

Sincotec Bauteil-Prüftechnik GmbH
Freiberger Straße 13
- Innovationspark Tannenhöhe -
D-38678 Clausthal-Zellerfeld

Phone: +49 (0)5323 96 92 0
Fax: +49 (0)5323 82 08 1
e-mail: info@sincotec.de
Internet: <http://www.sincotec.de>

High Frequency Pulser POWER SWING MAG



Accreditation according to DIN EN ISO/IEC 17025 through DAP Deutsches Akkreditierungssystem Prüfwesen GmbH for test laboratories. The accreditation is valid for the mentioned test methods in the certificate.



- Resonance Test Technology
- Servo Hydraulic
- Servo Pneumatic
- Internal Pressure Test Technology
- Custom-built Test Systems
- Metrology
- Uncoupling Foundations
- Accessories

POWER SWING MAG

Rising demands for reliability of technical products and new laws for product liability make extensive dynamic tests of elements needed. The POWER SWING series of testing machines present a powerful and universal employable test system on this score. High test frequencies and no maintenance lead to small running costs.

The new design of our high frequency pulser series POWER SWING contains some innovations, described in the following:

1. Enlarged test area and mounting table (factor 1,5)
2. Frequency range up to 300 Hz
3. Modern and innovative design
4. Digital controller with real-time processing
5. Carrier-frequency measuring amplifier
6. Insensitive to lateral forces, worldwide unique component test system which allows the usage of asymmetric clamping devices
7. Fatigue strength proof low maintenance magnetic drive system
8. Extremely high accuracies
9. Large assortment of available software modules – Modules for almost all applications
 - Static Block Program Tests
 - LCF Tests
 - Classification according to the Rainflow Method
 - RANTEC Technology, Service Load Tests
10. Optimized ergonomic

The electromagnetic resonance test machines of the POWER SWING series are universal resonance test machines for the realization of axial, bending and torsion fatigue strength tests. By using intelligent electronics with multiprocessor structure and the software beyond the WINDOWS™ user interface an efficient and reliable test system was created, which also eases the operating personnel. The control takes place through the control unit EXCITING MAG. By using special clamping devices the adjustment to the test system can be individually managed.

The test rig is designed as a three-mass swing system and includes additional screw-on masses in order to be used to influence the test frequency.

- **Resonance Test Technology**
- Servo Hydraulic
- Servo Pneumatic
- Internal Pressure Test Technology
- Custom-built Test Systems
- Metrology
- Uncoupling Foundations
- Accessories

POWER SWING MAG

Nominal Load [kN]	20	50	100	150	250	400	550
Static Load [kN]	± 20	± 50	± 100	± 150	± 250	± 400	± 550
Max. dyn. force Amplitude [kN]	± 10	± 25	± 50	± 75	± 125	± 200	± 275
Max. dynamic Stroke [mm]*	4 / 6	4 / 6	4 / 6	4 / 6	4 / 6	4 / 6	4 / 6
Height [mm]	2.560	3.100	3.100	3.100	3.150	3.150	3.150
Width [mm]	900	1.200	1.200	1.200	1.200	1.200	1.200
Depth [mm]	750	1.050	1.050	1.050	1.050	1.050	1.050
Free Column Passage[mm]	530	820	820	820	600	600	600
Max. Length of Sample[mm]	610	750	750	750	900	900	900
Total Weight [kg]	1.500	2.300	2.300	2.300	6.500	7.200	7.400
Max. Test Frequency [Hz] ¹⁾	300	300	300	300	300	300	300

* Further strokes on request

¹⁾ Test frequency depends on the stiffness of the part and clamping device and also to the max. displacement during the test.

- **Resonance Test Technology**
- Servo Hydraulic
- Servo Pneumatic
- Internal Pressure Test Technology
- Custom-built Test Systems
- Metrology
- Uncoupling Foundations
- Accessories