

CareFix®

Multifunctional External Fixation System

-----Professional Solutions For Trauma And Limb Orthopedics



Ring



Six-axis



Unilateral



Combination

Caring For Life

Reconstructing Bones



Shanghai CareFix Medical

Ring External Fixator

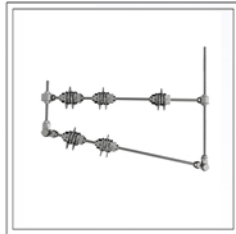
In 1951, Professor Ilizarov who comes from Union of Soviet Socialist Republics designed a new type of external fixator and created distraction osteogenesis, which is a milestone in the history of orthopedics in the world. The fixator can raise pressure on axis, force bones to lengthen, lateral diaphysis and orthopedics on multiple directions, bones can be utterly FIXED as a result of it. This technique is extensively and increasingly being applied in mainland of China at present. All of the processes of design and development of Ring external fixator are based on the technical principles from Professor Ilizarov.

FEATURES :

- 3mm(Hand), 4mm(Children), 6mm(Adult)
- To follow the Ilizarov's principle of tension and stress
- The major raw materials are stainless steel, aluminum-zinc alloy and radiolucent carbon material
- Complete sets of components and accessories and different combination can be assembled freely according to the operation needs
- More options for easier application many components

APPLICATION :

(1) 3mm(Hand)



Contracture, shortening and syndactylia of phalanges and metacarpals

(2) 4mm(Children), 6mm(Adult)

A Diaphyseal lengthening, reconstruction, transport



Fracture, nonunion, bone defect, osteomyelitis, pseudarthrosis of tibia

Deformity of limb shortening

B Metaphyseal configuration

① Ring



Fracture and deformity of proximal joints of humerus

Fracture and deformity of proximal femur

② Combined



Fracture, deformity and bone defect of distal femur and proximal andnbvb b distal tibia

C Interspan joint stiffness, Contracture, Varus/Valgus, Angular deformity

D Foot and Ankle Configuration



Angulation deformity and contracture of joints

Ankylosis, contracture and varus or exstrophy of knee joints



Equinus and ankle fusion

Six-axis Spatial Frame External Fixation(CHSF)

In 1994, USA's Taylor spatial frame is significant development of Ilizarov external fixation technique. Taylor's technique can raise pressure on axis, bone lengthening, lateral diaphysis, adjustable on multiple directions, correction of four-dimensional deformity, bones can be utterly fixed over the technique. Nowadays the number of applying Taylor's frame are expanding. CareFix's Hexagon Spatial Frame External Fixation had been initial launched in 2011, and now all of the measurements, calculations and digital prescriptions can be completing on website. It is a software with independent research and development and proprietary intellectual property rights. Preoperative planning, intraoperative operation and postoperative prescription has become simple and precise.

Website address to apply the application: <http://43.143.90.211/bone>

PRODUCT FEATURES :

- **Stability:** the structure of Hexagon Spatial Frame External Fixation is stable and allow weight carrying at early stage, it can accelerate the fracture healing and arise bone strength.
- **Multifunctionality:** Half and full pin with multiple planes that can provide the strongest stability, minimize soft tissue injury and being used for fracture and deformity correction.
- **Adjustability:** fracture fixation can be adjusted and force line can be corrected after operation, it is different to internal fixation.
- **Simplicity:** the number of management software and parts is less on web version which makes preoperative planning, intraoperative operation and treatment simple and accurate.

