

English

Site Development System IFU



manufactured by:  
BioHorizons

2300 Riverchase Center  
Birmingham AL, 35244 USA  
TOLL FREE 888.246.8338  
TEL 205.967.7880 FAX 205.870.0304  
www.biohorizons.com



EU Authorised Representative:  
QUALITY FIRST INTERNATIONAL  
Suites 317/318 Burford Business Centre  
11 Burford Road, Stratford  
London E15 2ST United Kingdom  
Telephone +44-208-221-2361  
Telefax +44-208-221-1912

The symbol table below is for reference only. Refer to product packaging label for applicable symbols.

Symbol	Symbol Description
	Caution
	Electronic instructions for use
	Manufacturer
	BioHorizons products carry the CE mark and fulfill the requirements of the Medical Devices Directive 93/42/EEC
	Reference/ article number
	Lot/ batch number
	Do not re-use
	Use-by-date
	Sterile by gamma irradiation
	Date of manufacture
<b>Rx Only</b>	Caution: U.S. Federal law restricts these devices for sale, distribution and use by, or on the order of, a dentist or physician

## ENGLISH

This document supersedes all prior revisions. Original language is English.

This document applies to BioHorizons Site Development System.

### **DESCRIPTION**

The Site Development System includes bone screws, tenting screws, and contourable titanium mesh.

### **INDICATIONS FOR USE**

The Site Development System is indicated for use in oral maxillofacial surgical reconstruction and dental regeneration procedures as temporary implants to stabilize and support autograft, allograft, and bone void fillers and/or fractured bone segments with or without titanium mesh in bony defects of oral maxillofacial anatomy for maintaining space during bone grafting procedures and to support soft tissue until bone formation.

### **CONTRAINDICATIONS**

The Site Development System should not be used in patients who have contraindicating systemic or uncontrolled local diseases such as blood dyscrasias, diabetes, hyperthyroidism, oral infections or malignancies, renal disease, uncontrolled hypertension, liver problems, leukemia, severe vascular heart disease, hepatitis, immunosuppressive disorder, pregnancy, collagen and bone diseases. Relative contraindications may include habits such as tobacco use, alcohol consumption, poor oral hygiene, bruxism, nail biting, pencil biting and improper tongue habits depending on severity.

### **DIRECTIONS FOR USE**

Proper surgical procedures are the responsibility of the medical professional. Each clinician must evaluate the appropriateness of the procedure used based on personal medical training and experience as applied to the patient case at hand. BioHorizons strongly recommends completion of postgraduate dental implant education and strict adherence to the instructions and procedures for use that accompany BioHorizons products. NOTE: A pre-operative 30-second rinse with a 0.12% Chlorhexidine Digluconate solution is recommended. (The influence of 0.12% Chlorhexidine Digluconate Rinses on the Incidence of Infectious Complications and Implant Success. Lambert, Paul M., et al, J Oral Maxillofacial Surgery 55:25-30, 1997, Suppl5).

The Bone Screws and Tenting Screws are intended to be placed using Jeil bone screw instrumentation. See table below for compatible Jeil instrumentation associated with each BioHorizons screw:

BioHorizons Part Description	Jeil Part Number	Jeil Part Description
1.4mm Bone Screws	BS-MCSSFT-HND	Micro Screwdriver Shaft for Screwdriver Body
	BS-MCSSFT-ANG	Micro Screwdriver Shaft for latch-type handpieces
	BS-1MCDB-ANG	1.0mm Micro Drill Bit for latch-type handpieces
2.0mm Bone Screws	BS-MNSSFT-HND	Mini Screwdriver Shaft for Screwdriver Body
	BS-MNSSFT-ANG	Mini Screwdriver Shaft for latch-type handpieces
	BS-16MMDB-ANG	1.6mm Mini Drill Bit for latch-type handpieces
	BS-16X54.8MDB-STR	1.6 x 54.8mm Mini Drill Bit for friction-grip handpieces (Ø2.35mm)
	BS-16X67MDB-STR	1.6 x 67.0mm Mini Drill Bit for friction-grip handpieces (Ø2.35mm)
1.4mm Tenting Screws	BS-MNSSFT-HND	Mini Screwdriver Shaft for Screwdriver Body
	BS-MNSSFT-ANG	Mini Screwdriver Shaft for latch-type handpieces
	BS-1MCDB-ANG	1.0mm Micro Drill Bit for latch-type handpieces

Mesh – Drill through the mesh holes, prior to inserting the 2.0mm Bone Screws.

#### **WARNINGS AND PRECAUTIONS**

The Site Development System has not been evaluated for safety and compatibility in the MR environment. Screws, and Mesh have not been tested for heating, migration or image artifact in the MR environment. The safety of BioHorizons Site Development System in the MR environment is unknown. Scanning a patient who has these devices may result in patient injury.

#### **COMPLICATIONS AND ADVERSE EFFECTS**

The risks and complications with the Site Development System include, but are not limited to: (1) allergic reaction(s) to screw, and mesh material; (2) screw and/or mesh breakage; (3) screw and/ or mesh loosening; (4) infection requiring revision of the dental implant; (5) nerve damage that could cause permanent weakness, numbness, or pain; (6) histologic responses possibly involving macrophages and/ or fibroblasts; (7) formation of fat emboli; (8) maxillary sinus perforation; (9) labial or lingual plate perforation; and (10) bone loss possibly resulting in revision or removal.

#### **HANDLING AND STERILIZATION**

Site Development System components are NOT supplied sterile. Remove and discard any shipping material before initial sterilization. The components must be disassembled where applicable, thoroughly cleaned, reassembled and sterilized before initial use and each subsequent re-use. Remove any visible debris from the components using a soft bristle brush and a broad-spectrum cleaning or disinfecting agent such as Hu-Friedy's Enzymax® or equivalent. Rinse thoroughly. Place the components in a beaker of the same solution and sonicate for 10 minutes. Rinse thoroughly. Rinse components with isopropyl alcohol to remove any soap residue and minerals. Blot components with a lint free towel and air dry completely. Place product in a FDA cleared sterilization bag or wrap and run through one of the following qualified sterilization cycles: 1. Prevacuum Steam: 132°C (270°F) for five (5) minutes minimum. 2. Gravity Steam: 121°C (250°F) for twenty (20) minutes minimum.

Attention! Improper cleaning may lead to inadequate sterilization. Failure to completely dry instruments during autoclaving may leave moisture and cause discoloration and oxidation. The use of hydrogen peroxide or other oxidizing agents will damage the surface of the instruments. Periodic testing, cleaning, and calibration of the autoclave equipment is recommended to ensure the unit remains in proper working order.