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TECHNOLOGIES



**Audio Technologies was founded by an otologist.**

**It is the meeting place between user and manufacturer.**



Prostheses for Otosurgery

Bandage for Rhinoplasty

Surgical Instruments

Reconstructive Biomaterials



Prostheses for Otosurgery

PVA anatomical swabs

Disposable suction tubes





# Prostheses for Stapes Surgery



Bandage for Rhinoplasty



PVA anatomical swabs



Surgical Instruments



Disposable suction tubes



Reconstructive Biomaterials





# Prostheses for Stapes Surgery





# Prostheses for Stapes Surgery

## Self Crimping NITINOL Piston





## What is NITINOL?

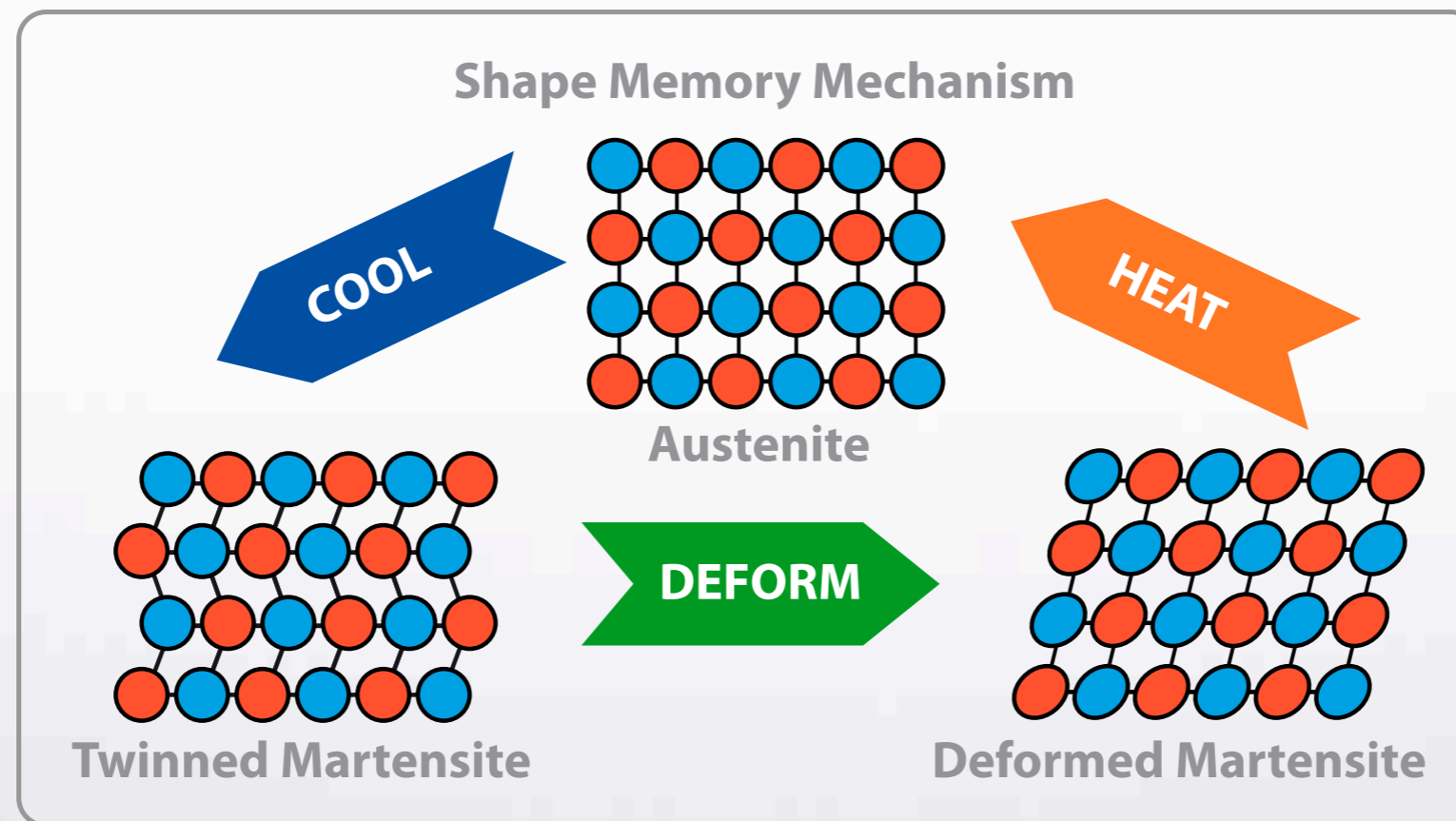
NITINOL is a Nickel (Ni) and Titanium (Ti) alloy accidentally discovered by two American researchers at the Naval Ordnance Laboratory (NOL) who called it NiTiNOL, which is the acronym of Nickel (Ni) Titanium (Ti) and the laboratory where it was discovered. The microscopic structure of this alloy presents a distinctive molecular reticule which can work in two ways:





