

PROSTHETICS

PAST, PRESENT AND FUTURE OF PROSTHESES



«EVERY LOSS IS A PERFECT OPPORTUNITY.»

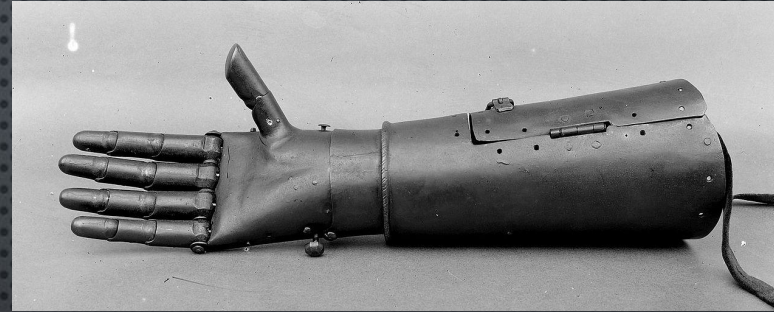


Brought to you by: Eugene F.

BASICS



PROSTHESIS - IS AN ARTIFICIAL DEVICE THAT REPLACES A MISSING BODY PART, OR A PART OF BODY THAT BECAME DYSFUNCTIONAL.



Iron prosthetic hand believed to have been owned by Götz von Berlichingen (1480–1562)

USUALLY TWO BASIC KINDS OF PROSTHESES ARE SPECIFIED:

- UPPER-EXTREMITY PROSTHESES
- LOWER-EXTREMITY PROSTHESES

MOST COMMON MATERIALS TO BE USED FOR MAKING PROSTHESES:

- PLASTICS (POLY-ETHYLENE, -PROPYLENE AND ETC.)
- LIGHTWEIGHT METALS (AL AND TI)
- COMPOSITES (CARBON FIBER)

EARLY HISTORY

PIONEERS OF PROSTHETICS



FIRST EVER PROSTHESIS TO BE FOUND —
3000-2800 BC, AN EYE PROSTHESIS ON
THE TERRITORY OF ANCIENT IRAN

SECOND ARE EGYPTIANS — A WOODEN TOE
FOUND ON A BODY FROM THE NEW
KINGDOM CIRCA 1000 BC



Early prosthetics – rather primitive inventions to restore minimal functionality to a missing body part.



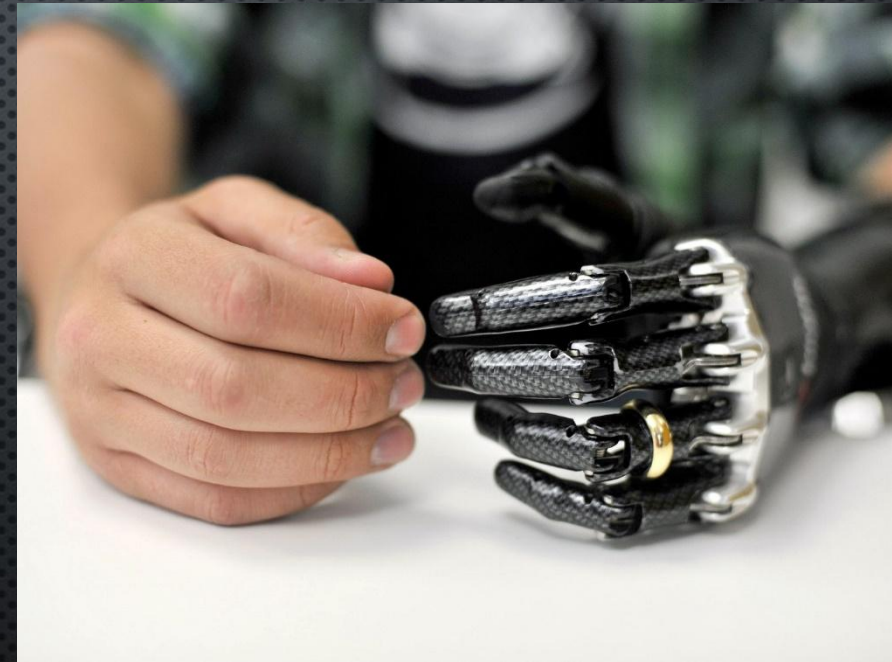
PRESENT TIME

CURRENT STATE OF THINGS

THE CURRENT LEVEL OF WORLD SCIENCE
ALLOWS YOU TO CREATE NEURAL AND BIONIC
PROSTHESES.

NEURAL PROSTHESES ALLOW PEOPLE TO MANIPULATE IT,
RESTORING BASIC FUNCTIONS.

BIONIC PROSTHESES ALLOW PEOPLE TO NOT JUST USE IT, BUT
ALSO PROVIDES ITS OWNER WITH TACTILE SENSATIONS.



Current level of prosthetics development is just a starting point. But the achievements are already impressive.



THE FUTURE

MAKING PREDICTIONS

AS WE ALL KNOW, SCIENCE IS NOT STAYING STILL. ENGINEERS FROM ALL AROUND THE WORLD ARE CONSTANTLY WORKING ON MAKING PROSTHESES OF HIGHEST QUALITY.

THEREFORE, I FIRMLY BELIEVE THAT WE CAN DEVELOP PROSTHESES THAT CAN FULLY RESTORE THE FUNCTIONS OF PARTS OF THE BODY OR EVEN ENHANCE THEM.

THANK YOU FOR YOUR ATTENTION

