

Hinged Microfracture Awl

ALLIANCE FOR INNOVATIVE MEDICAL TECHNOLOG – AIMTECH / ORTHOPEDICS



Microfracture awl that reduces unintended cartilage damage. Hinged handle allows for the physician to more easily deliver the force of the pick into the area of interest rather than laterally.

■ **Technical Readiness Level**

TRL 6 (System prototype demonstrated in relevant laboratory environment). Instrument has been designed and built based on cadaver lab feedback, incorporating revised handle and tip design. Additionally, several anatomical model procedures have been performed.

■ **Competitive Advantages + Differentiation**

Current microfracture awl products have angled tips but no pivot feature. The device has a shaft that can pivot on the handle. This provides the ability to transmit the force along the spiked tip and minimize lateral movement and skiving, while maintaining a similar depth of penetration. The handle provides greater stability during striking. Additionally, the

device is envisioned to have disposable features to ensure optimum and consistent performance.

■ **Intellectual Property Status**

Patent Application WO2015179646 A1.

■ **Inventors**

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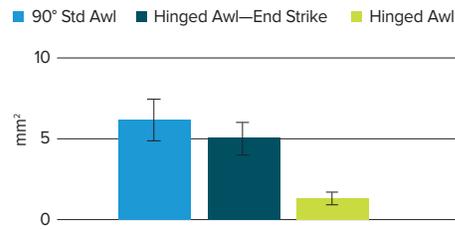
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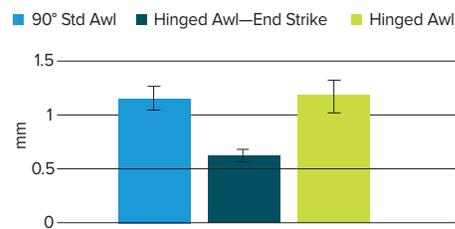
Market Overview

Osteoarthritis affects 13.9% of adult over 25 and 33% over 65. The United States cartilage repair market is growing at an annual rate of 6.8%. Defects in the articular cartilage make up a majority of the total knee arthroscopy market (61%). Arthroscopy procedural techniques include microfracture, arthroscopic debridement, osteochondral grafts (OATS) and autologous chondrocyte implantation (ACI) procedures.

SURFACE AREA OF FRACTURE



MAX DEPTH OF FRACTURE



ABOUT SOUTHERN RESEARCH

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