

PROJECT INFORMATION

By developing and manufacturing special technical solutions we are creating innovations for solving our customers' problems. Corresponding to their requirements we develop and manufacture different kinds of transformers, voltage stabilizers, chokes, power supply units and power resistors.

Thanks to higher quality, longer service life and lower operational costs RUHSTRAT technology brings you ahead with all kinds of application.

High-Current Transformers with Collapsible Core

2025001 For conductor heating equipments with a length of 10 m up to 100m and with a conductor diameter of approx. 250 mm RUHSTRAT has developed collapsible cores, based on limb cores, in a movable construction.

These high-current transformers are used for thermal verification of high-tension cables. The upper cover of the high-current transformers can be opened thereby, which enables an easier and less complicated change of the cables. The motor-driven opening and closing of the cover is effected via push buttons at the manual control unit.

Cable test principle: During the high-tension test the cable must be brought to a defined temperature resp. a certain temperature tolerance must be developed.

As the temperature sensors which are to be brought into the conductor's coating would damage the insulation of the cable, no temperature can be measured with the cable which is to be tested.

Therefore, two identical cable tests are necessary so that there is a second core provided for these systems; it shall serve as "couple core" for a second conductor loop. This couple core has the same transformation ratio; however, for two cables to be laid in it needs a remaining hole which is twice as big as the one needed by the actual collapsible core.

For a stepless regulation of the rated output voltage a RUHSTRAT variable transformer is always preconnected to the collapsible core!

Technical Specifications:

rated input voltage	400V, 50 Hz
system 1	30 kVA with $U_2 = 15V - 2000A$
system 2	90 kVA with $U_2 = 30V - 3000A$
system 3	225 kVA with $U_2 = 45V - 5000A$

