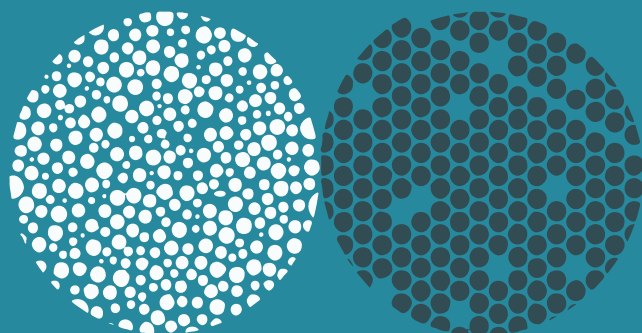




«In the same way that the inventions of steel in the 1800s and plastic in the 1900s sparked revolutions for industry, a new class of amorphous alloys is poised to redefine materials science as we know it in the 21st century»
(NASA)

Amorphous metals are a new class of materials, unique by their characteristics that set them apart from other metals and alloys. Vulkam has specifically optimized its range of alloys to meet the requirements of targeted markets, including Watchmaking, Luxury, Implantology and medical instrumentation, Cryogenics, and Space. Choosing a Vulkalloy means opting for an optimized metal and an innovative one-step forming process, helping you to face new industrial challenges.

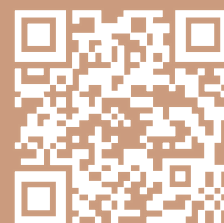
Atomic organization



Vulkalloy

Industrial
metal

Scan this
QR code



to access the
material
sheets of our alloys

Find your solution

Our Alloys

Strength, hardness, flexibility, lightness

Vulkalloy Ni

Extreme hardness and
flexibility

Vulkalloy Zr-Med

Biocompatible

Vulkalloy Precious

Attractive finish and
scratch-resistant

Vulkalloy Nb-Med

Extreme resistance

Vulkalloy Zr-Inox

Hard-wearing
and lighter

Our Processes

Characteristics

2D Parts

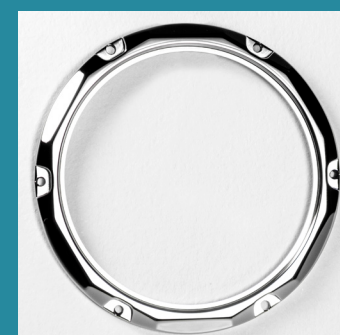
+/- 2µm
Millimetric parts



Example of a watch component
made using the 2D process

Near Net Shape

+/- 5µm
Volume <1200mm³



Example of a watchcase
made using Near Net Shape

Microthermo- molding

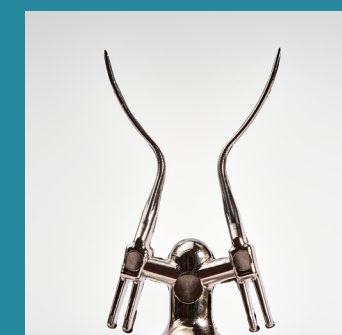
+/- 3µm
Millimetric parts



Example of a micromechanical
part made using
microthermomolding

Net Shape

+/- 5µm
Volume <700mm³



Example of a Net Shape
medical instrumentation part



Cutting-edge processes for a sustainable & cost-efficiency metallurgy