



SC 200 / SC 400 container

Container design

SC 200 and SC 400 is a standard stripwound container concept 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 SC 200 and up to 400°C for the SC 400. The outer steel ring is assembled to the stripwound section by heat shrinkage.

The SC 200 and SC 400 containers is a stronger prestressing tool system 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 container remains fully elastic even at maximum process pressure, and they can be reused several times at the designed level of loadability.

This unique product feature offers two important merits: Higher service life of the forming die, and a prestressing tool that can be reused numerous times at full capacity. Specific calculations are required in each case.

Use in Industry

The SC 200 container is mostly applied for cold forging and comparable cold work applications involving high or even extreme tool loads.

The SC 400 container is mostly applied for warm forging and comparable heated applications involving high or even extreme tool loads.

The SC 200 and SC 400 can both be used at all types of press machines. Minimum diameter of both containers can be approx. \varnothing 50 mm.



The stripwinding process



Examples of STRECON Containers



Examples of precision forging parts