



FOOT AND ANKLE PRODUCTS



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PRECISION EQUIPMENT

A person wearing a blue lab coat and glasses is operating a large medical device. The device has a large monitor displaying a grid of data and a control panel with a touch screen and buttons. The person is looking at the monitor. The background is dark and industrial.

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JOINT RECONSTRUCTION SERIES



CUSTOMIZED TOTAL TALUS PROSTHESIS

Background

- The talus in the ankle joint is the hub connecting the lower limbs and feet, and is an important functional unit of the foot that couples the transmission of shoulder gravity and movement.
- Avascular necrosis of the talus (AVN) is a challenging clinical problem, with post traumatic disruption of the talus blood supply being the most common cause of AVN, accounting for up to 75%. When AVN occurs in the talus, the patient's ankle joint is painful, swollen, and has a long medical history. In severe cases, it is difficult to walk and surgical treatment is required.

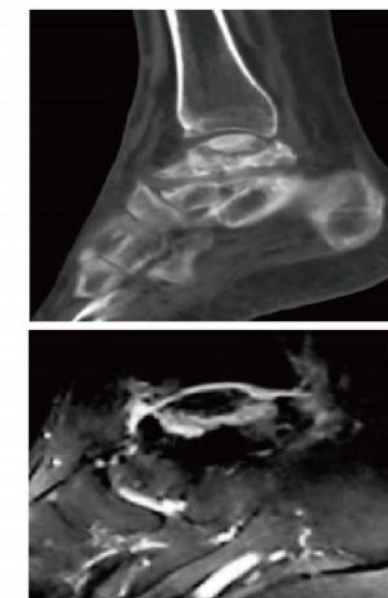


Figure: Imaging manifestations of talus necrosis

Surgical Treatment

Operation Program	Advantages Of The Program	Disadvantages Of The Program	Applicable Situation
Decompression of talus	Preserve the activity of the patient's joints	Narrow indications with significant differences in prognosis	Early stage of talus necrosis
Arthrodesis	Fusion of offspring to compensate for bone blood supply and alleviate symptoms	Loss of ankle joint mobility and frequent complications such as limb shortening	Applicable to all patients

Project Support

The technical foundation of 3D printing full talus prosthesis comes from the "National Key Research and Development - Personalization with Biological Functions Research and Application of Key Technologies for Rapid Prototyping and 3D Printing of Prostheses (2016YFC1100500) 《National Innovation Talent Promotion Program - Key Field Innovation Teams - Sports Injury Repair and Reconstruction Research Innovation Team (RA4057). Solved the manufacturing of domestic cobalt chromium alloy powder on domestic laser 3D printers Technical issues, completed technical reserves for materials, equipment, and processes, and constructed a complete additive technology Full chain advantages of technology, manufacturing platform, and medical engineering team.

CARTILAGE REPAIR SERIES

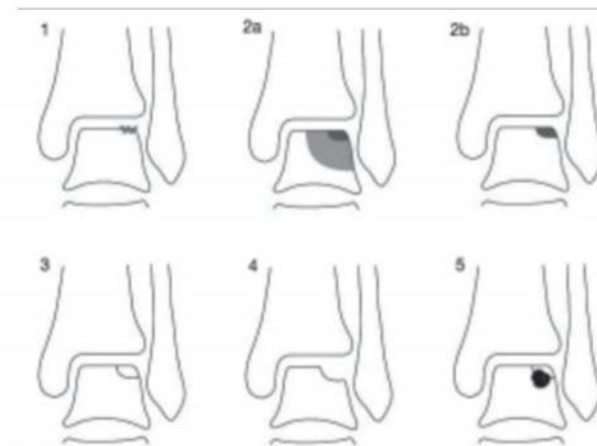


AUTOLOGOUS BONE GRAFT SYSTEM

Injury Of Talus Bone Cartilage

Osteochondral injuries of the talus (OLT) refer to localized injuries of the talus trochlear, with focal articular cartilage injuries/defects accompanied by bone edema, fractures, and/or cyst formation below, manifested as local cartilage detachment and involvement of subchondral bone, including exfoliative osteochondritis, osteochondral fractures, soft bones, and bone defects.

MRI Typing (Hepple)



- Phase II: Only joint cartilage damage
- Phase IIA: Cartilage injury with fracture/bone edema (valvular, acute)
- Phase IIB: Cartilage injury with fractures and bone edema (chronic)
- Phase III: Separation, Undisplaced Bone Fragments
- Phase IV: Fragment displacement without covering subchondral bone
- Phase V: Subchondral cyst formation

Osteochondral Autograft

Autologous bone and cartilage transplantation surgery is a bone and cartilage replacement technique that can simultaneously reconstruct joint cartilage and subchondral bone. This surgical procedure is suitable for HeppleV type OLTs with a large lesion area.