SOFTWARE FUNCTION :

- Ways and means of operation therapy plan
- Plan and review of postoperative adjustment
- Prediction of rod changing date
- Recording patients and cases that are convenient for analysis and conclusion

USING OF SOFTWARE :

1. Registration
2. Establish a new account, input patient details, upload images such as X-ray images
3. Measure and determine parameters of deformity and frame
4. Set initial figures such as ring diameters and rod lengths
5. Input complete date of treatment and the software starting calculation
6. Download and print digital prescription

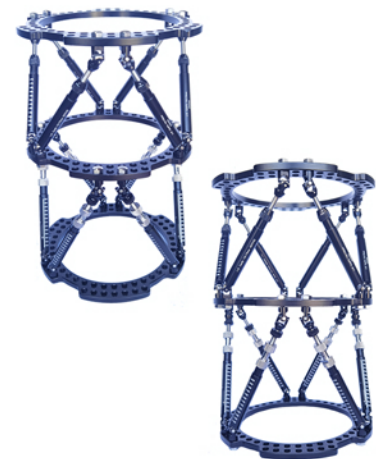
TYPICAL CONFIGURATION :



Six-Axis Double Ring Configuration



Six-Axis Foot&Ankle Configuration



Six-Axis Three Ring Configuration

Combined External Fixator

FEATURES :

- Modular designing, free combination and construction.
- Complete product line divided into 3mm, 5mm, 8mm and 11mm system can treat various and complex fracture to satisfy different ages and body parts.
- Pining first, then reduction, simple operation.
- Fixators can be assembled freely according to the needs and components can be added to the frame at any time during the operation.
- PEEK clamps are fully radiolucent and result in reduction of weight of the overall frame (one sixth weight of stainless steel), but no effects on stability.
- Connectors made of carbon, aluminum alloy, stainless steel and titanium alloy etc.
- Sterilization packaging.

APPLICATION :



Bilateral Standard Configuration



Proximal Tibia Standard Configuration



Foot&Ankle Standard Configuration

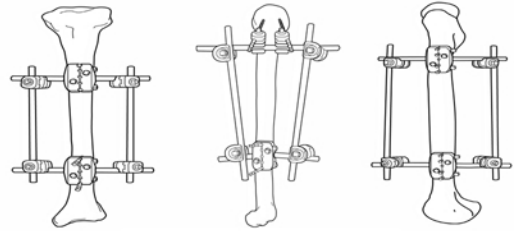


Pelvic Standard Configuration

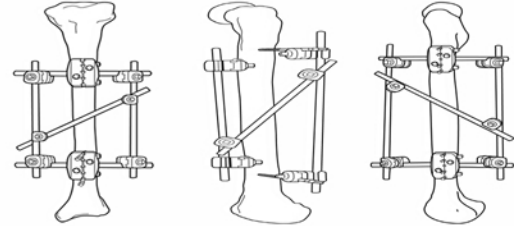


Distal Radius Standard Configuration

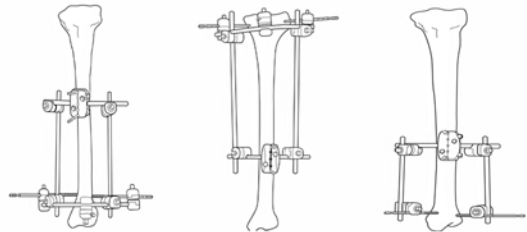
CLASSICAL FRAME :



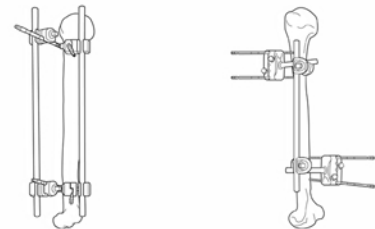
Combined D type Bone Shaft three-rod Configuration



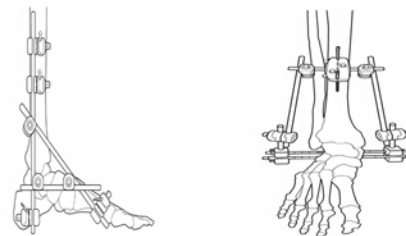
Combined E type Bone Shaft four-rod Configuration



Combined P type Distal Tibia Configuration



Combined K type Humeral Configuration



Combined R type Foot&Ankle Configuration



Combined L type Pelvic Configuration

Bone Transport & Periosteal Distraction Fixator

CareFix's Transverse retraction fixator divided into bone retraction fixator and periosteal retraction fixator. Bone retraction fixator divided into 3mm, 5mm and 8mm system, each system has single and double pin sub-system. Periosteal retraction fixator has single

MECHANISM OF TREATMENT :

Based on the law of tension-stress, continuous and gradual mechanical tension stimulates tissue regeneration and bone growth. Patented in China (Patent No. 202020256254.0).

