### Task:

**Application field:** Mineralogy / Metallurgy  
**Material:** Silicon  
**Feed size:** 30-130 mm  
**Feed quantity:** 25000 g  
**Material specification(s):** hard brittle  
**Customer requirement(s):** 0.5 - 1 mm  
**Subsequent analysis:** Particle Size Analysis

### Solution:

**Selected instrument(s):** Jaw Crusher BB 300  
**Configuration(s):**  
BB 300: Breaking jaws and wearing plates of stainless steel;  
BB 51: Breaking jaws and wearing plates of zirconium oxide  
**Parameter(s):**  
BB 300: Gap width 5 mm  
BB 51: Gap width 0.5 mm  
**Time:** 5 min. (for the pre-crushing, 3 min for fine crushing of 440g)  
**Achieved result(s):**  
Pre-crushing (BB 300): predominantly < 15 mm  
Fine crushing (BB 51): 36% < 0.5 mm, 50% 0.5 - 1 mm, 14% > 1 mm  
**Remark(s):** The whole sample material is ground using the Jaw Crusher BB 300. A representative part sample is ground with Jaw Crusher BB 51.  
**Recommendation:** The Jaw Crushers BB 300 and BB 51 are suitable to grind the sample material under the above mentioned conditions.

The application report is based solely on the processing of the available sample material in the indicated amount. No legal claims shall be derived from this test report.  
Subject to technical modification and errors.  
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