### Task:

**Application field:** Environment

**Material:** Cr-Concentrate, pieces up to 30 mm

**Feed size:** 0-5 mm (after pre-crushing in BB 100)

**Feed quantity:** 80 g (40 g for fine grinding)

**Material specification(s):** tough

**Customer requirement(s):** 50 - 100 µm

**Subsequent analysis:** Not defined

### Solution:

**Selected instrument(s):**
- RS 200 Vibratory Disc Mill
- BB 100 Jaw Crusher

**Configuration(s):** Grinding set 50 ml tungsten carbide (WC )

**Parameter(s):** Revolution speed 1200 rpm

**Time:** 10 min.

**Achieved result(s):** 75 % < 100 µm

**Remark(s):**
- The total sample was pre-crushed in the Jaw Crusher BB 100 with stainless steel jaws and result < 5 mm. A representative single sample (40 g) was used for fine grinding in RS 200, extension of the grinding process increases the final fineness.

**Recommendation:** For fine grinding of hard and tough materials the Vibratory Disc Mill RS 200 is suitable under the above mentioned conditions. Pre-crushing of the Cr-concentrate down to < 5 mm is necessary.

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