

## FIXATION KIT EXTERNAL VETERINARY [TOC](#)

IMEX VETERINARY INC

MODEL # 500.SKT

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Website: [http://www.imexvet.com/sk/sk\\_large\\_starter.htm](http://www.imexvet.com/sk/sk_large_starter.htm)

AAC "L" ITEM NSN 6515-01-540-0369

UA: 905A

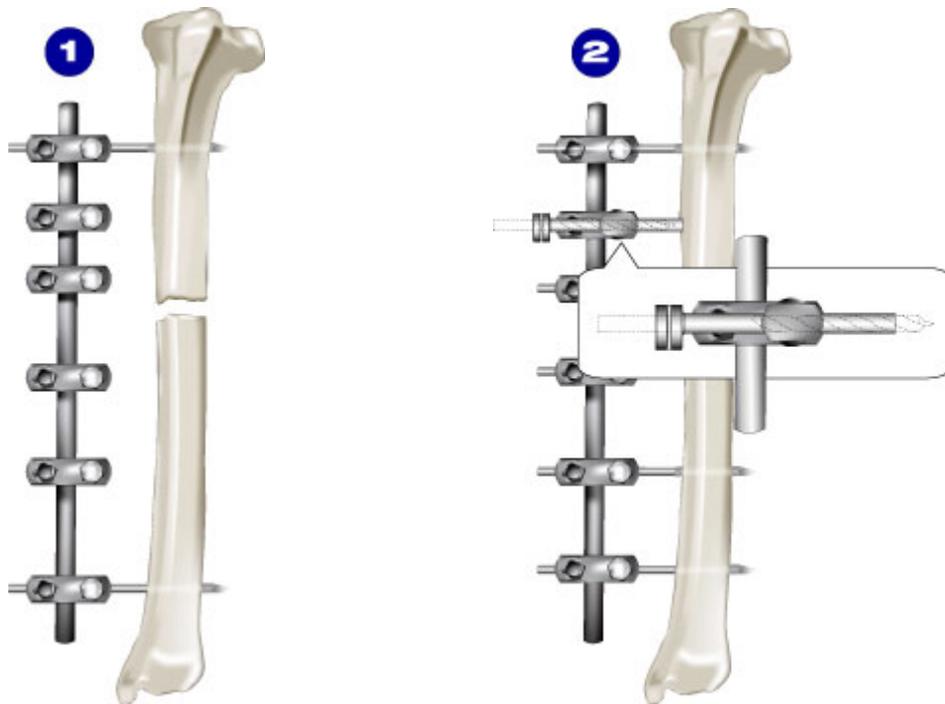
USAMMA POC: Customer Relations Management 301-619-4301/4316, DSN 343-4301/4316  
UNIT PRICE: \$908.72

**System Description:** This is a 53 piece kit that allows management of any long bone fracture. It has 10 small SK single clamps, two small SK double clamps, one small 9.5mm x 50mm carbon fiber rod, two 9.5mm x 100mm carbon fiber rod, two 9.5mm x 150mm carbon fiber rod, two 9.5mm x 200mm carbon fiber rod ; 9.5mm x 250mm carbon fiber rod, and two 9.5mm x 300mm carbon fiber rod. It is designed exclusively for veterinary use.

**This is one time usage kit! Replaceable items are not available without purchasing full kit.**

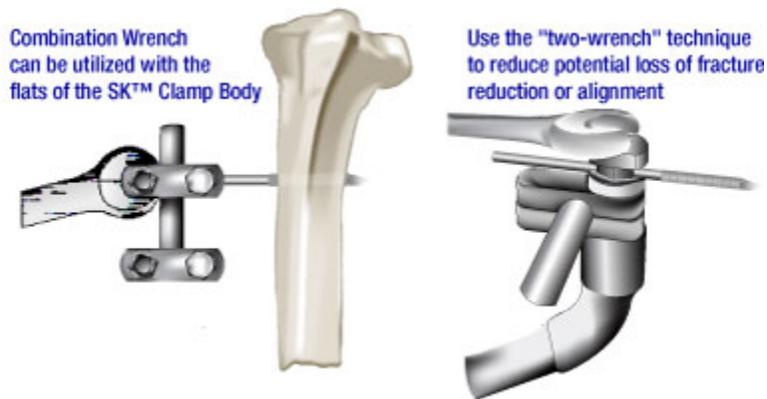
### SK™ ESF Basic Application Steps

1. Application of the SK™ fixator begins with placement of a single pin into the major proximal fragment and a single pin into the major distal fragment. Traditionally, these first pins have been the most proximal and distal pins of the frame, but location can be varied. A connecting rod is secured to the first two pins using SK™ single clamps. Empty clamps to accommodate the anticipated number of additional fixation pins can be pre-placed onto the rod or added later.
2. A release incision at least 1cm in length is made at each pin placement site. An empty clamp is positioned over the pin placement site. After correct orientation of the clamp is achieved, it is maintained by tightening the secondary clamp bolt. A drill sleeve is placed through the pin-gripping bolt of the clamp and gently tightened (do not crush hollow sleeve) to protect the soft tissues as the bone is pre-drilled in preparation for pin placement. The sleeve is removed and the fixation pin is applied through the primary clamp bolt using a Jacobs hand chuck or low RPM power insertion technique.



