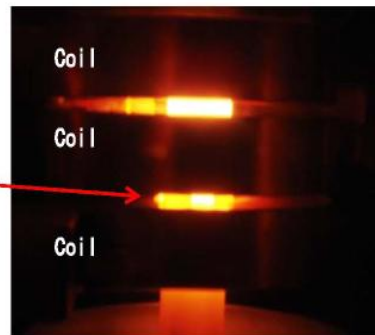
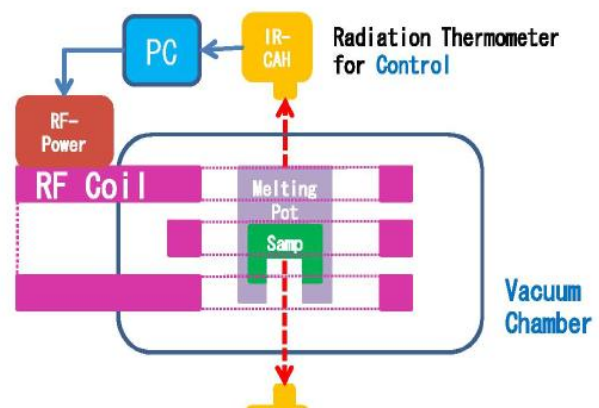


# Melting point measurement system for high temperature

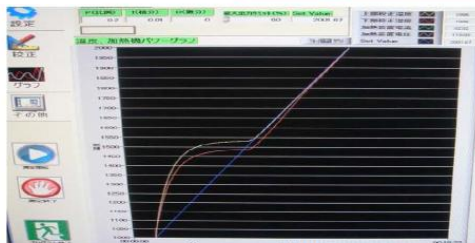
## Melting Point Measurement System



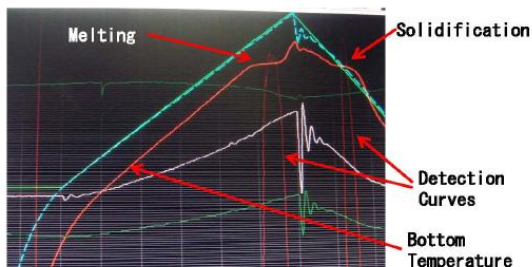
Radiating Pot with RF Coil up to 3000°C



## Melting Point Measurement System



Temperature Control by PID (PC control)  
 — : Set Value  
 — : Topside Temperature of Melting Pot  
 — : Bottom side Temperature of Melting Pot



Melting Detection Principle

## Machinery Specifications

1. Chamber: Stainless double jacket with water cooler
2. Ultimate vacuum:  $5 \times 10^{-6}$  [Torr]
3. Filling gas: Vacuum
4. Temperature: 1500 up to 3000 [degree]
5. Melting Pot: Tungsten
6. TMP: 800[l/sec]
7. RP: 300[l/min]
8. RF Power: 60[kW]
9. RF Frequency: 20[kHz]
10. RF Power: Phase Control
11. Temperature: Radiation Thermometer 2 sets
12. Monitor: CCD Camera 2 [sets]
13. PC OS: Windows XP
14. Programming: LabVIEW (National Instruments)
15. PLC: Mitsubishi
16. Chiller: Orion RKE7500A-V, RKE11000A-V
17. Power consumption
 

Furnace & Controller:	6 [kVA]
RF Power:	84 [kVA]
Chiller #1:	15 [kVA]
Chiller #2:	27 [kVA]



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