OMNIAFIX
NITINOL MICRO FRACTURE SYSTEM

OmniAfix offers a smaller and more desirable solution than standard micro-fracture applications. Microfracture tools are used to perform microfracture procedures for the treatment of defective areas in localized articular cartilage. Omniafix damages less surface area than a standard micro-fracture technique and is specifically designed to reduce subchondral surface damage. It has a depth of 9 mm.

NeoSys

www.neosysmed.com

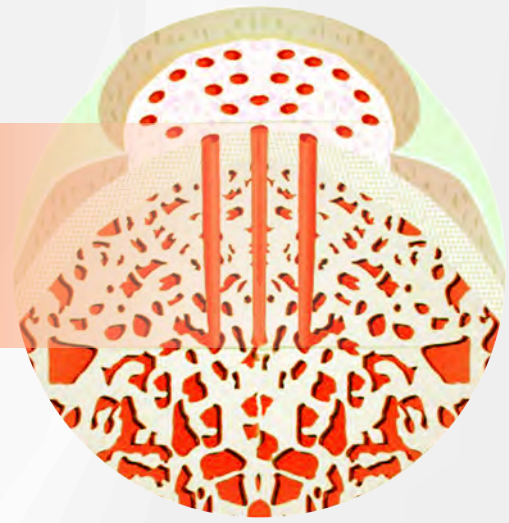
Order Informations

Ref Code	omniafix.....
Ref Code	

OMNIAFIX
NITINOL MICRO FRACTURE SYSTEM

SMALLER
DEEPER
BETTER

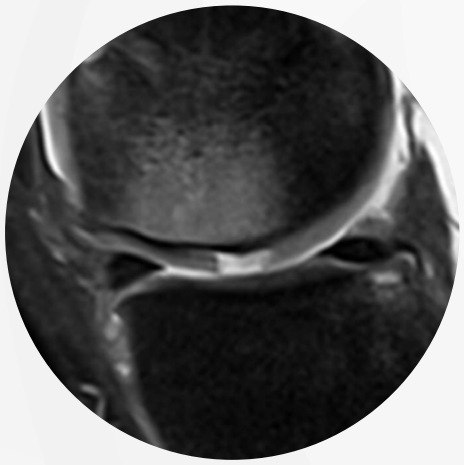
Average
9mm depth



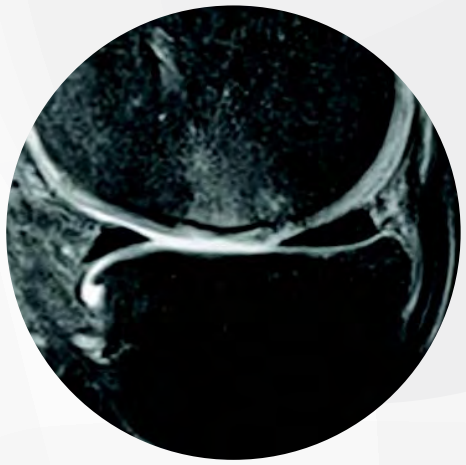
“The overriding finding of the present study is that small subchondral drill holes reflecting the physiological subchondral trabecular distance significantly improve osteochondral repair.”

Eldracher M, et. al. Small subchondral drill holes improve marrow stimulation of articular cartilage defects. AJSM 2014 Nov;42(11):2741-50.

Intra-Op
1.5 x 1.5 cm
Full Thickness Defect



Pre-Op MRI



6 Month
Post-Op MRI
after NanoFx

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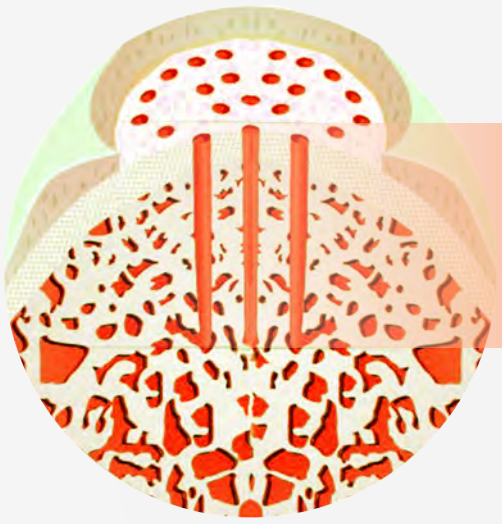
SMALLER

"Significant enhancements were observed at the level of individual parameters and of overall histological articular cartilage repair, together with improved immunoreactivity to type II and type I collagen of the cartilaginous repair tissue. Second, the microarchitecture of both the subchondral bone plate and the subarticular spongiosa was better reconstituted."

Eldracher M, Orth P, Cucchiarini M, Pape D, Madry H. Small subchondral drill holes improve marrow stimulation of articular cartilage defects. Am J Sports Med. 2014 Nov;42(11):2741-50.

3mm Channels Microfracture

1mm Channels NanoFx



Pluri-potential cells

DEEPER

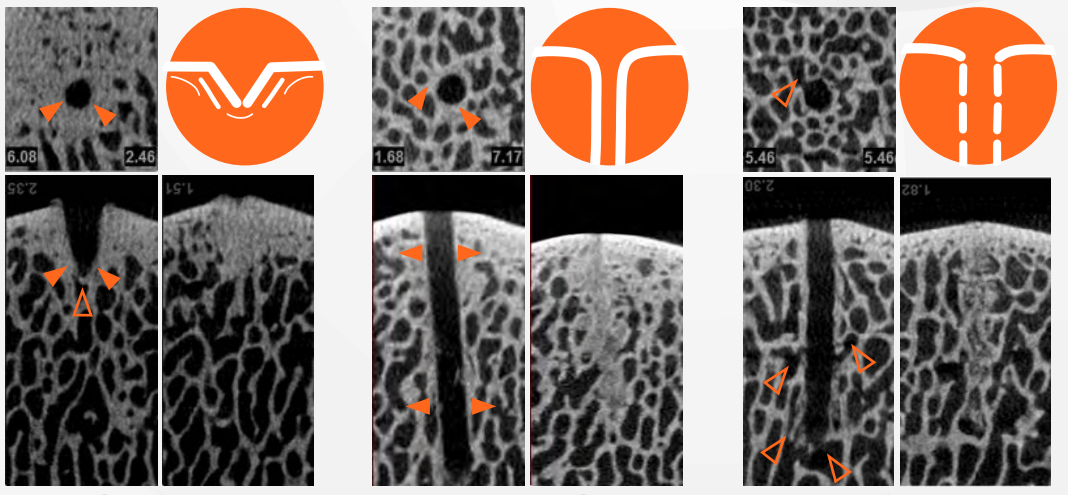
The standardized 9mm perforation depth provides improved access to the targeted marrow cells.

*** "Deeper versus shallower elicited greater fill of the cartilage defect with a more hyaline character in the repair matrix."**

Chen H, Hoemann CD, Sun J, Chevrier A, McKee MD, Shive MS, Hurtig M, Buschmann MD. Depth of subchondral perforation influences the outcome of bone marrow stimulation cartilage repair. J Orthop Res. 2011 Aug;29(8):1178-84.

BETTER

Figures: △ open trabecular channels; ▲closed trabecular channels, microCT comparison: Axial (top), Sagittal (bottom).



Microfracture **1mm K-Wire** **Nanofracture**

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