

# Implant In Orthopedics

## Plating

### Plate Types

#### 1. Compression

Function: to compress 2 bone fragment

Type:

- Dynamic Compression Plate (DCP),
- Limited Contact - Dynamic compression Plate (LC-DCP),
- Locking Compression Plate (LCP),
- Variable Angle - Locking Compression Plate (VA-LCP)



DCP



LC-DCP



VA-LCP



LCP

2. Protection

Function: to protect lag screw

3. Bridging

Function: for comminuted fracture

4. Buttress

Function: for intra-articular fracture

## Screw

### Screw Types

1. Conventional screw

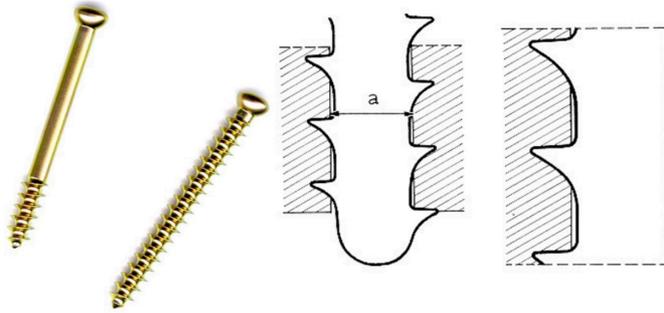
Types:

- Cortex screw
- Cancellous screw

2. Locking head screw



## Cancellous Bone Screws



Cancellous screws are used to repair fractures in the cancellous bones found in the neck portion of a long bone. These screws are characterized by deep cuts and widely spaced threads. Due to the thin structure of the cancellous bone, the threads of these self-tapping screws usually cut through their path when being inserted.

## Cortex Screws

Cortex screws are used to fix injured cortical bones, which are the thick outer surfaces of long bones enclosing the bone cavity. The orthopedic screws have shallow and closely-placed threads with a typically blunt end. Compared to cancellous screws, cortex screws have large core-to-outer diameter ratios.