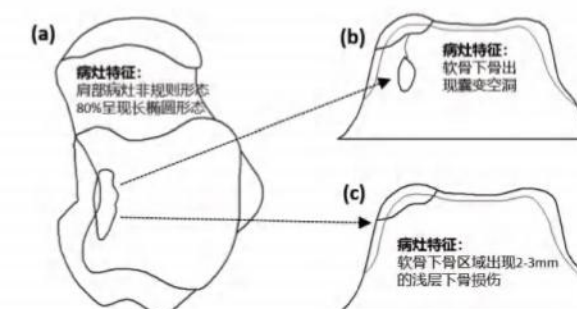
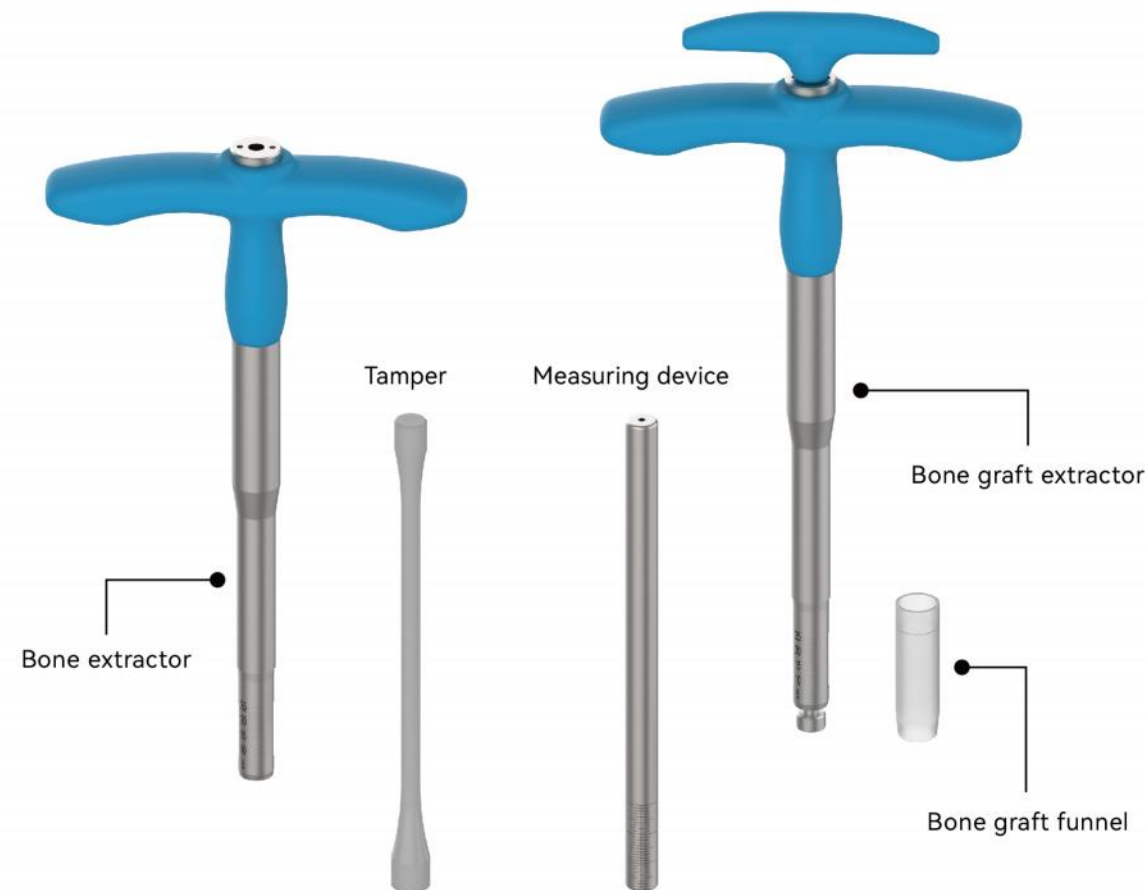


Figure: Schematic diagram of HeppleV lesions

SPECIFICATION OF CARTILAGE BONE GRAFT INSTRUMENT

Autologous osteochondral transplantation is an osteochondral replacement technique that can simultaneously restore articular cartilage and subchondral bone.

