Task:

Application field: Glass / Ceramics

Material: Blocks of Silicon, 2 samples

Feed size: 150-150 mm (B x T, 200 mm in height, for each sample)

Feed quantity: 11000 g (for each sample)

Material specification(s): hard brittle

Customer requirement(s): 1-5 cm in BB 300

Subsequent analysis: not defined

Solution:

Selected instrument(s): Jaw Crusher BB 300

Configuration(s): Breaking jaws of stainless steel

Parameter(s): Gap width about 7 mm

Time: 90 s (for each sample)

Achieved result(s): Predominantly < 5 cm

Remark(s): The sample material has been crushed manually (hammer) to a size of about 100 mm to fit into the jaw crusher's hopper (max feed size 150 mm).

Recommendation: The Jaw Crusher BB 300 is suitable to grind the sample material under the above mentioned conditions.
Pictures of the sample

Fig. 1: Original sample
Fig. 2: Manual pre-crushing with a hammer
Fig. 3: Sample after pre-crushing
Fig. 4: Sample after grinding in BB 300, gap width 7 mm