The molecular reticule shapes in two different ways depending on the temperature

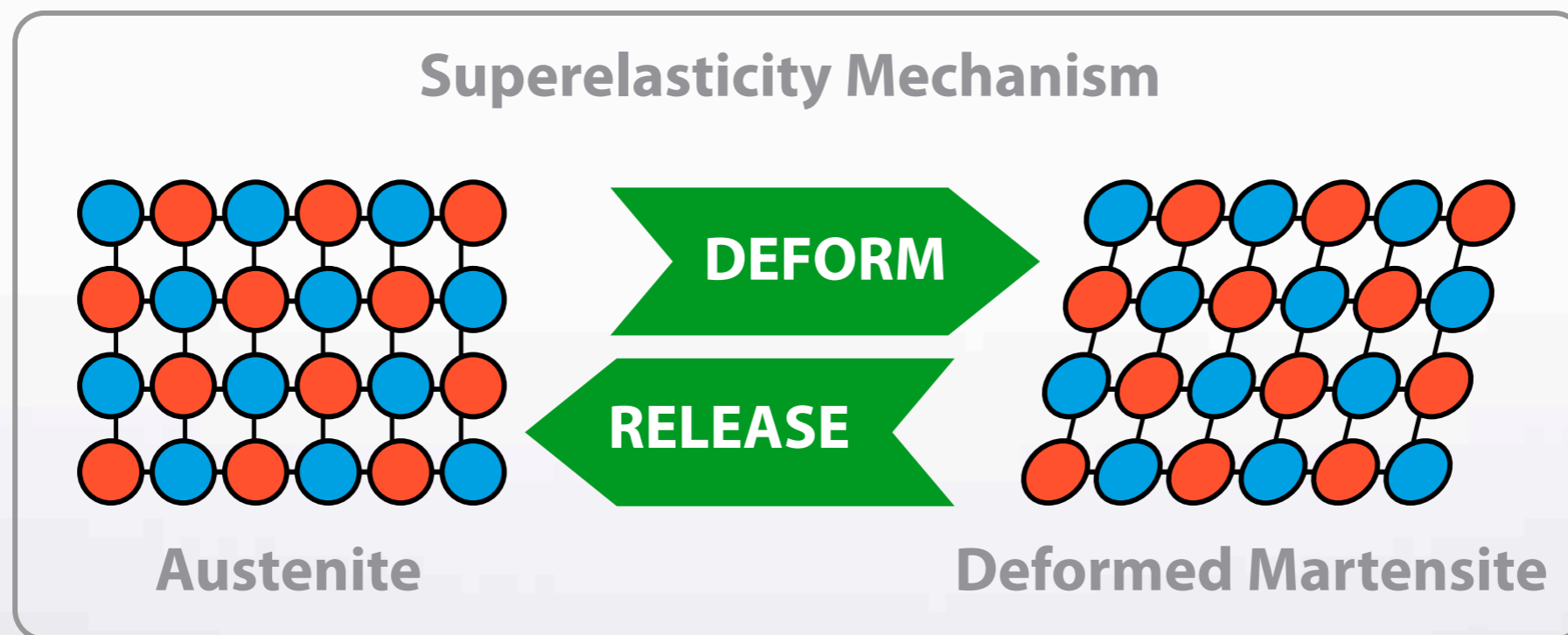
**THERMAL MEMORY NITINOL:** cold-worked Nitinol can be deformed but it returns to its original shape if is subjected to heat.





