

STRECON Compact Containers

Tool design

SC200-C is a stripwound container solution for providing a high-strength reinforcement in limited installation spaces. This container concept offers a compact, cost-effective and lightweight reinforcement solution by using a thin outer casing and avoiding any complicated design features like assembly holes, shoulders, slots, or grooves. The minimum container size is OD \varnothing 36 mm.

As no fixtures for assembly are available in STRECON compact containers, they should be mounted in a tool block and fixed axially. This also gives the possibility of providing some axial prestress in addition to the radial prestressing.

STRECON compact containers are normally used with Strip200 and a steel winding core comparable to SC200. Designs with Strip400 (SC400-C), or winding cores made of cemented carbide (SC200⁺-C / SC400⁺-C) are also available for special applications.

Use in Industry

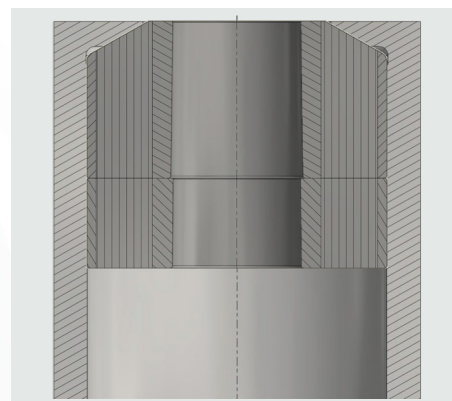
STRECON compact containers can be used for cold, warm, and hot forging operations in horizontal or vertical forming machines. The increased strength compared to single or double ring solutions makes them especially suitable for cold forging operations with high tool loads, for example due to complicated part geometries or high strength materials. The main application area of STRECON compact containers is the production of fasteners for the automotive industry, as the compact design enables the integration of high tool strength even in the comparatively small installation spaces of horizontal cold forming machines.

The figures below show assembly solutions for STRECON compact containers. While they are normally fixed axially on a shoulder in the tool block, special designs for example with a thread for assembly are also available. The exact design is always defined in collaboration with the end-user. The tooling can be integrated in forming machines from all manufacturers, such as Sakamura, National, Nedschroef, SAKMA or Hatebur. In the case of Hatebur AKP machines, STRECON even offers a complete solution including the die block for direct installation in the machine.

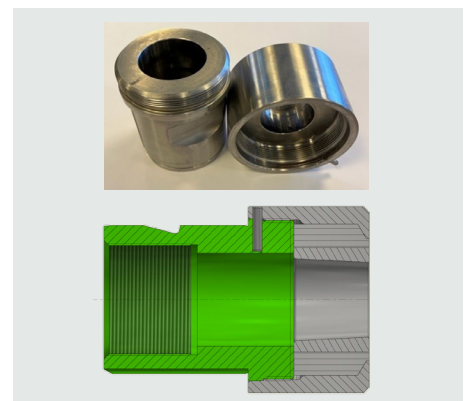
For further information and specific inquiries, please contact STRECON at info@strecon.com.



Complete die block design for Hatebur AKP; also applicable for similar machine designs



Standard assembly; SC200-C inserted in sleeve housing. Example showing top and bottom dies



Special assembly solution; SC200-C mounted at the top of the die case with a thread