UNITY

AVA



DORO®

AVA

PATENTED
RELEASE MECHANISM

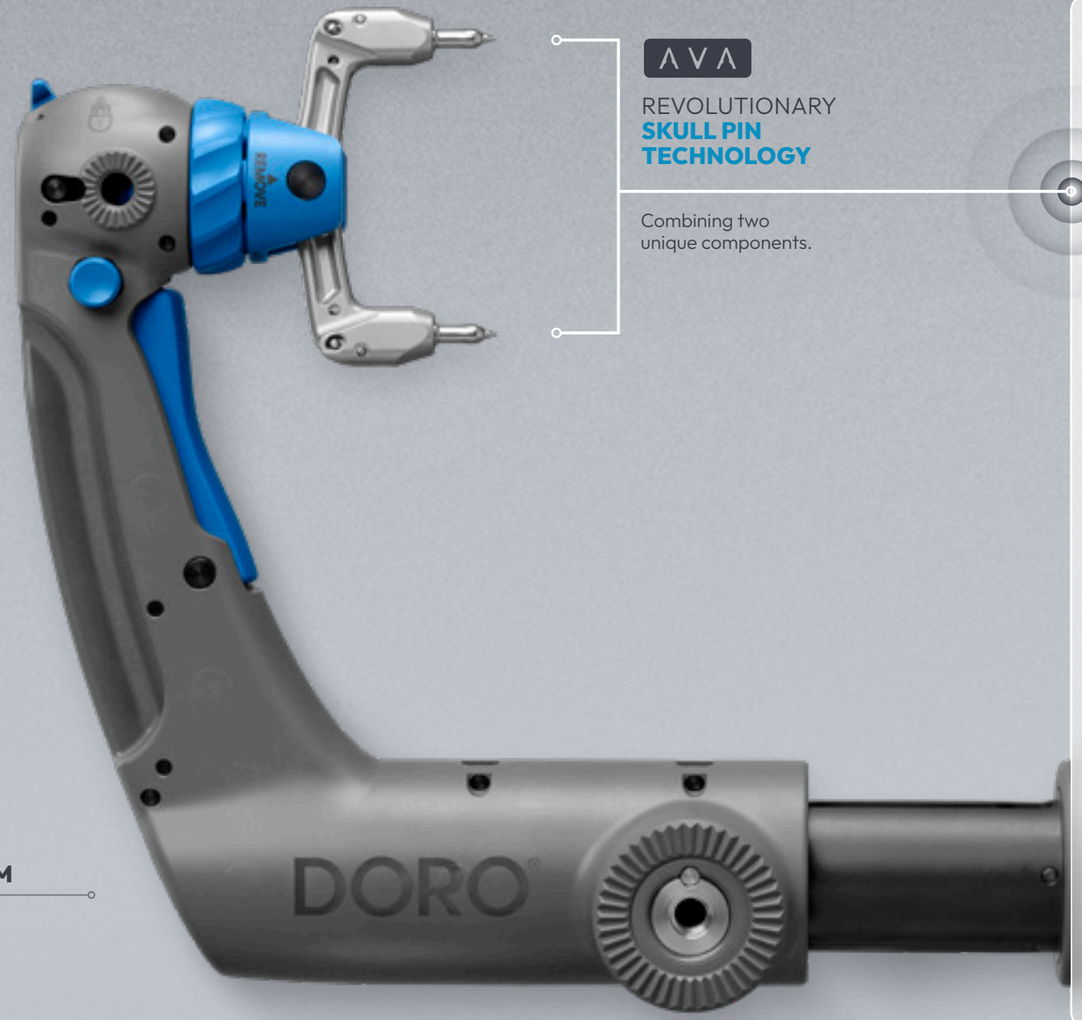
All controls accessible without hand repositioning, maintaining firm grip throughout pinning procedures.

UNIQUE
QUICK-RAIL®

Intuitive mounting of retractor systems and other accessories.

OPTIMIZED
SLIDING MECHANISM

Steady force distribution throughout the ratcheting process results in optimal precision and control.



AVA

REVOLUTIONARY
SKULL PIN TECHNOLOGY

Combining two unique components.

SLIPPAGE REDUCTION

supporting improved mechanical fixation stability[1]

BY 51%



1 DISTINCT SKULL PINS FOR EACH SIDE

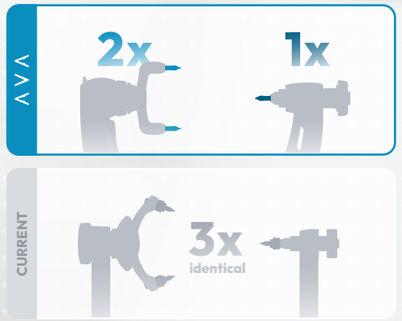
Novel skull pin geometries with differently angled tips on single and dual pin side are designed to promote **more balanced penetration depths** across all three fixation points.

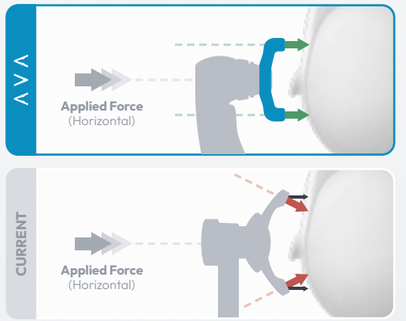
The shoulder-free skull pin design aims to **minimize unnecessary tissue contact** around the pin shaft.

