

# Contract Service for Crystal Growth

Material Solutions for Your Innovative R&D

## All Kinds of Growth Methods in House

<b>FZ</b> (Floating Zone)	<ul style="list-style-type: none"><li>➤ Low cost and high purity by crucible free growth</li><li>➤ Capable of:<ul style="list-style-type: none"><li>➤ Atmosphere control</li><li>➤ Very high temperature; &gt;3000deg.C</li></ul></li></ul>
<b>CZ</b> (Czochralski)	<ul style="list-style-type: none"><li>➤ Simple structure allowing for large crystals; &gt;100mm dia.</li><li>➤ Automatic diameter control of crystal growth</li></ul>
<b>VB</b> (Vertical Bridgeman)	<ul style="list-style-type: none"><li>➤ Highly reproducible</li><li>➤ Low cost</li></ul>
<b>TSSG/KY</b> (Top Seeded Solution Growth) (Kyropoulos)	<ul style="list-style-type: none"><li>➤ Low stress by small temperature gradient</li></ul>
<b>DCCZ</b> (Double Crucible CZ)	<ul style="list-style-type: none"><li>➤ High homogeneity for wide range solid solution from incongruent melt and doping concentration</li></ul>
<b>EFG</b> (Edge-Defined Film-Fed Growth)	<ul style="list-style-type: none"><li>➤ Arbitrary shape of cross section</li><li>➤ High homogeneity for wide range solid solution from incongruent melt and doping concentration in die</li></ul>



**FZ**



**CZ**



**DCCZ**



**KY**



**VB**

**OXIDE**

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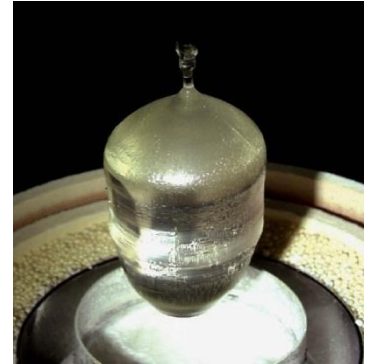
Oxide Yamanashi

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## Practical Experience

Mg:SLT/Mg:SLN, SLT/SLN, CLBO, BBO, LBO, KT, TeO<sub>2</sub>, LBGO, LGT, TGG, TSAG, YIG, YAG, YSO, Nd:YVO<sub>4</sub>, GdVO<sub>4</sub>, GSO, LGSO, GPS, BSO, SrI<sub>2</sub>, Mg<sub>2</sub>SiO<sub>4</sub>, TiO<sub>2</sub>, LiB<sub>3</sub>O<sub>5</sub>, Li<sub>2</sub>B<sub>4</sub>O<sub>7</sub>, Sapphire, LiCAF etc.

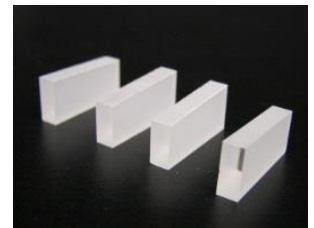


SLT (Stoichiometric LiTaO<sub>3</sub>)

## Facilities

### ➤ Crystal Processing

Wafer Slicer, OD Cutter, Automatic Dicing Saw, Cylindrical Grinder, Surface Grinder, Lapping & Polishing Machine



### ➤ Measurement and Evaluation

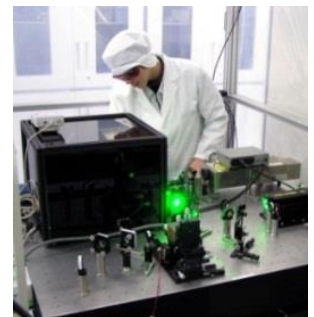
#### 1. Single Crystals

Spectrophotometer, Differential Scanning Calorimeter, Polarization Microscope, X-ray Laue Camera, X-ray Diffractometer, X-ray Topography, Schlieren Optical System, Zygo Interferometer, Refractometer



#### 2. Optical Devices

Life-time Testing System, Optical Loss Measurement, Photo-Thermal Common Path Interferometer



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