Eleganz™

Fusion Screw System

Surgical Technique | Hand

Dev4™
DEVELOPED 4 EXTREMITIES

Eleganz™ Design Rationale

The hand is one of the most complex and frequently utilized components of the musculoskeletal system. It is comprised of an intricate network of bones, muscles, ligaments, tendons, joints, and nerves that demand precision in both diagnosis and surgical treatment.

In collaboration with leading hand surgeons, Dev4 developed the **Eleganz™ Fusion Screw System** – a unique, simple, and intuitive fusion solution indicated for a broad range of applications, including bone fractures, osteotomies, and arthrodesis. At the core of the Eleganz™ system is Dev4's continuous variable-pitch compression screw, designed to be easy to use while delivering consistent, reproducible compression and reliable outcomes.

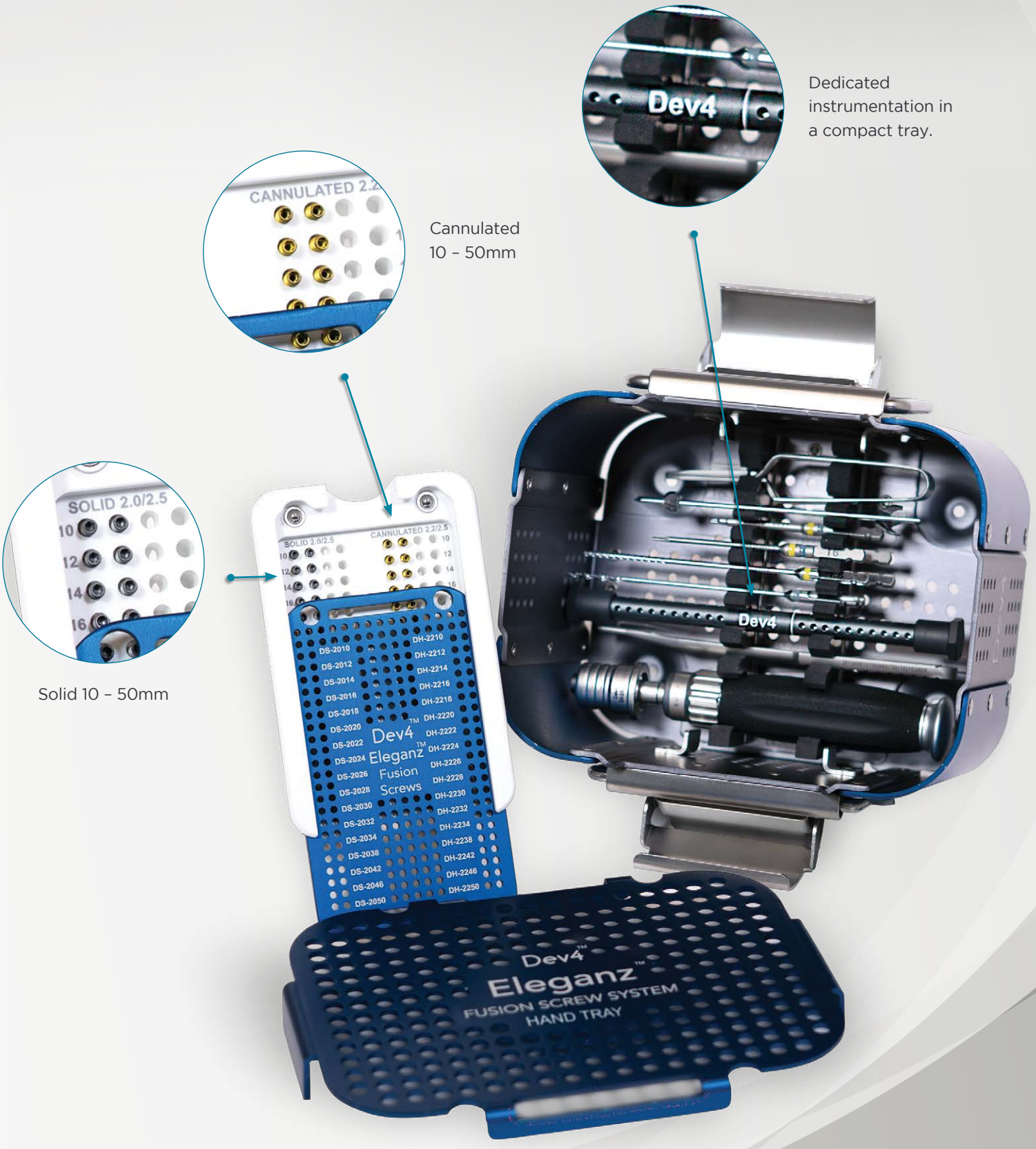
The **Dev4 Eleganz™ Fusion Screw System** is provided as a steam-autoclavable, turnkey kit, offering an advanced and efficient solution for surgeons, hospitals, and patients. The system includes both headless solid and cannulated, fully threaded, variable-pitch screws in lengths ranging from 10 – 50mm, with a 2.5mm head diameter, allowing versatility across a wide range of small-bone applications.

