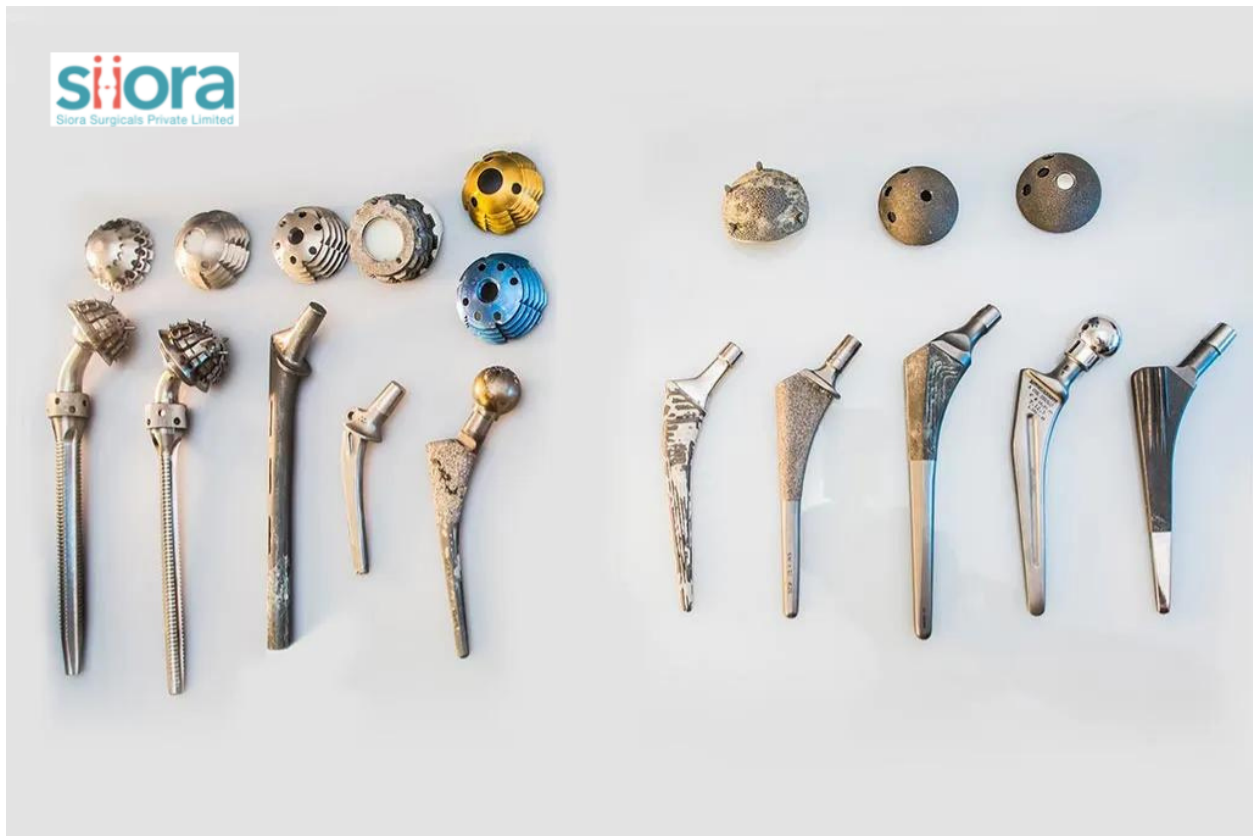


# A Quick Guide on Orthopedic Implants



Orthopedic implants are medical devices that are used for the management and treatment of various orthopedic conditions like fractures, malunions, non-unions, and soft tissue injuries. Sometimes, they are also employed for corrective surgeries that are often performed on the elderly. As we age, our bones and joints become weak. With time, movements become painful, and hence, orthopedic surgeons recommend corrective or joint replacement surgery. Such surgeries are also recommended for treatment after traumatic injuries. In both cases, different orthopedic implants & instruments.

For a CE-certified range of orthopedic devices, find experienced [orthopedic equipment manufacturers](#).

## **What Are Orthopedic Implants and How Do They Work?**

Orthopedic implants are devices that are used by orthopedic surgeons to treat fractures. These implants serve as supportive structures for the broken bone fragments and hold them in a true anatomical position until they heal.

Orthopedic devices work by supporting fractured bones and keeping them in the right place while they heal. Different types of trauma implants are there and they all have different functions. Besides keeping broken bone fragments in true anatomy, implants also provide the much-needed compression for the proper healing of the injured bone.

## **Why Are Orthopedic Implants Used?**

Orthopedic devices are used to correct fractures and bone deformities that occur because of trauma and aging. Besides this, implants are also used for corrective surgeries that are often performed on the elderly to improve their quality of life. Joint surgeries are more common in the elderly as aging makes joints weak.

Orthopedic implants also find application for joint replacements when the joint is damaged badly because of severe trauma. Above all, implants are also required for correcting limb length deformities, malunions, and non-unions.

## **What Are the Different Types of Orthopedic Implants?**

Hundreds of different types of orthopedic devices are there in the market and orthopedic surgeons chose them depending on the type and severity of the fracture. Some of the commonly used orthopedic implants include:

### **Screws**

Orthopedic screws provide compression and help in the correct healing of the fracture. They are similar to other screws and are available in different dimensional and structural configurations.

## **Plates**

Orthopedic plates are among the oldest orthopedic devices and are being used since 1886. They provide support to the fractured bone and keep them in its correct anatomy. Orthopedic plates are often used with screws. The size and shape of plates depend on the type and severity of the fracture.

## **Pins & Wires**

Orthopedic pins are commonly used to fix damaged soft tissues. Wires are also required for the internal fixation of small bones like phalanges, metacarpals, and metatarsals.

## **Staples**

Staples are applied to treat multi-fragmented fractures and serve as internal fixators between the fragments while allowing for bone reconstruction.

## **Intramedullary Nails**

Long bone fractures often require intramedullary nails. They are applied into the intramedullary cavity of long bones while allowing the fracture to heal. They keep fractured bone fragments in the correct alignment while preventing their overlapping.

These orthopedic implants are made using medical-grade metals and non-metals and can be availed in different sizes and structural configurations. Siora Surgicals Pvt. Ltd. is a renowned orthopedic device manufacturer in India that produces a huge range of CE-certified trauma

implants and instruments. The company is also a regular visitor at various orthopedic conferences. In January 2023, it will be visiting [Arab Health 2023](#).

### **Contact Information**

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