

## SC200+ / SC400+ | E+ Container Type

### Container design

The SC200+ container and SC400+ container are unique high-stiffness prestressing tool systems where the winding core is made of tungsten carbide. The use of a carbide core as the inner ring of the stripwound container system ensures a tool stiffness of approx. 400 GPa. A normal compression ring has a Young's modulus of approx. 225 GPa.

In addition to the high-stiffness feature, the container itself can take a radial load that is up to twice the level of a normal compression ring. The prestressing container concept is also known as the STRECON E+ Container Type, which refers to the high level of Young's modulus.

The E+ containers have the following merits:

- 1) Higher service life of the forming die,
- 2) Reduced physical deformation of the forging die, and
- 3) A prestressing tool that can be reused numerous times at full capacity.

The SC200+ container is made with the Strip200 material, so that the container can take up to 200°C while remaining fully elastic. The temperature limit for the SC400+ container is 400°C.

The specific container design is adjusted to the specific purpose with respect to the production process, tool layout, product materials, hardness, taper angle, etc.

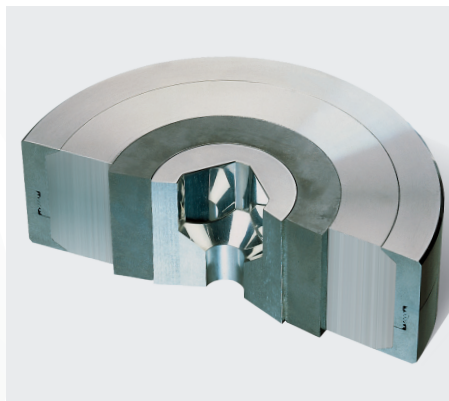
### Use in Industry

This high-stiffness container type is suitable for cold and warm precision forging and other precision metal forming applications, especially when using complex die cavities with sharp corners. The container system is designed to achieve an optimal balance between radial prestressing and reduced die deflection under process load. The high-stiffness feature can reduce the deflection of the production die by up to 30%.

The STRECON container system has proven to be very cost-effective in mass production and usually delivers a 25-30% reduction of the tool costs.



*The stripwinding process*



*Cut model of the STRECON E+ Container*



*Examples of parts suitable for the STRECON E+ system*