



Ultrasonic Sieving System



UIS250L with RIS200



SZS200



Timer T1

The ultrasonic processor UIS250L is used for the acceleration of sieving processes alternatively or complementary to the classical low frequency vibrators. Especially in case of very fine powders ultrasound is often the only possibility to enable the sieving process at all.

Hielscher Ultrasonics has developed a worldwide unique technology especially for exciting common laboratory ring sieves (according to DIN ISO 3310/1 or ASTM E 11-95) with diameters of 200mm or 8 inch. A ring sonotrode that fits the sieve is excited by the ultrasonic processor UIS250L. The ring sonotrode (RIS) transmits the oscillation via the sieve frame to the screening surface. With the help of the clamping fixtures the neighboring sieves are also excited. In contrast to the ultrasonic sieving processes known until now, in which each sieve needs its own ultrasonic excitation, this is a very inexpensive and flexible solution.

Another advantage of this exciting

principle is that the transducer is situated outside the material to be sieved. This technology can be used for dry or wet sieving, as well as for cleaning the sieves. The ultrasonic components can be retrofitted in already existing sieving towers and can even be used in combination with vibrators. In this case the delivery scope consists only of the ultrasonic processor UIS250L and the ring sonotrode, which will be fitted into the common laboratory ring sieves of most manufacturers.

An accessory set (SZS) is necessary for a complete sieving tower. The set consists of a basic platform, tension bars with rapid tension nuts, a bottom receiver and a top cover.

The timer T1 allows to operate the sieving system for a pre-defined time span.

Item / Description
<p>Ultrasonic Processor UIS250L-230V for ultrasonic sieving, 250 watts, ultrasonic frequency 24kHz, automatic frequency tuning system, amplitude adjustable from 20 to 100%, pulse adjustable from 0 to 100%, dry running protected, transducer IP40 grade, 230V~</p>
<p>Ring-Sonotrode RIS200 for use with standard laboratory screens (according to DIN ISO 3310/1), diameter 200mm, height 35mm</p>
<p>Ring-Sonotrode RIS203 for use with standard laboratory screens (according to ASTM E 11-95), diameter 203,5mm (8 inch), height 35mm</p>
<p>Accessory Set SZS200 for sieves and ring sonotrodes diameter Ø200mm or Ø203,5mm (Ø8,0"), consisting of platform, tension bars with rapid tension nuts, bottom receiver and top cover</p>
<p>Timer T1 timer, from 00:00 to 99:59 (min:sec)</p>

*prices are net, EXW Teltow, Germany, valid until 31. Dec. 2009

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