

Cast Aluminum Chuck

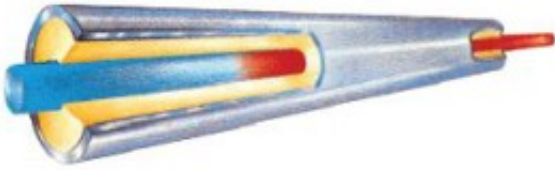
This **Cast Aluminum Chuck** is produced for [semiconductor](#) layer deposition in the CVD/PVD/ALD processes.

This design is a 100% customized solution allowing a large range of heating chucks from 100 mm to 450 mm in diameter. It may be equipped with RF [thermocouples](#) able to withstand high radio frequencies (example: 13.56 MHz) and avoid perturbative noise during temperature measurement.

Technical features :

Cast Aluminum Chuck design for optimal thermal uniformity and an improved inner thermal exchange compared to a machined version. Down to $\pm 0.5\%$ according to the temperature set point.

Based on the THERMOCOAX Mineral Insulated cable technology, the **Cast Aluminum Chuck** has a heating wire design using the hot/cold transition in the same diameter inserted inside the chuck.



Chuck

Heating element with Hot / cold junction

- Working temperature range : 50°C to 450°C
- Flatness : down to 0.01 mm
- Voltage : up to 240 Volts

The THERMOCOAX **Cast Aluminum Chuck** can be equipped with lift pin holes and have an integrated cooling tube for air or water circulation and can be heated according to 1 or 2 heating zones.

This customized solution provides strong flexibility in terms of diameter, thickness and power supply.

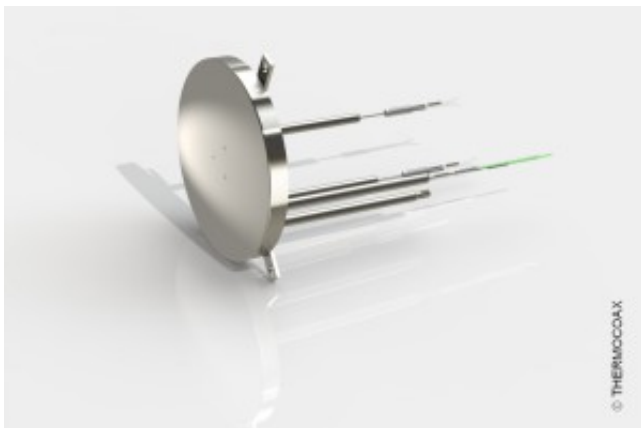
The **Cast Aluminum Chuck** is an extremely reliable design with a high cost efficiency.

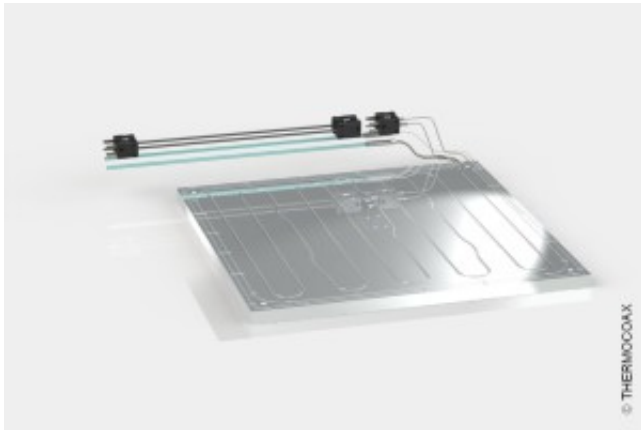
THERMOCOAX and heating solutions for Semiconductor industry :

- Machined Aluminum Chuck
- Stainless steel Chuck
- Nickel Chuck
- Various heating plates

Chuck

Semicon Heating plate





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