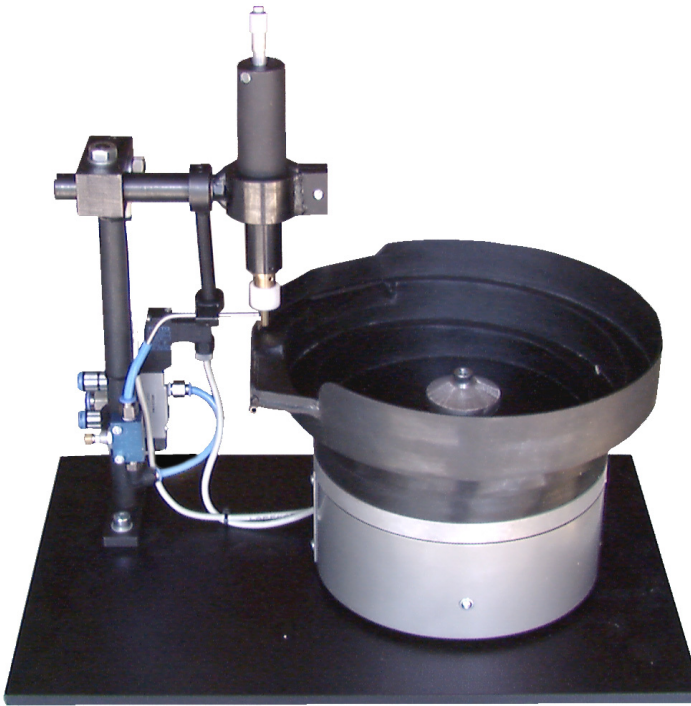


Vibrator Bowl FZ



In a vibrator bowl are springs which move by vibrations on spirals to the exit on top. To avoid that more than one spring is transported to the exit there is an adjustable chicane integrated. The feeding speed can be regulated electronically. Because springs have the bad behavior to tangle they may pass the chicane. To avoid that tangled springs reach the exit there is a sensor. This sensor detects single springs or tangled springs. That the sensor can detect single or double springs with small wire diameter as well the sensor must have an adjustable distance to the springs. To adjust easily the distance to the spring a micrometer screw is fixed at the end of the sensor. To find the correct distance a lightband composed of ten LED segments is used as tuning aid. The correct distance to let only pass one single spring can be adjusted by the distance to the spring and the zero signal of the sensor.

When two hooked springs pass the sensor the electrical output of the sensor rises and an indicator light flashes. At the same time a pneumatic valve is opened and an airblast blows the tangled springs off the feeding system and back into the vibrator bowl. Only single springs reach the exit of the vibrator bowl.

A ringsensor can indicate whether springs should be feed in the following stock tube or whether it is full. As soon as the storage tube is full a yellow lamp flashes to indicate „storage full“ and the vibrator bowl is switched off. When the ringsensor detects no spring the feeder is switched on to continue filling the storage tube.

The feeder requires 220 V 50 Hz and compressed air with 6 bar pressure.

There are 3 different sizes of bowls:

FZ-2 vibrator dia 200 mm, springs de 2 mm to 6 mm

FZ-3 vibrator dia 300 mm, springs de 4 mm to 12 mm

FZ-4 vibrator dia 450 mm, springs de 10 mm to 25 mm