The ITI Dental Implant System was developed in Switzerland by the Institute Straumann and Dr. Andre Schroeder, President of the University Bern. ITI implants are endosseous one-stage and were originally designed for overdentures using the Dolder Bar system. ITI is now utilized for all restorative options. The one-stage (non-submerged) approach simplifies the procedures and helps minimize trauma to the patient and reduces chair time as only one surgical procedure is required.

The ITI implant system currently encompasses three different types of implants:

- ITI Small Diameter (SD) external hex
- ITI Standard 4.8 internal mortice taper
- ITI Syn-Octa 4.8 internal octagon mortice taper

Components from Renew Biocare are available for the ITI Standard 4.8 non-hex and the ITI Syn-Octa. Components are not listed for the ITI SD.

**Note:** The ITI Standard components will mate with the ITI Syn-Octa implant without engaging the octagon.

**Indications and Quantities of Implants recommended:**

- **Single Tooth Replacement**
  1 implant is required

- **Bridge Reconstructions**
  Recommended for 1 implant with a tissue extension attached to an abutment, or for 2 or more free standing implants.

- **Fixed / Detachable Reconstructions**
  Recommended for 5 or more implants on a fully edentulous arch.

- **Bar Type Overdentures**
  Recommended for 2 or more implants or far an implant attached to a natural abutment.

- **Stud Type Overdentures**
  Requires at least 1 implant. Whenever possible more implants should be used.
**Terminology of Components**

**Restorative Components:**
The restorative components are the elements used to fabricate a restoration that will be connected to the implant(s). The restoration may also be attached to an intermediate component called a tissue extension or abutment which in turn is connected to the implant(s).

**Implant Body:**
The implant body is placed into the bone for approximately 4-6 months to allow for osseointegration. The implants should not be loaded prior to osseointegration.

**Octabutment:**
The Octabutment was designed for screw retained restorations and is compatible with the original Octabutment from Straumann. The shoulder of the Octabutment becomes flush with the top of the implant.

For ITI Small Diameter, ITI ST Standard, and ITI Syn-Octa 4.8 restorative components refer to the Renew RE-Fit sections of the Renew Biocare main catalog.