

Mono-Arc Furnace

model GMAC-2100

[Outline]

This device is an electric device that can melt/purify a high-melting-point material by arc discharge under an inert atmosphere. It is suitable for the preparation of samples for physical property research.

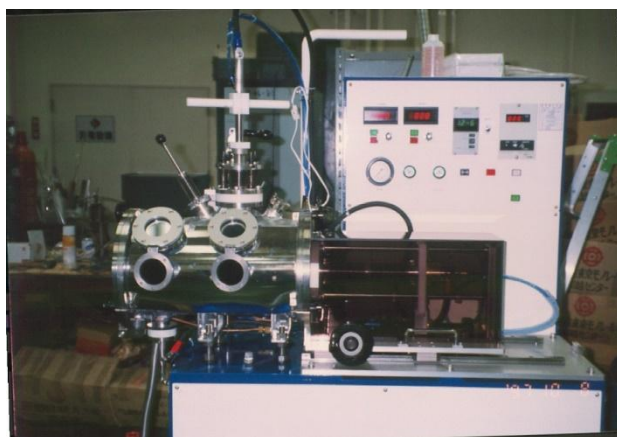
[Characteristics]

- 1) Can melt high-melting-point materials.
- 2) Can easily provide a high-vacuum atmosphere (up to $\times 10^{-6}$ Torr)
- 3) Can easily melt/purify rod-shaped materials because of lateral motion of the hearth shaft.
- 4) Can ease fine control and adjustment of the current with a current control trimmer at the electrical source. (option)

[Basic specifications]

Chamber design for arc melting furnace	SUS304 with water cooling
Seal of arc electric shaft	O ring + bellows type
Seal of hearth shaft	bellows type (option)
Lateral travel stroke of casting part for a sample	120 mm
Casting length of a sample	up to 132 mm
Total travel range of hearth shaft	300 mm (manual)
Rod for turning over a sample	bellow sealed
Ti getter	(option)
Evacuation rate for vacuum	TMP 160 L/s + RP 90 L/min
Electrical source for arc electrode	200 A power capacity (standard)
Electrical source for getter electrode	150 A power capacity (option)

[Machine overview]



[Hearth (Four sides are useful)]



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