The molecular reticule always maintains the same shape and it never deforms.

**SUPERELASTIC NITINOL:** it can be bended and twisted but it always returns to its original shape.





## Fields of application

Both the thermal memory NITINOL and the superelastic NITINOL find application in a number of medical fields, mainly in cardiovascular surgery and in endoscopic surgery.

### NITINOL application in otology

Audio Technologies has developed an industrial process to create a prosthesis that is fitted to the long apophysis of the incus with a simple vertical movement requiring only 4 milligram load.





# Self Crimping Hook in Super Elastic NITINOL

## Nitinol Hook

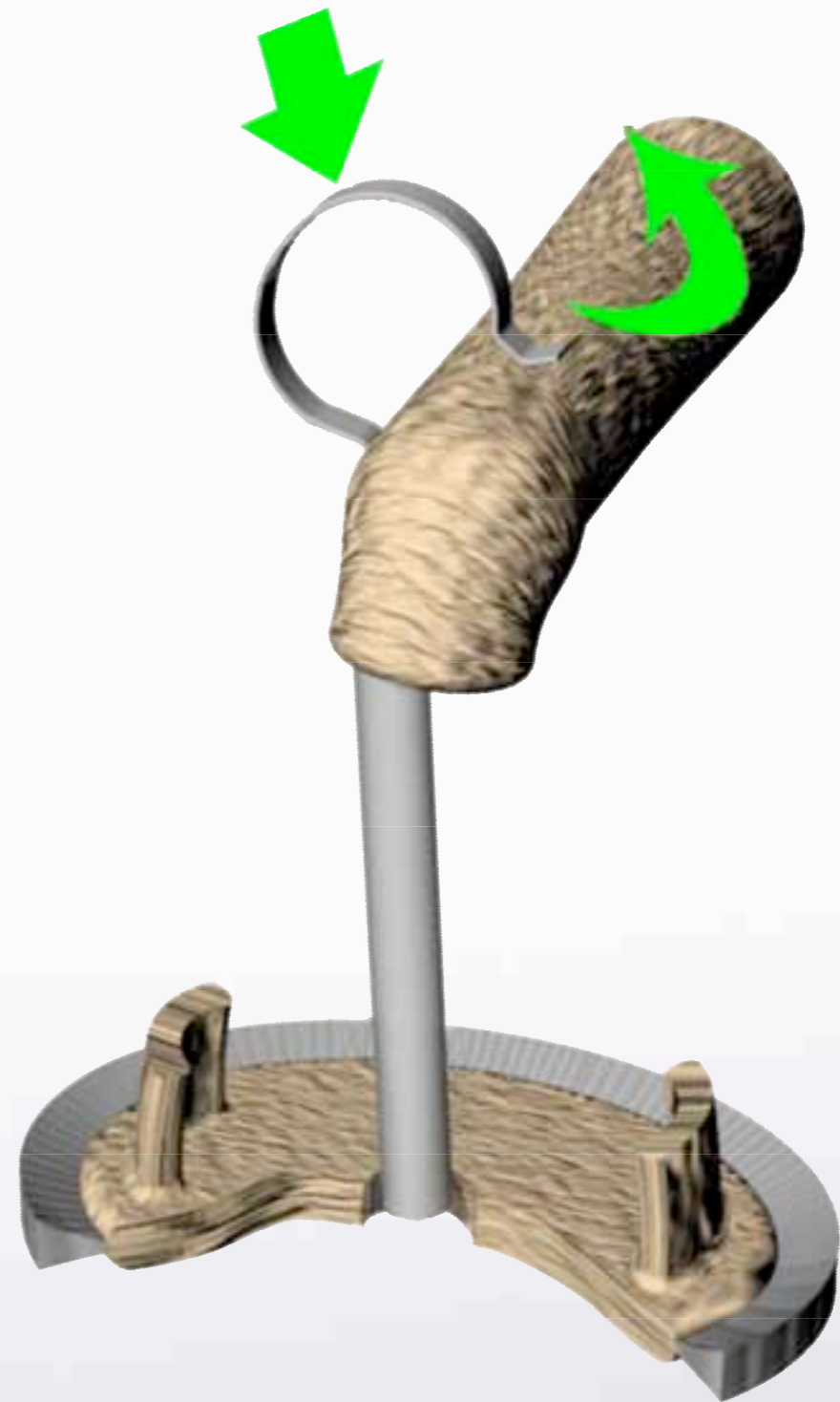
This is the result of a particular Audio Technologies manufacturing process. This characteristic combines with the other good qualities of the Nitinol: mechanical resistance, bioinertia and lightness.





