



# RSKF

Variable Frequency Resonance  
Test System

Leaflet



**HAEFELY**

Current and voltage – our passion



On site withstand voltage testing is an essential part of a cable laying and commissioning project. Cables and accessories are tested separately during routine testing in the factory. Testing on site is a check of proper assembly of cable and accessories together.

Longer lengths of cable - 20 km or more - are being laid in order to keep pace with growing cities and offshore wind powered power plants. With longer lengths of cable, the system used to test the cable also has to be of larger power.

HAEFELY offers **RSKF** series of on site cable test systems based on the latest of frequency converters to facilitate such testing with fixed core, variable frequency reactors. These reactors are lighter and more powerful vis-à-vis variable inductance fixed frequency reactors.

As per our general philosophy, the focus is on ease of mobility and usage on site.

#### HARDWARE: AN EXPERT'S CHOICE

HAEFELY has over one century of combined experience in design and construction of HV series reactors modules. We have traditionally been the industry trend setters for cable routine test systems.

**Reactor:** made from best quality flat stacked laminations with fixed air gaps and is designed to have a very low loss. It has a long lasting design and is operable between 20-300 Hz.

**Frequency converter:** has a top of the line converter technology; compact and with tailor made software control algorithms.

**Container:** Frequency converter and control cabinet are in an air-conditioned modified ISO container

## Product Overview

RSKF  
260-83

| CABLE RANGE | Cable Class [kV] | Test Voltage [kV] | Capacitance [ $\mu$ F] | Cable Length [km] | Configuration |
|-------------|------------------|-------------------|------------------------|-------------------|---------------|
|             | 132              | 132               | 1.9                    | 9.5               | 1 - Series    |
|             | 150              | 150               | 1.9                    | 9.5               | 1 - Series    |
|             | 220              | 180               | 3.4                    | 17                | 1 - Series    |
|             | 275              | 210               | 2.6                    | 13                | 1 - Series    |
|             | 330              | 250               | 1.8                    | 9                 | 1 - Series    |
|             | 380              | 260               | 1.6                    | 8                 | 1 - Series    |
|             | 500              | 320               | 0.9                    | 4.5               | 2 - Series    |
|             | 500              | 320               | 1.9                    | 9.5               | 2 - Series    |

Note:

- Cable lengths are calculated with assumed capacitance value of 0.2  $\mu$ F/km
- Based on these reactors, multiple other configurations are possible to increase load



## FEATURES

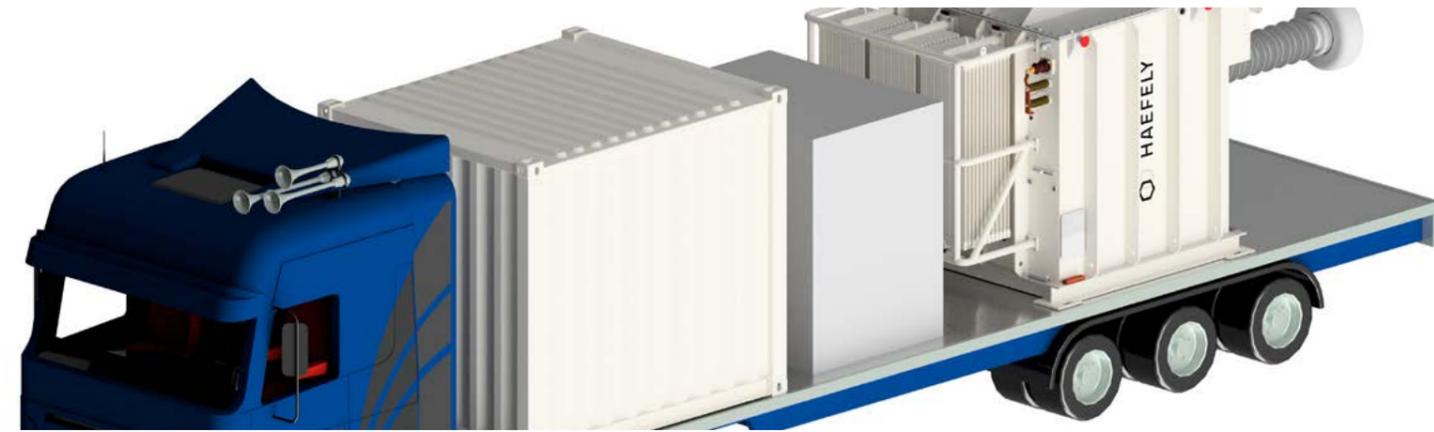
- **Mobile** with industry standard trailers
- Frequency Range **20 ... 300 Hz**
- Front End components in **Air-Conditioned** container
- **Wireless temperature** sensors for thermal management
- **Actively** cooled reactors

