCREW & CONFIRM PLACEMENT

4

Insert the selected sized screw over the k-wire and thread into the bone. Verify proper reduction and screw placement with radiographic imaging. Remove the k-wire.

Confirm the proper placement of the screw using fluoroscopy.



DRVR-HCS-1420: HCS Driver, 3.5mm



REDUCT® 4.5mm HEADLESS COMPRESSION SCREW



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



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



Drill, Quick Disconnect, 3.7mm Cannulated



Drill, Countersink, 4.5mm, Cannulated



HCS Depth Gage, 4.5mm



HCS Driver, 4.5mm



REDUCT® 3.5mm HEADLESS COMPRESSION SCREW



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



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



Drill, Quick Connect, 2.7mm Cannulated



Drill, Countersink, 3.5mm Long, Cannulated



HCS Depth Gauge, 3.5mm



HCS Driver, 3.5mm



REDUCT® 2.5mm HEADLESS COMPRESSION SCREW



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



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



Drill, Quick Connect, 1.9mm Cannulated



Drill, Countersink, 2.7mm, Cannulated



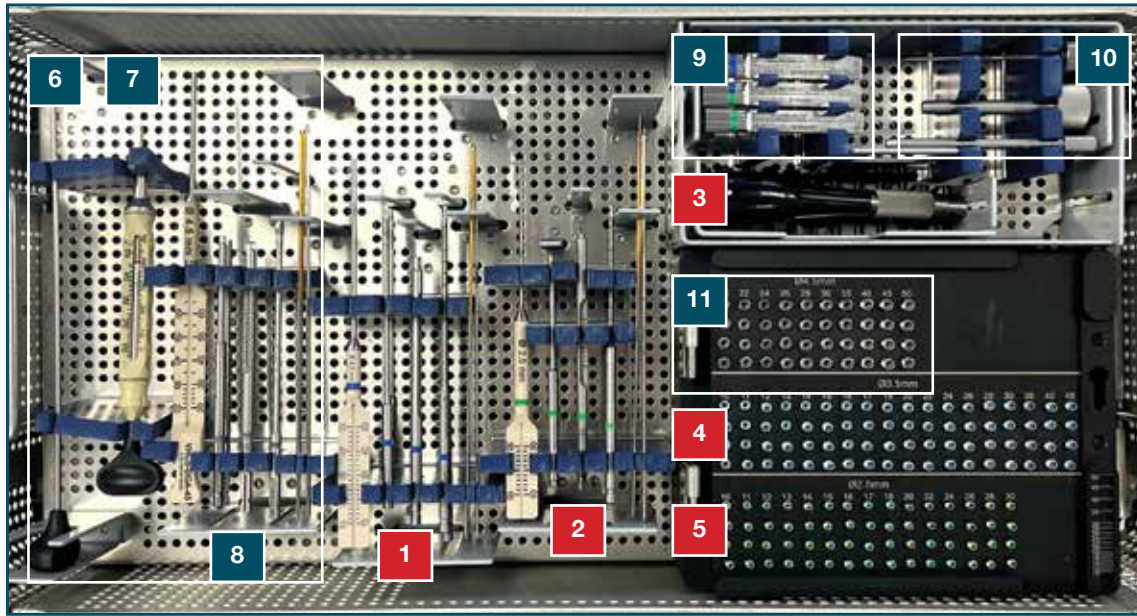
HCS Depth Gauge, 2.5mm



HCS Driver, 2.5mm



INSTRUMENT TRAY (Standard Configuration)