## Simplification of the operation

Hook elasticity allows to eliminate the surgery step and the difficulty of the closing phase. The closing of the hook it's soft and regular and it avoids the risk of ischemia and incus necrosis.



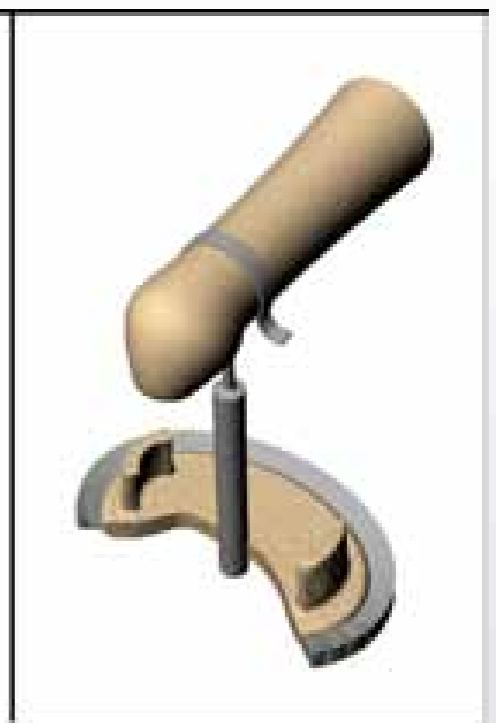
