**Task:**

**Application field:** Environment

**Material:** Melting pot and slag residues (5000 g approx.)

**Feed size:** 2-8 mm (after pre-crushing)

**Feed quantity:** 100 g for fine grinding

**Material specification(s):** hard brittle, ductile

**Customer requirement(s):** < 200 µm, analysis of precious metals

**Subsequent analysis:** ICP-MS Mass Spectroscopy

**Solution:**

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

**Configuration(s):**
- RS 200 grinding set chrome steel 100 ml;
- PK 1000 bottom cone with 1 adjustable sample outlet, max. dividing ratio 1 : 5;
- BB 200 breaking jaws of precision-casting manganese steel.

**Parameter(s):** Revolution speed of RS 200 = 1400 min⁻¹

**Time:** 60 s (for the fine grinding in RS 200)

**Achieved result(s):** < 200 µm,

**Remark(s):** The sample preparation should be done in following steps:
1. Pre-crushing of the total sample quantity in the Jaw Crusher BB 200, gap size 3 - 5 mm.
2. Sample dividing with PK 1000, single sample approx. 200 g
**Recommendation:** The sample preparation of slag residues for a subsequent precious metal analysis, can be carried out by the above mentioned work flow.