

SC200 / SC400 Containers

Container design

SC200 and SC400 are standard stripwound container concepts made by the stripwinding technique, which offers optimal radial prestressing to the production die. The inner core of the container is of hardened tool steel, and the steel strip material can withstand up to 200°C for the SC200 container and up to 400°C for the SC400 container. The outer steel ring is assembled to the stripwound section by heat shrinkage.

The SC200 and SC400 containers are stronger prestressing tool systems than normal compression rings (i.e. single and double rings). The STRECON containers can deliver higher prestressing of the production die without surpassing the yield strength of the container itself, for example 0.8% interference fit. Normal compression rings cannot provide this level of radial support to the production die and would plastically expand or perhaps even crack if pursued. The STRECON containers remain fully elastic even at maximum process pressure.

This unique product feature offers two important merits:

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

Specific calculations are required in each case.

Use in Industry

The SC200 container is mostly applied for cold forging and comparable cold work applications involving high or even extreme tool loads.

The SC400 container is mostly applied for warm forging and comparable heated applications involving high or even extreme tool loads.

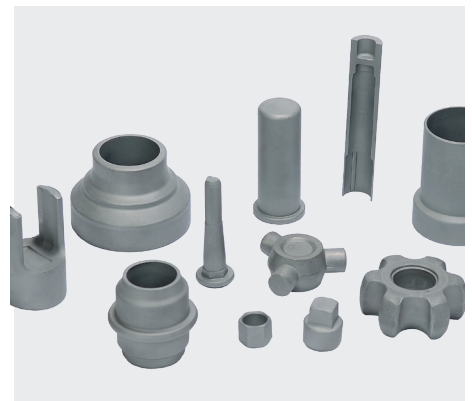
The SC200 and SC400 can both be used on all types of press machines, i.e. vertical and horizontal machines. The minimum diameter of the stripwound container can be OD Ø36 mm.



The stripwinding process



Examples of STRECON Containers



Examples of precision forging parts