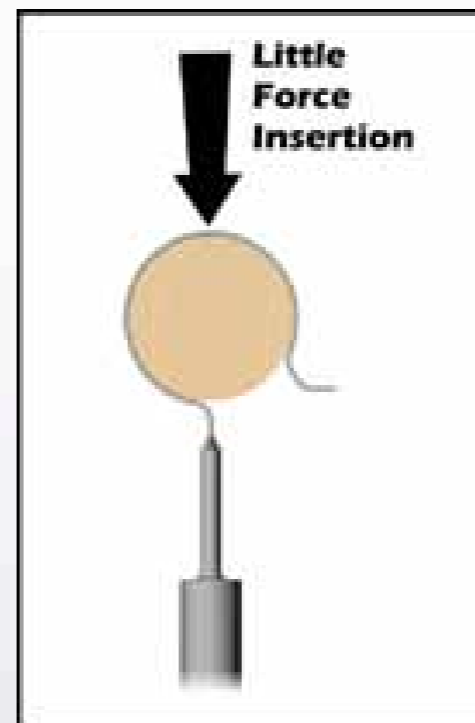
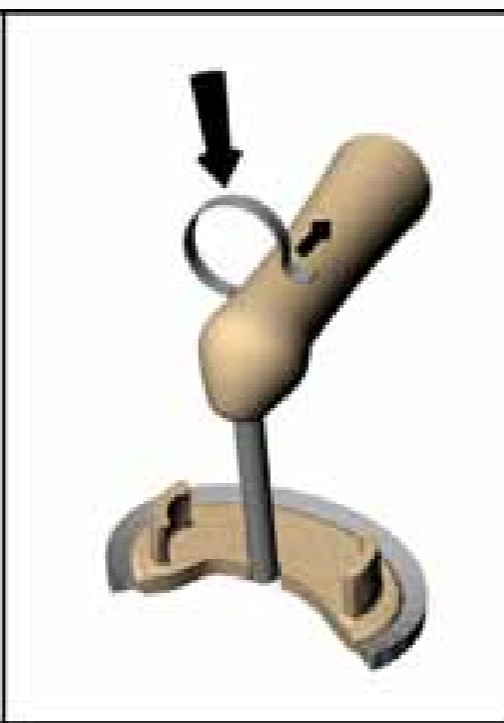
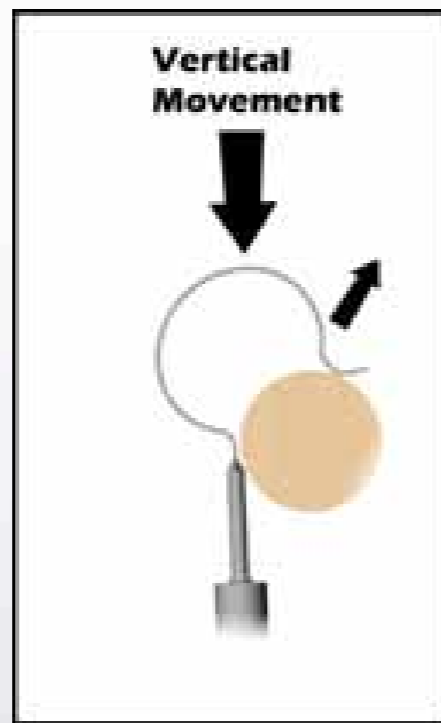
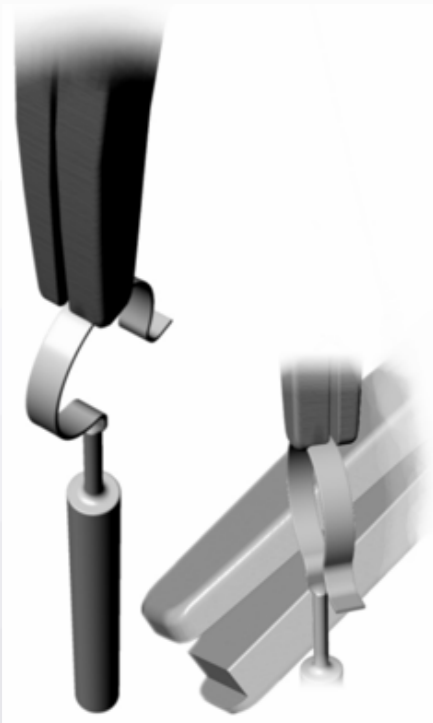


## Self Crimping Super Elastic NITINOL Piston,

available diameters 0.4-0.5-0.6-0.8 mm  
total length from 4.25 mm to 6.50 mm.



