

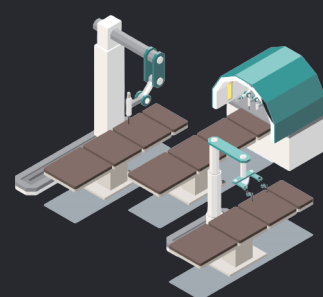
# HOW ROBOTICS HAS TRANSFORMED THE HEALTHCARE INDUSTRY?

## TYPES OF ROBOTS IN HEALTHCARE INDUSTRY



### SURGICAL ROBOTS

Many healthcare machine manufacturers are focused in developing robots which can perform surgery with the precision of human doctor. These manufacturers are developing robots that can perform minimally invasive robotic surgery.

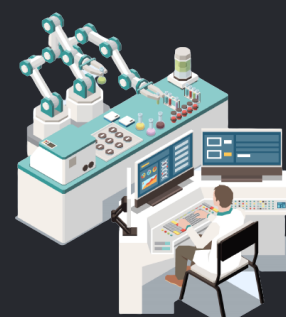


### EXOSKELETONS

These are the kind of robots that are developed to assist in surgery and aid recovery of patients. Hybrid Assistive Limb (HAL) is one such example of an exoskeleton developed by Cyberdyne.

### CARE ROBOTS

These robots are significantly rising in healthcare sectors to look after elderly patients. Specifically Japan is looking to increase the number of these robots as Japan is facing a significant loss of care-staffs in its hospitals.

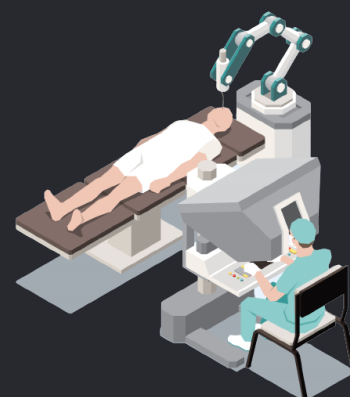


### HOSPITAL ROBOTS

Hospital robots are complex machinery developed to perform tasks like delivering medications, taking laboratory specimens, and managing patient's appointment. TUG autonomous mobile robot is one such example of hospital robots developed by Aethon.

### MEDICAL DEVICE PACKAGING

Sterilization and minimal human contact are important in packaging of medical devices, surgical instruments, and medicines.

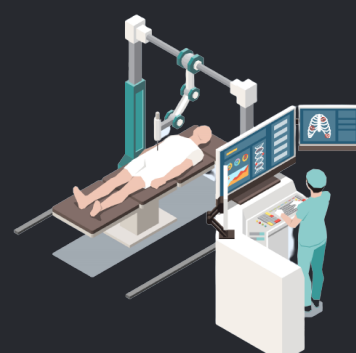


### LAB AUTOMATION

Robotics is a great help in automating medical labs. Laboratory robotics is the way of using robotics in bio-labs. As these laboratory composes of repetitive movements so the robotic automation is best suited for these processes.

### CUTTING BONE

Cutting bone referred to as bone ablation which means using heat to treat a benign bone growth called an Osteoid Osteoma. The abnormal area is very painful so robots are used to cut the benign bone growth to relief the pain called Laser Bone Ablation.



### PHYSIOTHERAPY

Robots referred to as Cobots are used by physiotherapists to give therapeutic massages to patients and relieving the burdened clinics from their workloads.