**SK™ ESF BASIC APPLICATION STEPS**

3. Fixation clamps are secured by alternate tightening of the secondary bolt and the nut on the primary bolt. Tightening torque has the potential to cause loss of fracture reduction or alignment. This potentially disruptive force can be neutralized during clamp tightening with use of the “two-wrench technique.” An open-end wrench placed on the flat surfaces of the head of the primary bolt (figure 3), or on the flats of the clamp body (figure 3 - inset), is used to neutralize torque force while a second wrench is used to tighten the clamp. Alignment should be re-checked with each pin application, and all clamps should be re-checked for tightness at completion of surgery.



**SK™ ESF BASIC APPLICATION STEPS**

## Large SK™ ESF Components

### Large SK™ ESF Starter Kit

The Large SK™ starter kit provides adequate components and all basic instruments to allow management of any long-bone fracture; appropriate pin sizes range from 3.0mm to 4.8mm. Medium pins (3.2mm) are used much more often than larger pins. Many customers choose to order additional single clamps and pins in order to handle multiple cases before reordering. StickTite™ drill bits and cancellous pins prove to be popular additions as well.

QUANTITY	PART NO.	DESCRIPTION
10	500.000	Small SK™ Single Clamps*
2	500.999	Small SK™ Double Clamps*
1	506.050	9.5mm x 50mm Carbon Fiber Rod
2	506.100	9.5mm x 100mm Carbon Fiber Rod
2	506.150	9.5mm x 150mm Carbon Fiber Rod
2	506.200	9.5mm x 200mm Carbon Fiber Rod
2	506.250	9.5mm x 250mm Carbon Fiber Rod
2	506.300	9.5mm x 300mm Carbon Fiber Rod
1	2.50003	10mm Combination Wrench
1	508.102	10mm Angled Socket Wrench
1	33031	3.1mm ESF Drill Bit
1	33039	3.9mm ESF Drill Bit
1	34031	Drill Sleeve/ESF for 3.1mm Drill Bit
1	34039	Drill Sleeve/ESF for 3.9mm Drill Bit
8	15180	Medium INTERFACE™ Half-Pins
4	20180	Medium CENTERFACE™ Full-Pins
8	15532	Large INTERFACE™ Half-Pins
4	20532	Large CENTERFACE™ Full-Pins



**LARGE SK™ CLAMP, SINGLE  
PART # 500.000**

Utilizes 9.5mm diameter external rods and 10mm wrenches. Supports use of 3.0mm shank, medium, medium-plus and large INTERFACE™ and CENTERFACE™ pins directly through the clamp. Recommended pin shanks 1/8" to 5/32" (3.2mm to 4.0mm). Maximum diameter accepted is 3/16" (4.8mm). Most commonly used pin is the medium 1/8" shank pin.



**LARGE SK™ CLAMP, DOUBLE  
PART # 500.999**

For connecting two 9.5mm external rods. Stability provided by positive interlock between clamps. Two 10mm wrenches required.

### **Large SK™ CARBON Connecting Rods, 9.5mm Diameter**

Available in 50mm length increments from 50mm to 350mm. Tremendous rod strength compared to traditional KE type rods. Carbon fiber rods offer near radiolucency to simplify radiographic imaging and are by far the most popular. The large 9.5mm carbon fiber SK™ rods are nearly three times stronger than large 5/16" KE aluminum rods and approximately 7 times stronger than medium KE stainless steel rods.



**LARGE SK™ CARBON CONNECTING RODS, 9.5MM DIAMETER**

<b>PART NO.</b>	<b>LENGTH</b>
506.050	50mm (Approximately 2 inches)
506.100	100mm (Approximately 4 inches)
506.150	150mm (Approximately 6 inches)
506.200	200mm (Approximately 8 inches)
506.250	250mm (Approximately 10 inches)
506.300	300mm (Approximately 12 inches)



**LARGE SK™ 10MM COMBINATION WRENCH  
PART # 2.50003**

A second wrench is necessary when utilizing double clamps. This wrench can also be applied to the flat surfaces of the primary pin-gripping bolt to counter torque forces as the large SK™ single clamp is tightened

## Large SK™ ESF Components



**10MM ANGLED SOCKET WRENCH  
PART NO. 508.102**

This quick- and easy-to-use wrench has proven very popular and durable. Also compatible with the IMEX™ Circular ESF System.



