VSP®
Virtual Surgical Planning

Plan with confidence.
Medical imaging data is prepared for the webmeeting.

Surgical planning webmeeting takes place between the surgeon and 3D Systems engineers.

Patient-specific disposable instruments (splints, guides) are designed.

Instrument design is reviewed on a detailed case report and approved by surgeon.

3D printed models, guides and templates are manufactured and shipped.

Models, guides and templates are used in surgery.
VSP Reconstruction

Solutions for mandibular or maxillary reconstruction with free flaps and full jaw reconstruction.

Features

- Reconstructed model of the anatomy showing the proposed post-operative outcome
- Patient specific resection guide(s) for the maxilla and/or mandible, to help allow accurate transfer of the digital plan
- Graft osteotomy guide for the donor site that contains precise osteotomies to create closing wedges, if needed

Jaw in a Day®

The Jaw in a Day product line allows for immediate placement of a provisional dental prosthesis during a single-stage free tissue transfer jaw reconstruction surgery. The surgical planning along with guide and prosthesis designs are completed using state-of-the-art CAD/CAM technology, allowing the patient to emerge after a single surgery with a full jaw reconstruction, including dental rehabilitation.

This process shortens procedure time, streamlines treatment, reduces operating costs and allows patients the convenience of a single surgery.3,4,5
**VSP Orthognathics**

Orthognathic virtual surgical planning, 3D printed intermediate and final splints, and patient-specific guides.

**Features**

- Accurate osteotomy simulation tailored to clinical requirements
- Real time 3D bony movement and cephalometric analysis
- A range of splints and guides are available to assist in accurately cutting and positioning anatomy
- Empowers Facial iD 3D printed plates for a patient-specific approach to fixation

**VSP Trauma**

Facilitating trauma reduction surgery with repositioning guides and/or augmented DICOM data for navigation assistance.

**Features**

- Solutions can be scaled for these time sensitive cases
- Digitally reduced, perfected or mirrored anatomical models for a more simplified approach to reduction
- Patient specific osteotomy and positioning guides
- Occlusal-based positioning splints
**VSP Cranial**

Cranial reconstruction solutions with marking and positioning guides.

**Features**
- Accurate pre-surgical visualization of cuts and movements
- Real-time comparison to a selection of age-matched normative anatomical contours
- Personalized marking and positioning guides for realization of digital plan

**VSP Distraction**

Distraction osteogenesis planning reveals underlying tooth roots and nerves to optimize device position.

**Features**
- Osteotomy planning
- Identifies a distraction vector plan
- Templates to guide intra-operative device placement
- Models facilitate pre-operative hardware setup

**VSP Microtia**

Surgical guides and templates for autogenous ear reconstruction cases.

**Features**
- Optimal graft site determined during VSP session
- Use templates to accurately harvest bone
- Helps facilitate reconstruction, using suture and shaping guides
A surgeon must always rely on his or her own professional clinical judgment when deciding whether to use a particular product when treating a particular patient. Stryker does not dispense medical advice and recommends that surgeons be trained in the use of any particular product before using it in surgery.

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Please visit www.3dsystems.com/medicaldata for digital transfer of DICOM images.

References:

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