STRAIGHT SKULL PIN HOLDER 2

The play-free interface aligns AVA Skull Pins with the clamping force and insertion direction for **precise placement**.

This supports **secure anchoring** in the cranial bone.





[1] Preclinical testing on mixed-gender cadaveric specimens, aged 63–102 years, showed for our novel pinning system 51% reduced slippage at 347 N (clinically relevant loads & procedures including simulated trepanation) and 35% reduced slippage at 520 N (1.5-fold safety margin above clinical loads).

PATENTED
RELEASE MECHANISM

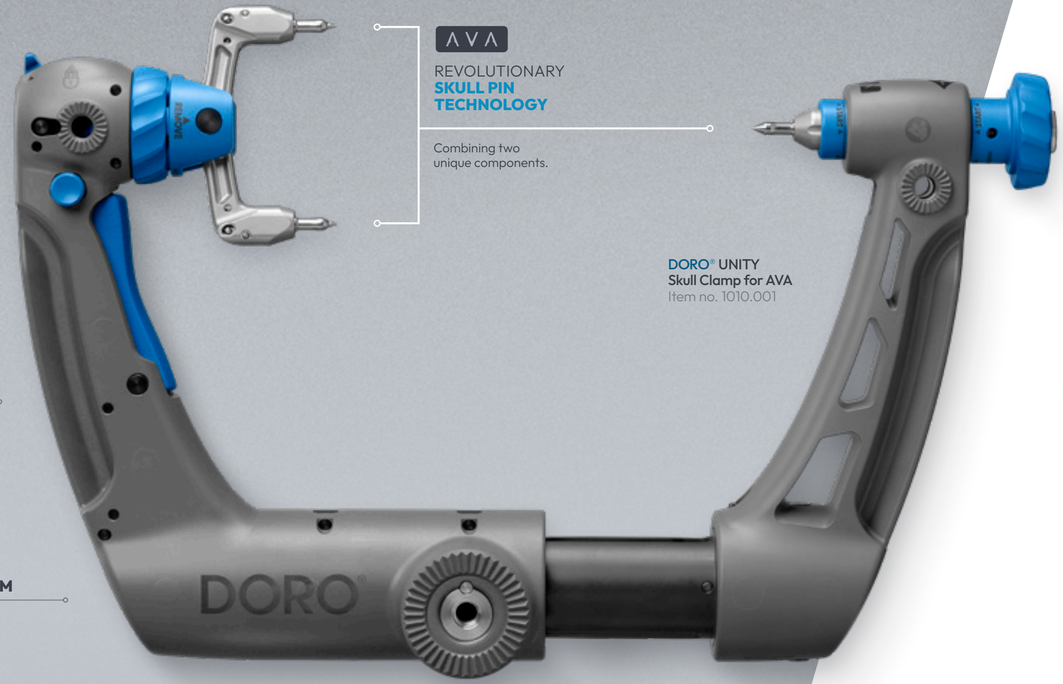
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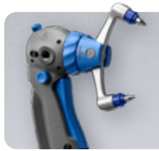
Combining two unique components.

DORO® UNITY
Skull Clamp for AVA
Item no. 1010.001

DEFINING NEW STANDARDS

Built to withstand the demands of daily clinical use, the DORO® UNITY Skull Clamp advances surgical workflows with elevated precision, control, usability, and reprocessing efficiency. Its incorporated heavy-duty functional parts are engineered to ensure consistent performance and reliability over time. The unique Quick-Rail® streamlines clinical workflows by enabling intuitive, secure, and quick mounting of necessary accessories such as retractor systems or additional navigation interfaces.

A Revolutionary Concept
The integrated AVA Skull Pin Technology introduces a paradigm shift in cranial stabilization. By aligning the skull pins in direction of the applied force during the pinning procedure, this approach creates the stable fixation surgeons require for procedural precision and navigational confidence during the most complex cases. The novel geometry allows these skull pins to be used for both adult and pediatric patients. This includes pediatric 3-point and 4-point configuration options, each with dedicated skull pin holders.



Alternatively available
for our conventional skull pin portfolio.

DORO® UNITY Skull Clamp
Item no. 1015.001



AUTOMATED
CLEANING & STERILIZATION

DORO® UNITY Skull Clamps are validated for both automated cleaning in washer/disinfectors and sterilization, ensuring consistent reprocessing reliability.

AVA



INTERCHANGEABLE
SKULL PIN HOLDERS

Secure positioning of both adult & pediatric patients, allowing 3-pin & 4-pin fixation for smaller head sizes with the same skull clamp.

ALSO AVAILABLE

Optimized for imaging supported procedures, the proven **DORO® LUCENT Skull Clamp** delivers superior imaging results with the same paradigm shift in cranial fixation defined by AVA, ensuring stable fixation and supporting navigational confidence during CT, X-ray, X-ray based angiography, and fluoroscopy workflows.



DORO®
LUCENT

AVAILABLE ITEMS	AVA
DORO® UNITY Skull Clamp for AVA	1010.001
DORO® UNITY Pediatric Skull Pin Holder Set for AVA	1010.040
DORO LUCENT® Skull Clamp for AVA	1110.001
DORO LUCENT® Pediatric Skull Pin Holder Set for AVA	1110.040
ALTERNATIVELY AVAILABLE	
DORO® UNITY Skull Clamp	1015.001
DORO® UNITY Pediatric Skull Pin Holder Set	1015.040
DORO LUCENT® Skull Clamp	1101.001
DORO LUCENT® Pediatric Skull Pin Holder Set	1101.040

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