

P OWDER SYNTHESIS

- Liquid chemical synthesis by precipitation

P RESSING AND GRINDING

- Uniaxial hot plate press, 350°C, 20t, Carver
- Cold isostatic press 4000bar, 4x10cm, CIP
- Hydraulic press BAHCO BH730, 30t
- Grinders, attritors, planets, crushers, jar turns

A DDITIVE CERAMIC MANUFACTURING

- SLA Cryoprinter small volume
- SLA 3D Ceram C101 big volume
- FDM Lynxter S600D
- Robocasting Tobeca 3Ceratop

C ASTING AND COATINGS

- Dr Blade casting bench, thickness from 20µm to 1mm
- Plaster mold casting
- Dip coating and Spin coating

T HERMAL TREATMENTS

- Microwave ovens : single/multi-mode(s), up to 2000°C, under air or atmosphere (Ar, N₂...)
- Traditional ovens : up to 2000°C, under air or atmosphere
- Melting furnace for metal casting, Indutherm
- Ovens (from -40 to 200°C)

P REPARATION OF SAMPLES AND SURFACES

- Cutting (precision chainsaw, band saw)
- Cold and hot mounting
- Polishing
- Metallization of samples by platinum or chromium deposition
- Diamond grinding machine, Lipemec

L ASER

- YAG Laser cutting Rofin Fine Cut Y130M, 25µm to 2mm max
- Laser engraving / marking, Starmark Rofin

CERAFAB

DEVELOPMENT MATERIAL