## BENEFITS

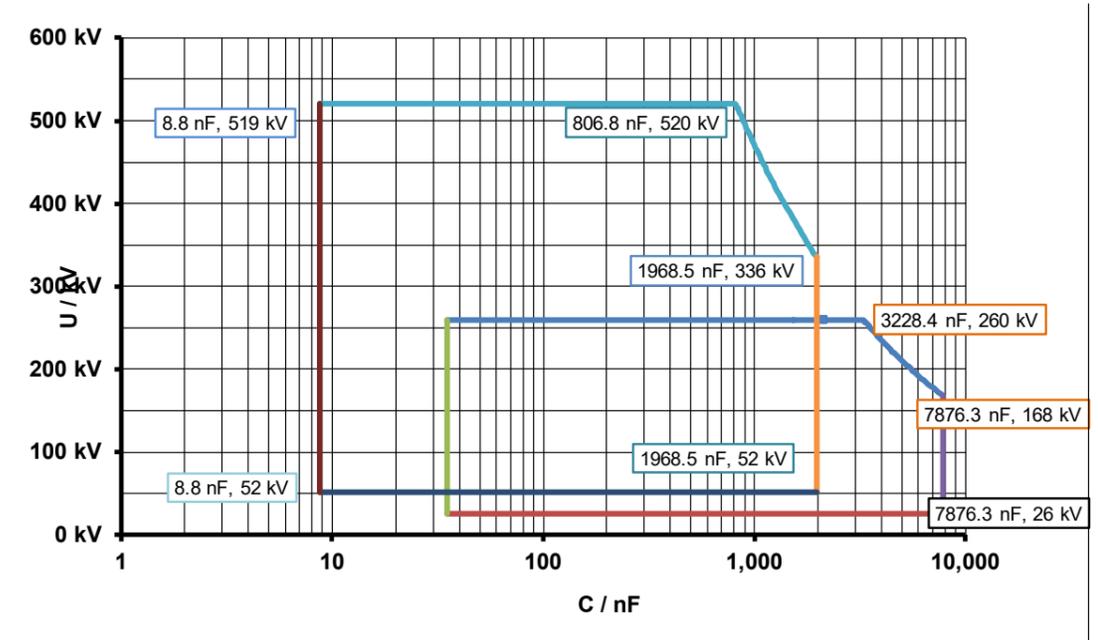
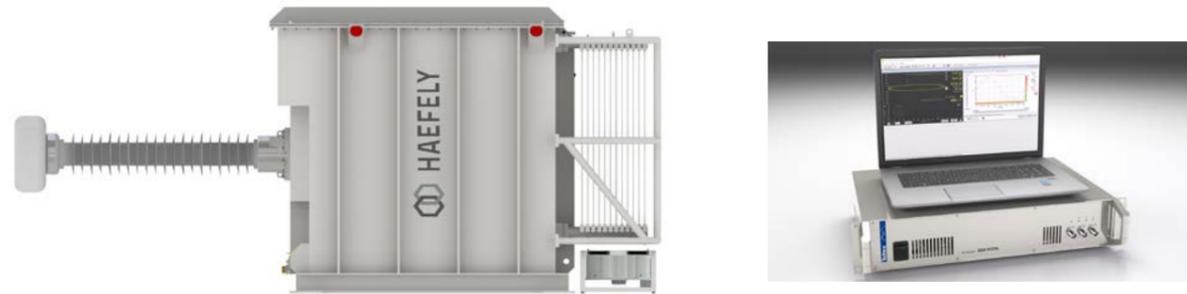
- **Trailers can be** locally built
- **Modular**, Series and parallel connections for higher voltage or higher power requirements
- **Reactors can be used** with non-Haefely systems
- **PD Measurement** with Haefely's own DDX series or third party detectors

The Main user interface is easy to operate with complete visualization of the test system being available to the operator throughout the testing. Tests can be easily configured, switches monitored and test parameters

observed and recorded and alarms supervised. Software is based on Control and Measurement Studio concept and is used by Haefely across varied measurement devices making integration easy.



Haefely series resonance reactors can be found in hundreds of cable factories in over 70 countries. We understand cable testing from tip to tip. Our PD detectors, our control systems and cable terminations are well known in the cable testing world.



Sample Cable loads diagram. Different reactor combinations are possible



## Global Presence

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This document has been drawn up with the utmost care. We cannot, however, guarantee that it is entirely complete, correct or up-to-date.  
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