

SMART SYSTEM

INSTRUMENTATION	PART NUMBER
Double open ended wrench Ø 8-5.5 mm	MMC-5002220
T-Wrench Ø 8 mm	MMC-5002225
Guide cannula Ø 2 mm	MMC-5002230
Dual guide cannula Ø 2 mm	MMC-5002235
Cross rim wrench for screws Ø 2-3 mm	MMC-5000211
Ø 3 mm wrench	MMC-5000124
Positioning lever	MMC-5002250
Sterilization box for Stylo/Mini/Smart	MMC-5002290
Complete instrument set for Stylo/Mini/Smart + sterilization box	MMC-5002295

IMPLANT DESCRIPTION	PART NUMBER
Smart System - Lengthener	MMC-5002201
Smart System - Articular Fixator for deformity	MMC-5002202
Single clamp Ø up to 2 mm	MMC-5002210ST
Dual monolateral clamp	MMC-5002212ST

FIXATION MATERIAL	PART NUMBER
Self drilling cortical screws Ø 2 mm - lenght 30 mm - thread 10 mm	MMC-5002421ST
Self drilling cortical screws Ø 2 mm - lenght 40 mm - thread 10 mm	MMC-5002422ST
Self drilling cortical screws Ø 2 mm - lenght 50 mm - thread 10 mm	MMC-5002423ST
Self drilling cortical screws Ø 2 mm - lenght 60 mm - thread 10 mm	MMC-5002424ST

MATERIAL

Fixators and clamps: Aluminum alloy 7012 - Stainless steel AISI 316LVM
Screws: Stainless steel AISI 316LVM ISO 5832-1

PRODUCT IDENTIFICATION TRACEABILITY

To assure traceability, Smart System devices are identified as follows:

Fixators Batch + Serial number + Part number
Clamps Batch + Part number
Screws Batch + Diameter + Length

STERILIZATION

Smart System device is supplied NON STERILE.

Mikai advises using sterilization with autoclave (saturated steam) with the following parameters:

Temperature 135°
Pressure 2 atm
Period 45 min

Mikai does not advise using EtO sterilization nor other cold sterilization methods

Clamps and screws are supplied STERILE.

Produced by Mikai S.p.A. Headquarters: Via P. Gobetti 56r - 16145 Genova
Manufacturing Facility: Via Canestrello 2 - 36050 Monteviale (VI)
Mikai S.p.A. conforms to ISO 9001:2000 and ISO 13488

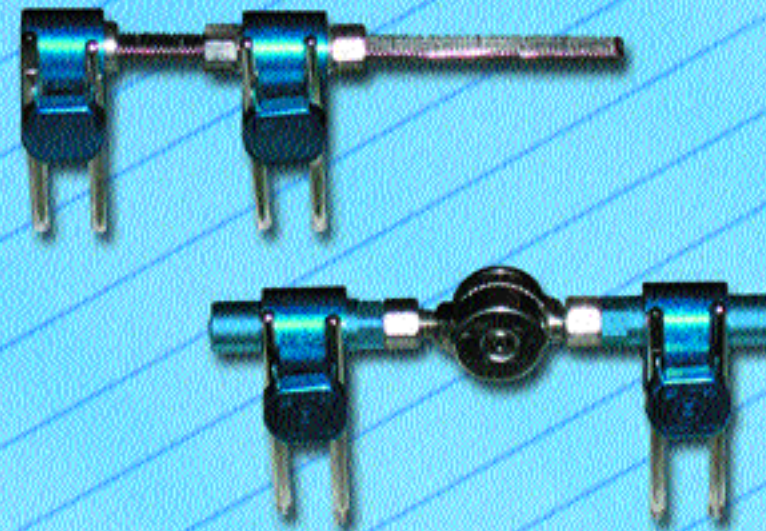


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SMART SYSTEM

Mini Fixator



Smart System is a modular external fixation system indicated for small hand pathologies such as metacarpal and phalangeal.