Product Description



Specification Of Cartilage Bone Graft Instrument Set

Set Specification	Measuring Device	Bone Graft Extractor	Bone graft funnel	Bone Extractor	Tamper
Φ6	Φ6	Φ6	Φ5	Φ6	Φ6
Φ7	Φ7	Φ7	Φ6	Φ7	Φ7
Φ8	Φ8	Φ8	Φ7	Φ8	Φ8
Φ9	Φ9	Φ9	Φ8	Φ9	Φ9
Φ10	Φ10	Φ10	Φ9	Φ10	Φ10
Φ11	Φ11	Φ11	Φ10	Φ11	Φ11
Φ12	Φ12	Φ12	Φ11	Φ12	Φ12
Φ13	Φ13	Φ13	Φ12	Φ13	Φ13
Φ14	Φ14	Φ14	Φ13	Φ14	Φ14

MICROFRACTURE TOOL SYSTEM

Product Overview

This micro fracture tool includes a reusable manual instrument, a disposable penetrator, and a disposable nail puller. These instruments are used for micro fracture surgery to treat small local articular cartilage defects, and are not suitable for lesions with a diameter greater than 10mm, a depth greater than 5mm, and complex Hepple V-shaped OLTs.

Product Description

The treatment using microfracture tools is usually completed as part of arthroscopy or minimally invasive surgery, without the need for special or unique surgical incisions.

1. Place the tip of the penetrator with a nail puller in the proximal cavity of the manual instrument.
2. Place the distal end of the assembled microfracture tool at a target point approximately 2mm away from the cartilage wall.
3. Use a light hammer to strike the near end handle of the penetrator to a depth of 9mm. After completion, remove the penetrator.
4. After removing the penetrator, reposition it to form additional penetrations at approximately 2mm intervals. Use spiral mode to penetrate the subchondral bone plate through micro fractures, making it evenly distributed and straight to a sufficient quantity.



Product Model

Microfracture tool -15 °



Penetrator



Manual instrument

15 ° angle



Screw remover

Microfracture tool -S type



Manual instrument



Screw remover



Penetrator



ANKLE ORTHOPEDIC-HALLUX SERIES



COUNTERSUNK HOLLOW SCREW

Countersunk Hollow Screw



Product No.	Diameter×Length(mm)	Material
6974405426892	7.0×68	TC4
6974405426908	7.0×70	
6974405426915	7.0×72	
6974405426922	7.0×75	
6974405426939	7.0×80	
6974405426946	7.0×85	
6974405426953	7.0×90	
6974405426960	7.0×95	
6974405426977	7.0×100	
6974405426984	7.0×105	
6974405426991	7.0×110	
6974405427004	7.0×115	
6974405427011	7.0×120	
6974405427028	7.3×50	
6974405427035	7.3×52	
6974405427042	7.3×54	
6974405427059	7.3×56	
6974405427066	7.3×58	
6974405427073	7.3×60	
6974405427080	7.3×62	
6974405427097	7.3×64	
6974405427103	7.3×66	
6974405427110	7.3×68	
6974405427127	7.3×70	
6974405427134	7.3×72	
6974405427141	7.3×75	
6974405427158	7.3×80	
6974405427165	7.3×85	
6974405427172	7.3×90	
6974405427189	7.3×95	
6974405427196	7.3×100	
6974405427202	7.3×105	
6974405427219	7.3×110	
6974405427226	7.3×115	
6974405427233	7.3×120	
Indication:Internal fixation for limb fractures(Excluding femoral neck) Sterilization Status: Non sterilize		

BALL HEAD HOLLOW SCREW

Ball Head Hollow Screw



Product No.	Diameter×Length(mm)	Thread Length L1(mm)	Material
6941883921461	3.5×16	5	TC4
6941883926046	3.5×16	7	
6941883926053	3.5×16	8	
6941883921478	3.5×18	5	
6941883926060	3.5×18	8	
6941883926077	3.5×18	9	
6941883921485	3.5×20	7	
6941883926084	3.5×20	9	
6941883926091	3.5×20	10	
6941883921492	3.5×22	7	
6941883926107	3.5×22	10	
6941883926114	3.5×22	11	
6941883921508	3.5×24	8	
6941883926121	3.5×24	10	
6941883926138	3.5×24	12	
6941883921515	3.5×26	8	
6941883926145	3.5×26	12	
6941883926152	3.5×26	13	
6941883921522	3.5×28	9	
6941883926169	3.5×28	12	
6941883926176	3.5×28	13	
6941883921539	3.5×30	10	
6941883926183	3.5×30	14	
6941883926190	3.5×30	15	
6941883921546	3.5×32	11	
6941883926206	3.5×32	14	
6941883926213	3.5×32	16	
6941883921553	3.5×34	11	
6941883926220	3.5×34	16	
6941883926237	3.5×34	17	
6941883921560	3.		

