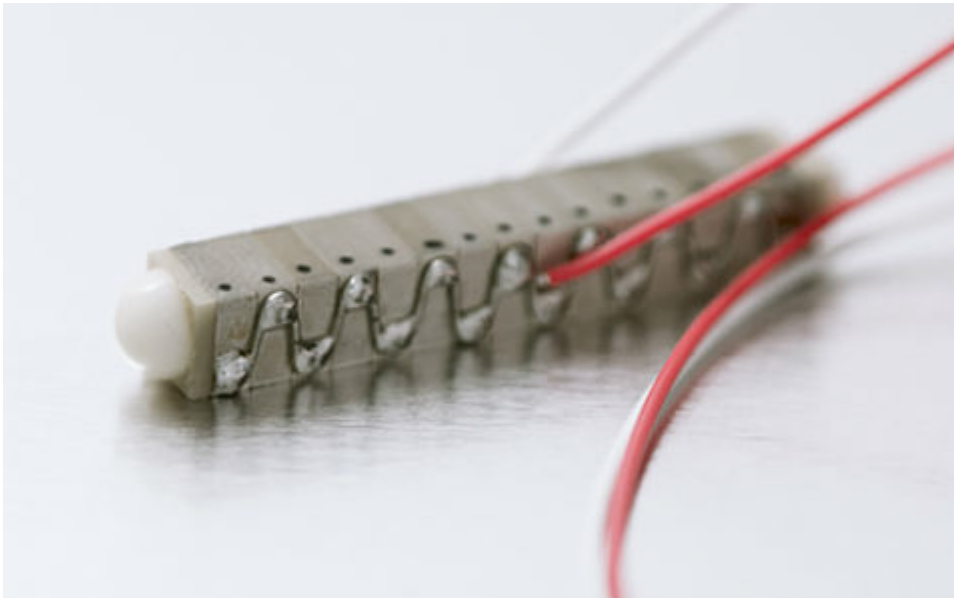


## Customized end pieces



End pieces provide additional functionality according to the design. The function could be mechanical de-coupling, localization/centering of the stack or adaptation to a specific interface such as a threaded piece in order to facilitate integration. We can custom design the end piece in terms of shape and material for your specific application.

### END PIECES



End pieces provide additional functionality according to the design. The function could be mechanical de-coupling, for example using hemispherical top pieces, localization/centering of the stack or adaptation to a specific interface such as a threaded piece in order to facilitate integration.

**Custom designed shape and material**

We can custom design the end piece in terms of shape and material for your specific application. Typical shapes are hemispheres or cones (concave or convex).

We collaborate with highly skilled machine shops to supply end pieces in different materials such as stainless steel, aluminium alloy, titanium alloy or ceramic. Parts can be produced according to your own drawings or we can stand for the definition of the part based on your top-level requirements and on your approval.

**Contact us for further information**

If you want to hear more about the possibilities of top pieces, please contact us using our Request for quote form or [contact sales](#).

## END PLATES

All our standard end plates and end rings are produced with our piezoceramic material NCE51. Ceramic provides ideal electrical insulation properties, as well as good mechanical properties to spread the load over the surface of the active piezoceramic. We recommend a thickness of 1 mm for a good spread of the load, although thinner or thicker end plates can be provided to match your requirements.

Besides our standard sizes with a thickness of 1 mm, we offer these sizes:

- For plate actuators: End plates ranging from 2x2 to 15x15 (length x width in mm): 0.5 mm height
- For ring actuators: End plates ranging from 6x2 to 20x12 (OD x ID in mm): 0.5 mm height

### **Different size or material?**

If you need your end plate or end ring in a different size or material, we can custom design it to match your application.

### **Contact us for further information**

If you want to hear more about the possibilities of end plates, please contact us using our Request for quote form or [contact sales](#).