Designed specifically for the demands of the extremity hand surgeon, the Eleganz™ system delivers proven performance and surgical efficiency. Each comprehensive kit configuration contains all necessary implants and instrumentation required for a successful procedure, minimizing complexity and maximizing workflow efficiency.

The Dev4 Eleganz™ Fusion Screw System exemplifies Dev4's commitment to thoughtful implant and instrumentation design, with a singular focus on enabling reliable surgical technique and achieving the highest quality outcomes for patients.

The following literature is for informational and educational purposes only. It is not intended to serve as medical advice. It is the responsibility of treating physicians to determine and utilize the appropriate products and techniques according to their own clinical judgment for each of their patients. For more information on the product, including its indications for use, contraindications, and product safety information, please refer to the product's label and the electronic instructions for use at Dev-4.com.

The Eleganz™ Difference



Cannulated Screw Technique

STEP 1

Exposure and Joint Preparation

Make a transverse incision over the DIP joint and expose the joint while protecting the surrounding soft tissue. Remove all articular cartilage from the joint surfaces using the surgeon's preferred method, ensuring exposure of healthy subchondral bone to prepare the site for fusion.

STEP 2

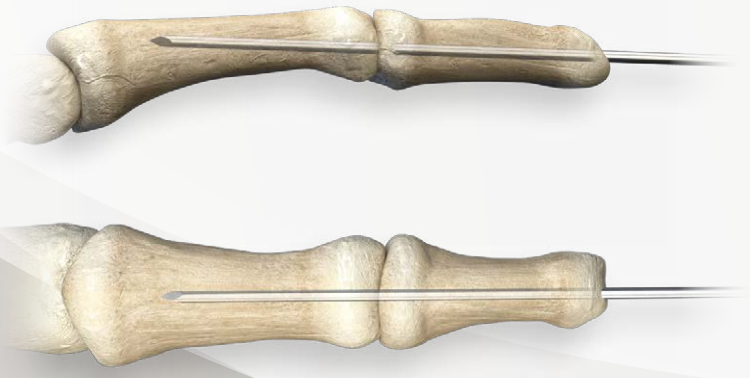
K-wire Placement

Advance the provided 0.8mm double-ended trocar K-wire in an antegrade direction, maintaining a central path within the distal phalanx. Verify proper placement using fluoroscopy in both AP and lateral views.

STEP 3

Dip Joint Reduction

Reduce the DIP joint, then advance the K-wire in a retrograde direction into the middle phalanx. Confirm central alignment with AP and lateral fluoroscopic views.



STEP 4

Screw Measurement

Make small transverse incisions on the medial and lateral sides of the fingertip adjacent to the K-wire. Use the provided depth gauge over the K-wire to measure the wire length and determine the appropriate screw length.

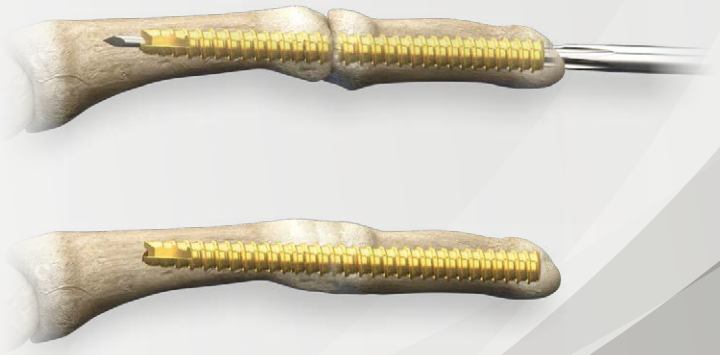
STEP 5

Countersink and Over-Drill

Countersink the cortex of the distal phalanx to the mechanical stop. Then over-drill the K-wire using the 2.2mm gold cannulated drill bit, advancing across the fusion site into the middle phalanx.

STEP 6

Screw Insertion



Choose the appropriate screw length based on the depth gauge measurement. Advance the screw over the K-wire using the provided cannulated driver until the head is seated at the desired depth within the distal phalanx. Remove the K-wire and close in the standard fashion.