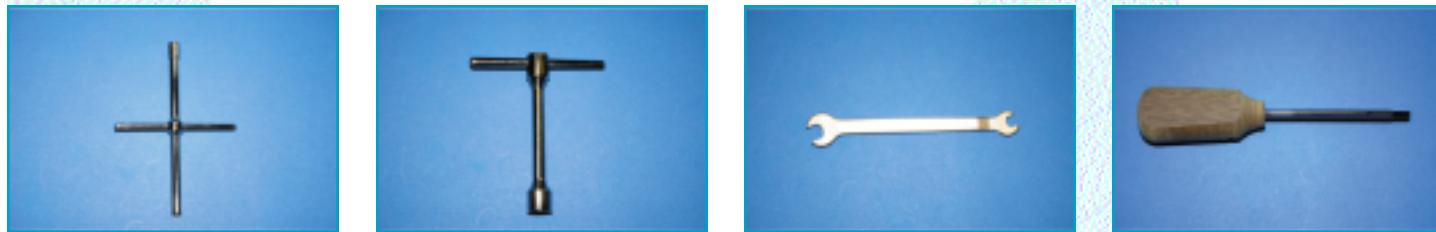
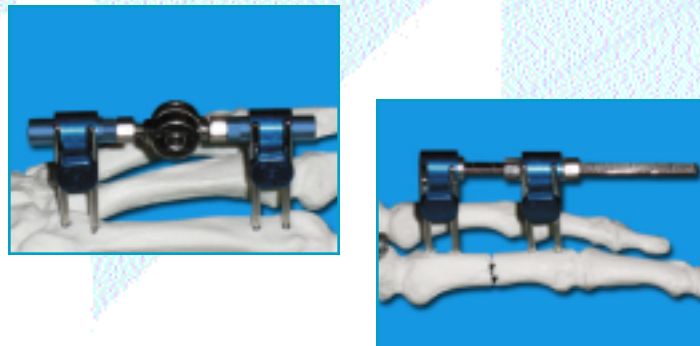
The ease of use with the lightweight fixator body allow for an effective synthesis to perform corrections of the bone, even in a post operative phase, where the margin of error must be close to zero.

Another important characteristic of the **Smart System** is the possibility to insert screws on various planes, as required, without having subsequent difficulties in the clamp positioning. The lengthening bar is a single use millimeter graduated bar that allows for a continual accurate measurement of the lengthening progression thus reducing the number of x-rays. The articular fixator, useful in the correction of rigidities, has a central joint with micrometric regulation that allows for gradual corrections, also due to the extensions that can be applied externally, without a loss of correction.

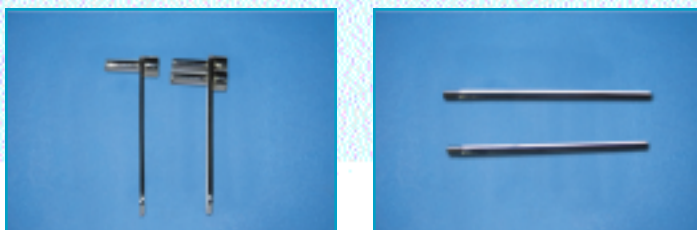
Light and simple to use, the **Smart System** is a true innovation in the external fixation of small segments.

INDICATIONS FOR USE IN:

- Fractures
- Pseudoarthrosis
- Infected Pseudoarthrosis
- Corrective osteotomies
- Congenital deformities
- Articular rigidities
- Lengthening
- Fractures with severe soft tissue lesions
- Corrections of soft tissue deformities.



INSTRUMENTS



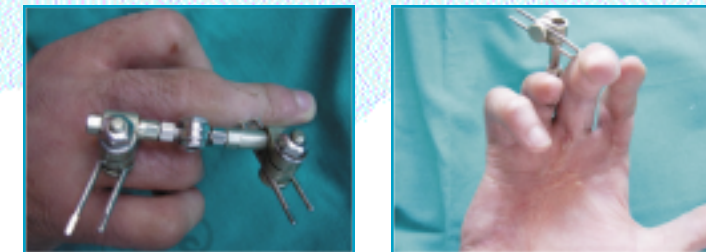
ARTICULAR RIGIDITIES

CASE PRESENTATION: a 25 year old patient with stiffened flexion of the third finger when greater than 90° with results of multiple digit reimplants.

OPERATIVE TECHNIQUES AND METHODS: initial surgery with an articulated fixator assembly using a gradual correction.



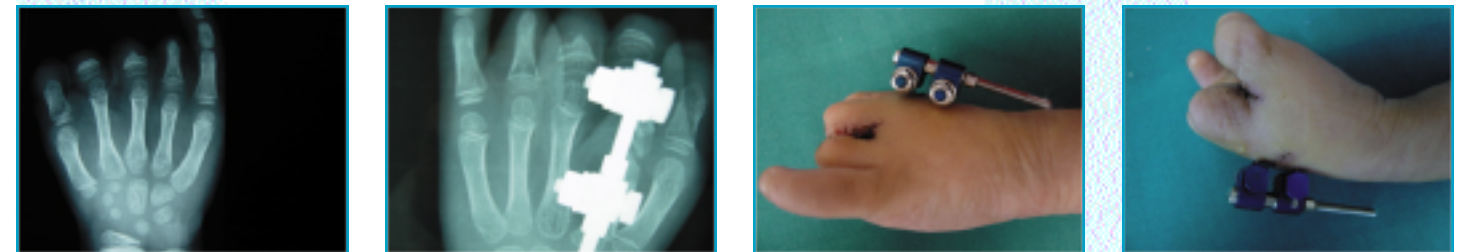
Clinical examination with extension obtained in 45 days.



LENGTHENING

CASE PRESENTATION: a four year old patient with congenital multidigit hypoplasia.

OPERATIVE TECHNIQUES AND METHODS: plastic surgery of the commessure and lengthening of the second metacarpal bone with extension and Callotosi technique.



Follow up