**ESF (EXTERNAL SKELETAL FIXATION) DRILL BITS**

### **ESF (External Skeletal Fixation) Drill Bits**

ESF drill bits are made of hardened stainless steel in diameters appropriate for pre-drilling of standard KE size INTERFACE™ and CENTERFACE™ ESF pins, large cancellous pins, and IMEX™ 6.3mm shank large animal transfixation pins.

<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>RECOMMENDED ESF PINS</b>
33031	3.1mm X 6"	Medium 1/8" pin shanks
33039	3.9mm X 6.25"	Large 5/32" pin shanks



**DRILL SLEEVES**

### Drill Sleeves

Designed for through-the-clamp pre-drilling with SK™ single clamps, but can be an effective drill sleeve for a variety of applications.

PART NO.	CORRESPONDING DRILL BIT	ALTERNATIVE DRILL BIT	SK™ CLAMP
34031	3.1mm	2.7mm	Small or Large
34039	3.9mm	3.5mm	Large

### External Skeletal Fixation Pins



**INTERFACE™ FIXATION HALF-PINS**

#### INTERFACE™ Fixation Half-pins, Standard (cortical) Thread Profile

INTERFACE™ fixation half-pins are end-threaded pins with positive thread profiles. The threaded end has a trocar point. Pre-drilling is recommended for optimum placement. Small, medium, and large are based on the KE standard of 3/32", 1/8", and 5/32" shanks respectively. Standard thread profile pins can be utilized at all locations and is the most popular and versatile version. Standard length versions are most popular, but extended length versions are useful when additional thread length is needed to span areas of larger bone diameter. IMEX™ INTERFACE™ fixation pins do not feature the thread profile of a bone screw, but are designed with the unique environmental and mechanical differences between a bone screw and ESF pin being taken into design consideration.

All INTERFACE™ fixation half-pins are produced from the highest quality, implant grade 316LVM stainless steel.

All can be utilized with acrylic or epoxy frames.

All sizes can be accommodated with the SK™ ESF System.

15020 (2.0mm shank) is the largest pin recommended for the MINI SK™ ESF Clamp.

15020 (2.0mm shank) and 15030 (3.0mm shank) are particularly advantageous with European fixator systems that utilize 2.0mm and 3.0mm fixation pins.

## External Skeletal Fixation Pins

PART NO.	SHANK DIAMETER	RECOMMENDED DRILL BIT SIZE	THREAD DIAMETER	THREAD LENGTH	OVERALL LENGTH
<b>MEDIUM</b>					
15180	1/8" (3.2mm)	3.1mm	5/32" (4.0mm)	1-1/4" (31mm)	4-1/2" (115mm)
<b>LARGE</b>					
15532	5/32" (4.0mm)	3.9mm	3/16" (4.8mm)	1-1/2" (38mm)	6" (150mm)



**CENTERFACE™ FIXATION FULL-PINS,  
STANDARD (CORTICAL) THREAD PROFILE**

### **CENTERFACE™ Fixation Full-pins, Standard (cortical) Thread Profile**

IMEX™ CENTERFACE™ fixation full-pins are centrally-threaded pins with a positive thread profile. One end is trocar-pointed. The small, medium, and large sizes were developed to be compatible with the KE clamp and to maximize the shank diameter of threaded pins utilized with the KE clamp. The standard thread profile can be used at all locations and is the most popular and versatile thread version. Standard length versions are the most popular, but limited numbers of extended length versions should be available for special circumstances. IMEX™ CENTERFACE™ fixation pins do not feature the thread profile of a bone screw, but are designed with the unique environmental and mechanical differences between a bone screw and ESF pin being taken into design consideration.

All CENTERFACE™ fixation full-pins are produced from the highest quality, implant grade 316LVM stainless steel.

All can be utilized with acrylic or epoxy frames.

All sizes can be accommodated with the SK™ ESF System.

20020 (2.0mm shank) is the largest pin recommended for the Mini SK™ ESF clamp.

20020 (2.0mm shank) and 20030 (3.0mm shank) are particularly advantageous with European fixator systems that utilize 2.0mm and 3.0mm fixation pins.

PART NO.	SHANK DIAMETER	RECOMMENDED DRILL BIT SIZE	THREAD DIAMETER	THREAD LENGTH	OVERALL LENGTH
<b>MEDIUM</b>					
20180	1/8" (3.2mm)	3.1mm	5/32" (4.0mm)	1-1/4" (30mm)	5" (125mm)
<b>LARGE</b>					
20532	5/32" (4.0mm)	3.9mm	3/16" (4.8mm)	1-1/2" (38mm)	6" (150mm)

**FIXATION KIT EXTERNAL VETERINARY  
(START-UP)**

NSN	NOTES	Nomenclature	PN	QTY	UI	Unit Price	Total Price	DIST/MFG	Shelf Life, months	Refrig Y/N
6515015400369		Fixation Kit External Veterinary	500-SKT	1	EA	\$908.72	\$908.72	Imex Veterinary Inc	Indef.	N