Task:

Application field: Agriculture  
Material: Dried Sugar Cane  
Feed size: 0-100 mm  
Feed quantity: 120 g  
Material specification(s): fibrous, dry  
Customer requirement(s): 0.5 - 1 mm using SR 200  
Subsequent analysis: NIR Near Infra Red Spectroscopy

Solution:

Selected instrument(s): Cutting Mill SM 100  
Configuration(s): Parallel section rotor, stainless steel; Bottom sieve square holes 2 mm, stainless steel  
Parameter(s): Revolution speed 1400 rpm  
Time: 1 min.  
Achieved result(s): predominantly < 1 mm  
Remark(s): Using Rotor Beater Mills a passage of longer fibres through the sieve have to be expected. Therefore the SR 200 is not suitable to grind the sample material.  
Recommendation: The Cutting Mill SM 100 is suitable to grind the sample material under the above mentioned conditions.
Pictures of the sample

Fig. 1: Original sample
Fig. 2: Sample after grinding in SM 100, bottom sieve 2 mm