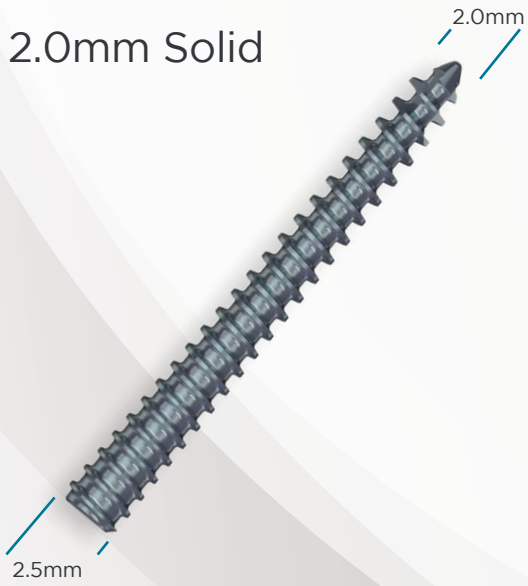
If resistance is encountered during screw insertion, remove the screw, re-drill, and restart it to the desired depth.

Screws

Catalog #	Screw	Part #
EL-2000	2.2/2.5 Cannulated Screw, 10mm	DH-2210
	2.2/2.5 Cannulated Screw, 12mm	DH-2212
	2.2/2.5 Cannulated Screw, 14mm	DH-2214
	2.2/2.5 Cannulated Screw, 16mm	DH-2216
	2.2/2.5 Cannulated Screw, 18mm	DH-2218
	2.2/2.5 Cannulated Screw, 20mm	DH-2220
	2.2/2.5 Cannulated Screw, 22mm	DH-2222
	2.2/2.5 Cannulated Screw, 24mm	DH-2224
	2.2/2.5 Cannulated Screw, 26mm	DH-2226
	2.2/2.5 Cannulated Screw, 28mm	DH-2228
	2.2/2.5 Cannulated Screw, 30mm	DH-2230
	2.2/2.5 Cannulated Screw, 32mm	DH-2232
	2.2/2.5 Cannulated Screw, 34mm	DH-2234
	2.2/2.5 Cannulated Screw, 38mm	DH-2238
	2.2/2.5 Cannulated Screw, 42mm	DH-2242
	2.2/2.5 Cannulated Screw, 46mm	DH-2246
	2.2/2.5 Cannulated Screw, 50mm	DH-2250
	2.0/2.5 Solid Core Screw, 10mm	DS-2010
	2.0/2.5 Solid Core Screw, 12mm	DS-2012
	2.0/2.5 Solid Core Screw, 14mm	DS-2014
	2.0/2.5 Solid Core Screw, 16mm	DS-2016
	2.0/2.5 Solid Core Screw, 18mm	DS-2018
	2.0/2.5 Solid Core Screw, 20mm	DS-2020
	2.0/2.5 Solid Core Screw, 22mm	DS-2022
	2.0/2.5 Solid Core Screw, 24mm	DS-2024
	2.0/2.5 Solid Core Screw, 26mm	DS-2026
	2.0/2.5 Solid Core Screw, 28mm	DS-2028
	2.0/2.5 Solid Core Screw, 30mm	DS-2030
	2.0/2.5 Solid Core Screw, 32mm	DS-2032
	2.0/2.5 Solid Core Screw, 34mm	DS-2034
	2.0/2.5 Solid Core Screw, 38mm	DS-2038
	2.0/2.5 Solid Core Screw, 42mm	DS-2042
	2.0/2.5 Solid Core Screw, 46mm	DS-2046
	2.0/2.5 Solid Core Screw, 50mm	DS-2050

2.2mm Cannulated

2.0mm Solid



Instruments

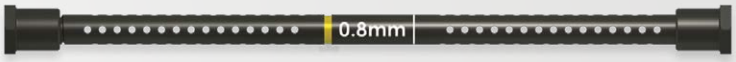
Eleganz™ Fusion Screw System Hand System *(EL-2000)*

Eleganz™ Fusion Screw System Hand Tray *(DI-2091)*

Eleganz™ Fusion Screw System Screw Caddy *(DI-2090)*

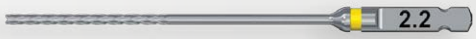
0.8mm Kirschner Wire *(DI-2040)*

K-Wire Tube 0.8mm *(DI-2099)*



K-Wire Tube Caps *(DI-2098)*

2.2mm Cannulated Drill, Short *(DI-2001)*



1.6mm Solid Core Drill, Short *(DI-2002)*

Countersink *(DI-2031)*

T6 Driver Bit, Cannulated *(DI-2021)*

T6 Driver Bit, Solid *(DI-2023)*

Ratcheting Driver Handle *(DI-2522)*

Depth Gauge *(DI-2010)*

Pickup *(DI-2583)*

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