**Code SPL 03.39/40/41/42**



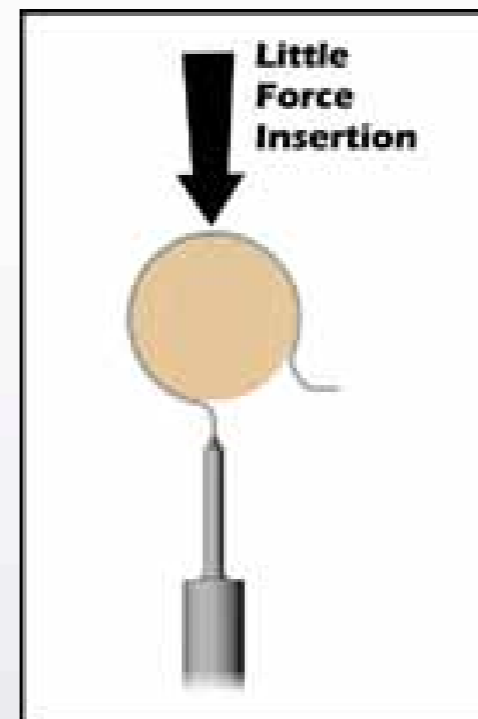
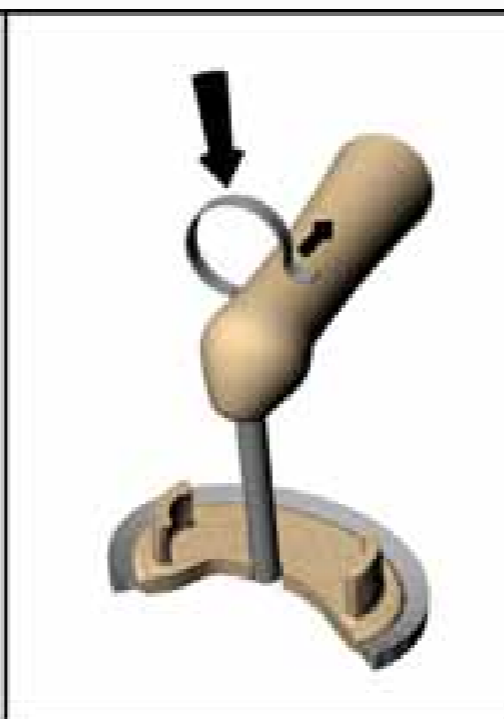
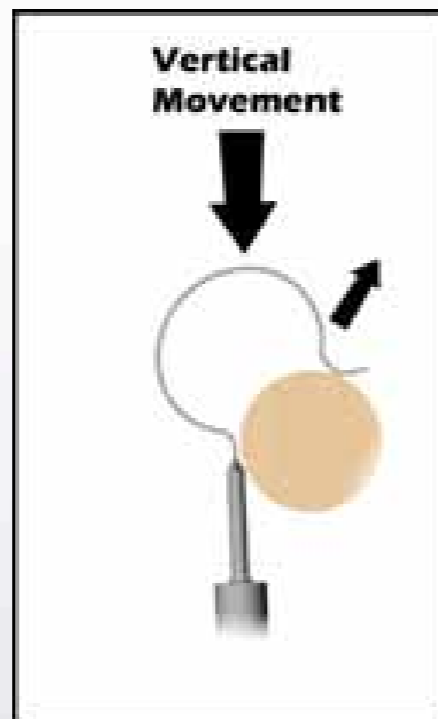
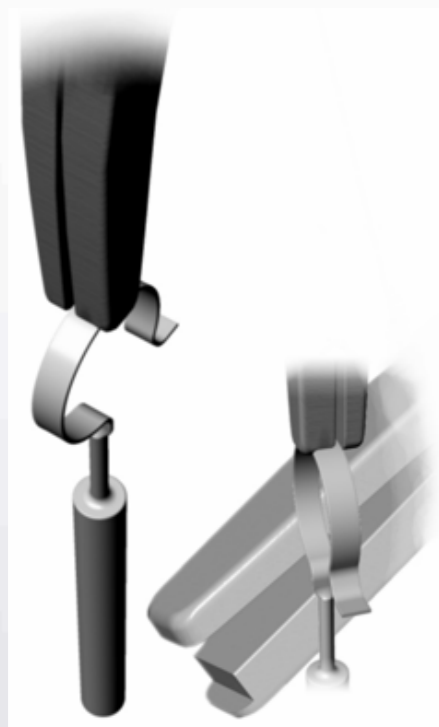


## Self Crimping Super Elastic NITINOL and PTFE Piston,

available diameters 0.4-0.5-0.6-0.8 mm

total length 7.0 mm trimmable to 4.25 mm.

Code SPL 03.43s/44s/45s/46s





## Forceps for Self Crimping Piston

Code SPL 03.01





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