Task:

Application field: Food

Material: Caraway fruits

Feed size: 4-6 mm

Feed quantity: 2600g

Material specification(s): containing oil, fibrous

Customer requirement(s): Final fineness 2 mm; throughput 25 - 40 kg; mill of stainless steel; low thermal exposure; only crushing of fruits

Subsequent analysis: not defined

Solution:

Selected instrument(s): SR 300 Rotor Beater Mill

Configuration(s): Distance rotor;
Ring-type filter with trapezoid hole body for collecting receptacle 5 l;
Dust-filters with clamping rings for ring-type filter;
Ring sieve of stainless steel, 2 and 4 mm

Parameter(s): Revolution speed approx. 9000 rpm

Time: 6 min. (for 2630 g)

Achieved result(s): Ring sieve 2 mm: 21 % < 1 mm
Ring sieve 4 mm: 18 % < 1 mm

Remark(s): A ring sieve with hole sizes of 0.75 mm will extend the grinding time and increase the sample temperature due to higher friction effects.

Recommendation: For the grinding of oil-containing, fibrous caraway fruits the Rotor Beater Mill SR 300 is suitable according to the above mentioned conditions.
Pictures of the sample

**Fig. 1:** Caraway fruits

**Fig. 2:** Caraway fruits in the SR 300; distance rotor and ring sieve with 2 mm trapezoid holes