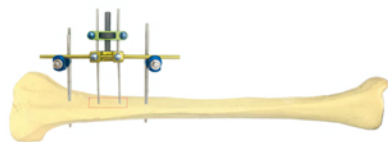
ADVANTAGE :

Minimally invasive and easy to operate, the system accelerates healing, reduces amputation risk, relieves pain, and enhances quality of life

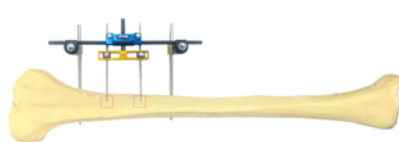
INDICATIONS :

Suitable for treating lower limb ischemic vascular disease, including diabetic foot, arteriosclerosis obliterans (ASO), and thromboangiitis obliterans (TAO)

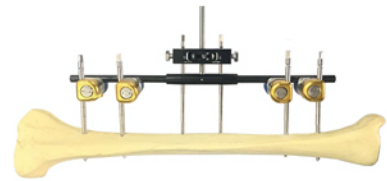
BONE RETRACTION :



3mm

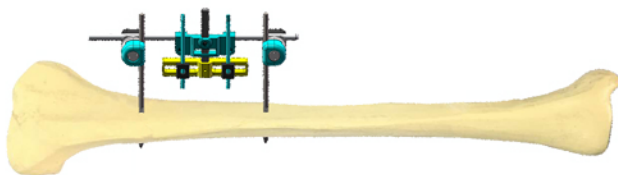


5mm

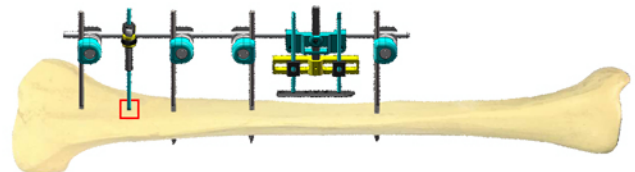


8mm

BONE+PERIOSTEUM :



Horizontal Bone Transporter



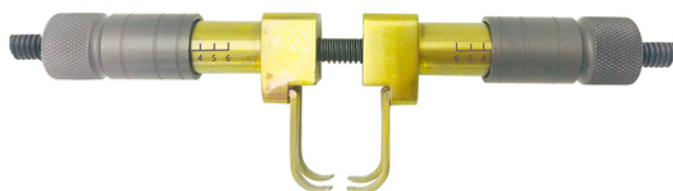
Horizontal Bone Transporter+Periosteal Traction

Skin Tractor Linear skin traction for wound repair

FEATURES : Adjustable force, flexible fixation, minimal wound, fast healing

TREATMENT PLAN : K-wire, subdermal pin, 2-3kg traction, frequent monitoring

CONTRAINDICATIONS : Infection, coagulopathy, insufficient skin, non-compliance



Skin Tractor 6mm



Skin Tractor 4mm

Unilateral External Fixator

FEATURES :

- Sterilization package without sterilizing and being out-of-the-box.
- Various fixators and frames, special series for children.
- Special pinhole design, 4 spots to fixation, stable clamp and increased range of clamp.
- Standard and modul design make different fixators can exchange parts due to compatibility, and can be assembled freely during operation.
- Integrated products and surgical tools decreasing the period of operation.
- Reset first, then pinning, it has better stability.
- Fixation across different joints, and adjustable angle and length of fixator. Controllable dynamic design provide micro movement at early stage .

