

# World's most complete bionic man

Rex – a million-dollar bionic man built using artificial limbs and organs borrowed from laboratories around the world – shows how technology is being used to replace missing or damaged parts of the human body

**Eye:** Microchip in retina receives images from camera in glasses and sends electrical pulses to brain

**Rex – Robotic Exoskeleton**

**Ear:** Implant stimulates nerve fibres in inner ear

**Heart:** Battery-powered, pumps synthetic blood. Replaces diseased heart until donor found

**Pancreas:** Responds to body's glucose levels to release insulin

**Kidney:** Fridge-sized dialysis machine in unit no bigger than coffee cup

**Hand and arm:**

Respond to impulses generated by muscles in residual limb. Arm has almost same degree of movement as human arm

**Foot and ankle:**

Mimic actions of calf muscle and Achilles tendon

60-70%  
of human  
rebuilt

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