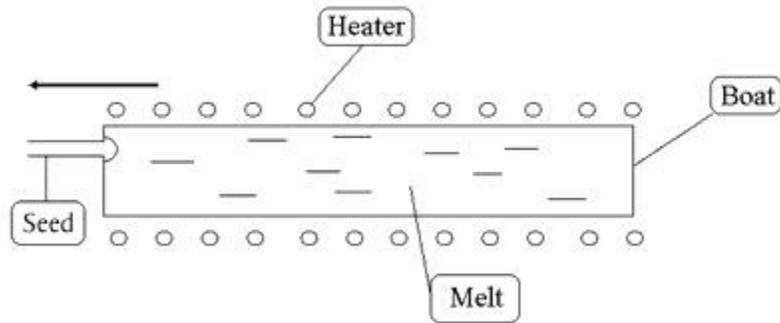


Bagdasarov or HDC Method

Crystals are grown from the melt in a horizontal boat-shaped container at the speed of 8-10 mm per hour. This method makes it possible to get large slabs with almost perfect edges and of any given crystallographic orientation: C-plane, M-plane, R-plane or Random.



Method's Features: Sapphire grown by Bagdasarov method possesses high optical quality (2nd or 3rd material grade). Typical crystals grown by this method are shaped as thick rectangulars (e.g. 170mm x 200 mm x 35-38 mm). This material is ideal for manufacturing sapphire Ingots/blanks/windows of diameters 2"-8" and thickness >3 mm. Bagdasarov method is applied in manufacturing C-plane Ingots for Blue LEDs up to 8" in diameter.