FUNCTIONAL UNIT:



APPLICATION :

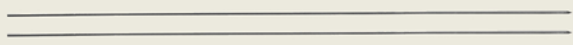
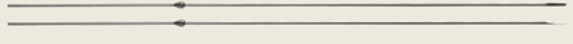



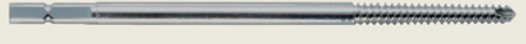

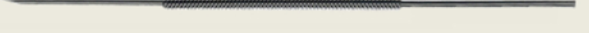
<p>T-Clamp Fixator (large, small)</p>	<p>Ankle Fixator</p>	<p>Straight Fixator (Large, Small)</p>
<p>T-Clamp Fixator (Peek Radiolucent)</p>	<p>Ankle Fixator (Radiolucent)</p>	<p>Limb Reconstruction System (large, small, mini, micro)</p>
<p>Proximal Femoral Fixator</p>	<p>Elbow Fixator (Large, Small)</p>	<p>Hip Fixator</p>
<p>Pelvic Fixator (Standard, Long)</p>	<p>Dynamic Wrist Fixator</p>	<p>Distal Radius Fixator (Standard, Compression, T-Clamp)</p>
<p>Articulated Minirail Fixator</p>	<p>Micro External, Straight</p>	<p>Micro External, universal</p>

Metallic Bone Pin / External Fixation Screw

FEATURES:

- Materials: stainless steel and Ti-alloy TC4
- Screw thread: shallow thread, deep thread and symmetric thread
- Head: taper, bayonet, twist drill, tapping thread and self drilling thread
- Tail: triangle and round tail
- Package: sterilization and non-sterilized.

SPECIFICATION:

Model	Picture	DiameterΦ(mm)	Total LengthL(mm)
Kirschner Wire		0.8、1.0、1.2、1.5、 2.0、2.5、3.0、3.5、 4.0、5.0、6.0	150、200 250、300、350
Olive Pin		1.0、1.2、 1.5、2.0	120、150 270、360
Symmetrical thread screw, cone blade, D-tail		1.5、2.0	70、90
Symmetrical thread screw, self-drilling		2.5、3.0	50、70、100
		4.0、5.0	80、120、130 150、180、200
Symmetrical thread screw, self-drilling		6.0	130、150、 180、200
Symmetrical thread screw, self-tapping		3.0、4.0 5.0、6.0	70、80、100、120、 130、150、180、200
Central screw and Steinmann pin		3.0、4.0	250、300

HA-Coated External Fixation Screw

The HA coating promotes better osseointegration with bone tissue.
Significantly reduces the risk of loosening and pin tract infection

- ★ Especially suitable for patients with osteoporosis and those requiring long-term fixation
- ★ Available in three cutting-edge designs: tapered, self-tapping, and self-drilling
- ★ Diameters: 3mm, 4mm, 5mm, and 6mm
- ★ Maximum length of 300mm, facilitating pin handling during surgery
- ★ Sterile packaging for immediate use upon opening.



Product	Description	Specifications
R68293025	Self-Tapping Cortical Thread	3.0×100(25)mm
R68294035	Self-Tapping Cortical Thread	4.0×120(35)mm
R68295030	Self-Tapping Cortical Thread	5.0×120(30)mm
R68295040	Self-Tapping Cortical Thread	5.0×130(40)mm
R68295045	Self-Tapping Cortical Thread	5.0×150(45)mm
R68295050	Self-Tapping Cortical Thread	5.0×180(50)mm
R68295051	Self-Tapping Cortical Thread	5.0×200(50)mm
R68326040	Self-Tapping Tapered Cortical Thread	6.0×130(40)mm
R68326045	Self-Tapping Tapered Cortical Thread	6.0×150(45)mm
R68326050	Self-Tapping Tapered Cortical Thread	6.0×180(50)mm
R68326056	Self-Tapping Tapered Cortical Thread	6.0×260(55)mm
R68346070	Self-Tapping Tapered Cortical Thread	6.0×260(70)mm

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