Loc#	Catalog#	Description	Loc#	Catalog#	Description
1	VHCS-DGA-35L DRVR-HCS-1420 DRLL-CSK-35L DRLL-CDC-27 KWIR-DT-14165 KWIR-ST-14165	HCS Depth Gage, 3.5mm HCS Driver, 3.5mm Drill, Countersink, 3.5mm Long, Cannulated Drill, Quick Connect, 2.7mm Cannulated K-Wire, Double Trocar, 1.4mm x 165mm K-Wire, Single Trocar, 1.4mm x 165mm		HCS-25018 HCS-25020 HCS-25022 HCS-25024 HCS-25026 HCS-25028 HCS-25030	Screw, Headless Compression, 2.5mm x 18mm, Ti Screw, Headless Compression, 2.5mm x 20mm, Ti Screw, Headless Compression, 2.5mm x 22mm, Ti Screw, Headless Compression, 2.5mm x 24mm, Ti Screw, Headless Compression, 2.5mm x 26mm, Ti Screw, Headless Compression, 2.5mm x 28mm, Ti Screw, Headless Compression, 2.5mm x 30mm, Ti
2	VHCS-DGA-25 DRVR-HCS-0915 DRLL-CSK-27 DRLL-CDC-19 KWIR-ST-09152 KWIR-DT-09152	HCS Depth Gage, 2.5mm HCS Driver, 2.5mm Drill, Countersink, 2.7mm, Cannulated Drill, Quick Connect, 1.9mm Cannulated K-Wire, Single Trocar, 0.9mm x 152mm K-Wire, Double Trocar, 0.9mm x 152mm			
3	HNDL-SQC-FXD	Handle, Small QC, Fixed			
4	HCS-35010 HCS-35011 HCS-35012 HCS-35013 HCS-35014 HCS-35015 HCS-35016 HCS-35017 HCS-35018 HCS-35020 HCS-35022 HCS-35024 HCS-35026 HCS-35028 HCS-35030 HCS-35035 HCS-35040 HCS-35045	Screw, Headless Compression, 3.5mm x 10mm, Ti Screw, Headless Compression, 3.5mm x 11mm, Ti Screw, Headless Compression, 3.5mm x 12mm, Ti Screw, Headless Compression, 3.5mm x 13mm, Ti Screw, Headless Compression, 3.5mm x 14mm, Ti Screw, Headless Compression, 3.5mm x 15mm, Ti Screw, Headless Compression, 3.5mm x 16mm, Ti Screw, Headless Compression, 3.5mm x 17mm, Ti Screw, Headless Compression, 3.5mm x 18mm, Ti Screw, Headless Compression, 3.5mm x 20mm, Ti Screw, Headless Compression, 3.5mm x 22mm, Ti Screw, Headless Compression, 3.5mm x 24mm, Ti Screw, Headless Compression, 3.5mm x 26mm, Ti Screw, Headless Compression, 3.5mm x 28mm, Ti Screw, Headless Compression, 3.5mm x 30mm, Ti Screw, Headless Compression, 3.5mm x 35mm, Ti Screw, Headless Compression, 3.5mm x 40mm, Ti Screw, Headless Compression, 3.5mm x 45mm, Ti			
5	HCS-25010 HCS-25011 HCS-25012 HCS-25013 HCS-25014 HCS-25015 HCS-25016 HCS-25017	Screw, Headless Compression, 2.5mm x 10mm, Ti Screw, Headless Compression, 2.5mm x 11mm, Ti Screw, Headless Compression, 2.5mm x 12mm, Ti Screw, Headless Compression, 2.5mm x 13mm, Ti Screw, Headless Compression, 2.5mm x 14mm, Ti Screw, Headless Compression, 2.5mm x 15mm, Ti Screw, Headless Compression, 2.5mm x 16mm, Ti Screw, Headless Compression, 2.5mm x 17mm, Ti			
					ONLY INCLUDED IN THE REDUCT® HCS SET
			6	HCS-WP	HCS Wire Pusher
			7	DPGA-UNV-050	Depth Gauge, Universal, 50mm
			8	VHCS-DGA-45 DRVR-HCS-1425 DRLL-CSK-45 DRLL-CDC-37 KWIR-DT-1465 KWIR-ST-1465	HCS Depth Gage, 4.5 HCS Driver, 4.5mm Drill, Countersink, 4.5, Cannulated Drill, Quick Disconnect, 3.7 Cannulated K-Wire, Double Trocar, 1.4mm x 165mm K-Wire, Single Trocar, 1.4mm x 165mm
			9	HCS-PWG-01 HCS-PWG-02 HCS-PWG-03	HCS Parallel K-Wire Guide, 1 HCS Parallel K-Wire Guide, 2 HCS Parallel K-Wire Guide, 3
			10	HCS-KWN HCS-TPO HCS-TPG	HCS K-Wire Needle HCS Obturator HCS Tissue Protector
			11	HCS-45020 HCS-45022 HCS-45024 HCS-45026 HCS-45028 HCS-45030 HCS-45035 HCS-45040 HCS-45045 HCS-45050	Screw, Headless Compression, 4.5mm x 20mm, Ti Screw, Headless Compression, 4.5mm x 22mm, Ti Screw, Headless Compression, 4.5mm x 24mm, Ti Screw, Headless Compression, 4.5mm x 26mm, Ti Screw, Headless Compression, 4.5mm x 28mm, Ti Screw, Headless Compression, 4.5mm x 30mm, Ti Screw, Headless Compression, 4.5mm x 35mm, Ti Screw, Headless Compression, 4.5mm x 40mm, Ti Screw, Headless Compression, 4.5mm x 45mm, Ti Screw, Headless Compression, 4.5mm x 50mm, Ti
				FRCP-BHL-RTP	Large Reduction Forceps *

* Not pictured



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