### Task:

**Application field:** Construction Materials  
**Material:** Slate roof tiles  
**Feed size:** 80 mm  
**Feed quantity:** 1000 g  
**Material specification(s):** dry  
**Customer requirements(s):** 53 µm  
**Subsequent analysis:** XRF - X-ray Fluorescence Analysis

### Solution

**Selected Instrument(s):**  
Jaw Crusher BB 200  
Vibratory Disc Mill RS 200

**Configuration(s) Item nos.:**  
**Jaw Crusher:**  
1 x BB 200, 230 V, 50 Hz, manganese steel / stainless steel  

**Vibratory Disc Mill:**  
1 x Vibratory Disc Mill RS 200 220-230 V, 50/60 Hz  
1 x Grinding set, steel 1.1740, 250 ml

Please note: Other electrical versions of the instrument(s) are available with different item numbers.

**Parameter(s):**  
BB 200: Gap width: 5 mm  
RS 200: Revolution speed: 1400 rpm

**Time:**  
BB 200: 30 s  
RS 200: 20 s

**Achieved result(s):**  
BB 200: Mainly smaller than 15 mm  
RS 200: 100 % < 53 µm

**Remark(s):**

**Recommendation:** The Jaw Crusher BB 200 and the Vibratory Disc Mill RS 200 are suitable to grind the sample material under the above mentioned conditions.
Pictures of the sample:

Picture 1: Original sample

Picture 2: Sample after grinding in BB 200

Picture 3: Sample after grinding in RS 200